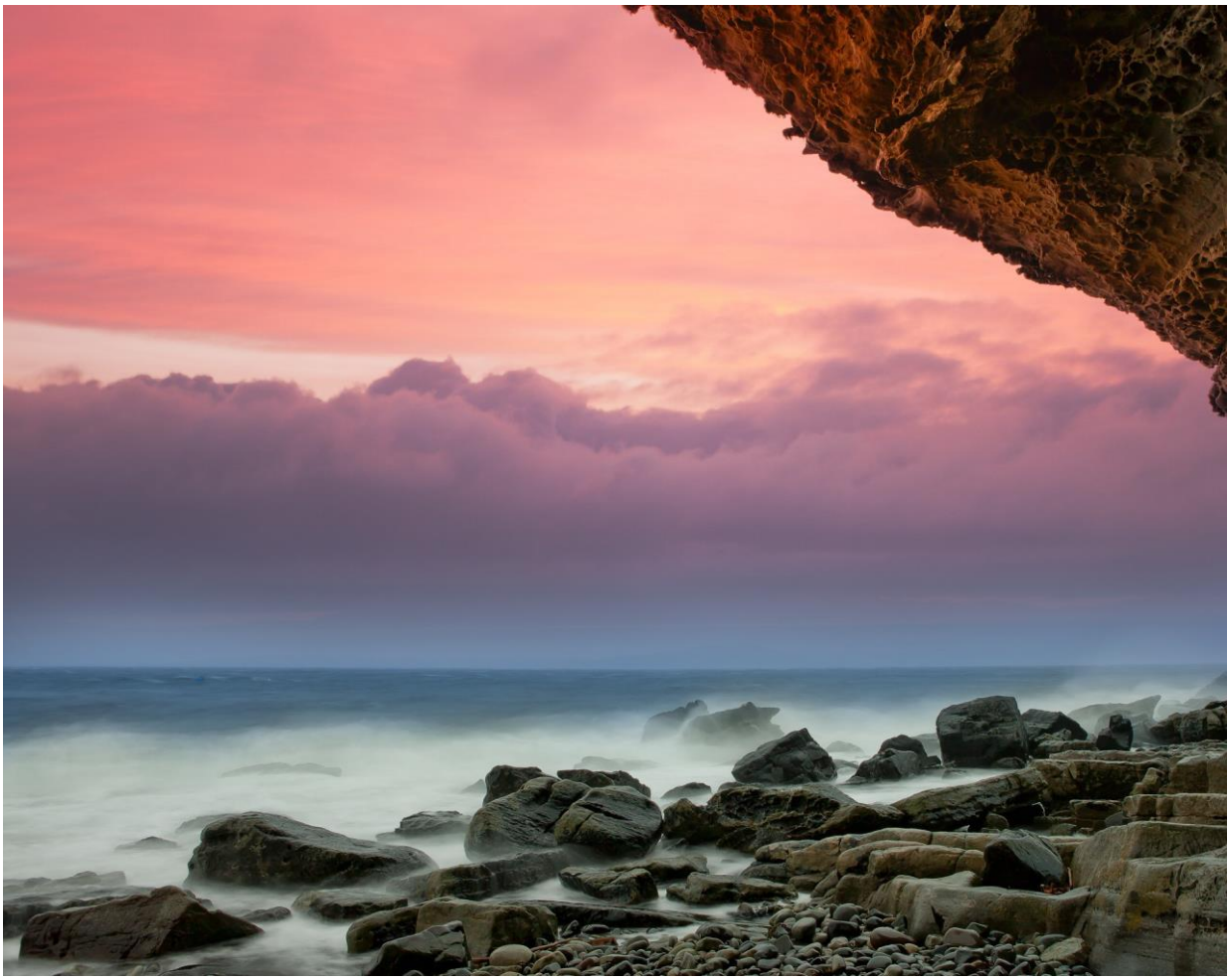
OSPAR COMMISSION

Comprehensive Atmospheric Monitoring Programme

Deposition of air pollutants around the North Sea and the North-East Atlantic in 2015



2017

Monitoring and Assessment Series

OSPAR Convention

The Convention for the Protection of the Marine Environment of the North-East Atlantic (the "OSPAR Convention") was opened for signature at the Ministerial Meeting of the former Oslo and Paris Commissions in Paris on 22 September 1992. The Convention entered into force on 25 March 1998. The Contracting Parties are Belgium, Denmark, the European Union, Finland, France, Germany, Iceland, Ireland, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom of Great Britain and Northern Ireland.

Convention OSPAR

La Convention pour la protection du milieu marin de l'Atlantique du Nord-Est, dite Convention OSPAR, a été ouverte à la signature à la réunion ministérielle des anciennes Commissions d'Oslo et de Paris, à Paris le 22 septembre 1992. La Convention est entrée en vigueur le 25 mars 1998. Les parties contractantes sont : l'Allemagne, la Belgique, le Danemark, l'Espagne, la Finlande, la France, l'Irlande, l'Islande, le Luxembourg, la Norvège, les Pays-Bas, le Portugal, le Royaume-Uni de Grande Bretagne et d'Irlande du Nord, la Suède, la Suisse et l'Union européenne.

Acknowledgement

This report has been prepared by Wenche Aas with help from Anne-Gunn Hjellbrekke, Mona Waagsbø and Rita Våler at NILU. The national experts and the OSPAR secretariat are greatly acknowledged for their input to this report.

Norwegian Institute for Air Research

P.O. Box 100, N-2027 Kjeller, Norway

Contents

Executive summary

This report presents the results of monitoring undertaken by OSPAR Contracting Parties for the Comprehensive Atmospheric Monitoring Programme (CAMP) during 2015. Under the CAMP, OSPAR Contracting Parties are committed to monitoring, on a mandatory basis, the concentrations of a range of metals, organic compounds and nutrients in precipitation and air. The CAMP also encourages OSPAR Contracting Parties to monitor, on a voluntary basis, additional compounds (such as certain persistent organic pollutants). The report gives detailed information on observed atmospheric inputs of selected contaminants to the OSPAR maritime area and its regions during 2015.

Region II, the Greater North Sea, remains the most intensely observed sub-region. Sub-regional coasts that are most underrepresented are the Irish Sea (Region III), the Bay of Biscay (Region IV), and the far north-east (Region I).

All Contracting Parties reported data for 2015. For most Parties some elements are missing to comply completely with the monitoring obligation defined by CAMP.

The regional distribution of the various pollutants show in general elevated levels closest to main source areas, though there is some variability with a few sites which maybe more influenced by local or nearby sources.

Time trends show decrease in nitrogen, heavy metals and γ-HCH in accordance to the general emission reductions done in Europe the last decades.

Deposition of air pollutants around the North Sea and North-East Atlantic in 2015

1 Introduction

This report collates and describes the observations from coastal monitoring stations across the OSPAR region (see Figure 1.1) under the Comprehensive Atmospheric Monitoring Programme (CAMP), this forming one element within the wider Joint Assessment and Monitoring Programme of OSPAR. The CAMP aims to assess, as accurately as appropriate, the atmospheric input of the selected contaminants to the maritime area and regions thereof (Figure 1.1) on an annual basis through monitoring the concentrations of selected contaminants in precipitation and air.

Figure 1.1: OSPAR maritime area and regions. Region I : Arctic Waters; Region II: Great North Sea; Region III: Celtic Seas; Region IV: Bay of Biscay and Iberian Coast; Region V: Wider Atlantic.

The components of interest to the CAMP are divided into two groups, for measurement on a mandatory basis and for measurement on a voluntary basis. These are listed in Table 1.1.

The CAMP Principles call for each Contracting Party bordering the OSPAR maritime area (excluding the EU) to operate at least one monitoring station on the coast and/or offshore as part of the CAMP. Where Parties border more than one region (see Figure 1.1) at least one station should be operating in each. The stations should be so-called "background stations", i.e. not directly influenced by local emission sources. The stations should be located not more than 10 km from the coastline.

Table 1.1: Components to be measured under CAMP

	Mandatory	Voluntary
Precipitation	Cd, Pb, Hg, Ni NH_4^+, NO_3^-	As, Cr,Cu, Zn PAHs *(For quality control: pH, Na^+, K^+, Ca^{2+}, Mg^{2+}, SO_4^{2-}, Cl^-)*
Airborne	NO_2, HNO_3, NH_3, NH_4^+, NO_3^- [1)] Cd, Pb, Ni	$Hg_{(g)}$ PCBs

[1)] total ammonium (NH_3 + NH_4^+) and total nitrate (HNO_3 +NO_3^-) is an alternative

The data assembled by monitoring stations are reported by Contracting Parties to the Norwegian Institute for Air Research (NILU) on a yearly basis, using a reporting format and according to the time schedule set out in the CAMP Principle, which are harmonised with the reporting obligations under EMEP (European Monitoring and Evaluation Programme). Data are stored in the international database http://ebas.nilu.no/, and NILU prepares a CAMP data report on an annual basis for OSPAR.

The present CAMP data report "*Pollutant depositions in the OSPAR region of the North-East Atlantic in 2015*" gives in Chapter 2 an overview of reported data, and a discussion if the Parties are in compliance

with their monitoring obligations. In Chapter 3, the 2015 observed annual average concentrations are mapped. Chapter 4 provides overviews of temporal patterns in the observations in the two last decades, and indications of significant trends or not.

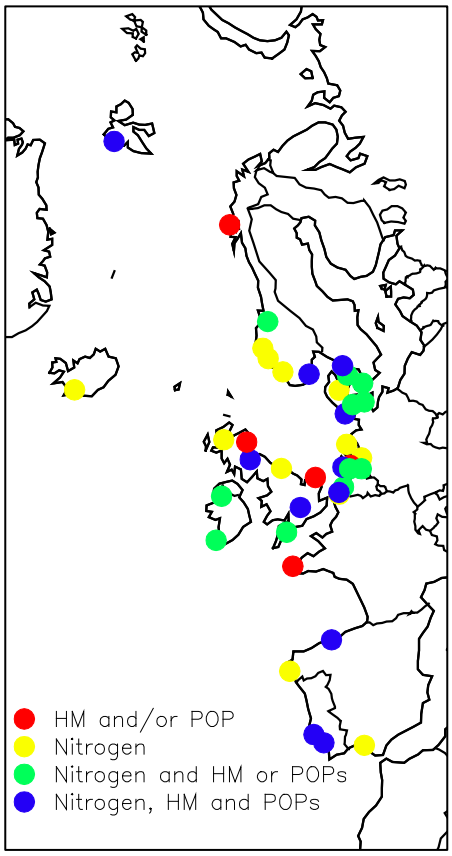
2 The OSPAR CAMP Monitoring Programme

2.1 Geographical coverage and completeness

Table 2.1 and Figure 2.1 illustrate what has been reported to CAMP for the year 2015. Their coordinates are given in the Annex, Table A.1.1. Dark green colour in the table indicates that the component measured is part of the mandatory or voluntary programme, while light green means that the component measured is not as defined in Table 1.1; i.e. if particulate mercury is measured in air and not elemental mercury; or various POPs are measured, but not PAH or PCBs. The map shows the regional distribution of sites and the colour code indicates the level of completeness at the individual site. It is recommended to have as complete monitoring programme as possible to better assess the pollution level and to study what is the main sources, and atmospheric processes. The dark blue colour indicates which sites include all component groups covered by CAMP (nitrogen, heavy metals and POPs).

Table 2.1 and Figure 2.1: Monitoring sites reporting, reduced and oxidised nitrogen compounds, heavy metals (HM), mercury and persistent organic pollutants (POPs) to CAMP in 2015.

region	Site	Name	In precipitation NO_3^-	NH_4^+	HM	Hg	POP	In air NO_2	Nox	Nred	HM	Hg	POP
I	IS0002R	Irafoss											
	NO0039R	Kårvatn											
	NO0090R	Andøya											
	NO0042G	Zeppelin											
II	BE0011R	Moerkerke											
	BE0013R	Houtem											
	BE0014R	Koksijde											
	DE0001R	Westerland											
	DK0003R	Tange											
	DK0005R	Keldsnor											
	DK0008R	Anholt											
	DK0012R	Risø											
	DK0022R	Sepstrup Sande											
	FR0090R	Porspoder											
	GB0013R	Yarner Wood											
	GB0014R	High Muffles											
	GB0015R	Strath Vaich Dam											
	GB0017R	Heigham Holmes											
	GB0036R	Harwell											
	GB0048R	Auchencorth Moss											
	GB0054R	Glen Saugh											
	NL0007R	Eibergen											
	NL0008R	Bilthoven											
	NL0009R	Kollumerwaard											
	NL0010R	Vredepeel											
	NL0091R	De Zilk											
	NL0644R	Cabauw Wielsekade											
	NO0001R	Birkenes											
	NO0554R	Haukeland											
	NO0572R	Vikedal											
	NO0655R	Nausta											
	SE0014R	Råö											
III	GB0006R	Lough Navar											
	IE0001R	Valentia											
IV	ES0005R	Noya											
	ES0017R	Doñana											
	ES0008R	Niembro											
	PT0006R	Alfragide											
	PT0004R	Monte Velho											



It is mandatory for all the Parties to OSPAR to monitor in accordance to the CAMP programme at minimum one site as described in the introduction. Sweden is the only country with full compliance of both the

mandatory and voluntary program, Table 2.2. Iceland and France lack several components to comply with the mandatory program.

