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European Environment Agency



**INTRODUCTION TO POLLUTANT RELEASE AND TRANSFER
REGISTER (PRTR) AND GUIDELINES FOR REPORTING**

MEDPOL PRTR Implementation Guide

April 2018

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ABBREVIATIONS

BREF	Best Available Techniques Reference Document
CAS	Chemical Abstracts Service
CORINAIR	Core Inventory of Air Emissions
EMAS	Eco-management and Audit Scheme
EMEP	European Monitoring and Evaluation Programme
EPA	Environmental Protection Agency
EPER	European Pollutants Emission Register
GIS	Geographic Information System
E-PRTR	European Pollutant Release and Transfer Register
EU	European Union
H2020	Horizon 2020
ISO	International Organisation for Standardisation
ISIC	International Standard Industrial Classification
IPCC	Intergovernmental Panel on Climate Change
NACE	Nomenclature of Economic Activities
NAP	National Action Plan
NBB	National Baseline Budget
OECD	Organisation for Economic Cooperation and Development
PRTR	Pollutant Release and Transfer Register
RET	Release Estimation Techniques
UN	United Nations
UNCED	United Nations Conference on Environment and Development
UNECE	United Nations Economic Commission for Europe
UNIDO	United Nations Industrial Development Organisation
UNITAR	United Nations Institute for Training and Research
WHO	World Health Organisation

INTRODUCTION

The aim of this MEDPOL PRTR Implementation Guide is to support the operators to collect, evaluate and report all pollutants releases into the environment by completing the “reporting format” (Appendix 8), on a regular basis, by the industrial activities. The format could be completed on a period or annual basis, as appropriate.

Additionally, it gives some instructions to the competent authorities to tackle the reporting requirements described by the NAP/H2020 indicators (Appendix 9) by taking into consideration the information provided by the NBBs. Furthermore, this particular MEDPOL PRTR Implementation Guide will enable countries to train their personnel and facility operators for PRTR reporting.

Which PRTR?

As said above, there are several PRTR systems applied worldwide; the UNECE Protocol has defined a comprehensive PRTR system which forms a comprehensive framework also followed by the EU (E-PRTR).

The MEDPOL PRTR system is practically following the E-PRTR classification (Annex I of the 166/2006 Regulation) of activities and thresholds which are identical to those referred in the UNECE Protocol but avoid confusion (capacity and/or employees). Following the E-PRTR system will also ensure the harmonisation of PRTR procedures among all Mediterranean countries by avoiding a discrepancy between EU/non-EU countries.

There are several activities grouped by sectors (energy, metal production and processing, mineral industry, chemical industry, waste and waste-water management, paper/wood processing industries, intensive livestock and aquaculture, animal and vegetable products and others) which are referred in the UNECE Protocol as well as in the EU Regulation as subject to PRTR reporting with specific thresholds which, if exceeded, the relevant facilities' operators have to report the quantities emitted into the environment.

1. FACILITY IDENTIFICATION **Who has to report?**

The activities are grouped in 9 activity sectors and listed in detail in Appendix 1:

1. Energy;
2. Production and processing of metals;
3. Mineral industry;
4. Chemical industry;
5. Waste and waste water management;
6. Paper and wood production and processing;
7. Intensive livestock production and aquaculture;

8. Animal and vegetable products from the food and beverage sector;
9. Other activities.

Reporting is required if the capacity threshold (Appendix 1) and release thresholds (Appendix 2) or off-site transfer thresholds for pollutants in waste water or for wastes are exceeded. If the thresholds are only equaled but not exceeded, reporting is not required. If no capacity threshold is specified (activities marked with *) all facilities of the relevant activity are subject to reporting if a release threshold is exceeded. If only the capacity thresholds are exceeded but the release or off-site transfer thresholds are not exceeded, reporting is not required.

If one operator carries out several activities falling under the same activity of the same facility at the same site, the capacities of such activities are added together. The sum of the capacities is then compared with the capacity threshold for the specific activity as listed in Appendix 1.

1.1. Reporting Period

This is the calendar period (1 year) to which the reported information applies, not the period in which you are submitting the report.

1.2. Certification

The certification statement must be signed by the owner or operator or a senior official of the facility with management responsibility for the person (or persons) completing the form. The owner, operator, or official must certify the accuracy and completeness of the information reported on the form by signing and dating the certification statement.

1.3. Facility Name and Location

Enter the name of your facility (plant site name or appropriate facility designation), street address, mailing address and city in the space provided.

1.3.1. Full or Partial Facility Information

As facility is meant any industrial unit(s) carrying out a distinctive activity of Appendix 1; that means that an integrated facility consisting of various activities has to report for each specific activity is performing.

Example 1: A factory producing fertilisers and having 2 different units on the same site for the production of the basic raw materials (4b ii) and of the fertiliser's product (4c) has to deliver 2 different reports.

Example 2: The main Appendix 1 activity of facility P is the production of paper and board and other primary wood products. The main Annex I activity of facility Q is the production of pulp from timber or fibrous materials. Facility Q also includes a combustion plant and a waste-water treatment plant all run by operator Q. In addition operator Q runs another installation as part of facility Q, which is a non-Appendix 1 activity (figure 2). In table 1 the reporting requirements for each facility is presented.

Figure 2: Integrated Facility P+Q

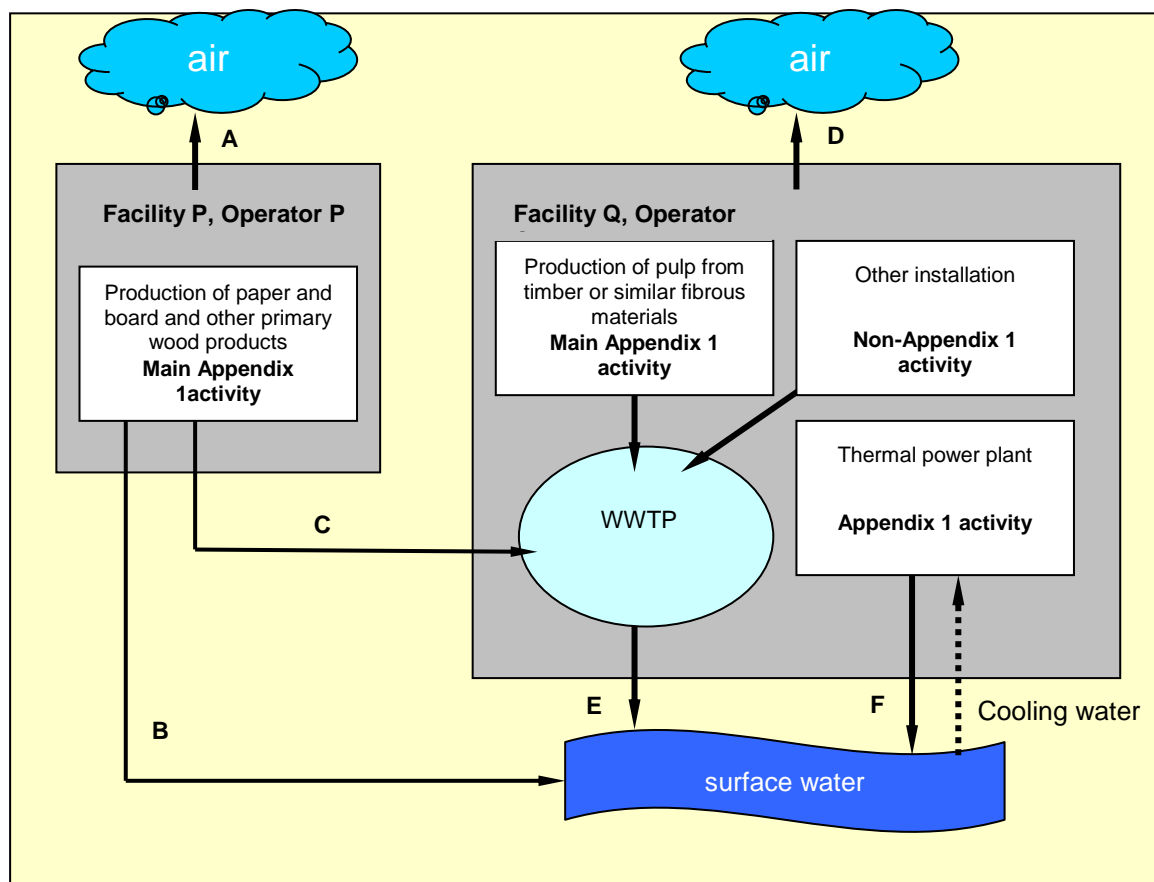


Table 2: Reporting Requirements for facilities P + Q

Reporting facility	Activity	Release/Off-site transfer	Reporting requirements
Facility P	Production of paper and board and other primary wood products	A	To be reported as release to air
		B	To be reported as release to water
		C	To be reported as off-site transfer of pollutants in waste water
Facility Q	Production of pulp from timber or similar fibrous materials	D	Sum of releases to be reported as release to air
	Thermal power station	F	Sum of all releases (E+F) to be reported as release to water
	Waste-water treatment plant	E	
	Other installation (non-Appendix 1)		

How is facility P classified?

The only Appendix 1 activity of facility P is the production of paper and board. Therefore, it is a 6 (b) activity (Industrial plants for the production of paper and board and other primary wood products (such as chipboard, fibreboard and plywood)).

How is facility Q classified?

The main economic activity of facility Q is the production of pulp from timber or fibrous materials. This is also the **main** Appendix 1 activity to be reported. Facility Q also includes a combustion plant of a capacity greater than 50 MW, which is also an Appendix 1 activity. The waste water is treated in a wastewater treatment plant operated by the facility. Therefore (table 2):

Table 2: Example - Classification of facility Q

Activity	PRTR Code	Description
1 (main)	6 (a)	Industrial plants for the production of pulp from timber or similar fibrous materials
2	1 (c)	Thermal power stations and other combustion installations

1.3.2. Technical Contact

Enter the name and telephone number of a technical representative whom the competent authorities may contact for clarification of the information reported. This contact person does not have to be the same person who prepares the report or signs the certification statement and does not necessarily need to be someone at the location of the reporting facility. However, this person must be familiar with the details of the report so that he/she can answer questions about the information provided.

1.3.3. Public Contact

Enter the name and telephone number of a person who can respond to questions from the public about the report. This contact person does not have to be the same person who prepares the report or signs the certification statement and does not necessarily need to be someone at the location of the reporting facility.

1.4. International Standard Industrial Classification (ISIC)/NACE Code

Use the United Nations International Standard Industrial Classification Code (4-digits) or the NACE Code (4-digits) to classify your activity. Both Codes have exactly the same items at the highest levels, where NACE is more detailed at lower levels. The ISIC classification is listed in Appendix 3.

1.5. Latitude and Longitude

Enter the latitudinal and longitudinal coordinates of your facility.

Latitude and longitude coordinates of your facility are very important for pinpointing the location of reporting facilities and are required elements.

1.6. Parent Company Information

Enter the name of the corporation or other business entity that is your ultimate parent company. If your facility has no parent company, check the NA box.

1.7. River Basin District Information

In the reporting format (Appendix 8) except the general information about the facilities its location in the relevant river basin district has also to be indicated thus allowing the competent authorities to assess the pollution loads accordingly. In doing so, the authorities should inform the operators about the exact name and codification of the relevant river basin district.

Summary:

1. Facilities falling into the activities listed in Appendix 1 and exceed (or equal to) the relevant production thresholds have to report their releases and off-site transfers;
2. Integrated facilities consisting of more than 1 installation which fall into more than 1 Appendix 1 activities have to report separately their releases and off-site transfers;
3. The economic activity of the facility is the main activity (in cases of more than 1 activities installed in the facility).

2. REPORTING REQUIREMENTS

What has to be reported?

If an activity specified in Appendix 1 is carried out and the capacity threshold specified therein is exceeded, there is an obligation to report releases and off-site transfers: for 91 priority pollutants there is an obligation to report their emitted loads if they exceed the thresholds listed in Appendix 2. For some of the pollutants listed there the Chemical Abstracts Service (CAS) Registry Numbers¹ are also defined when available.

Releases of pollutants falling into several categories (of pollutants) shall be reported for each of these categories if the relevant thresholds are exceeded. Since, for example 1,2-dichloroethane is a NMVOC, releases of pollutant number 34 (1,2-dichloroethane) are also included under pollutant number 7 (NMVOC). In the case of tributyltin and triphenyltin (organotin compounds), the releases of pollutant number 74 (tributyltin and its compounds) and 75 (triphenyltin and its compounds) are also included under pollutant number 69 (Organotin compounds as total Sn).

Reported releases and off-site transfers are totals of releases and off-site transfers from all **accidental, routine and non-routine** activities at the site of the facility.

- **Accidental** releases are all releases which are not deliberate, routine or non-routine

¹ <http://support.cas.org/content/chemical-substances>

and result from uncontrolled developments

- **Non-routine** activities are extraordinary activities that are carried out under controlled operation and may lead to increased releases of pollutants e.g. shut-down and start-up processes before and after maintenance operations.

Accidental/non-routine releases have to be added to those from the routine operation of the facility. Usually it is possible to quantify accidental releases e.g. by considering the duration of an accidental release and relating this to assumed flow rates. Since these cases do occur rarely they have to be also noted as separate data set in the reporting format (Appendix 8).

For each activity there is a typical set of pollutants released into the air (Appendix 4) and into the water (Appendix 5). Both tables are indicative only and should not be interpreted as a standard list of parameters for specific sub-sectors. To decide which parameters are relevant to each specific installation, information contained in Environmental Impact Assessments (EIA), permit applications, site inspection reports, process flow sheets, material balances etc. have to be taken into consideration. Therefore, it might be possible that for a certain activity fewer or possibly more pollutants than indicated have to be considered and it is in the hands of operators/authorities to decide which will be the final list of pollutants for PRTR reporting.

In table 3 the reporting requirements are summarized.

Table 3: Reporting requirements

Releases		Quantity ¹	M/C/E ³	Method used ⁴		
	to air	kg/year ²	X	X		
	to water	kg/year ²	X	X		
	to land	kg/year ²	X	X		
Off-site transfers of:		Quantity ¹	M/C/E ³	Method used ⁴	Name and address of recoverer/ disposer	Address of actual recovery/disposal site receiving the transfer
Pollutants in wastewater ⁵		kg/year ²	X	x		
Non-hazardous waste	for disposal (D ⁶)	t/year	x	x		
	for recovery (R ⁷)	t/year	x	x		
Hazardous waste within the country	for disposal (D)	t/year	x	x		
	for recovery (R)	t/year	x	x		
Hazardous waste transboundary	for recovery (R)	t/year	x	x	x	x
	for disposal (D)	t/year	x	x	x	x

¹) Quantities are totals of releases from all deliberate, accidental, routine and non-routine activities at the site of the facility or of off-site transfers.

²) The total quantity of each pollutant that exceeds the threshold value specified in Appendix 2. In addition, any data that relate to accidental releases have to be reported separately whenever available.

³) It has to be indicated whether the reported information is based on measurement (M), calculation (C) or estimation (E).

⁴) Where data are measured or calculated, the method of measurement and/or the method for calculation shall be indicated.

⁵) Off-site transfer of each pollutant destined for waste-water treatment that exceeds the threshold value specified in Appendix 2

⁶) Disposal process coding (see Appendix 7)

⁷) Recycling process coding (see Appendix 7)

2.1. Measurement, calculation, estimation methods

Sometimes the total release of a pollutant at a facility is determined by more than one determination method; in that case, the determination method with the highest amount of release is chosen for reporting. Example: The release of an air pollutant occurs at two stacks (stack A and stack B). The total release exceeds the relevant release threshold. The release at stack A is measured and amounts 100 kg/year. The release at stack B is calculated and amounts 50 kg/year. Since the highest amount of release (100 kg/year) is measured, the total release (150 kg/year) has to be indicated as being based on measurement.

2.1.1. Measurement (M)

For facilities of capacities mentioned in Appendix 1 it is expected that most of the released pollutants are measured and recorded. In this case the relevant measuring method should be cited. In Appendix 6 an indicative list of internationally approved measuring methods for releases of air and water pollutants is presented.

“M” is used when the releases of a facility are derived from direct monitoring results for specific processes at the facility, based on actual continuous or discontinuous measurements of pollutant concentrations for a given release route. “M” should also be used when the annual releases are determined based on the results of short term and spot measurements.

2.1.2. Calculation (C)

“C” is used when the releases are based on calculations using activity data (fuel used, production rate, etc.) and emission factors or mass balances.

A good guidance is the set of emission indicators developed by MEDPOL which relate production capacities with releases (UNEP(DEPI)/MED WG. 399/Inf.3); however not all releases are covered by these factors. In that case the operator has to report which calculation method has been considered.

Other Internationally approved calculation methods are:

- EU Guidelines for the monitoring and reporting for greenhouse gas emissions under the Emission Trading Scheme²
- IPCC Guidelines³
- EMEP/CORINAIR Emission Inventory Guidebook⁴

2.1.3. Estimation (E)

“E” is used when the releases are determined by best assumptions (e.g. mass balances) or expert guesses which are not based on publicly available references or in case of absence of recognized emission estimation methodologies or good practice guidelines.

2.1.4. Additional information sources for the determination of releases

² https://ec.europa.eu/clima/sites/clima/files/ets/monitoring/docs/gd1_guidance_installations_en.pdf

³ <http://www.ipcc-nggip.iges.or.jp/public/gl/invs1.html>

⁴ <https://www.eea.europa.eu/publications/emep-eea-guidebook-2016>

Other information on release determination methods can be found at the following sources:

- The BREF document “Reference Document on the General Principles of Monitoring”⁵ contains a list of CEN-standards and pre-standards for determination of releases.
- The United Nations Institute for Training and Research (UNITAR) “Guidance for Facilities on PRTR Data Estimation and Reporting”⁶
- The website of the OECD “Resource Centre for PRTR Release Estimation Techniques” (RETs)⁷ provides a clearing-house of guidance manuals/documents of release estimation techniques for the principal pollutant release and transfer registries developed by OECD member countries.
- Information about air emission factors can be found in the US EPA website⁸

2.1.5. Other calculation/estimation techniques

The operator may use "equivalent" methodologies other than internationally approved methodologies, even when available, if one or more of the conditions are fulfilled which are listed in table 4: there should also be a short description of the methodology applied (see example in table 5).

Table 4: Codification of M/C/E methodologies

Method used for determination of releases/off-site transfers	Designation of the method used
Measurement methodologies	
Internationally approved measurement standard	Short designation of the relevant standard (e.g. EN 14385:2004)
Measurement methodology already prescribed by the competent authority in a license or an operating <u>p</u> ermit for that facility	PER
<u>N</u> ational or <u>r</u> egional <u>b</u> inding measurement methodology prescribed by legal act for the pollutant and facility concerned	NRB
<u>A</u> lternative Measurement Method in accordance with existing CEN/ISO measurement standards	ALT
Measurement methodology the performance of which is demonstrated by means of <u>c</u> ertified <u>r</u> eference <u>m</u> aterials and accepted by competent authority	CRM
<u>O</u> ther measurement methodology	OTH
Calculation methodologies	
Internationally approved calculation method	Short designation of the method used: ETS,

⁵ http://eippcb.jrc.ec.europa.eu/reference/BREF/mon_bref_0703.pdf

⁶ http://cwm.unitar.org/publications/publications/cw/prtr/prtr_en/prtr_tech_support_2_nov2003.pdf

⁷ <http://www.oecd.org/env/prtr/rc>

⁸ <https://www.epa.gov/air-emissions-factors-and-quantification/basic-information-air-emissions-factors-and-quantification>

	IPCC, UNECE/EMEP
Calculation methodology already prescribed by the competent authority in a license or an operating <u>p</u> ermit for that facility	PER
<u>N</u> ational or <u>r</u> egional <u>b</u> inding calculation methodology prescribed by legal act for the pollutant and facility concerned	NRB
<u>M</u> ass <u>b</u> alance method which is accepted by the competent authority	MAB
European-wide <u>s</u> ector <u>s</u> pecific <u>c</u> alculation method	SSC
<u>O</u> ther calculation methodology	OTH

Table 5: Example of M/C/E methodologies description

Releases to air						
Pollutant		Method			Quantity	
No ¹ .	Name	M/C/E	Method used		T (total) (kg/year)	A (accidental) kg/year
			Code	Designation or description		
1	CH ₄	C	NRB	regional binding measurement methodology using specific gas chromatography	125,000	-
3	CO ₂	C	ETS	-	244,000,000	-
14	HCFCs	E	-	-	1.28	1.28
18	Cd	M	EN 14385 :2004	-	12.5	-
72	PAH	M	NRB	VDI 3873	122	-

¹⁾ As numbered in Appendix 2

2.2. Examples of releases

All releases have to be accurately reported so that the necessary information is complete and comprehensive; that means that, except of the pollutants quantities data about the method used, the accidental releases and the total loads should be mentioned.

2.2.1. Releases to air

A total of 60 substances are specified as relevant air pollutants. Releases from a facility of air pollutants in excess of the threshold values in column 1a (Appendix 2) must be reported.

An example of releases to air from an oil refinery installation is presented in table 6.

Table 6: Releases to air (example: oil refinery)

Releases to air						
Pollutant			Method		Quantity	
No ¹	CAS Number	Name	M/C/E	Method used	T (total) (kg/year)	A (accidental) kg/year
1	74-82-8	Methane (CH ₄)	C	IPCC	521,000	-
3	124-38-9	Carbon dioxide (CO ₂)	M	ISO 12039:2001	413,000,000	-
21		Mercury	M	EN 13211:2001	17.0	2.00

¹⁾ As numbered in Appendix 2

2.2.2. Releases to water

A total of 71 substances are specified as relevant water pollutants. Releases of water pollutants which exceed the threshold values in column 1b (Appendix 2) must be reported by the facility.

An example of releases to water from a plant for the pre-treatment of fibres and textiles is presented in table 7.

Table 7: Releases to water (example: pre-treatment of fibres and textiles)

Releases to water						
Pollutant			Method		Quantity	
No ¹	CAS Number	Name	M/C/E	Method used	T (total) kg/year	A (accidental) kg/year
63		Brominated diphenylethers (PBDE)	E		25.5	20.0
76		Total organic carbon (TOC)	M	EN 1484:1997	304,000	-
N						

¹⁾ As numbered in Appendix 2

2.2.3. Releases to land

As releases to land are those pollutants contained in wastes which are subject to land treatment (D 1) e.g. spreading of oily sludges and/or deep injection (D 3) e.g. of saline solutions as described in Appendix 7. Sludge and manure spreading are recovery operations and therefore not reported as releases to land.

A total of 61 substances are specified as relevant pollutants for releases to land.

Accidental releases of pollutants onto the soil on the site of a facility (e.g. spillages) do not have to be reported. Accidental releases to land are theoretically possible (e.g. due to the leakage of a pipeline at the location of deep injection) but it is expected that they will only occur in very rare cases.

An example of releases to land by deep injection of liquid wastes is presented in table 8.

for any operations of recovery or disposal (see Appendix 7) with the exception of the disposal operations of land treatment and deep injection, as these have to be reported as releases to land.