Table 2.2 Compliance with the monitoring obligations to CAMP. Dark green indicates compliance while light green indicates missing variable for N in air and different POPs under the voluntary program.

Mandatory program										Voluntary program		
In precipitation							In air			Precip	In air	
Site	NO_3^-	NH_4^+	Cd	Pb	Ni	Hg	NO_2	Nox	Nred	PAH	PCB	Hg
Iceland		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Norway												
Belgium								n/a	n/a			n/a
Germany										n/a		n/a
Denmark						n/a				n/a	n/a	n/a
France	n/a	n/a				n/a	n/a	n/a	n/a	n/a	n/a	n/a
UK										n/a		
Netherlands												n/a
Sweden												
Ireland										n/a	n/a	n/a
Spain												n/a
Portugal							n/a			n/a		n/a

Parties report a wider range of components than is covered by CAMP. The main body of this report is a description of observations defined by the CAMP programme. Excluded are i.e. major ions, which are reported to provide the potential for quality control, and compounds which are a part of other international programmes, but which may be expected to lie outside the core interest of OSPAR, e.g. sulphates, ozone, and PM measurements. Most of the sites are also part of the EMEP programme and the monitoring obligations in EMEP is more extensive (UNECE, 2009). All the components reported by Contracting Parties during 2015 are uploaded in the database and are accessible from http://ebas.nilu.no/.

3 Observed concentrations in 2015

This section describes the observed concentrations at coastal stations around the North-East Atlantic in 2015. Note that the colour codes are only used to show the spatial spread of the data, to indicate which regions have the highest and lowest levels compared to each other, and not necessarily if the levels are higher than what is acceptable from a critical load perspective.

In the maps, volume weighted means are calculated in accordance to the defined EMEP procedures. To address the total load of pollutants, it is necessary to look at the deposition, and the wet depositions are given in the annexes together with the concentrations. For pollutants in air, concentrations only are given. There is a large uncertainty in using dry deposition velocities to estimate the deposition from gases and particulate matter, and it is beyond the aim of this report to address this complicated issue. It is however recognised that dry deposition can be just as important as, or higher than the wet deposition, especially in dry regions.

3.1 Metals in air and precipitation

Heavy metals are of major environmental concern due to their persistence, ability to bio-accumulate and their negative effect on human health and the environment. Therefore regulation of these elements has been a priority both on a regional (OSPAR; HELCOM, CLRTAP, EEA) and global scale (UNEP).

The concentrations of heavy metals in air and precipitation shown in Figure 3.1 -3.6 resemble the emission distribution in this region fairly well (see Pacyna et al., 2009). The lowest concentrations are generally observed in northern Scandinavia and the westernmost part of Europe. The highest levels were for some elements observed in the Benelux countries while for other; highest levels are seen in Spain, UK or Denmark. One should notice that the detection limit for some elements from some countries are higher than the ambient concentration and these data should be looked upon as an upper concentration level. Detection limits are found in Annex 4. The regional distribution in air and precipitation is not comparable for all elements. This may be due to influence of regional or more local sources, which can give high air concentrations, but these aerosols are not necessarily scavenged by wet deposition nearby.

The spatial distribution of elemental mercury in air (Figure 3.6), does not follow the same spatial pattern as the other heavy metals. The lowest annual average of gaseous mercury (Hg(g)) was seen in Spain while Norway had highest concentrations. In precipitation, the highest concentrations are in the Netherlands and Spain (if excluding IE with too high detection limits), while lowest in Great Britain. The reason why the spatial pattern of especially mercury air concentrations differs from the primary emission pattern is that mercury has a long residence time in the atmosphere and that re-emission from soil and ocean may affect sites that are more distant.

In addition to mapping of the annual concentrations, corresponding tables of monthly and annual wet deposition and volume weighted means of concentrations both in air and precipitation are presented in Annex 2.

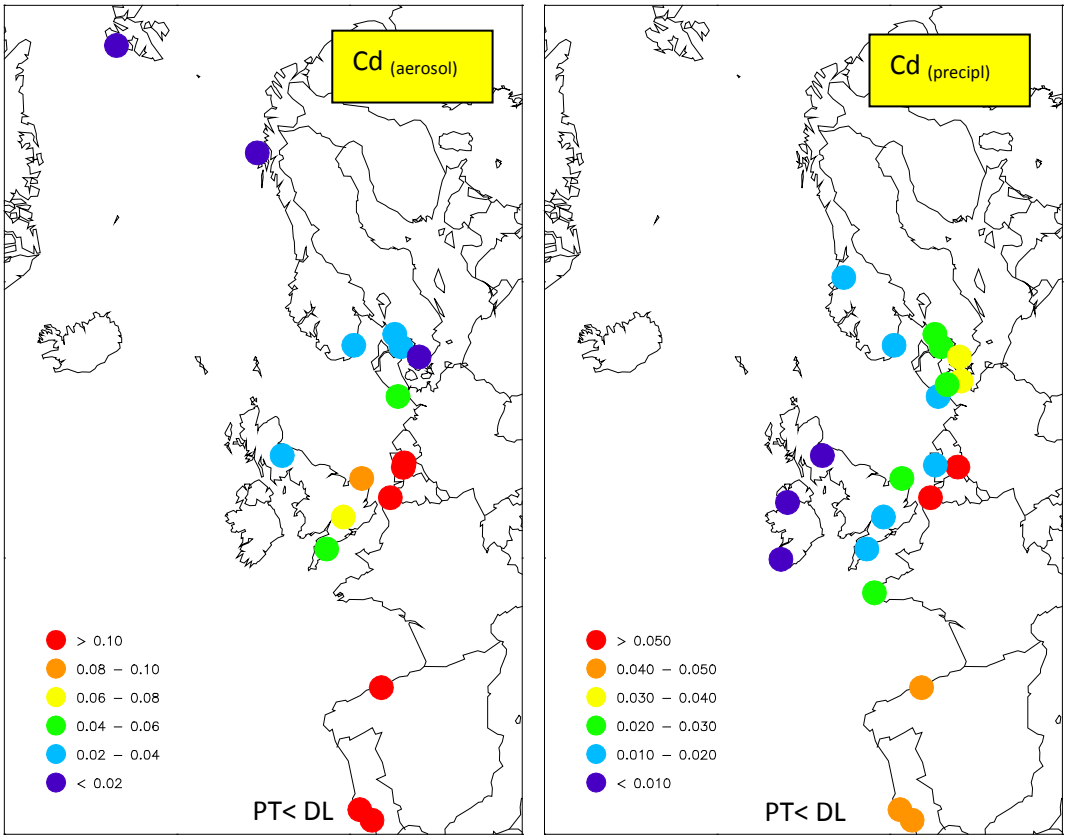


Figure 3.1: Annual concentrations of cadmium in air (ng/m^3) and precipitation (µg/L), 2015. Note that data marked with under the detection limit (DL), the colour illustrates the upper limit

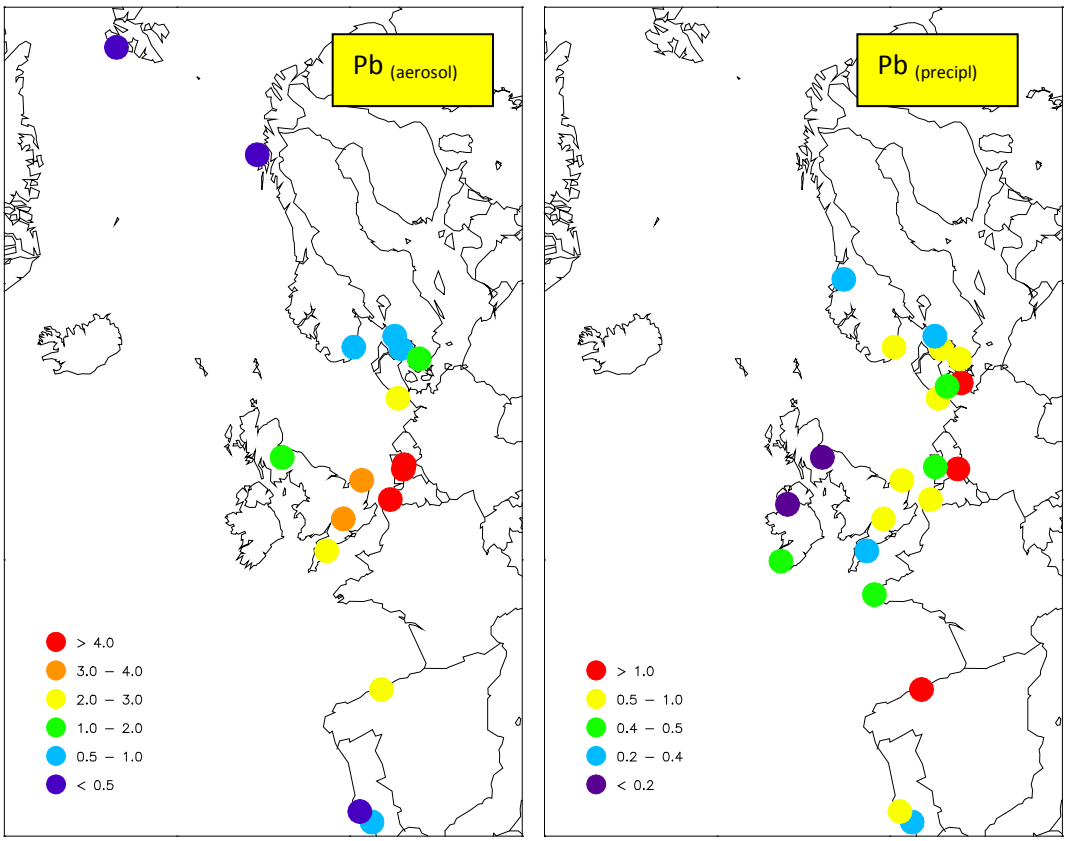


Figure 3.2: Annual concentrations of lead in air (ng/m^3) and precipitation (µg/L), 2015

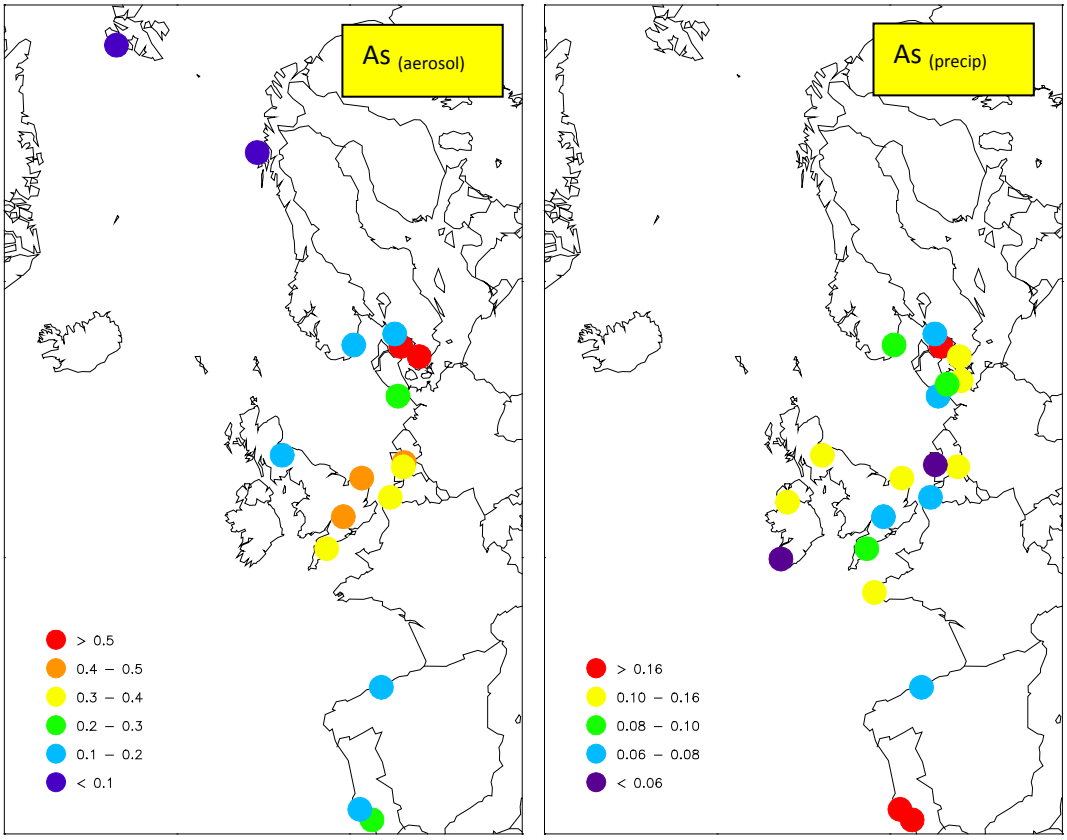


Figure 3.3: Annual concentrations of arsenic in air (ng/m^3) and precipitation (µg/L), 2015