The operator has to indicate whether the waste is destined for recovery ("R") or for disposal ("D"). If the waste is destined for waste treatment that includes both recovery and disposal operations (e.g. sorting), the treatment operation (R or D) for which more than 50% of the waste is destined should be reported. In cases where the facility is not able to trace whether more than 50% of the waste is disposed or recovered, then code "D" should be used.

An example of off-site transfer of wastes is given in table 10.

Table 10: Off-transfer of wastes (example)

Off-site transfer of waste	Quantity (t/year)	Waste treatment operation	M/C/E	Method used
Hazardous waste within the country	10.5	R	M	weighing
Non-hazardous waste	2,500	D	C	PER

The indication of the method used for the off-site transfer of hazardous waste is based on "weighing", that of non-hazardous waste on calculation by using a methodology prescribed by the competent authority in the operating permit for the facility (method name to be reported).

2.4. Quality assurance

2.4.1. Operators

The reported data by the facility operators must be:

Complete: the reported data should cover all releases and off-site transfers of all pollutants and wastes exceeding thresholds for all facilities with Appendix 1 activities above the capacity thresholds. The data should also contain all additionally required information (e.g. description of calculation methods).

Consistent: the data shall be reported on the basis of unambiguous and uniform definitions, source identification and reliable methodologies for the determination of the releases. Consistent reporting by facilities will enable the competent authorities to carry out consistent reporting in standardised formats to MEDPOL and any other institutions (e.g. EEA) concerned. This will enable comparison of the reported data with previous release data of reporting facilities or with data of similar sources in other countries. In this respect a consistent use of the identification number of facilities and of the pollutants is essential.

Credible: the data must be authentic, reliable, comparable and transparent. In the context of pollutant release and transfer registers credibility is closely linked to consistency. If the approaches and data sources used in an inventory development project are considered consistent, then users will have an acceptable degree of confidence in the releases data developed from those techniques.

2.4.2. Authorities

Competent authorities shall assess the data provided against information that is already available, as appropriate. For example, competent authorities may wish to check the data received against the following:

- information received by the competent authorities arisen as part of licensing procedures or compliance checking of permits;
- information received as a result of self-monitoring by facilities that is reported to the authorities;
- information related to the application by the facilities of eco-management and audit scheme (EMAS) or ISO 14001

In the case of any discrepancies, uncertainties or doubts in respect of the information provided by facilities, the competent authority could ask for clarification from the facility concerned. The facility could also be asked to amend the information supplied if appropriate. This includes examination by the competent authorities of the records held by operators especially the data from which the reported information was derived and the description of the methodology used for data gathering.

The E-PRTR validation tool⁹ can support the authorities; it is a software application which can easily detect erroneous data such as incorrect co-ordinates and figures, pollutants reported twice and facilities with no reported releases.

2.5. Confidentiality

If an operator of a facility has justifiable reasons that specific information concerning releases or off-site transfers should be kept confidential, he has to inform the competent authorities and justify this decision. The authorities have to approve which data has to be kept confidential (possibly upon an indication to that effect by the operator) and inform the MEDPOL Secretariat accordingly.

In practice, this means that only the name of the pollutant should be kept confidential and instead should be replaced by the name of a group of pollutants. The method of measurement/calculation should not be reported either.

An example of confidential data reporting is given in table 11.

Table 11: Confidential data reporting (example)

	Pollutant No ¹	Pollutant name/category	M/C/E	Method used	Quantity kg/year
Confidential data	-	Heavy metal	M	-	8.45

¹⁾ As numbered in Appendix 2

The groups of pollutants can be seen in table 12.

⁹ <https://www.eionet.europa.eu/schemas/eprtr/EPTRUserManual.pdf>

Table 12: Groups of pollutants

Groups of pollutants	No. of pollutant according to Appendix 2
Greenhouse gases	1, 3, 4, 5, 9, 10
Other gases	2, 6, 7, 8, 11, 14, 15, 16, 80, 84, 85
Heavy metals	17-24
Pesticides	25-30, 32, 33, 36-39, 41, 44-46, 51, 59, 67, 74, 75, 77, 89
Chlorinated organic substances	31, 34, 35, 40, 42, 43, 47-50, 52-58, 60, 63, 90
Other organic substances	61, 62, 64-66, 68-73, 76, 78, 87, 88, 91
Inorganic substances	12, 13, 79, 81-83, 86.

In case that the name of the facility should be confidential the reporting format is presented in Table 13. The geographical coordinates of the facility shall not be kept confidential in this case in order to enable the public to look at the total of industrial releases and off-site transfers in their neighbourhood.

Name	Address	Geographical co-ordinates	Pollutant no.	Pollutant	M/C/E	Method used	Quantity (total in kg/year)	Quantity (accidental in kg/year)	Reason for confidentiality
-	-	8.665055 48.576678	1	Methane (CH ₄)	C	IPCC	550,000	-	

3. PRTR – NBB

The National Baseline Budget (NBB) and the PRTR aim both at the most accurate assessment of pollutants released into the environment. Their set-up and content are of similar characteristics; however, there are some discrepancies which are presented in table 13.

Table 13: E-PRTR/NBB comparison

Issue	NBB	PRTR
Geographical scope	Administrative regions located in drainage basins that outflow into the Mediterranean.	All regions and river basin districts
Source type	Point sources (industry and urban centres).	Industrial facilities and diffuse sources
Scope of point sources	All point sources irrespective of their capacity.	Only if the facility exceeds the following thresholds: a) falls under at least one of the 65 PRTR economic activities listed in Appendix 1 and exceeds at least one of the PRTR capacity thresholds b) transfers waste off-site which exceed specific thresholds c) releases pollutants which exceed specific thresholds specified for each media - air, water and land in Appendix 2
Media	Water and air	Amounts of pollutant releases to air, water and land as well as off-site transfers of waste and of pollutants in waste water

Issue	NBB	PRTR
Emission scope	Direct emissions to drainage basins or into the sea.	Direct emissions and indirect emissions (going to an external treatment plant).
Sector categories	1) Sectors according to LBS Protocol 30 categories 2) Subsectors: 97 categories	1) Appendix 1 of the E-PRTR Regulation: 9 sector categories 2) NACE Main Economic Activity 65 categories
Groups of pollutants	<ul style="list-style-type: none"> Hydrocarbons Metals and compounds Nutrients, SS and BOD/TOC Organohalogen Other atmospheric pollutants Other inorganic compounds Other organic compounds 	<ul style="list-style-type: none"> Greenhouse gases Other gases Heavy metals Pesticides Chlorinated organic substances Other organic substances Inorganic substances
Method of quantification	a) Measurement of the concentration levels of emissions at the source and quantification using additional data on the source activity. b) Estimation of emissions based on emission factors and industrial activity rates, material flow, etc.	a) Measured (M) : Release data are based on measurements. Additional calculations are needed to convert the results of measurements into annual release data. b) Calculated (C) : Release data are based on calculations using activity data (fuel used, production rate, etc.) and emission factors or mass balances. c) Estimated (E) : Release data are based on non-standardized estimations.

In principal the PRTR system is focusing on bigger point sources and on a more detailed inventory of pollutants (by including off-site transfers); on the other hand some main pollutants for the assessment of water pollution i.e. BOD, suspended solids (SS) are covered by the NBB reporting requirements.

In order to get the necessary information for the assessment of the pollutants releases into the Mediterranean environment both systems, NBB and PRTR, should be used and harmonised to the largest possible extent by applying the following selection criteria:

1. To select/filter only regions and river basin districts located in drainage basins that outflow into the Mediterranean;
2. To compare the sector and subsectors dictionaries under NBB and under PRTR in order to identify the corresponding loads source categories and to identify not fully matching sectors/subsectors.

Consequently:

- dictionary entries not corresponding to any coded item in any list should be left in the NBB dictionaries;

- the sector dictionaries are the union of the PRTR and NBB sector dictionaries;
 - for a specific sector the subsectors dictionaries are the union of the PRTR and NBB subsectors dictionaries;
3. To gather all emission data from industrial facilities regardless of specific capacity thresholds set by the PRTR or, alternatively, ensure that data collected are representative of the total discharges from such sector/subsector at national level, i.e.:
 - For NBB reporting purposes, it is recommended neither to adopt PRTR capacity thresholds nor to set national capacity thresholds;
 - If national capacity thresholds are set, to ensure that emissions gathered from each industrial sector/subsector in the country are representative of the total sector/subsector emissions in the country, i.e. they are at least 80% of the total emissions per sector/subsector. It is then up to each country to set such national capacity thresholds;
 4. To compare the pollutant dictionaries under NBB and under PRTR in order to identify the corresponding loads of pollutants and to identify not matching pollutants:
 - dictionary entries not corresponding to any coded item in any list should be left in the NBB dictionaries;
 - the pollutant dictionaries in the NBB are the union of the PRTR and NBB pollutant dictionaries.
 5. To gather all emission data from industrial facilities regardless of specific pollutant thresholds set in Appendix 2 or, alternatively, ensure that data collected are representative of the total discharges from such pollutants at national level, i.e.:
 - For NBB reporting purposes it is recommended neither to adopt PRTR pollutant thresholds nor to set national pollutant thresholds;
 - If national pollutant thresholds are set, to ensure that pollutant emissions gathered in the country are representative of the total pollutant emissions in the country, i.e. they are at least 80% of the total emissions per pollutant. It is then up to each country to set such specific pollutant thresholds.
 6. In order to assure the coherency among NBB data and PRTR it is proposed to use in the NBB the same codification of the method of estimation of emissions used in the PRTR. For the sectors which do not allow the PRTR coding it is proposed to add a text field where the operator can draft the estimation method used.
 7. PRTR data can be massively uploaded from an XML into the database. However, since E-PRTR data provide only a portion of the NBB data, the solution envisaged is to allow 2 different types of prefiling:
 - prefiling of every data, using the old NBB data. In this case the Data Provider can recover all the NBB data and then update them to create the new NBB report.
 - prefiling of the old PRTR data. In this case the Data Provider can recover only the PRTR portion of the NBB data and then update only the integration to the PRTR data in order to create the new NBB data.

4. AUTHORITIES REPORTING

4.1. General framework – NAP/H2020 indicators

After having accessed the reported data and checked its reliability from all relevant facilities the competent authorities should define their involvement in the reporting process and in

particular the path towards a comprehensive and targeted report to the MEDPOL system in light of the NAP/H2020 indicators set. In doing so, the received information has to be focused on:

1. The priority industrial sectors which prevail in the Mediterranean region. The major industrial sectors are:
 - Petroleum refineries
 - Food industries and food processing
 - Fertilizers and inorganic chemicals
 - Metallurgy
 - Leather processing
 - Cement
 - Textile dyeing
 - Paper and pulp
 - Organic chemicals
 - Energy production
 - Gas production
 - Pharmaceuticals

2. The grouping of the data in such a way that the envisaged NAP/H2020 indicators can be populated. These indicators focus not only on pressures to the environment (i.e. releases) but also on remediation measures (i.e. response indicators) taken so far to reduce the pollution loads (e.g. treatment installations, legal/administrative measures etc.).

The work on the preparation/updating of the NAP/H2020 indicators has resulted to the set presented in table 14.

Table 14: NAP/H2020 indicators

No.	Title of indicator	Sub-indicators	Type
IND 6.1	Release of nutrients from industrial sectors	6.1.1) Total BOD load discharged from industrial installations to the Mediterranean marine environment in metric tons per year. 6.1.2) Total Nitrogen load discharged from industrial installations to the Mediterranean marine environment in metric tons per year. 6.1.3) Total Phosphorus load discharged from industrial installations to the Mediterranean marine environment in metric tons per year.	Pressure indicator
IND 6.2	Release of toxic substances from industrial sectors	6.2.1) Total heavy metals load discharged from industrial installations to the Mediterranean marine environment in kilograms per year. 6.2.2) Furans and dioxins load discharged from industrial installations to the	Pressure indicator

No.	Title of indicator	Sub-indicators	Type
		<p>Mediterranean marine environment in grams per year.</p> <p>6.2.3) Polycyclic aromatic hydrocarbons (PAH) load discharged from industrial installations to the Mediterranean marine environment in kilograms per year.</p> <p>6.2.4) Volatile organic compounds (VOC) load discharged from industrial installations to the Mediterranean marine environment in kilograms per year.</p>	
IND 6.3	Generation of hazardous wastes from industrial sectors	<p>6.3.1) Total yearly amount of generated hazardous industrial wastes in metric tons.</p> <p>6.3.2) Total yearly amount of hazardous industrial waste that is disposed in environmentally sound manner.</p> <p>6.3.3) Total yearly amount of hazardous industrial waste that is stockpiled.</p> <p>6.3.4) Total yearly amount of hazardous industrial waste subject to transboundary movement.</p>	Pressure indicator
IND 6.4	Measures or initiatives taken for the reduction and/or elimination of the amount of hazardous wastes generated by industrial sectors	<p>6.4.1) Number of implemented measures, including legal and administrative measures, aiming at reducing toxic releases and use of dangerous chemicals or encouraging the use of cleaner technology/best available technology per year.</p> <p>6.4.2) Number of implemented economic instruments/initiatives aiming at reducing toxic releases and use of dangerous chemicals, or encouraging the use of cleaner technology/ best available technology per year.</p> <p>6.4.3) Number of measures taken by industries/waste generators aiming at reducing toxic releases, managing stockpiles of chemicals or remediating contaminated sites per year.</p> <p>6.4.4) Number of controls and inspections carried out by environmental authorities of industries generating hazardous wastes or discharging toxic chemicals per year.</p>	Response indicator

4.2. NAP/H2020 reporting

In order to fulfil the reporting requirements associated with the NAP/H2020 indicators there are some methodological activities to be undertaken by the competent authorities (if not already applied) namely:

- a. Define the river basin districts which directly/indirectly affect the Mediterranean environment;
- b. Get the cumulative loads of the water pollutants referring to indicators 6.1 and 6.2;
- c. Identify the areas from where air emissions are likely to influence the Mediterranean environment. In doing so, geographical and climatic considerations have to be considered i.e. the wind directions/intensities and the proximity to the Mediterranean coast;
- d. Map all point sources within the river basin for which PRTR data exists;
- e. Get the cumulative loads of the relevant air emissions referring to indicator 6.2;
- f. Group all relevant loads as required by the indicator 6.3 (hazardous/non-hazardous waste).

These actions are also foreseen in the framework of the NBB preparation; that means that the reporting requirements for the indicators 6.1, 6.2 and 6.3 can be met by the authorities responsible for the NBB exercise.

Indicator 6.4, a response indicator, is focusing on remediation/mitigation measures of technical (treatment plants), regulatory/administrative (permitting/inspection) and economic (incentives) nature. That means that the authorities have to:

- Review/evaluate issued permits for “strategic” facilities i.e. for those which are considered, according to the PRTR data, as major pollutants
- Assess the already performed inspection reports by listing any interventions implied by the relevant authorities
- Report the administrative/technical measures taken by these facilities to improve their environmental performance i.e. revised permits with stricter emission limit values, treatment plants, recycling/prevention measures etc.

In Appendix 9 the format for meeting the reporting requirements of indicator 6.4. is presented.

APPENDICES

APPENDIX 1 - Activities

No	Activity	Capacity threshold
1.	Energy sector	
(a)	Mineral oil and gas refineries	*
(b)	Installations for gasification and liquefaction	*
(c)	Thermal power stations and other combustion installations	With a heat input of 50 megawatts (MW)
(d)	Coke ovens	*
(e)	Coal rolling mills	With a capacity of 1 tonne per hour
(f)	Installations for the manufacture of coal products and solid smokeless fuel	*
2.	Production and processing of metals	
(a)	Metal ore (including sulphide ore) roasting or sintering installations	*
(b)	Installations for the production of pig iron or steel (primary or secondary melting) including continuous casting	With a capacity of 2,5 tonnes per hour
(c)	Installations for the processing of ferrous metals:	
	(i) Hot-rolling mills	With a capacity of 20 tonnes of crude steel per hour
	(ii) Smitheries with hammers	With an energy of 50 kilojoules per hammer, where the calorific power used exceeds 20 MW
(d)	Ferrous metal foundries	With a production capacity of 20 tonnes per day
(e)	Installations:	
	(i) For the production of non-ferrous crude metals from ore, concentrates or secondary raw materials by metallurgical, chemical or electrolytic processes	*
	(ii) For the smelting, including the alloying, of non-ferrous metals, including recovered products (refining, foundry casting, etc.)	With a melting capacity of 4 tonnes per day for lead and cadmium or 20 tonnes per day for all other metals
(f)	Installations for surface treatment of metals and plastic materials using an electrolytic or chemical process	Where the volume of the treatment vats equals 30 m ³
3.	Mineral industry	
(a)	Underground mining and related operations	*
(b)	Opencast mining and quarrying	Where the surface of the area effectively under extractive operation equals 25 hectares

(c)	Installations for the production of:	
	(i) Cement clinker in rotary kilns	With a production capacity of 500 tonnes per day
	(ii) Lime in rotary kilns	With a production capacity of 50 tonnes per day
(d)	Installations for the production of asbestos and the manufacture of asbestos-based products	*
No	Activity	Capacity threshold
(e)	Installations for the manufacture of glass, including glass fibre	With a melting capacity of 20 tonnes per day
(f)	Installations for melting mineral substances, including the production of mineral fibres	With a melting capacity of 20 tonnes per day
(g)	Installations for the manufacture of ceramic products by firing, in particular roofing tiles, bricks, refractory bricks, tiles, stoneware or porcelain	With a production capacity of 75 tonnes per day, or with a kiln capacity of 4 m ³ and with a setting density per kiln of 300 kg/m ³
4.	Chemical industry	*
(a)	Chemical installations for the production on an industrial scale of basic organic chemicals, such as:	
	(i) Simple hydrocarbons (linear or cyclic, saturated or unsaturated, aliphatic or aromatic)	
	(ii) Oxygen-containing hydrocarbons such as alcohols, aldehydes, ketones, carboxylic acids, esters, acetates, ethers, peroxides, epoxy resins	
	(iii) Sulphurous hydrocarbons	
	(iv) Nitrogenous hydrocarbons such as amines, amides, nitrous compounds, nitro compounds or nitrate compounds, nitriles, cyanates, isocyanates	
	(v) Phosphorus-containing hydrocarbons	
	(vi) Halogenic hydrocarbons	
	(vii) Organometallic compounds	
	(viii) Basic plastic materials (polymers, synthetic fibres and cellulose-based fibres)	
	(ix) Synthetic rubbers	
	(x) Dyes and pigments	
	(xi) Surface-active agents and surfactants	

(b)	<p>Chemical installations for the production on an industrial scale of basic inorganic chemicals, such as:</p> <p>(i) Gases, such as ammonia, chlorine or hydrogen chloride, fluorine or hydrogen fluoride, carbon oxides, sulphur compounds, nitrogen oxides, hydrogen, sulphur dioxide, carbonyl chloride</p> <p>(ii) Acids, such as chromic acid, hydrofluoric acid, phosphoric acid, nitric acid, hydrochloric acid, sulphuric acid, oleum, sulphurous acids</p> <p>(iii) Bases, such as ammonium hydroxide, potassium hydroxide, sodium hydroxide</p> <p>(iv) Salts, such as ammonium chloride, potassium chlorate, potassium carbonate, sodium carbonate, perborate, silver nitrate</p> <p>(v) Non-metals, metal oxides or other inorganic compounds such as calcium carbide, silicon, silicon carbide</p>	*
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No	Activity	Capacity threshold
(c)	Chemical installations for the production on an industrial scale of phosphorous-, nitrogen- or potassium-based fertilisers	*
(d)	Chemical installations for the production on an industrial scale of basic plant health products and	*
(e)	Installations using a chemical or biological process for the production on an industrial scale of basic pharmaceutical products	*
(f)	Installations for the production on an industrial scale of explosives and pyrotechnic products	*
5.	Waste and wastewater management	
(a)	Installations for the recovery or disposal of	Receiving 10 tonnes per day
(b)	Installations for the incineration of non-hazardous waste in the scope of Directive 2000/76/EC of the European Parliament and of the Council of 4 December 2000 on the incineration of waste (2)	With capacity of 3 tonnes per hour
(c)	Installations for the disposal of non-hazardous waste	With a capacity of 50 tonnes per day
(d)	Landfills (excluding landfills of inert waste and landfills, which were definitely closed before 16.7.2001 or for which the after-care phase required by the competent authorities according to Article 13 of Council Directive 1999/31/EC of	Receiving 10 tonnes per day or with a total capacity of 25 000 tonnes
(e)	Installations for the disposal or recycling of animal carcasses and animal waste	With a treatment capacity of 10 tonnes per day
(f)	Urban waste-water treatment plants	With a capacity of 100000 population equivalents
(g)	Independently operated industrial waste-water treatment plants which serve one or more activities of this annex	With a capacity of 10 000 m ³ per day (4)
6.	Paper and wood production and processing	

(a)	Industrial plants for the production of pulp from timber or similar fibrous materials	*
(b)	Industrial plants for the production of paper and board and other primary wood products (such as chipboard, fibreboard and plywood)	With a production capacity of 20 tonnes per day
(c)	Industrial plants for the preservation of wood and wood products with chemicals	With a production capacity of 50 m ³ per day
7.	Intensive livestock production and aquaculture	
(a)	Installations for the intensive rearing of poultry or pigs	(i) With 40 000 places for poultry (ii) With 2 000 places for production pigs (over 30 kg)
(b)	Intensive aquaculture	With a production capacity of 1 000 tonnes of fish or shellfish per year

No	Activi	Capacity threshold
8.	Animal and vegetable products from the food and beverage sector	
(a)	Slaughterhouses	With a carcass production capacity of 50 tonnes per day
(b)	Treatment and processing intended for the production of food and beverage products from: (i) Animal raw materials (other than milk) (ii) Vegetable raw materials	With a finished product production capacity of 75 tonnes per day With a finished product production capacity of 300 tonnes per day (average value on a quarterly basis)
(c)	Treatment and processing of milk	With a capacity to receive 200 tonnes of milk per day (average value on an annual basis)
9.	Other activities	
(a)	Plants for the pre-treatment (operations such as washing, bleaching, mercerisation) or dyeing	With a treatment capacity of 10 tonnes per day
(b)	Plants for the tanning of hides and skins	With a treatment capacity of 12 tonnes of finished product per
(c)	Installations for the surface treatment of substances, objects or products using organic solvents, in particular for dressing, printing, coating, degreasing, waterproofing, sizing,	With a consumption capacity of 150 kg per hour or 200 tonnes per year
(d)	Installations for the production of carbon (hard-burnt coal) or electro-graphite by means of	*
(e)	Installations for the building of, and painting or removal of paint from ships	With a capacity for ships 100 m long