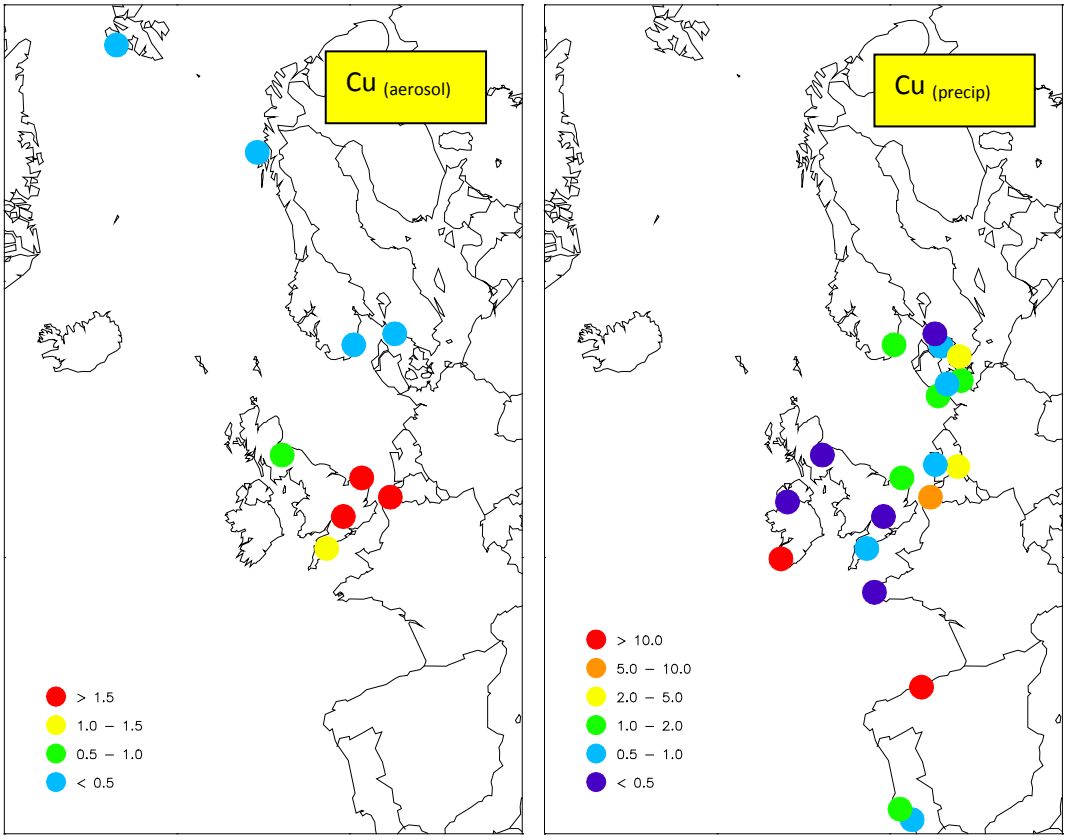


Figure 3.4: Annual concentrations of copper in air (ng/m^3) and precipitation (µg/L), 2015

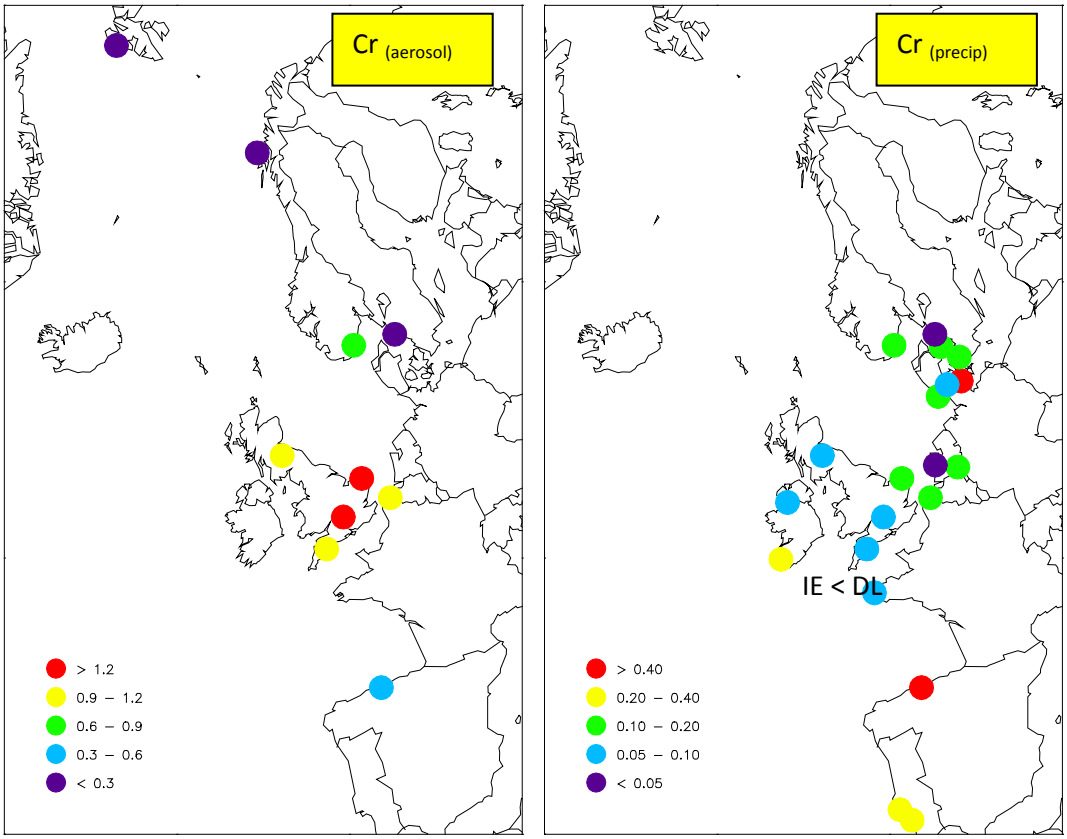


Figure 3.5: Annual concentrations of chromium in air (ng/m^3) and precipitation (µg/L), 2015 Note that data marked with under the detection limit (DL), the colour illustrates the upper limit

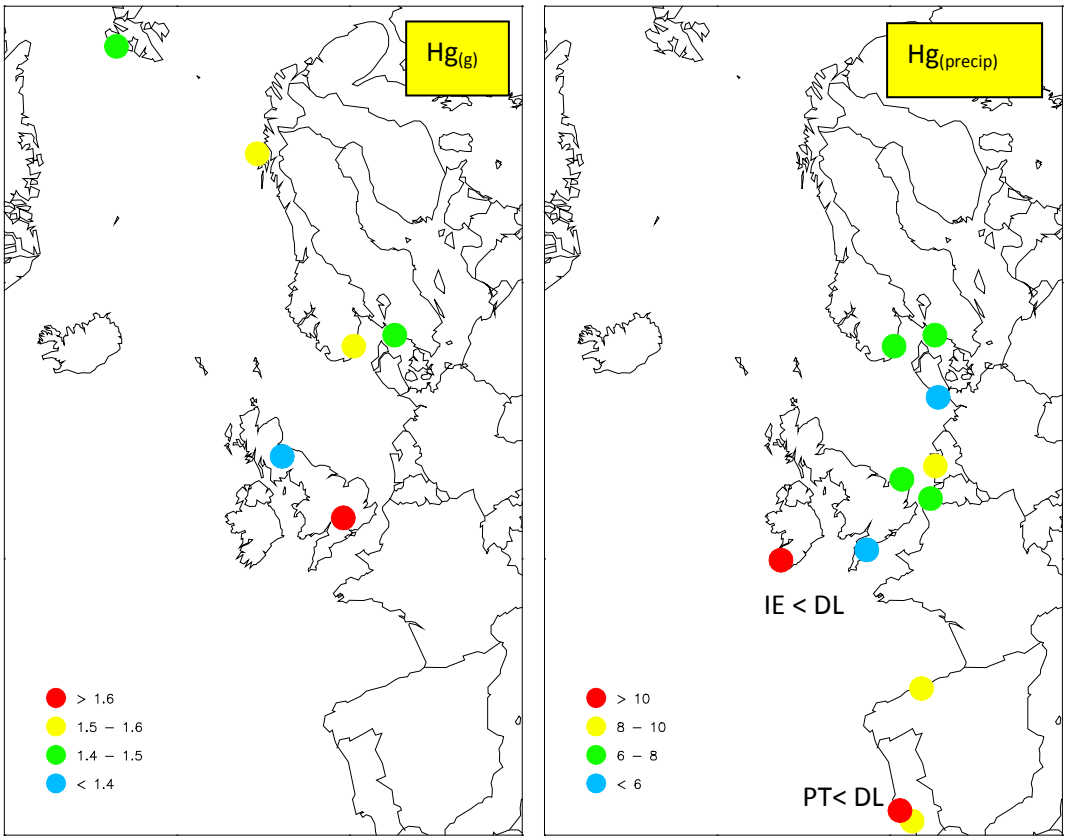


Figure 3.6: Annual concentrations of mercury in air (ng/m^3) and precipitation (ng/L), 2015 Note that data marked with under the detection limit (DL), the colour illustrates the upper limit

3.2 Selected POPs in air

POPs are organic chemicals identified as being toxic, bio-accumulative, persistent and prone to long-range transport, and several are regulated by international law. Most other air pollutants tend to decline with distance from source regions due to dispersion, dilution, degradation and deposition. However, for some POPs, relatively high concentrations have been measured far from major emission regions (Wania, 1999; Tørseth et al., 2012). A characteristic feature of many POPs, unlike most other air pollutants, is their potential to undergo reversible atmospheric deposition (e.g. Larsson, 1985; Nizzetto et al., 2010). Therefore, air concentrations measured today might be either caused by recent primary atmospheric emissions or attributed to re-volatilization of these persistent and semi-volatile substances from contaminated surface reservoirs (soil, water, vegetation, snow, etc.) in contact with the atmosphere.

In Figure 3.7, the annual mean concentrations of selected POPs (γ-HCH, Benzo-a-pyrene and PCB 180) in air are shown. γ-HCH and PCBs in air are only measured at a few sites while benzo-a-pyrene is measured at a larger number of sites mainly due to the fact that PAH is regulated by the EUs air quality directive (EU, 2004). The highest levels are seen in the Benelux countries and Spain, while lowest in the Arctic (at the station in Svalbard). Details of all the concentrations for all the different POPs measured at the sites in the CAMP programme are found in Annex 2.

Maps for measurements of POPS in precipitation are not shown because the methods across the network differ and are not comparable, i.e. some sites measure deposition while others concentrations. The data are however, given in Annex 2.

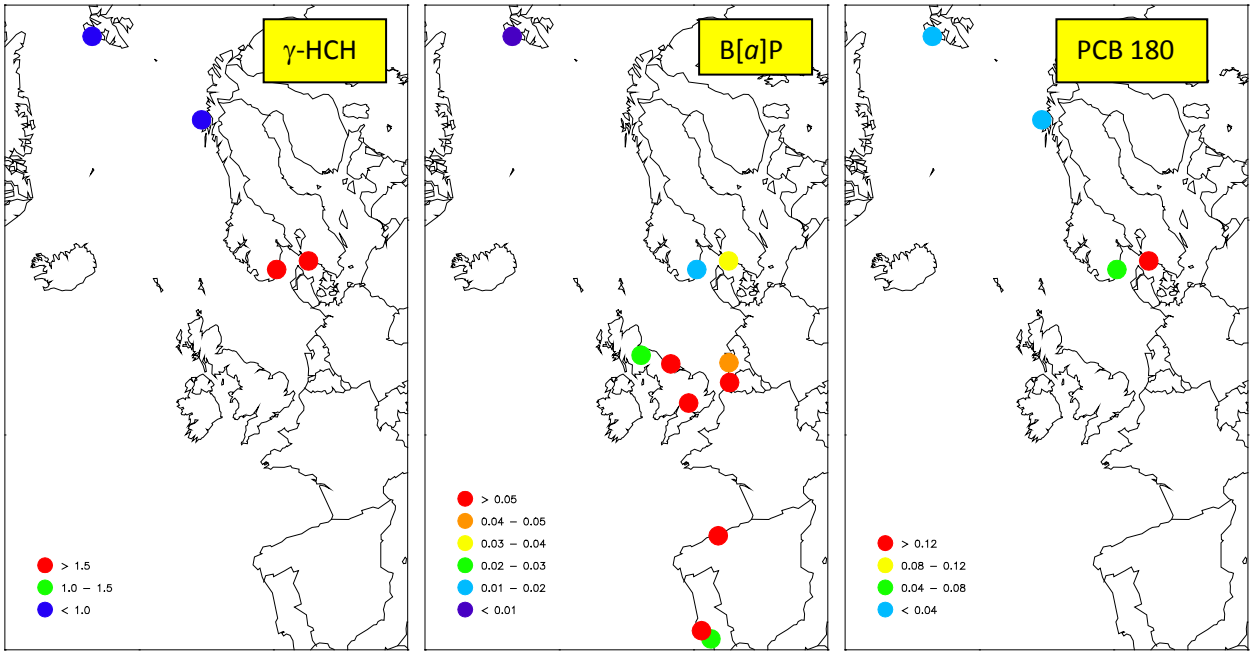


Figure 3.7: γ-HCH (pg/m^3), Benzo-a-pyrene (ng/m^3) and PCB 180 in air (pg/m^3) 2015.