APPENDIX 2 – Pollutants

No	CAS number	Pollutant (1)	Threshold for releases (column 1)		
			to air (column 1a) kg/year	to water (column 1b) kg/year	to land (column 1c) kg/year
1	74-82-8	Methane (CH ₄)	100 000	— (2)	—
2	630-08-0	Carbon monoxide (CO)	500 000	—	—
3	124-38-9	Carbon dioxide (CO ₂)	100 million	—	—
4		Hydro-fluorocarbons (HFCs)	100	—	—
5	10024-97-2	Nitrous oxide (N ₂ O)	10 000	—	—
6	7664-41-7	Ammonia (NH ₃)	10 000	—	—
7		Non-methane volatile organic compounds (NMVOC)	100 000	—	—
8		Nitrogen oxides (NO _x /NO ₂)	100 000	—	—
9		Perfluorocarbons (PFCs) (4)	100	—	—
10	2551-62-4	Sulphur hexafluoride (SF ₆)	50	—	—
11		Sulphur oxides (SO _x /SO ₂)	150 000	—	—
12		Total nitrogen	—	50 000	50 000
13		Total phosphorus	—	5 000	5 000
14		Hydrochlorofluorocarbons (HCFCs) (5)	1	—	—
15		Chlorofluorocarbons (CFCs)	1	—	—
16		Halons (7)	1	—	—
17		Arsenic and compounds (as As) (8)	20	5	5
18		Cadmium and compounds (as)	10	5	5
19		Chromium and compounds (as)	100	50	50
20		Copper and compounds (as Cu) (8)	100	50	50
21		Mercury and compounds (as Hg) (8)	10	1	1
22		Nickel and compounds (as)	50	20	20
23		Lead and compounds (as Pb)	200	20	20
24		Zinc and compounds (as Zn)	200	100	100
25	15972-60-8	Alachlor	—	1	1
26	309-00-2	Aldrin	1	1	1
27	1912-24-9	Atrazine	—	1	1
28	57-74-9	Chlordane	1	1	1
No	CAS number	Pollutant (1)	Threshold for releases (column 1)		
			to air (column 1a) kg/year	to water (column 1b) kg/year	to land (column 1c) kg/year
29	143-50-0	Chlordecone	1	1	1
30	470-90-6	Chlorfenvinphos	—	1	1

31	85535-84-8	Chloro-alkanes, C ₁₀ -C ₁₃	—	1	1
32	2921-88-2	Chlorpyrifos	—	1	1
33	50-29-3	DDT	1	1	1
34	107-06-2	1,2-dichloroethane (EDC)	1 000	10	10
35	75-09-2	Dichloromethane (DCM)	1 000	10	10
36	60-57-1	Dieldrin	1	1	1
37	330-54-1	Diuron	—	1	1
38	115-29-7	Endosulphan	—	1	1
39	72-20-8	Endrin	1	1	1
40		Halogenated organic compounds	—	1 000	1 000
41	76-44-8	Heptachlor	1	1	1
42	118-74-1	Hexachlorobenzene (HCB)	10	1	1
43	87-68-3	Hexachlorobutadiene	—	1	1
44	608-73-1	1,2,3,4,5,6-hexachlorocyclohexane (HCH)	10	1	1
45	58-89-9	Lindane	1	1	1
46	2385-85-5	Mirex	1	1	1
47		PCDD + PCDF (dioxins + furans)	0,0001	0,0001	0,0001
48	608-93-5	Pentachlorobenzene	1	1	1
49	87-86-5	Pentachlorophenol (PCP)	10	1	1
50	1336-36-3	Polychlorinated biphenyls	0,1	0,1	0,1
51	122-34-9	Simazine	—	1	1
52	127-18-4	Tetrachloroethylene (PER)	2 000	10	—
53	56-23-5	Tetrachloromethane (TCM)	10	1	—
54	12002-48-1	Trichlorobenzenes (TCBs) (all isomers)	10	1	—
55	71-55-6	1,1,1-trichloroethane	10	—	—
56	79-34-5	1,1,2,2-tetrachloroethane	50	—	—
57	79-01-6	Trichloroethylene	2 000	10	—
58	67-66-3	Trichloromethane	50	10	—
59	8001-35-2	Toxaphene	1	1	1
60	75-01-4	Vinyl chloride	1 000	10	10
61	120-12-7	Anthracene	50	1	1

No	CAS number	Pollutant (1)	Threshold for releases (column 1b)		
			to air (column 1a)	to water (column 1b) kg/year	to land (column 1c) kg/year
62	71-43-2	Benzene	1 000	20	200 (as BTEX)
63		Brominated diphenylethers (PBDE) (12)	—	1	1

64		Nonylphenol and Nonylphenol ethoxylates (NP/NPEs)	—	1	1
65	100-41-4	Ethyl benzene	—	20	200 (as BTEX)
66	75-21-8	Ethylene oxide	1 000	1	10
67	34123-59-6	Isoproturon	—	1	1
68	91-20-3	Naphthalene	1	1	10
69		Organotin compounds(as total Sn)	—	50	50
70	117-81-7	Di-(2-ethyl hexyl) phthalate (DEHP)	10	1	1
71	108-95-2	Phenols (as total C) (13)	—	2	20
72		Polycyclic aromatic hydrocarbons (PAHs) (14)	50	5	5
73	108-88-3	Toluene	—	20	200 (as BTEX)
74		Tributyltin and compounds (15)	—	1	1
75		Triphenyltin and compounds (16)	—	1	1
76		Total organic carbon (TOC) (as total C or COD/3)	—	50 000	—
77	1582-09-8	Trifluralin	—	1	1
78	1330-20-7	Xylenes (17)	—	20	200 (as BTEX)
79		Chlorides (as total Cl)	—	2 million	2 million
80		Chlorine and inorganic compounds (as HCl)	10 000	—	—
81	1332-21-4	Asbestos	1	1	1
82		Cyanides (as total CN)	—	5	50
83		Fluorides (as total F)	—	2 000	2 000
84		Fluorine and inorganic compounds (as HF)	5 000	—	—
85	74-90-8	Hydrogen cyanide (HCN)	2	—	—
86		Particulate matter (PM ₁₀)	50	—	—
87	1806-26-4	Octylphenols and Octylphenol ethoxylates	—	1	—
No	CAS number	Pollutant (1)	Threshold for releases (column 1b and 1c)		
			to water (column 1b) kg/year	to land (column 1c)	
88	206-44-0	Fluoranthene	1	—	
89	465-73-6	Isodrin	1	—	
90	36355-1-8	Hexabromobiphenyl	0,1	0	
91	191-24-2	Benzo(g,h,i)perylene	1	—	

92		Biochemical Oxygen Demand (expressed as BOD ₅) (expressed	-	10,000	-
93		Chemical Oxygen Demand (expressed as COD)	-	20,000	-
94		Suspended Solids	-	20,000	-

- (1) Unless otherwise specified any pollutant shall be reported as the total mass of that pollutant or, where the pollutant is a group of substances, as the total mass of the group.
- (2) A hyphen (—) indicates that the parameter and medium in question do not trigger a reporting requirement.
- (3) Total mass of hydrogen fluorocarbons: sum of HFC23, HFC32, HFC41, HFC4310mee, HFC125, HFC134, HFC134a, HFC152a, HFC143, HFC143a, HFC227ea, HFC236fa, HFC245ca, HFC365mfc.
- (4) Total mass of perfluorocarbons: sum of CF₄, C₂F₆, C₃F₈, C₄F₁₀, c-C₄F₈, C₅F₁₂, C₆F₁₄.
- (5) Total mass of substances including their isomers.
- (6) Total mass of substances including their isomers.
- (7) Total mass of substances including their isomers.
- (8) All metals shall be reported as the total mass of the element in all chemical forms present in the release.
- (9) Halogenated organic compounds which can be adsorbed to activated carbon expressed as chloride.
- (10) Expressed as I-TEQ.
- (11) Single pollutants are to be reported if the threshold for BTEX (the sum parameter of benzene, toluene, ethyl benzene, xylenes) is exceeded.
- (12) Total mass of the following brominated diphenylethers: penta-BDE, octa-BDE and deca-BDE.
- (13) Total mass of phenol and simple substituted phenols expressed as total carbon.
- (14) Polycyclic aromatic hydrocarbons (PAHs) are to be measured for reporting of releases to air as benzo(a)pyrene (50-32-8), benzo(b)fluoranthene (205-99-2), benzo(k)fluoranthene (207-08-9), indeno(1,2,3-cd)pyrene (193-39-5).
- (15) Total mass of tributyltin compounds, expressed as mass of tributyltin.
- (16) Total mass of triphenyltin compounds, expressed as mass of triphenyltin.
- (17) Total mass of xylene (ortho-xylene, meta-xylene, para-xylene).

APPENDIX 3 – ISIC Codes

Section	Divisions	Description	LBS Protocol Activities (Annex I)
A	01–03	Agriculture, forestry and fishing	Agriculture (19)
B	05–09	Mining and quarrying	Mining (10)
C	10–33	Manufacturing	Fertilizer production (2) Production and formulation of biocides (3) Pharmaceutical industry (4) Paper and paper-pulp industry (6) Cement production (7) Tanning industry (8) Metal industry (9) Textile industry (13) Electronic industry (14) Other sectors of the organic chemical industry (16) Other sectors of the inorganic chemical industry (17) Food processing (21)
D	35	Electricity, gas, steam and air conditioning supply	
E	36–39	Water supply; sewerage, waste management and remediation	Treatment and disposal of domestic waste water (24)
F	41–43	Construction	
G	45–47	Wholesale and retail trade; repair of motor vehicles and motorcycles	
H	49–53	Transportation and storage	
I	55–56	Accommodation and food service activities	
J	58–63	Information and communication	
K	64–66	Financial and insurance activities	
L	68	Real estate activities	
M	69–75	Professional, scientific and technical activities	
N	77–82	Administrative and support service activities	
O	84	Public administration and defence; compulsory social security	
P	85	Education	
Q	86–88	Human health and social work activities	
R	90–93	Arts, entertainment and recreation	
S	94–96	Other service activities	
T	97–98	Activities of households as employers; undifferentiated goods- and services- producing activities of households for own use	
U	99	Activities of extraterritorial organizations and bodies	

APPENDIX 4 – Indicative list of sector air pollutants

Pollutant no			1	2	3	4	5	6	7	8	9	10	11	14	15	16	17	18	19	20	21	22	23	24
		Pollutant name	Methane (CH ₄)	Carbon monoxide (CO)	Carbon dioxide (CO ₂)	Hydro-fluorocarbons	Nitrous oxide (N ₂ O)	Ammonia (NH ₃)	Non-methane volatile organic compounds	Nitrogen oxides (NO _x /NO ₂)	Perfluorocarbons (PFCs)	Sulphur hexafluoride (SF ₆)	Sulphur oxides (SO _x /SO ₂)	Hydrochlorofluorocarbons	Chlorofluorocarbons	Halons	Arsenic and compounds	Cadmium and compounds	Chromium and	Copper and compounds	Mercury and compounds	Nickel and compounds (as	Lead and compounds (as	Zinc and compounds (as
no	b	activity																						
1		Energy sector																						
	(a)	Mineral oil and gas refineries	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(b)	Installations for gasification and liquefaction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(c)	Thermal power stations and other combustion installations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(d)	Coke ovens	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(e)	Coal rolling mills	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(f)	Installations for the manufacture of coal products and solid smokeless fuel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2		Production and processing of metals																						
	(a)	Metal ore (including sulphide ore) roasting or sintering installations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(b)	Installations for the production of pig iron or steel (primary or secondary melting) including continuous casting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(c)	Installations for the processing of ferrous metals	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(d)	Ferrous metal foundries	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(e)	Installations for the production of non-ferrous crude metals from ore, concentrates or secondary raw materials by metallurgical, chemical or electrolytic processes and for the smelting, including the alloying, of non-ferrous metals, including recovered products (refining, foundry casting, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(f)	Installations for surface treatment of metals and plastic materials using an electrolytic or chemical process	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pollutant no			42	44	45	46	47	48	49	50	52	53	54	55	56	57	58	59	60	61	62	66	68	

			Pollutant name	Hexachlorobenzene (HCB)	1,2,3,4,5, 6 -	Lindane	Mirex	PCDD + PCDF (dioxins +	Pentachlorobenzene	Pentachlorophenol (PCP)	Polychlorinated biphenyls	Tetrachloroethylene (PER)	Tetrachloromethane (TCM)	Trichlorobenzenes (TCBs) (all	1, 1, 1-trichloroethane	1, 1, 2, 2-tetrachloroethane	Trichloroethylene	Trichloromethane	Toxaphene	Vinyl chloride	Anthracene	Benzene	Ethylene oxide	Naphthalene
n o b		activity																						
1		Energy sector																						
	(a)	Mineral oil and gas refineries																						
	(b)	Installations for gasification and liquefaction																						
	(c)	Thermal power stations and other combustion installations																						
	(d)	Coke ovens																						
	(e)	Coal rolling mills																						
	(f)	Installations for the manufacture of coal products and solid smokeless fuel																						
2		Production and processing of metals																						
	(a)	Metal ore (including sulphide ore) roasting or sintering installations																						
	(b)	Installations for the production of pig iron or steel (primary or secondary melting) including continuous casting																						
	(c)	Installations for the processing of ferrous metals																						
	(d)	Ferrous metal foundries																						
	(e)	Installations for the production of non-ferrous crude metals from ore, concentrates or secondary raw materials by metallurgical, chemical or electrolytic processes and for the smelting, including the alloying, of non-ferrous metals, including recovered products (refining, foundry casting, etc.)																						
	(f)	Installations for surface treatment of metals and plastic materials using an electrolytic or chemical process																						
Polluta nt no			1	2	3	4	5	6	7	8	9	10	11	14	15	16	17	18	19	20	21	22	23	24
		Pollutant name	Methane (CH ₄)	Carbon monoxide (CO)	Carbon dioxide (CO ₂)	Hydro-fluorocarbons	Nitrous oxide (N ₂ O)	Ammonia (NH ₃)	Non-methane volatile	Nitrogen oxides (NO _x /NO ₂)	Perfluorocarbons (PFCs)	Sulphur hexafluoride (SF ₆)	Sulphur oxides (SO _x /SO ₂)	Hydrochlorofluorocarbons	Chlorofluorocarbons	Halons	Arsenic and compounds	Cadmium and compounds	Chromium and	Copper and compounds	Mercury and compounds	Nickel and compounds (as	Lead and compounds (as	Zinc and compounds (as

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5		Waste and wastewater management																						
	(a)	Installations for the disposal or recovery of hazardous waste	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(b)	Installations for the incineration of non-hazardous waste	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(c)	Installations for the disposal of non-hazardous waste	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(d)	Landfills	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
	(e)	Installations for the disposal or recycling of animal carcasses and animal waste	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
	(f)	Urban waste-water treatment plants	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>												
	(g)	Independently operated industrial waste-water treatment plants which serve one or more activities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												
6		Paper and wood production and processing																						
	(a)	Industrial plants for the production of pulp from timber or similar fibrous materials	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(b)	Industrial plants for the production of paper and board and other primary wood products (such as chipboard, fibreboard and plywood)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(c)	Industrial plants for the preservation of wood and wood products with chemicals						<input type="checkbox"/>	<input type="checkbox"/>							<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>					
7		Intensive livestock production and aquaculture																						
	(a)	Installations for the intensive rearing of poultry or pigs	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>					<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>									
	(b)	Intensive aquaculture																						
Pollutant no			42	44	45	46	47	48	49	50	52	53	54	55	56	57	58	59	60	61	62	66	68	69
		Pollutant name	Hexachlorobenzene (HCB)	1,2,3,4,5, 6 - Lindane	Mirex	PCDD + PCDF (dioxins + furans)	Pentachlorobenzene	Pentachlorophenol (PCP)	Polychlorinated biphenyls (PCB)	Tetrachloroethylene (PER)	Tetrachloromethane (TCM)	Trichlorobenzenes (TCBs)	1,1,1-trichloroethane	1,1,2,2-tetrachloroethane	Trichloroethylene	Trichloromethane	Toxaphene	Vinyl chloride	Anthracene	Benzene	Ethylene oxide	N-methylpyrrolidone		
no b	a	activity																						
5		Waste and wastewater management																						
	(a)	Installations for the disposal or recovery of hazardous waste	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(b)	Installations for the incineration of non-hazardous waste	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>			<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input checked="" type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(c)	Installations for the disposal of non-hazardous waste	<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>			<input type="checkbox"/>		<input type="checkbox"/>									<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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APPENDIX 5 – Indicative list of sector water pollutants*

Pollutant no			12	13	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
		Pollutant name	Total nitrogen	Total phosphorus	Arsenic and compounds (as	Cadmium and compounds	Chromium and	Copper and compounds (as	Mercury and compounds	Nickel and compounds (as	Lead and compounds (as	Zinc and compounds (as	Alachlor	Aldrin	Atrazine	Chlordane	Chlordecone	Chlorfenvinphos	Chloro-alkanes, C ₁₀ -C ₁₃	Chlorpyrifos	DDT	1,2-dichloroethane (EDC)	Dichloromethane (DCM)	Dieldrin	Diuron	Endosulphan	Endrin	
n	b	activity																										
1		Energy sector																										
	(a)	Mineral oil and gas refineries	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										<input type="checkbox"/>						
	(b)	Installations for gasification and liquefaction	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										<input type="checkbox"/>						
	(c)	Thermal power stations and other combustion installations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																
	(d)	Coke ovens	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>		<input type="checkbox"/>																	
	(e)	Coal rolling mills																										
	(f)	Installations for the manufacture of coal products and solid smokeless fuel	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>							<input type="checkbox"/>				<input type="checkbox"/>					
2		Production and processing of metals																										
	(a)	Metal ore (including sulphide ore) roasting or sintering installations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																
	(b)	Installations for the production of pig iron or steel (primary or secondary melting) including continuous casting	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																
	(c)	Installations for the processing of ferrous metals	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																
	(d)	Ferrous metal foundries	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																
	(e)	Installations for the production of non-ferrous crude metals from ore, concentrates or secondary raw materials by metallurgical, chemical or electrolytic processes and for the smelting, including the alloying, of non-ferrous metals, including recovered products (refining, foundry casting, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																
	(f)	Installations for surface treatment of metals and plastic materials using an electrolytic or chemical process	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																
Pollutant no			51	52	53	54	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	

			Pollutant name																									
			Simazine	Tetrachloroethylene (PER)	Tetrachloromethane (TCM)	Trichlorobenzenes (TCBs) (all	Trichloroethylene	Trichloromethane	Toxaphene	Vinyl chloride	Anthracene	Benzene	Brominated diphenylethers	Nonylphenol and Nonylphenol	Ethyl benzene	Ethylene oxide	Isoproturon	Naphthalene	Organotin compounds (as total	Di-(2-ethyl hexyl) phthalate	Phenols (as total C)	Polycyclic aromatic	Toluene	Tributyltin and compounds	Triphenyltin and compounds	Total organic carbon (TOC)	Trifluoromethane	
no	b	activity																										
1		Energy sector																										
	(a)	Mineral oil and gas refineries										<input type="checkbox"/>			<input type="checkbox"/>						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
	(b)	Installations for gasification and liquefaction										<input type="checkbox"/>			<input type="checkbox"/>						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
	(c)	Thermal power stations and other combustion installations																			<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	
	(d)	Coke ovens										<input type="checkbox"/>			<input type="checkbox"/>						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	
	(e)	Coal rolling mills																			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
	(f)	Installations for the manufacture of coal products and solid smokeless fuel													<input type="checkbox"/>						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
2		Production and processing of metals																										
	(a)	Metal ore (including sulphide ore) roasting or sintering installations																			<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	
	(b)	Installations for the production of pig iron or steel (primary or secondary melting) including continuous casting																			<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	
	(c)	Installations for the processing of ferrous metals																			<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	
	(d)	Ferrous metal foundries																			<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	
	(e)	Installations for the production of non-ferrous crude metals from ore, concentrates or secondary raw materials by metallurgical, chemical or electrolytic processes and for the smelting, including the alloying, of non-ferrous metals, including recovered products (refining, foundry casting, etc.)																			<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	
	(f)	Installations for surface treatment of metals and plastic materials using an electrolytic or chemical process																			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
P oll ut an t no		12	1 3	1 7	1 8	1 9	2 0	2 1	2 2	2 3	2 4	2 5	2 6	2 7	2 8	2 9	3 0	3 1	3 2	3 3	3 4	3 5	3 6	3 7	3 8	3 9	4 0	

		Pollutant name	Total nitrogen	Total phosphorus	Arsenic and compounds (as	Cadmium and compounds	Chromium and	Copper and compounds (as	Mercury and compounds (as	Nickel and compounds (as	Lead and compounds (as	Zinc and compounds (as	Alachlor	Aldrin	Atrazine	Chlordane	Chlordecone	Chlorfenvinphos	Chloro-alkanes, C ₁₀ -C ₁₃	Chlorpyrifos	DDT	1,2-dichloroethane (EDC)	Dichloromethane (DCM)	Dieldrin	Diuron	Endosulphan	Endrin
no	b	activity																									
3		Mineral industry																									
	(a)	Underground mining and related operations	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>															
	(b)	Opencast mining and quarrying	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>															
	(c)	Installations for the production of cement clinker in rotary kilns, lime in rotary kilns, cement clinker or lime in other furnaces			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																
	(d)	Installations for the production of asbestos and the manufacture of asbestos-based products					<input type="checkbox"/>																				
	(e)	Installations for the manufacture of glass, including glass fibre	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>															
	(f)	Installations for melting mineral substances, including the production of mineral fibres	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>															
	(g)	Installations for the manufacture of ceramic products by firing, in particular roofing tiles, bricks, refractory bricks, tiles, stoneware or porcelain	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>															
4		Chemical industry																									
	(a)	Chemical installations for the production on an industrial scale of basic organic chemicals	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(b)	Chemical installations for the production on an industrial scale of basic inorganic chemicals	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										<input type="checkbox"/>	<input type="checkbox"/>				
	(c)	Chemical installations for the production on an industrial scale of phosphorous-, nitrogen- or potassium-based fertilizers (simple or compound fertilizers)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										<input type="checkbox"/>	<input type="checkbox"/>				
	(d)	Chemical installations for the production on an industrial scale of basic plant health products and of biocides	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(e)	Installations using a chemical or biological process for the production on an industrial scale of basic pharmaceutical products	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										<input type="checkbox"/>					
	(f)	Installations for the production on an industrial scale of explosives and pyrotechnic products	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>										<input type="checkbox"/>	<input type="checkbox"/>				
Pollutant no			51	52	53	54	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77

		Pollutant name	Simazine	Tetrachloroethylene (PER)	Tetrachloromethane (TCM)	Trichlorobenzenes (TCBs) (all)	Trichloroethylene	Trichloromethane	Toxaphene	Vinyl chloride	Anthracene	Benzene	Brominated diphenylethers	Nonylphenol and Nonylphenol	Ethyl benzene	Ethylene oxide	Isoproturon	Naphthalene	Organotin compounds (as total	Di-(2-ethyl hexyl) phthalate	Phenols (as total C)	Polycyclic aromatic	Toluene	Tributyltin and compounds	Triphenyltin and compounds	Total organic carbon (TOC) (as	T-furonic	
no	b	activity																										
3		Mineral industry																										
	(a)	Underground mining and related operations																										
	(b)	Opencast mining and quarrying																										
	(c)	Installations for the production of cement clinker in rotary kilns, lime in rotary kilns, cement clinker or lime in other furnaces																										
	(d)	Installations for the production of asbestos and the manufacture of asbestos-based products																										
	(e)	Installations for the manufacture of glass, including glass fibre																										
	(f)	Installations for melting mineral substances, including the production of mineral fibres																										
	(g)	Installations for the manufacture of ceramic products by firing, in particular roofing tiles, bricks, refractory bricks, tiles, stoneware or porcelain																										
4		Chemical industry																										
	(a)	Chemical installations for the production on an industrial scale of basic organic chemicals																										
	(b)	Chemical installations for the production on an industrial scale of basic inorganic chemicals																										
	(c)	Chemical installations for the production on an industrial scale of phosphorous-, nitrogen- or potassium-based fertilizers (simple or compound fertilizers)																										
	(d)	Chemical installations for the production on an industrial scale of basic plant health products and of biocides																										
	(e)	Installations using a chemical or biological process for the production on an industrial scale of basic pharmaceutical products																										
	(f)	Installations for the production on an industrial scale of explosives and pyrotechnic products																										
Pollutant no			1 2	1 3	1 7	1 8	1 9	2 0	2 1	2 2	2 3	2 4	2 5	2 6	2 7	2 8	2 9	3 0	3 1	3 2	3 3	3 4	3 5	3 6	3 7	3 8	3 9	4 0