3.3 Nitrogen compounds in air and precipitation

Concentrations of oxidised nitrogen in air and precipitation are illustrated in Figure 3.8. The air concentrations of NO_2 are highest around the major emission sources, like from the ship traffic in the North Sea, Kattegat and in the English Channel. The highest concentrations of oxidised nitrogen in air resembles

similar pattern, for nitrate in precipitation it is more scatter with additional elevated concentrations in the Bay of Biscay and in Portugal.

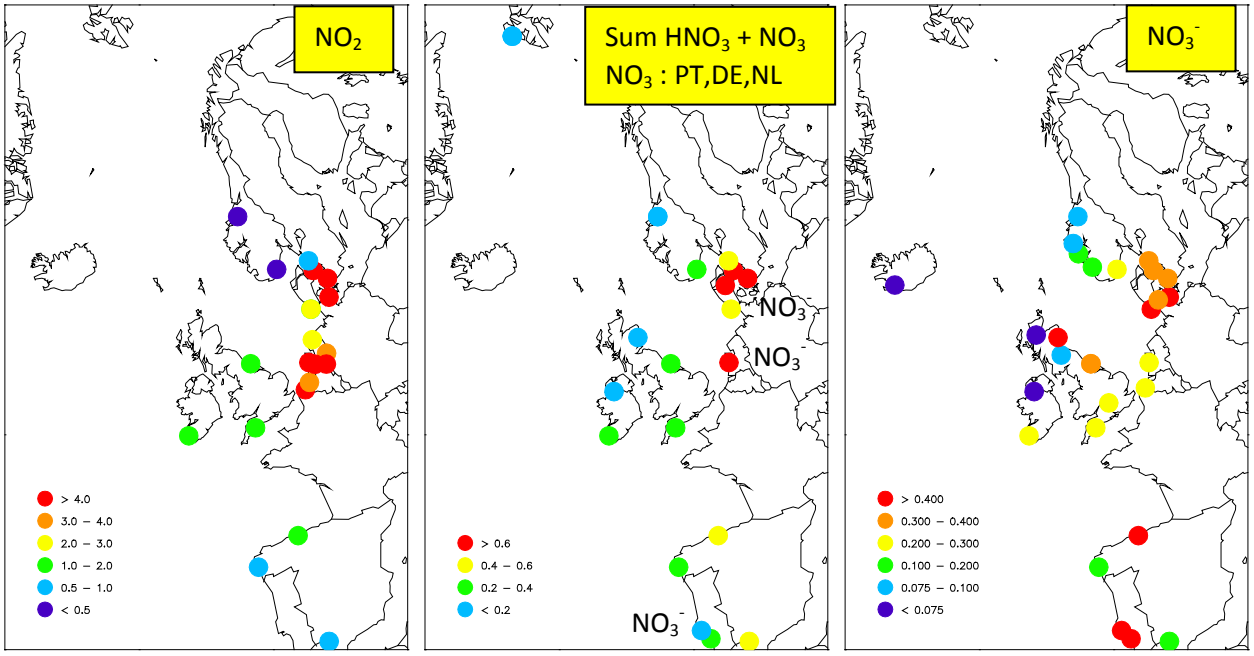


Figure 3.8: Volume weighted annual mean concentrations of oxidised nitrogen in 2015, in air (NO_2 and sum (NO_3 + HNO_3) in µgN/m^3) and in precipitation (NO_3^- in mgN/L).

Concentrations of reduced nitrogen are shown in Figure 3.9. The highest concentrations of sum ammonium (NH_4^++NH_3) in air are not surprisingly highest in the quite intensive agricultural regions in Europe.

Annual wet deposition of total nitrogen is between 82 and 1248 mgN/m^2 (equal 0.8-12 kg ha/year) with the highest deposition in the relatively wet region in Norway (see data in the annex) and in Spain due to high concentrations. To estimate the total deposition it is important to also include dry deposition fluxes (Sutton et al., 2011). However, monitoring of dry deposition fluxes has so far mainly been made in relation to research projects, in particular, the European Union integrated project NitroEurope (Skiba et al, 2009; Flechard et al, 2011).

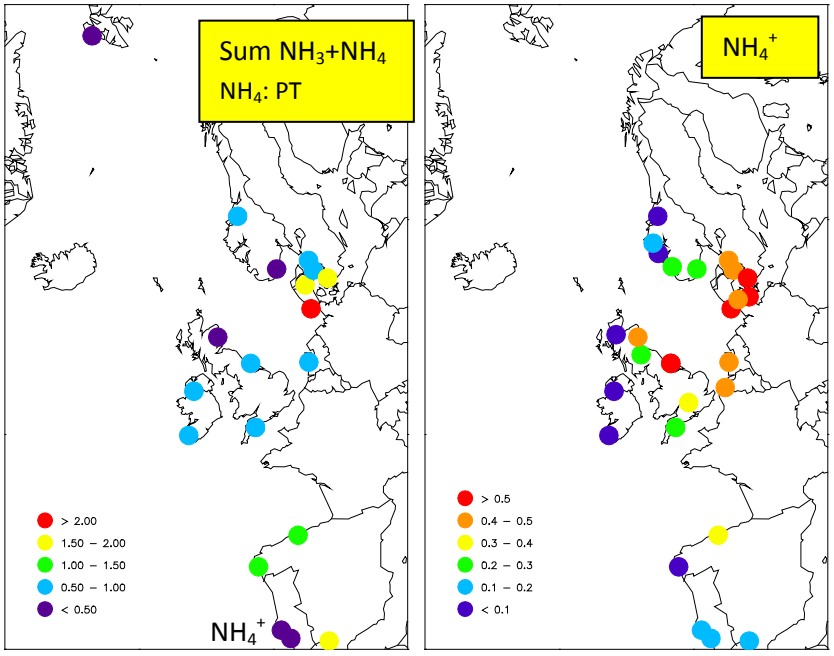


Figure 3.9: Volume weighted annual mean concentrations of reduced nitrogen in 2015, in air (left, µgN/m^3) and in precipitation (right, mgN/L).

4 Temporal trends

The temporal trends in the OSPAR CAMP data from 1990 to 2015 have been evaluated. For the statistical analysis, the non-parametric "Mann-Kendall Test" has been used on annual means for detecting and estimating trends (Gilbert, 1987). The Mann-Kendall test has become a standard method in EMEP (Tørseth et al, 2012) for trend analysis when missing values occur and when data are not normally distributed. In parallel to this, the Sen's slope estimator has been used to quantify the scale of potential trends. Thus, the Sen's slope is used to estimate the percent reduction in the concentration level while the Mann-Kendall test is used to indicate the significance level of the trend. Statistical calculations have been carried out using the MAKESENS software (Salmi et al., 2002) which was developed to be used for the previous EMEP assessment (Lövblad et al., 2004). In MAKESENS the two-tailed test is used for four different significance levels (0.1, 0.05, 0.01 and 0.001). In this work, we have included all these confidence levels when defining whether the trend is significant or not. For calculating trends, volume weighted annual concentration averages are used, and only sites with sufficient data coverage are included, i.e. 75% data capture for the year, except for heavy metals in air where some sites do have one daily sample per week, which is accepted. The measurements are not normalised. The average percent change in concentration, and standard deviation are calculated for all the sites, and not only for those with a significant trend. In the figures a selection of sites are used. In Table 4.1, trend statistics for nitrogen and heavy metals for the last two decades of measurements at the CAMP sites are presented.

Table 4.1: Trend statistics for changes in annual concentrations of nitrogen compounds and contaminants at CAMP sites with long-term measurements, calculations for the two periods 1990-2015 and 2000-2015.

Trends 1990 - 2015					
		Sites with sign. trend		Trends in conc.	
Comp	Nr of sites	decrease	increase	Avg.	SD
NO_3 precip	10	80 %	0 %	-26 %	15 %
sum NO_3 air	5	60 %	20 %	7 %	68 %
NO_2 air	6	83 %	17 %	-6 %	63 %
NH_4 precip	10	50 %	10 %	-11 %	20 %
sum NH_4 air	5	60 %	40 %	52 %	146 %
Hg precip	2	100 %	0 %	-38 %	19 %
$Hg_{(g)}$ air	1	0 %	0 %	-14 %	-
Pb precip	5	100 %	0 %	-76 %	10 %
Pb air	1	100 %	0 %	-87 %	-
Cd precip	5	60 %	20 %	-49 %	42 %
Cd air	1	100 %	0 %	-72 %	-

Trends 2000 - 2015					
		Sites with sign. trend		Trends in conc.	
Comp	Nr of sites	decrease	increase	Avg.	SD
NO_3 precip	14	71 %	0 %	-16 %	18 %
sum NO_3 air	5	40 %	20 %	28 %	59 %
NO_2 air	8	63 %	13 %	-9 %	50 %
NH_4 precip	14	36 %	0 %	-8 %	20 %
sum NH_4 air	6	33 %	17 %	22 %	69 %
Hg precip	4	50 %	0 %	-22 %	14 %
$Hg_{(g)}$ air	2	100 %	0 %	-9 %	5 %
Pb precip	6	67 %	0 %	-35 %	22 %
Pb air	4	100 %	0 %	-59 %	6 %
Cd precip	7	57 %	0 %	-28 %	29 %
Cd air	3	100 %	0 %	-45 %	5 %

4.1 Time series in annual mean for the various nitrogen compounds

There have been quite substantial reductions in emissions of nitrogen oxides during the last decades in Europe (Vestreng et al., 2009; Tørseth et al., 2012; Colette et al., 2016). From 1990 to 2009 the NO_x emissions in Europe decreased by 31%. The reductions were in the first decade mainly caused by a change from burning of coal and gas to nuclear power (Lövblad et al., 2004). NO_x emissions from traffic especially in Western European have also decreased, even though fuel consumption has increased (Vestreng et al., 2009). The European emission trends of NO_x are reflected in the precipitation measurements at the CAMP sites, Table 4.1. From 1990 to 2015, nitrate in precipitation decreased on average, by 26%. The concentrations of total airborne nitrate increased on average and NO_2 with only small decrease (6%),

though there are fewer sites with long term trends and these are not representative for the complete CAMP region. However the difference between the trend in air and precipitation can also partly be due to a shift in equilibrium towards more particulate ammonium nitrate relative to nitric acid caused by a reduction in sulphur dioxide emissions. Reduced sulphur dioxide concentrations, make more ammonia available to bind with nitric acid (Fagerli and Aas, 2008). A more rapid oxidation of NO_x may also have contributed (Monks et al., 2009). The total reduction in observed concentrations of oxidized nitrogen compounds from 2000 is less significant than for the whole period, on average 16%. The trend plots of oxidised nitrogen at some selected sites with measurements covering the two decades are shown in the Figures 4.1-4.3.

The total European ammonia emissions decreased by 29% from 1990 to 2009 (Tørseth et al, 2012), though with large regional differences. A majority of the CAMP sites show a decreasing trend in both air and precipitation, on average 11% in precipitation for the period 1990-2015. In air however, the average trend is actually an increase of 50%, Table 4.1. However, it should be noted that some sites are, due to their location in rural districts, partly affected by local ammonia emissions. Especially this is the case for the two sites in Norway, which show a large increase, and excluding the Norwegian sites, the remaining sites in Denmark and Sweden show a significant decrease. Concentrations from 2000-2015 show no clear tendency (Table 4.1 and Figure 4.4 and 4.5).

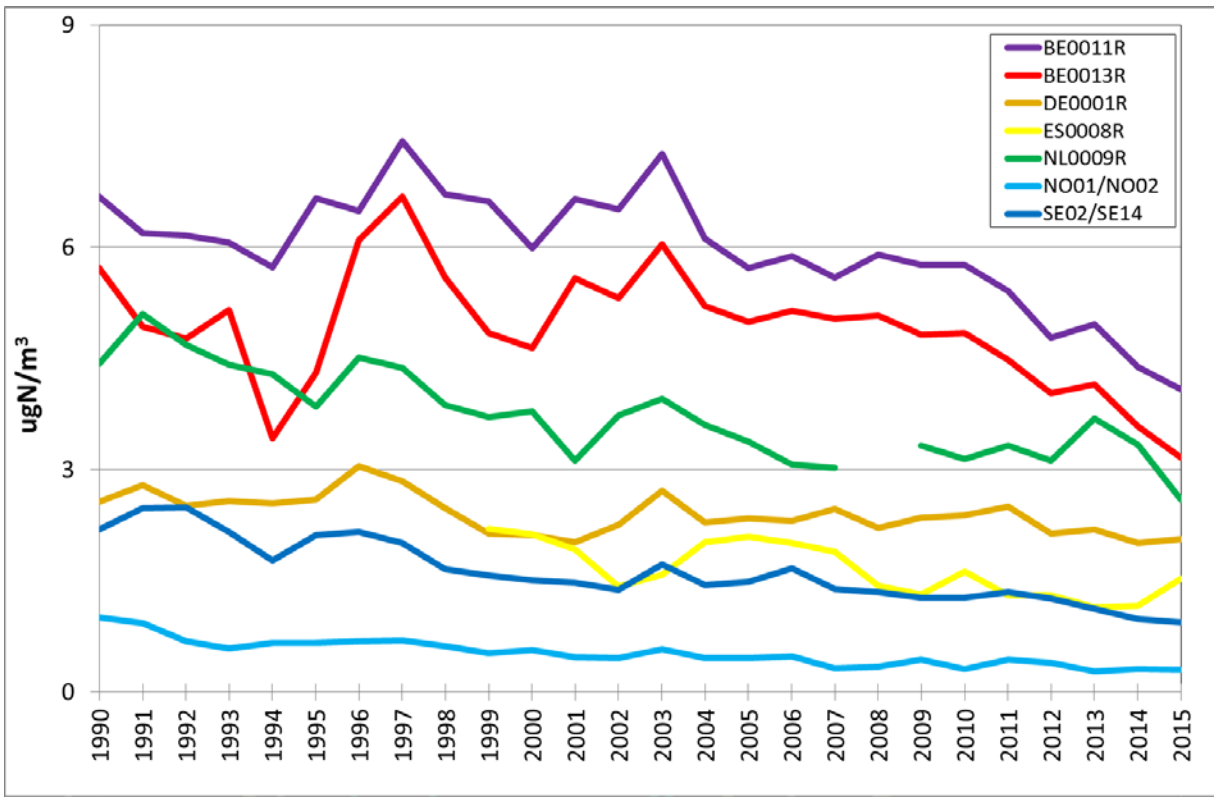


Figure 4.1: Time series of NO_2. All the sites shown have a significant trend.

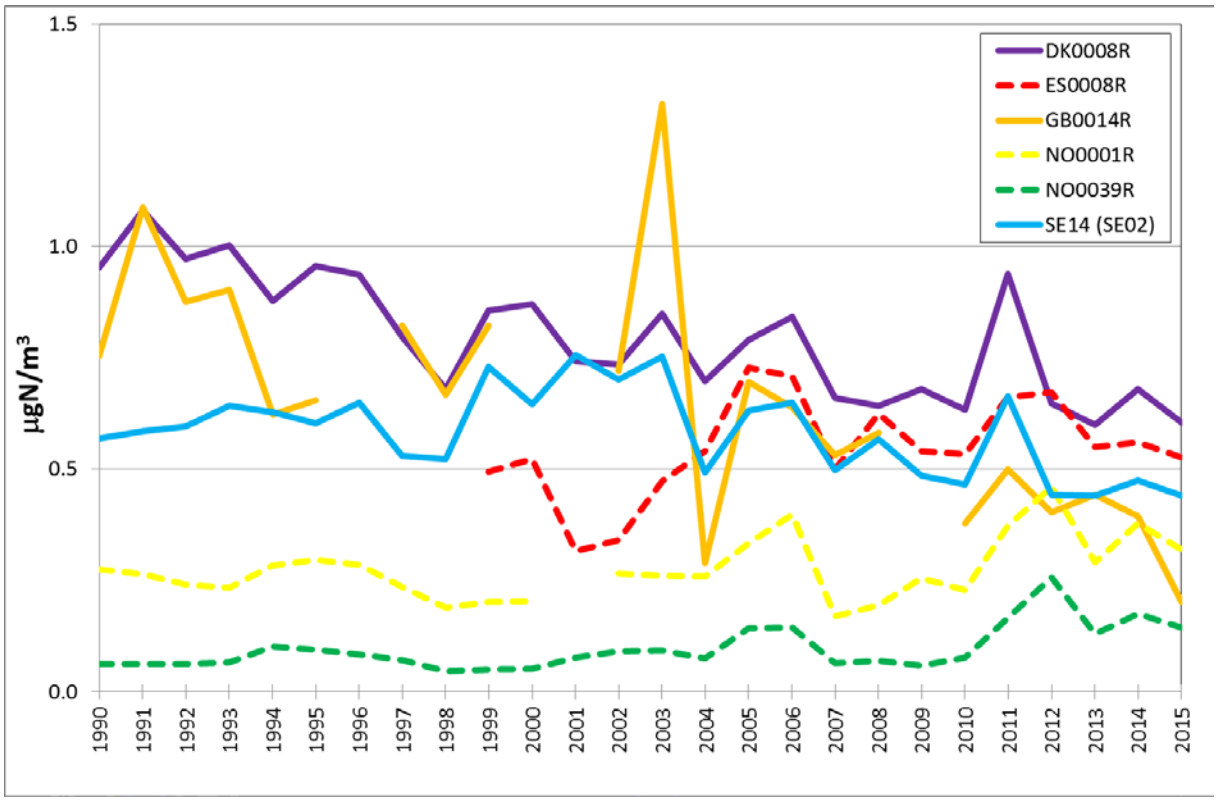


Figure 4.2: Time series of sum of nitrate (HNO_3+NO_3) in air. Solid lines are sites with significant trends while dotted lines are not.

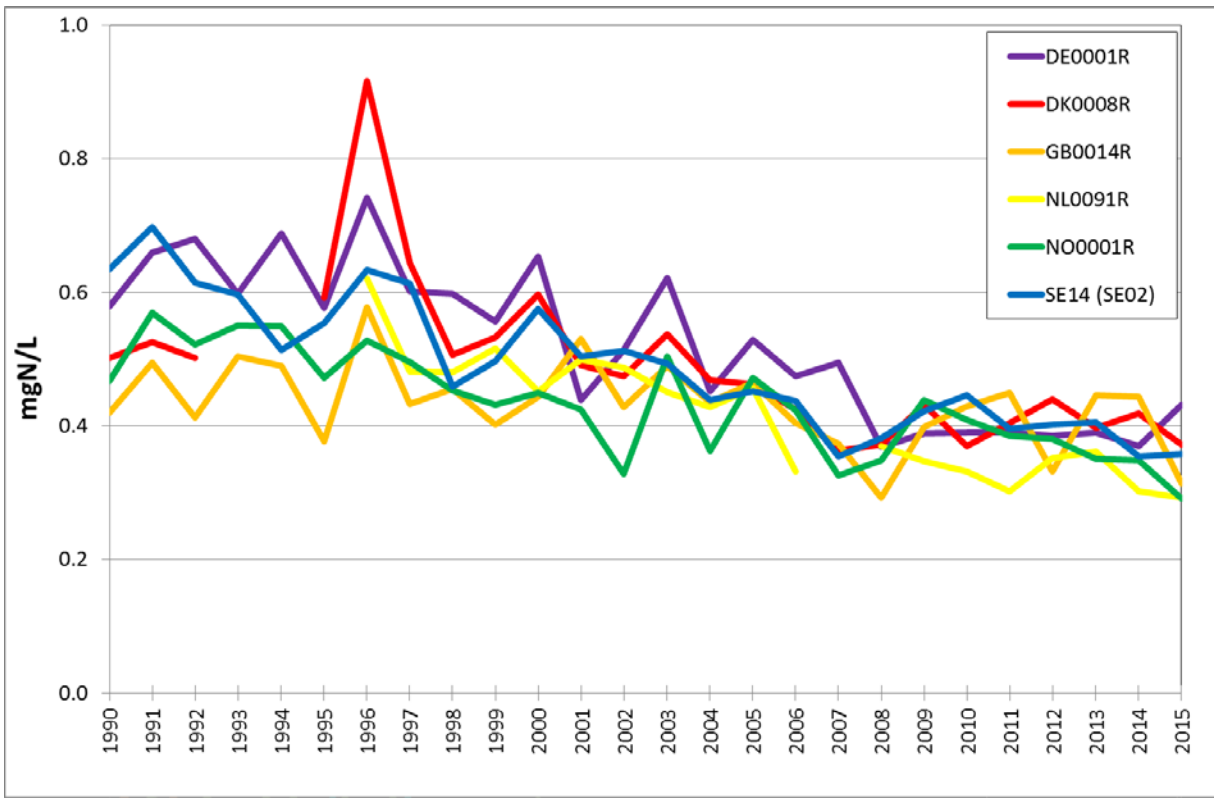


Figure 4.3: Time series of NO_3 in precipitation. All the sites shown have a significant trend

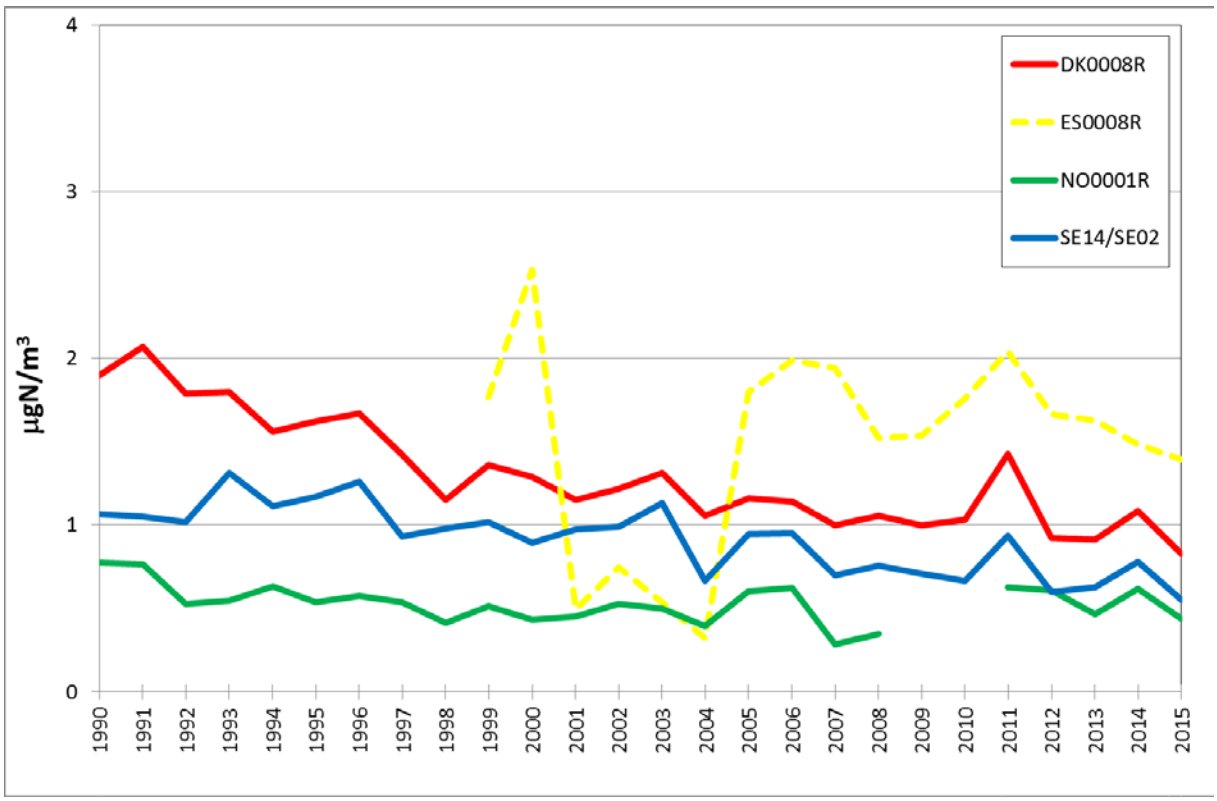


Figure 4.4: Time series of sum of ammonium (NH_3+NH_4) in air. Solid lines are sites with significant trends while dotted lines are not.

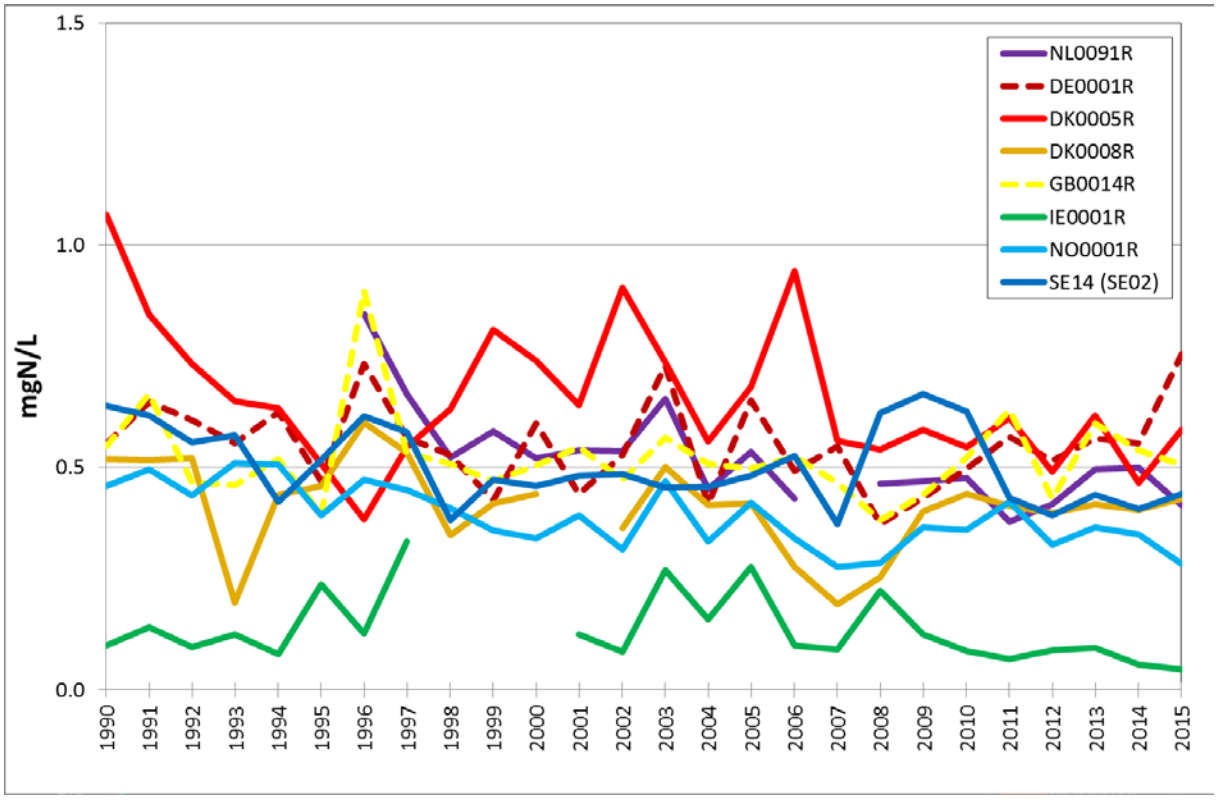


Figure 4.5: Time series of NH_4 in precipitation. Solid lines are sites with significant trends while dotted lines are not.