			Pollutant name																									
no	b	activity	Total nitrogen	Total phosphorus	Arsenic and compounds (as	Cadmium and compounds	Chromium and	Copper and compounds (as	Mercury and compounds	Nickel and compounds (as	Lead and compounds (as	Zinc and compounds (as	Alachlor	Aldrin	Atrazine	Chlordane	Chlordecone	Chlorfenvinphos	Chloro-alkanes, C ₁₀ -C ₁₃	Chlorpyrifos	DDT	1,2-dichloroethane (EDC)	Dichloromethane (DCM)	Dieldrin	Diuron	Endosulphan	Endrin	Halogenated organic
5		Waste and wastewater management																										
	(a)	Installations for the disposal or recovery of hazardous waste	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(b)	Installations for the incineration of non-hazardous waste	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(c)	Installations for the disposal of non-hazardous waste	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(d)	Landfills	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(e)	Installations for the disposal or recycling of animal carcasses and animal waste	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(f)	Urban waste-water treatment plants	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(g)	Independently operated industrial waste-water treatment plants which serve one or more activities of this annex	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6		Paper and wood production and processing																										
	(a)	Industrial plants for the production of pulp from timber or similar fibrous materials	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(b)	Industrial plants for the production of paper and board and other primary wood products (such as chipboard, fibreboard and plywood)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(c)	Industrial plants for the preservation of wood and wood products with chemicals	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7		Intensive livestock production and aquaculture																										
	(a)	Installations for the intensive rearing of poultry or pigs	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(b)	Intensive aquaculture	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pollutant no			5 1	5 2	5 3	5 4	5 7	5 8	5 9	6 0	6 1	6 2	6 3	6 4	6 5	6 6	6 7	6 8	6 9	7 0	7 1	7 2	7 3	7 4	7 5	7 6	7 7	

		Pollutant name	Simazine	Tetrachloroethylene (PER)	Tetrachloromethane	Trichlorobenzenes (TCBs)	Trichloroethylene	Trichloromethane	Toxaphene	Vinyl chloride	Anthracene	Benzene	Brominated diphenylethers	Nonylphenol and	Ethyl benzene	Ethylene oxide	Isoproturon	Naphthalene	Organotin compounds (as	Di-(2-ethyl hexyl) phthalate	Phenols (as total C)	Polycyclic aromatic	Toluene	Tributyltin and compounds	Triphenyltin and	Total organic carbon	Trifluralin
no	b	activity																									
5		Waste and wastewater management																									
	(a)	Installations for the disposal or recovery of hazardous waste	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(b)	Installations for the incineration of non-hazardous waste		<input type="checkbox"/>			<input type="checkbox"/>					<input type="checkbox"/>			<input type="checkbox"/>				<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(c)	Installations for the disposal of non-hazardous waste			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>												<input type="checkbox"/>		<input type="checkbox"/>					<input type="checkbox"/>	
	(d)	Landfills	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(e)	Installations for the disposal or recycling of animal carcasses and animal waste																								<input type="checkbox"/>	
	(f)	Urban waste-water treatment plants	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	(g)	Independently operated industrial waste-water treatment plants which serve one or more activities of this annex	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6		Paper and wood production and processing																									
	(a)	Industrial plants for the production of pulp from timber or similar fibrous materials		<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>														<input type="checkbox"/>				<input type="checkbox"/>	
	(b)	Industrial plants for the production of paper and board and other primary wood products (such as chipboard, fibreboard and plywood)		<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>												<input type="checkbox"/>		<input type="checkbox"/>				<input type="checkbox"/>	
	(c)	Industrial plants for the preservation of wood and wood products with chemicals									<input type="checkbox"/>							<input type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>	
7		Intensive livestock production and aquaculture																									
	(a)	Installations for the intensive rearing of poultry or pigs																								<input type="checkbox"/>	
	(b)	Intensive aquaculture																								<input type="checkbox"/>	
Pollutant no			1	1	1	1	1	2	2	2	2	2	2	2	2	2	3	3	3	3	3	3	3	3	3	3	4
			2	3	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9

			Pollutant name																									
			Total nitrogen	Total phosphorus	Arsenic and compounds (as	Cadmium and compounds	Chromium and	Copper and compounds (as	Mercury and compounds (as	Nickel and compounds (as	Lead and compounds (as	Zinc and compounds (as Zn)	Alachlor	Aldrin	Atrazine	Chlordane	Chlordecone	Chlorfenvinphos	Chloro-alkanes, C ₁₀ -C ₁₃	Chlorpyrifos	DDT	1,2-dichloroethane (EDC)	Dichloromethane (DCM)	Dieldrin	Diuron	Endosulphan	Endrin	Halogenated organic
no	b	activity																										
8		Animal and vegetable products from the food and beverage sector																										
	(a)	Slaughterhouses	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																
	(b)	Treatment and processing intended for the production of food and beverage products from animal raw materials (other than milk) and vegetable raw materials	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																
	(c)	Treatment and processing of milk	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																
9		Other activities																										
	(a)	Plants for the pre-treatment or dyeing of fibres or textiles	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>																<input type="checkbox"/>
	(b)	Plants for the tanning of hides and skins	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>																				<input type="checkbox"/>
	(c)	Installations for the surface treatment of substances, objects or products using organic solvents, in particular for dressing, printing, coating, degreasing, waterproofing, sizing, painting, cleaning or impregnating	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>							<input type="checkbox"/>				<input type="checkbox"/>					<input type="checkbox"/>
	(d)	Installations for the production of carbon (hard-burnt coal) or electro-graphite by means of incineration or graphitization								<input type="checkbox"/>																		
	(e)	Installations for the building of, and painting or removal of paint from ships	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>							<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>

no	b	activity	Pollutant name	51	52	53	54	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77
				Simazine	Tetrachloroethylene (PER)	Tetrachloromethane	Trichlorobenzenes (TCBs)	Trichloroethylene	Trichloromethane	Toxaphene	Vinyl chloride	Anthracene	Benzene	Brominated diphenylethers	Nonylphenol and	Ethyl benzene	Ethylene oxide	Isoproturon	Naphthalene	Organotin compounds (as	Di-(2-ethyl hexyl) phthalate	Phenols (as total C)	Polycyclic aromatic	Toluene	Tributyltin and compounds	Triphenyltin and	Total organic carbon	Trifluralin
8		Animal and vegetable products from the food and beverage sector																										
	(a)	Slaughterhouses																			<input type="checkbox"/>	<input type="checkbox"/>					<input type="checkbox"/>	

[illegible]

*The basic organic pollutants, BOD₅, COD, SS are not included in the list

APPENDIX 6 - List of internationally approved measuring methods for air and water pollutants

No.	CAS number	Pollutant	EN or ISO standard Emission to air (Abbreviations see below)	EN or ISO standard Emission to water (Abbreviations see below)
1	74-82-8	Methane (CH ₄)	ISO Standard in preparation by ISO/TC 146/SC 1/ WG 22 (for information only)	---
2	630-08-0	Carbon monoxide (CO)	EN 15058:2004 ISO 12039:2001	---
3	124-38-9	Carbon dioxide (CO ₂)	ISO 12039:2001	---
4		Hydro-fluorocarbons (HFCs)		---
5	10024-97-2	Nitrous oxide (N ₂ O)	ISO Standard in preparation by ISO/TC 146/SC 1/ WG 19 (for information only)	---
6	7664-41-7	Ammonia (NH ₃)		---
7		Non-methane volatile organic compounds (NMVOC)	EN 13649:2001	---
8		Nitrogen oxides (NO _x /NO ₂)	EN 14792:2005 ISO 11564:1998 ISO 10849:1996	---
9		Perfluorocarbons (PFCs)		---
10	2551-62-4	Sulphur hexafluoride (SF ₆)		---
11		Sulphur oxides (SO _x /SO ₂)	EN 14791:2005 ISO 7934:1989 ISO 7935:1992 ISO 11632:1998	---
12		Total nitrogen	---	EN 12260:2003 EN ISO 11905-1:1998
13		Total phosphorus	---	EN ISO 15681-1:2004 EN ISO 15681-2:2004 EN ISO 11885:1997 EN ISO 6878:2004
14		Hydrochlorofluorocarbons (HCFCs)		---
15		Chlorofluorocarbons (CFCs)		---
16		Halons		---
17		Arsenic and compounds (as As)	EN 14385:2004	EN ISO 11969:1996 EN 26595:1992
18		Cadmium and compounds (as Cd)	EN 14385:2004	EN ISO 5961:1995 EN ISO 11885:1997
19		Chromium and compounds (as Cr)	EN 14385:2004	EN 1233:1996 EN ISO 11885:1997
20		Copper and compounds (as Cu)	EN 14385:2004	EN ISO 11885:1997
21		Mercury and compounds (as Hg)	EN 13211:2001 EN 14884:2005	EN 1483:1997 EN 12338:1998 EN 13506:2001 According to the level of concentration
22		Nickel and compounds (as Ni)	EN 14385:2004	EN ISO 11885:1997
23		Lead and compounds (as Pb)	EN 14385:2004	EN ISO 11885:1997
24		Zinc and compounds (as Zn)		EN ISO 11885:1997
25	15972-60-8	Alachlor	---	
26	309-00-2	Aldrin		EN ISO 6468:1996
27	1912-24-9	Atrazine	---	EN ISO 10695:2000