4.2 Time series in annual mean of heavy metals

When looking at trends in heavy metals, one should keep in mind that the sites with long term monitoring are situated mainly in Northern Europe, and that their average decrease may be different from for the OSPAR domain as a whole. Nevertheless, there is a very clear reduction in both lead and cadmium at the CAMP sites since 1990 as well as from 2000 (see Table 4.1 and Figure 4.6-4.9). This is in line what is reported of emission reduction in Europe (Pacyna et al., 2009).

For mercury, there are only Scandinavian and German sites with long-term measurements, see Figure 4.10. There seems to be a reduction in the concentration in the earlier part of the period, but in the latest decade, the level has not changed significantly. There is some inter-annual variability, but not any clear tendency. This is in line with the fact that the major decline of the European Hg emissions occurred at the end of the 1980s and around 1990 (Pacyna et al., 2009).

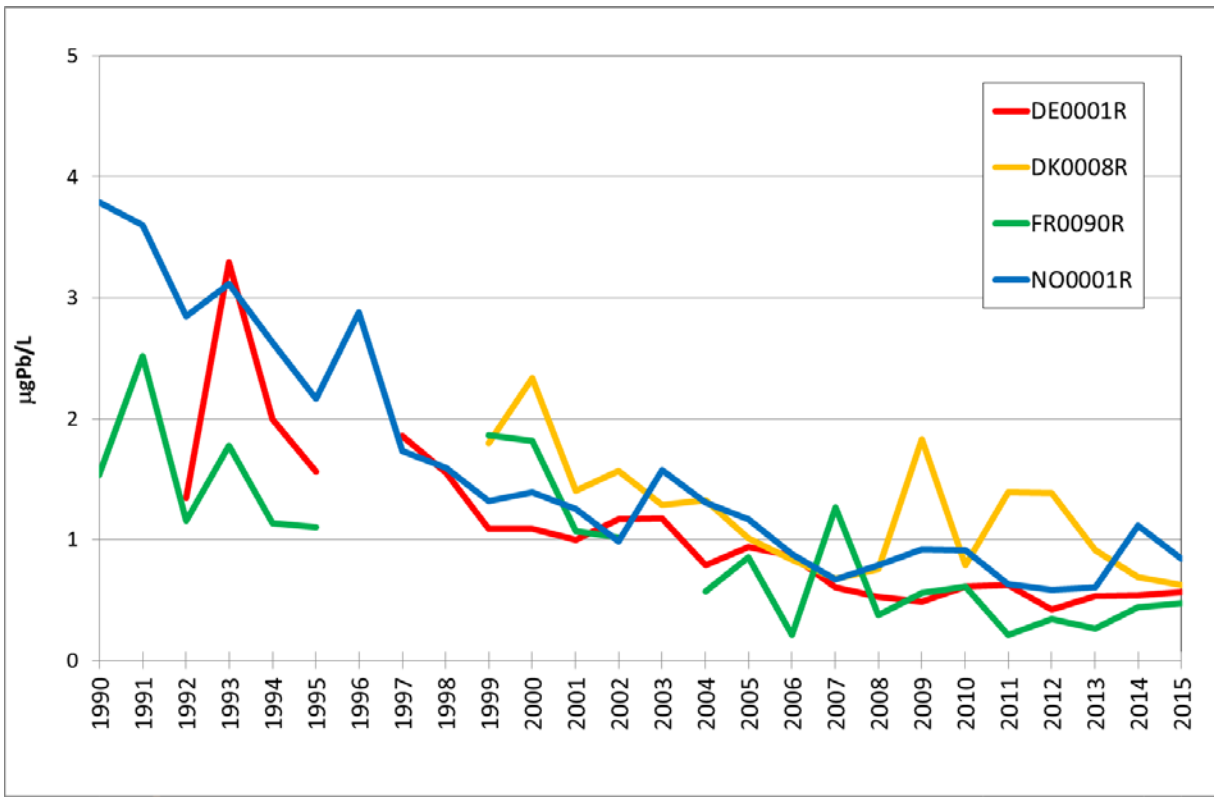


Figure 4.6: Time series of lead in precipitation. All the sites shown have a significant trend

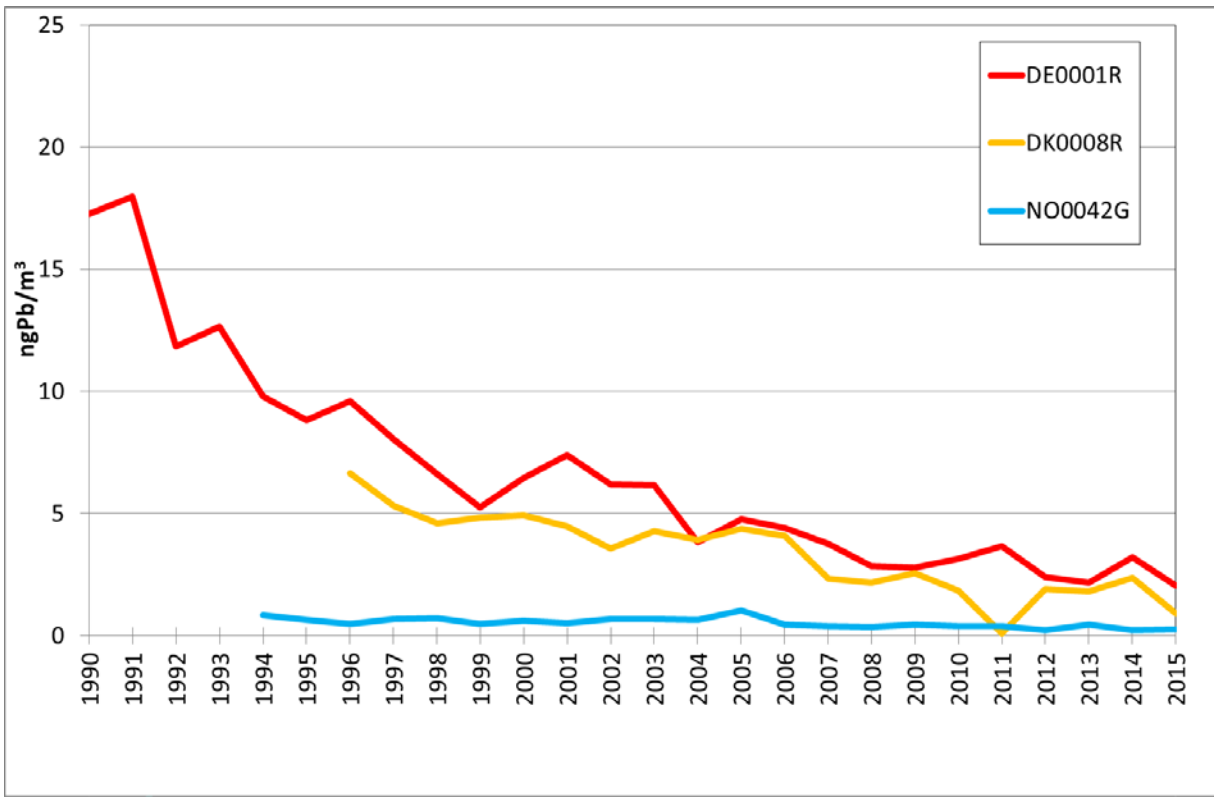


Figure 4.7: Time series of lead in air. All the sites shown have a significant trend.

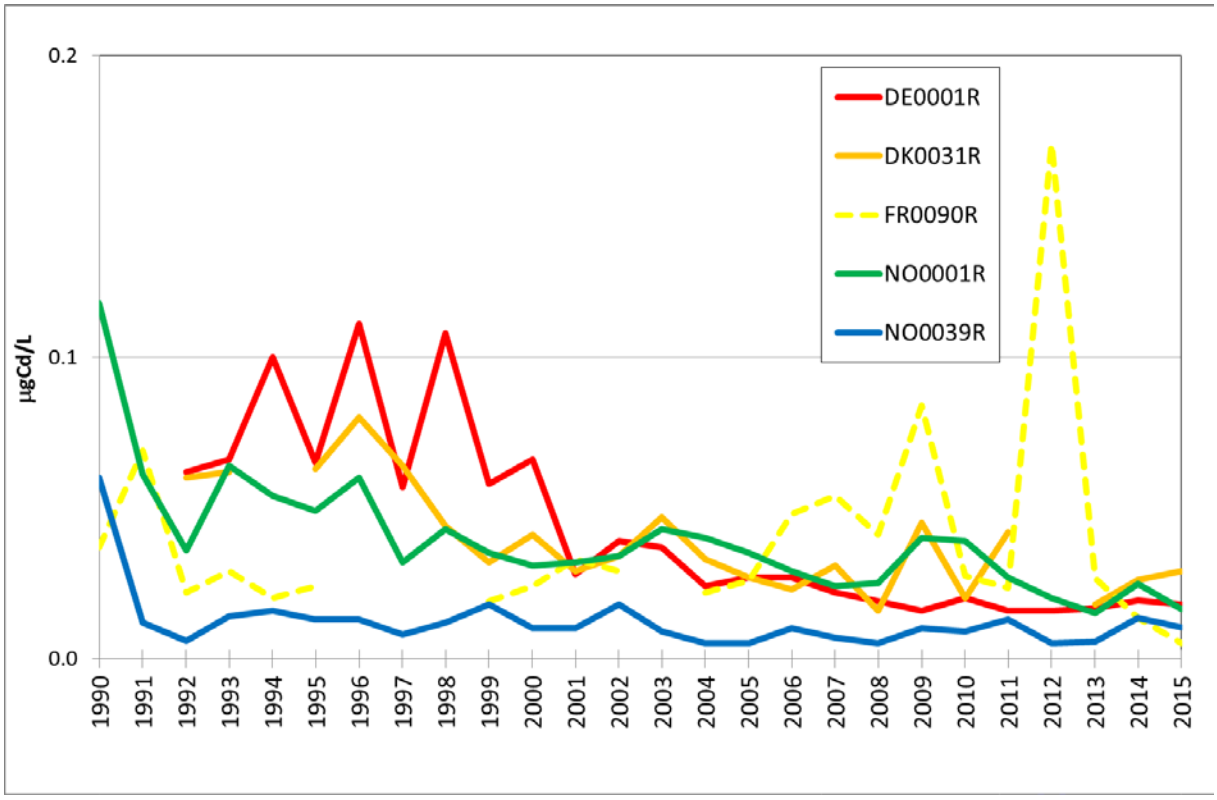


Figure 4.8: Time series of cadmium in precipitation. Solid lines are sites with significant trends while dotted lines are not.

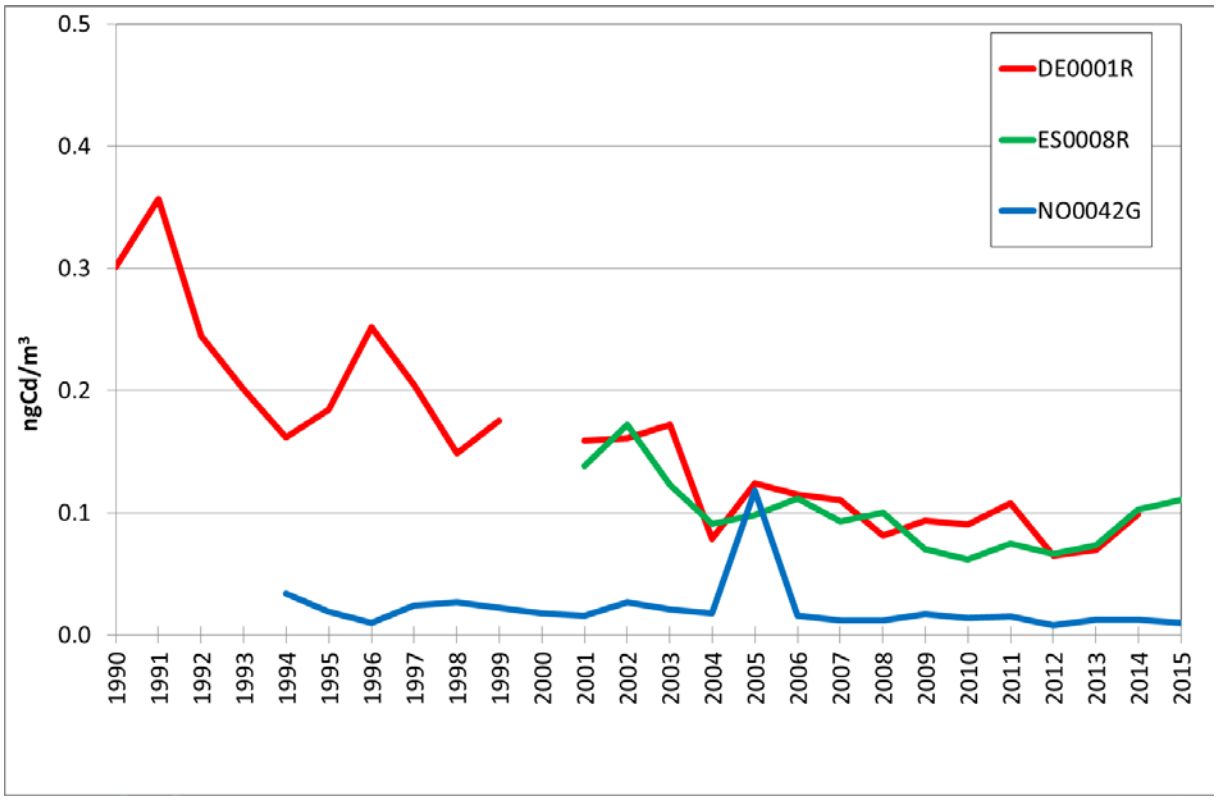


Figure 4.9: Time series of cadmium in air. All the sites shown have a significant trend.

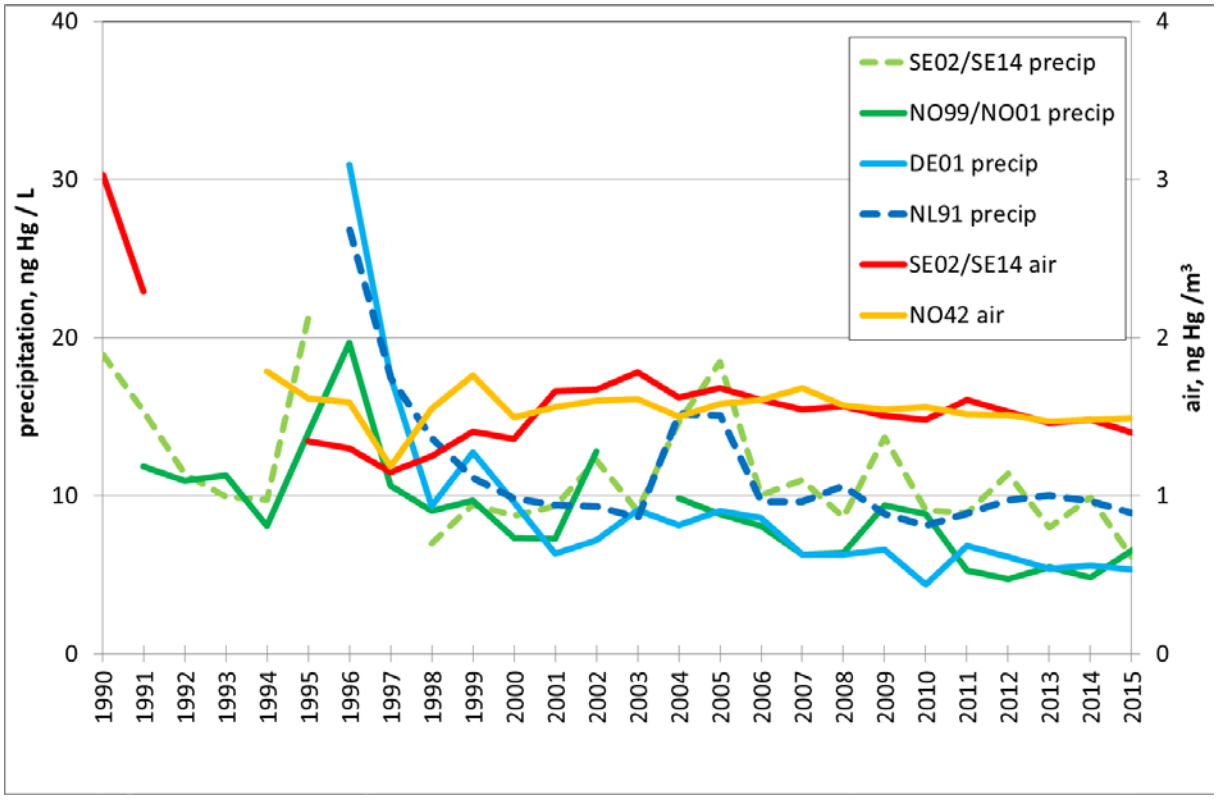


Figure 4.10: Time series of mercury in precipitation and air. Solid lines are sites with significant trends while dotted lines are not.

4.3 Time series in annual mean for γ-HCH

For γ-HCH there has been as significant decline at all the sites, which have measured this compound, especially before 2000, see Figure 4.11 and Figure 4.12. For most other POPs, there are few long-term measurements, but it is quite clear that for legacy POPs there is a general reduction in the observed concentration levels (Tørseth et al, 2012).

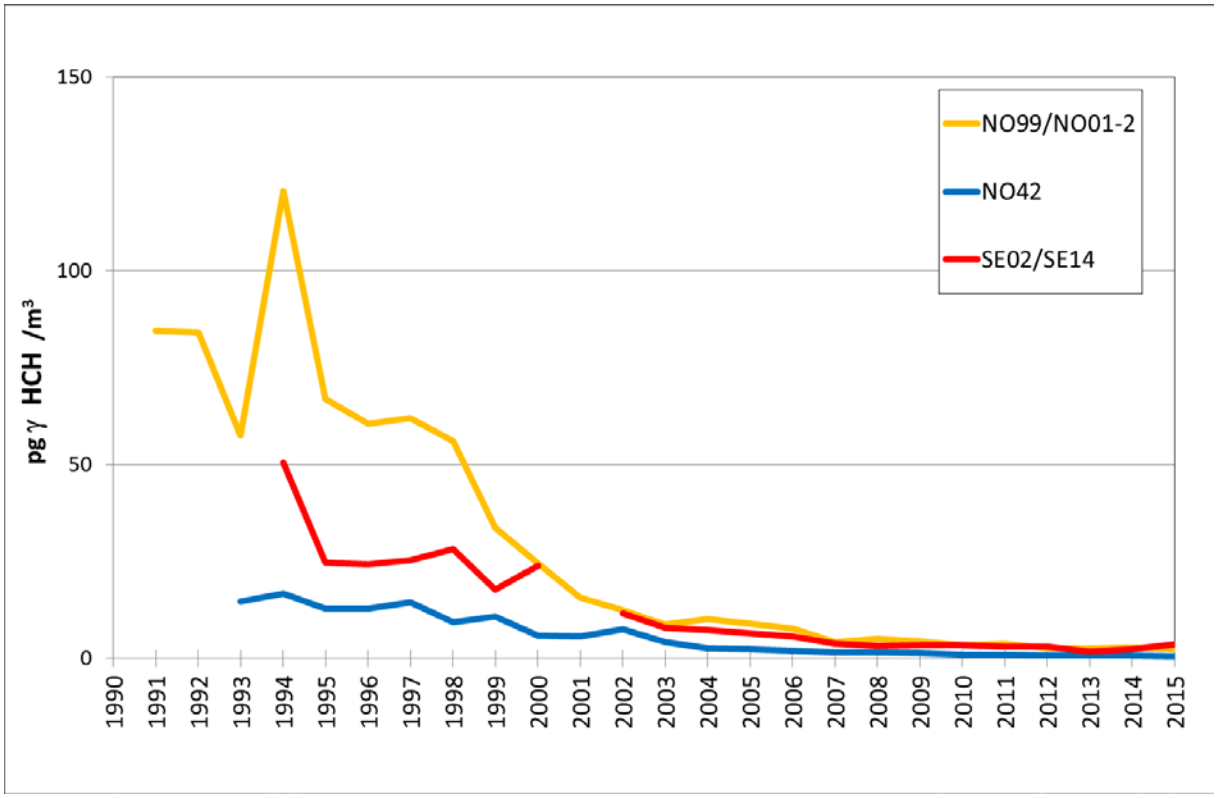


Figure 4.11: Time series of γ-HCH in air.

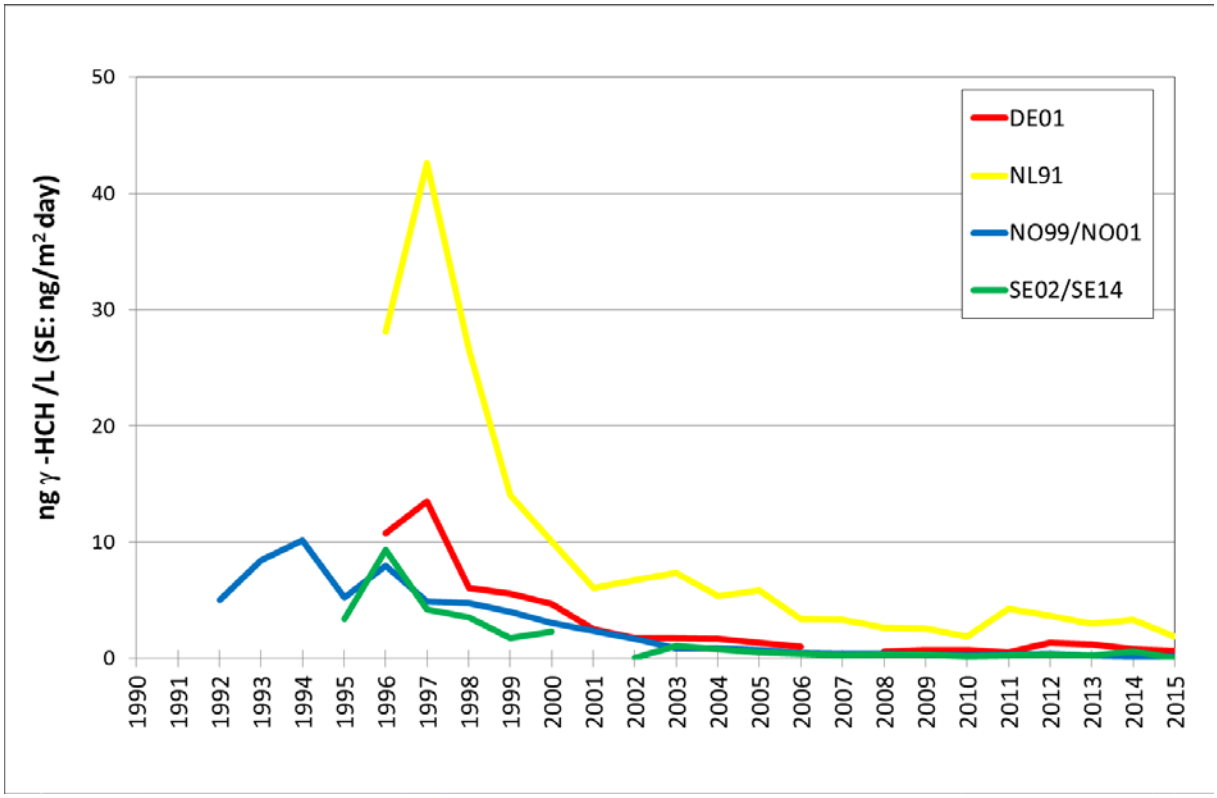


Figure 4.12: Time series of γ-HCH in precipitation (SE02-14 – total deposition).

5 References

Colette, A., Aas, W., Banin, L., Braban, C.F., Ferm, M., González Ortiz, A., Ilyin, I., Mar, K., Pandolfi, M., Putaud, J.-P., Shatalov, V., Solberg, S., Spindler, G., Tarasova, O., Vana, M., Adani, M., Almodovar, P., Berton, E., Bessagnet, B., Bohlin-Nizzetto, P., Boruvkova, J., Breivik, K., Briganti, G., Cappelletti, A., Cuvelier, K., Derwent, R., D'Isidoro, M., Fagerli, H., Funk, C., Garcia Vivanco, M., González Ortiz, A., Haeuber, R., Hueglin, C., Jenkins, S., Kerr, J., de Leeuw, F., Lynch, J., Manders, A., Mircea, M., Pay, M.T., Pritula, D., Putaud, J.-P., Querol, X., Raffort,V., Reiss, I., Roustan, Y., Sauvage, S., Scavo, K., Simpson, D., Smith, R.I., Tang, Y.S., Theobald, M., Tørseth, K., Tsyro, S., van Pul, A., Vidic, S., Wallasch, M., Wind, P. (2016) Air pollution trends in the EMEP region between 1990 and 2012. Joint Report of the EMEP Task Force on Measurements and Modelling (TFMM), Chemical Co-ordinating Centre (CCC), Meteorological Synthesizing Centre-East (MSC-E), Meteorological Synthesizing Centre-West (MSC-W) .EMEP/CCC-Report 1/2016

EU: Directive 2004/107/EC of the European Parliament and of the council of 15 Dec. 2004 relating to arsenic, cadmium, mercury, nickel and polycyclic aromatic hydrocarbons in ambient air, Off. J. Eur. Comm., L23, 26/01/2005, 3-16, 2004.