No.	CAS number	Pollutant	EN or ISO standard Emission to air (Abbreviations see below)	EN or ISO standard Emission to water (Abbreviations see below)
28	57-74-9	Chlordane		
29	143-50-0	Chlordecone		
30	470-90-6	Chlorfenvinphos	---	
31	85535-84-8	Chloro-alkanes, C ₁₀ -C ₁₃	---	
32	2921-88-2	Chlorpyrifos	---	
33	50-29-3	DDT		EN ISO 6468:1996
34	107-06-2	1,2-dichloroethane (EDC)		EN ISO 10301:1997 EN ISO 15680:2003
35	75-09-2	Dichloromethane (DCM)		EN ISO 10301:1997 EN ISO 15680:2003
36	60-57-1	Dieldrin		EN ISO 6468:1996
37	330-54-1	Diuron	---	EN ISO 11369:1997
38	115-29-7	Endosulfan	---	EN ISO 6468:1996
39	72-20-8	Endrin		EN 6468:1996
40		Halogenated organic compounds (as AOX)	---	EN ISO 9562:2004
41	76-44-8	Heptachlor		EN ISO 6468:1996
42	118-74-1	Hexachlorobenzene (HCB)		EN ISO 6468:1996
43	87-68-3	Hexachlorobutadiene (HCBD)	---	
44	608-73-1	1,2,3,4,5, 6 -hexachlorocyclohexane (HCH)		EN ISO 6468:1996
45	58-89-9	Lindane		EN ISO 6468:1996
46	2385-85-5	Mirex		
47		PCDD +PCDF (dioxins +furans) (as Teq)	EN 1948-1 to -3:2003	ISO 18073:2004
48	608-93-5	Pentachlorobenzene		EN ISO 6468:1996
49	87-86-5	Pentachlorophenol (PCP)		
50	1336-36-3	Polychlorinated biphenyls (PCBs)	(prCEN/TS 1948-4) for information only	EN ISO 6468:1996
51	122-34-9	Simazine	---	EN ISO 11369:1997 EN ISO 10695:2000
52	127-18-4	Tetrachloroethylene (PER)		EN ISO 15680:2003 EN ISO 10301:1997
53	56-23-5	Tetrachloromethane (TCM)		EN ISO 10301:1997
54	12002-48-1	Trichlorobenzenes (TCBs) (<i>all isomers</i>)		EN ISO 15680:2003
55	71-55-6	1,1,1-trichloroethane		---
56	79-34-5	1,1,2,2-tetrachloroethane		---
57	79-01-6	Trichloroethylene		EN ISO 15680:2003 EN ISO 10301:1997
58	67-66-3	Trichloromethane		EN ISO 15680:2003 EN ISO 10301:1997
59	8001-35-2	Toxaphene		
60	75-01-4	Vinyl chloride		EN ISO 15680:2003
61	120-12-7	Anthracene	ISO 11338-1 to -2:2003	EN ISO 17993:2003
62	71-43-2	Benzene	EN 13649:2001	ISO 11423-1:1997 ISO 11423-2:1997 EN ISO 15680:2003
63		Brominated diphenylethers (PBDE)	---	ISO 22032
64		Nonylphenol and Nonylphenol ethoxylates (NP/NPEs)	---	
65	100-41-4	Ethyl benzene	---	EN ISO 15680:2003
66	75-21-8	Ethylene oxide		
67	34123-59-6	Isoproturon	---	

No.	CAS number	Pollutant	EN or ISO standard Emission to air (Abbreviations see below)	EN or ISO standard Emission to water (Abbreviations see below)
68	91-20-3	Naphthalene		EN ISO 15680:2003 EN ISO 17993:2003
69		Organotin compounds (as total Sn)	---	EN ISO 17353:2005
70	117-81-7	Di-(2-ethyl hexyl) phthalate (DEHP)		EN ISO 18856:2005
71	108-95-2	Phenols (as total C)	---	ISO 18857-1:2005
72		Polycyclic aromatic hydrocarbons (PAHs)	ISO 11338-1 to -2:2003	EN ISO 17993:2003 ISO 7981-1:2005 ISO 7981-2:2005
73	108-88-3	Toluene	---	EN ISO 15680:2003
74		Tributyltin and compounds	---	EN ISO 17353:2005
75		Triphenyltin and compounds	---	EN ISO 17353:2005
76		Total organic carbon (TOC) (as total C or COD/3)	---	EN 1484:1997
77	1582-09-8	Trifluralin	---	
78	1330-20-7	Xylenes	---	EN ISO 15680:2003
79		Chlorides (as total Cl)	---	EN ISO 10304-1:1995 EN ISO 10304-2:1996 EN ISO 10304-4:1999 EN ISO 15682:2001
80		Chlorine and inorganic compounds (as HCl)	EN 1911-1 to -3:2003	---
81	1332-21-4	Asbestos	ISO 10397:1993	
82		Cyanides (as total CN)	---	EN ISO 14403:2002
83		Fluorides (as total F)	---	EN ISO 10304-1:1995
84		Fluorine and inorganic compounds (as HF)	ISO/DIS 15713:2004	---
85	74-90-8	Hydrogen cyanide (HCN)		---
86		Particulate matter (PM10)	ISO Standard in preparation by ISO/TC 146/SC 1/ WG 20 (available as Committee Draft CD 23210) (for information only)	---
87	1806-26-4	Octylphenols and Octylphenol ethoxylates	---	
88	206-44-0	Fluoranthene	ISO 11338-1 to -2:2003	EN ISO 17993:2003
89	465-73-6	Isodrin	---	
90	36355-1-8	Hexabromobiphenyl		
91	191-24-2	Benzo(g,h,i)perylene	---	EN ISO 17993:2003
GENERAL STANDARDS for EMISSION to AIR and/or WATER				
G1	Water sampling – Part1 Guidance on the design of sampling programmes			EN ISO 5667-1 : 1996
G2	Water sampling – Part 10 Guidance on sampling waste water			EN ISO 5667-10 : 1992
G3	Water sampling – Part 3 Guidance on the preservation and handling of samples			EN ISO 5667-3 : 1994
G4	Guide to analytical quality control for water analysis			CEN/ISO TR 13530 : 1998
G5	Stationary source emission – Intra- laboratory validation procedure for an alternative method compared to a reference method		CEN/TS 14793	

No.	CAS number	Pollutant	EN or ISO standard Emission to air (Abbreviations see below)	EN or ISO standard Emission to water (Abbreviations see below)
G6	General requirements for competence of testing and calibration laboratories		EN ISO 17025 : 2005	
G7	GUM = Guide to the expression of uncertainty (1995) published by BIPM, IEC, IFCC, ISO, IUPAC, IUPAP, OIML		CEN TS 13005 : 2000	

Abbreviations:

EN	European Standard
CEN/TS	CEN Technical Specification
CEN/TR	CEN Technical Report
ISO	International Standard
ISO/CD	ISO Committee Draft
ISO/TC	ISO Technical Committee
ISO/TS	ISO Technical Specification
ISO/TR	ISO Technical Report
PrXXX	Draft standard (for information only)

APPENDIX 7 – R/D codes

Recovery/recycling operations

- R 1 Use as a fuel or other means to generate energy
- R 2 Solvent recovery/regeneration
- R 3 Recycling/recovery of organic substances that are not used as solvents (including composting and other biological transformation processes) [1]
- R 4 Recycling/recovery of metals and metal compounds
- R 5 Recycling/recovery of other inorganic materials [2]
- R 6 Regeneration of acids or bases
- R 7 Recovery of components to reduce pollution
- R 8 Recovery of components from catalysts
- R 9 Oil re-refining or other re-use of oil
- R 10 Treatment of land resulting in benefit to agriculture or environmental improvement
- R 11 Use of waste as a result of any of the operations listed under codes from R 1 to R 10
- R 12 Exchange of waste to conduct operations listed under codes from R1 to R11 [3]
- R 13 Storage of waste intended for any of the operations listed under codes from R1 to R12 (this does not include temporary storage of waste at the place of its generation, and preparation for collection)

[1] This includes gasification and pyrolysis using the components as chemicals

[2] This includes soil cleaning resulting in the recovery of soil and recycling of inorganic construction materials.

[3] If no other R code is used, this includes pre-treatment prior to recovery, including dismantling, sorting, crushing, compacting, palleting, drying, shredding, re-packaging, separating or mixing prior to submission to conduct any of the operations under codes from R1 to R11.

Disposal operations

- D 1 Placing into or on land (e.g., on landfills, etc.)
- D 2 Soil treatment (e.g., biodegradation of liquid or sludgy waste discharged into soil, etc.)
- D 3 Deep injection (e.g., injection of waste into wells, salt domes or natural reservoirs, etc.)
- D 4 Surface impoundment (e.g., discharge of liquid or sludgy waste into pits, ponds or basins, etc.)
- D 5 Specially engineered landfills (e.g., placement into lined discrete cells which are capped and isolated from one another and the environment, etc.)
- D 6 Discharge into water reservoirs (except for seas and oceans)
- D 7 Discharge into seas and oceans including sea-bed insertion
- D 8 Biological treatment which is not listed in this annex and which results in final compounds or mixtures that are disposed of by means of any of the operations listed under codes from D1 to D12
- D 9 Physiochemical treatment which is not listed in this annex and which results in final compounds or mixtures that are disposed of by means of any of the operations listed under codes from D1 to D12 (e.g., evaporation, drying, calcination, etc.)
- D 10 Incineration on land
- D 11 Incineration at sea [1]
- D 12 Permanent storage (e.g., placement of containers in a mine, etc.)
- D 13 Mixing prior to submission to conduct any of the operations listed under codes from D1 to D12 [2]
- D 14 Re-packaging prior to submission to conduct any of the operations listed under codes from D1 to D13
- D 15 Storage in the course of any of the operations listed under codes from D1 to D14 (this does not include temporary storage of waste at the place of its generation and preparation for collection)

[1] This operation is prohibited by international conventions.

[2] If no other D code is used, this includes pre-treatment prior to disposal, in particular, sorting, crushing, compacting, palleting, drying, shredding or separating prior to submission to conduct any of the operations under codes from D1 to D12.

APPENDIX 8 – Reporting format

Reference year		
Identification of the facility		
Name of the parent company Name of the facility Identification number of facility Street address Town Postal code Country Coordinates of the location River basin district NACE-code (4 digits) Main economic activity Production volume (optional) Number of installations (optional) Number of operating hours in year (optional) Number of employees (optional) Text field for textual information or website address delivered All Appendix 1 activities of the facility		
Activity 1 (main activity) Activity 2 Activity N		
Release data to air for the facility for each pollutant exceeding threshold value		Releases to air
Pollutant 1	M: measured; Analytical Method used C: calculated; Calculation Method used E: estimated	T: Total in kg/year A: accidental in kg/year
Pollutant 2		
Pollutant N		
Technical measures	Type	Reduction of pollutants
Release data to water for the facility for each pollutant exceeding threshold value (according to Appendix 2)		Releases to water
Pollutant 1	M: measured; Analytical Method used C: calculated; Calculation Method used E: estimated	T: Total in kg/year A: accidental in kg/year
Pollutant 2		
Pollutant N		
Technical measures	Type	Reduction of pollutants
Release data to land for the facility for each pollutant exceeding threshold value (according to Appendix 2)		Releases to land
Pollutant 1	M: measured; Analytical Method used C: calculated; Calculation Method used E: estimated	T: Total in kg/year A: accidental in
Pollutant 2		
Pollutant N		

Technical measures	Type	Reduction of pollutants
Off-site transfer of each pollutant destined for wastewater treatment in quantities exceeding threshold value (according to Appendix 2)		
Pollutant 1	M: measured; Analytical Method used	in kg/year
Pollutant 2	C: calculated; Calculation Method used	
Pollutant N	E: estimated	
Off-site transfers of hazardous waste for the facility exceeding 2 tonnes/year		
<u>Within the country:</u>	M: measured; Analytical Method used	in tonnes/year
For Recovery (R)	C: calculated; Calculation Method used	
<u>Within the country:</u>	M: measured; Analytical Method used	in tonnes/year
For Disposal (D)	C: calculated; Calculation Method used	
<u>To other countries:</u>	M: measured; Analytical Method used C: calculated; Calculation Method used E: estimated	in tonnes/year
For Recovery (R) Name of the recoverer Address of the recoverer Address of actual recovery site receiving the transfer		
<u>To other countries:</u>	M: measured; Analytical Method used C: calculated; Calculation Method used E: estimated	in tonnes/year
For Disposal (D) Name of the disposer Address of the disposer		
Off-site transfer of non-hazardous waste for the facility exceeding 2000 tonnes/year		
For Recovery (R)	M: measured; Analytical Method used	in tonnes/year
	C: calculated; Calculation Method used	
For Disposal (D)	M: measured; Analytical Method used	in tonnes/year
	C: calculated; Calculation Method used	

Competent authority for requests of the public: Name Street address Town Telephone No Fax No E-mail address	
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APPENDIX 9 – Reporting format for H2020 indicator 6.4

River basin District (Name)	No of companies	Legal/regulatory/economic measures (L/R/E) - description	Inspections (No/per year) – total (for all facilities)	Technical measures (treatment plants, recycling, preventive)
1				
2				
N				