Fagerli, H. and Aas, W.: Trends of nitrogen in air and precipitation: Model results and observations at EMEP sites in Europe, 1980–2003, Environ. Poll., 154, 3, 448-461, 2008.

Flechard, C.R., Nemitz, E., Smith, R.I., Fowler, D., Vermeulen, A.T., Bleeker, A., Erisman, J.W., Simpson, D., Zhang, L., Tang, Y.S., and Sutton, M.A.: Dry deposition of reactive nitrogen to European ecosystems: a comparison of inferential models across the NitroEurope network, Atmos. Chem. Phys., 11, 2703-2728, doi:10.5194/acp-11-2703-2011, 2011.

Gilbert, R.O.: Statistical methods for environmental pollution monitoring, New York, Van Nostrand Reinhold, 1987.

Larsson, P.: Contaminated sediments of lakes and oceans act as sources of chlorinated hydrocarbons for release to water and atmosphere, Nature, 317, 347-349, 1985.

Lövblad, G., Tarrason, L., Tørseth, K., and Dutchak, S.: EMEP Assessment, Part I, European Perspective, eds. met.no, Oslo, 2004.

Monks, P.S., Granier, C., Fuzzi, S., Stohl, A., Williams, M.L., Akimoto, H., Amann, M., Baklanov, A., Baltensperger, U., Bey, I., Blake, N., Blake, R.S., Carslaw, K., Cooper, O.R., Dentener, F., Fowler, D., Fragkou, E., Frost, G.J., Generoso, S., Ginoux, P., Grewe, V., Guenther, A., Hansson, H.C., Henne, S., Hjorth, J., Hofzumahaus, A., Huntrieser, H., Isaksen, I.S.A., Jenkin, M.E., Kaiser, J., Kanakidou, M., Klimont, Z., Kulmala, M., Laj, P., Lawrence, M.G., Lee, J.D., Liousse, C., Maione, M., McFiggans, G., Metzger, A., Mieville, A., Moussiopoulos, N., Orlando, J.J., O'Dowd, C.D., Palmer, P.I., Parrish, D.D., Petzold, A., Platt, U., Pöschl, U., Prévôt, A.S.H., Reeves, C.E., Reimann, S., Rudich, Y., Sellegri, K., Steinbrecher, R., Simpson, D., ten Brink, H., Theloke, J., van der Werf, G.R., Vautard, R., Vestreng, V., Vlachokostas, Ch., and von Glasow, R.: Atmospheric composition change – global and regional air quality, Atmos. Environ., 43, 5268-5350, 2009.

Nizzetto, L., Macleod, M., Borga, K., Cabrerizo, A., Dachs, J., Di Guardo, A., Ghirardello, D., Hansen, K.M., Jarvis, A., Lindroth, A., Ludwig, B., Monteith, D., Perlinger, J.A., Scheringer, M., Schwendenmann, L., Semple, K.T., Wick, L.Y., Zhang, G., and Jones, K.C.: Past, present, and future controls on levels of persistent organic pollutants in the global environment, Environ. Sci. Technol., 44, 6526-6531, 2010.

Pacyna, E.G., Pacyna, J.M., Fudala, J., Strzelecka-Jastrzab, E., Hlawiczka, S., Panasiuk, D., Nitter, S., Pregger, T., Pfeiffer, H., and Friedrich, R.: Current and future emissions of selected heavy metals to the atmosphere from anthropogenic sources in Europe, Atmos. Environ., 41, 8557–8566, 2007.

Pacyna, J.M., Pacyna, E.G., and Aas, W.: Changes of emissions and atmospheric deposition of mercury, lead, and cadmium, Atmos. Environ., 43, 117-127, 2009.

Salmi, T., Määttä, A., Anttila, P., Ruoho-Airola, T., and Amnell, T.: Detecting trends of annual values of atmospheric pollutants by the Mann-Kendall test and Sen's slope estimates –the Excel template application MAKESENS, Helsinki, Finnish Meteorological Institute, Report code FMI-AQ-31, 2002.

Skiba, U., Drewer, J., Tang, Y.S., van Dijk, N., Helfter, C., Nemitz, E., Famulari, D., Cape, J.N., Jones, S.K., Twigg, M., Pihlatie, M., Vesala, T., Larsen, K.S., Carter, M.S., Ambus, P., Ibrom, A., Beier, C., Hensen, A., Frumau, A., Erisman, J.W., Brüggemann, N., Gasche, R., Butterbach-Bahl, K., Neftel, A., Spirig, C., Horvath, L., Freibauer, A., Cellier, P., Laville, P., Loubet, B., Magliulo, E., Bertolini, T., Seufert, G., Andersson, M., Manca, G., Laurila, T., Aurela, M., Lohila, A., Zechmeister-Boltenstern, S., Kitzler, B., Schaufler, G., Siemens, J., Kindler, R., Flechard, C., and Sutton, M.A.: Biosphere–atmosphere exchange of reactive nitrogen and greenhouse gases at the NitroEurope core flux measurement sites: Measurement strategy and first data sets, Agric. Ecosyst. Environ., 133, 139-149, 2009.

Sutton, M.S., Howard, C-M., Erisman, J.W. Billen, G., Bleeker A., Grennfelt,P., van Grinsven, H., Grizzetti, B. (Eds.): The European nitrogen assessment - sources, effects and policy perspectives. Cambridge Univ. Press, Cambridge, 2011

Tørseth K., Aas, W., Breivik, K., Fjæraa, A. M., Fiebig M., Hjellbrekke A. G., Lund Myhre, C., Solberg, S. and Yttri K. E. (2012). Introduction to the European Monitoring and Evaluation Programme (EMEP) and observed atmospheric composition change during 1972–2009. Atmos. Chem. Phys., 12, 5447-5481, doi:10.5194/acp-12-5447-2012, 2012

UNECE: EMEP monitoring strategy for 2010-1010, United Nations Economic Commissions for Europe, Geneva, ECE/EB.AIR/GE.1/2009/15, http://www.unece.org/env/documents/2009/EB/ge1/ece.eb.air.ge.1.2009.15.e.pdf , 2009.

Vestreng, V., Ntziachristos, L., Semb, A., Reis, S., Isaksen, I.S.A., and Tarrasón, L.: Evolution of NOx emissions in Europe with focus on road transport control measures, Atmos. Chem. Phys., 9, 1503-1520, 2009.

Wania, F.: On the origin of elevated levels of persistent chemicals in the environment, Environ. Sci. Pollut. Res., 6, 11-19, 1999.

Annex 1

Monitoring stations reporting to CAMP in 2015

Table A.1.1: Details of locations of monitoring stations with coordinates and corresponding OSPAR region.

Country	Station number	Station name	OSPAR Region	Lat.	Long.	masl
Iceland	IS0002R	Irafoss	I	64º 05' N	21º 01' E	66 m
Norway	NO0001R	Birkenes	II	58º 23' N	8º 15' E	190 m
	NO0039R	Kårvatn	I	62º 47' N	8º 53' E	210 m
	NO0042G	Zeppelin	I	78º54’ N	11º53’ E	475 m
	NO0090R	Andøya	I	69º16’ N	16º0’ E	380 m
	NO0554R	Haukeland	II	60°49' N	5°35' E	190 m
	NO0572R	Vikedal	II	59°32'N	5°58' E	60 m
	NO0655R	Nausta	II	61°35' N	5°54' E	230 m
Belgium	BE0014R	Koksijde	II	51°7' N	2°39' E	7 m
	BE0011R	Moerkerke	II	51°15’’N	3°21’’E	3 m
	BE0013R	Houtem	II	51°1’’N	2°35’’E	2 m
Netherlands	NL0007R	Eibergen	II	52°05'N	6°34E	20 m
	NL0008R	Bilthoven	II	52°07'N	5°12N	5 m
	NL0009R	Kollumerwaard	II	53º 20' N	6º 16' E	1 m
	NL0010R	Vredepeel	II	51°32'N	5°51E	28 m
	NL0091R	De Zilk	II	52º 18' N	4º 30' E	4 m
	NL0644R	Cabauw	II	51°58’N	4°55’E	1 m
Germany	DE0001R	Westerland	II	54º 56' N	8 º 19' E	12 m
Denmark	DK0003R	Tange	II	56°21'N	9°36'E	13 m
	DK0005R	Keldsnor	II	54º44’N	10º44’E	19 m
	DK0008R	Anholt	II	56º43’N	11º31’E	40 m
	DK0012R	Risø	II	55°41'N	12°05'E	3 m
	DK0022R	Sepstrup Sande	II	55º5’N	9º36’E	60 m
	DK0031R	Ulborg	II	56º17’N	8º26’E	10 m
Sweden	SE0014R	Råö	II	57º24' N	11º55' E	5 m
United Kingdom	GB0006R	Lough Navar	III	54º26’ N	7º54 W	126 m
	GB0013R	Yarner Wood	II	50º36’ N	3º43 W	119 m
	GB0014R	High Muffles	II	54º20' N	0º48' W	267 m
	GB0015R	Strath Vaich Dam	II	57º44' N	4º46’ W	270 m
	GB0017R	Heigham Holmes	II	52°43'N	01°37’E	-
	GB0036R	Harwell	II	51º34' N	1º19’ W	137 m
	GB0048R	Auchencorth Moss	II	55º47' N	3º14’ W	260 m
	GB0054R	Glen Saugh	II	56°54'N	02°33'W	85 m
Ireland	IE0001R	Valentia Observ.	III	51º56' N	10º15' W	11 m
France	FR0090R	Porspoder	II	48º31N	4º45’W	50 m
Portugal	PT0006R	Alfragide	IV	38º44'N	9º12' W	109 m
	PT0004R	Monte Velho	IV	38º05'N	8º48' W	43 m
Spain	ES0005R	Noya	IV	42º44'N	8º55' W	683 m
	ES0008R	Niembro	IV	43º27'N	4º51' W	134 m
	ES0017R	Doñana	IV	37º2'N	6º20' W	5 m

Table A.1.2: Responsible CAMP institutes and contact persons.

Country	**Institute**	**Data reporter**
Country	**Institute**	**Data reporter**
Belgium	Flemish Environment Agency	Elke Adriaenssens
Denmark	Department of Environmental Science, Aarhus University	Thomas Ellermann, Rune Keller
France	Université de Bretagne	Matthieu Waeles
Germany	Umweltbundesamt, Langen	Elke Bieber
Great Britain	AEA Technology and	Keith Vincent
	Centre for Ecology and Hydrology (CEH), Edinburgh	David S. Leaver
Iceland	The Icelandic Meteorological Office	Arni Sigurdsson
Ireland	Environmental Protection Agency	Micheál O'Dwyer
Netherlands	National Institute for Public Health and Environmental Protection (RIVM)	Rob Zwartjes, Hans Berkhout
Norway	Norwegian Institute for Air Research (NILU)	Marit Vadset, Wenche Aas
Portugal	The Portugese Air Quality reference Laboratory	João Matos, Susana Casimiro
Spain	Ministerio de Agrilcultura, Alimentación y Medio Ambiente	Alberto Orío-Hernández
Sweden	IVL Swedish Environmental Research Institute	Karin Sjöberg, Ingvar Wängberg

Annex 2

Monthly and annual means of reported components.

Table A.2.1 : Nitrate and ammonium concentrations in precipitation, 2015

Site	Comp	Unit	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sept		Oct		Nov		Dec		2015	
			conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt
BE0014R	ammonium	mgN/L	0.19	100	0.3533	100	0.3952	98	0.7062	100	0.7174	100	0.3354	100	0.6608	100	0.6146	100	0.4068	100	0.6058	100	0.2481	100	0.4781	100	0.44	100
DE0001R	ammonium	mgN/L	0.5451	100	0.7404	68	1.2446	92	0.8397	100	1.162	100	1.0245	100	0.4647	100	0.7501	100	0.4061	100	0.9169	100	0.3007	100	0.2829	100	0.62	98
DK0005R	ammonium	mgN/L	0.2704	100	0.8898	99	0.4141	100	1.1947	100	1.0575	100	1.0509	100	0.6393	100	1.1267	79	0.7288	100	0.5913	100	0.2601	100	0.2202	100	0.59	98
DK0008R	ammonium	mgN/L	-	0	0.495	100	1.2899	97	0.8446	100	0.7839	100	0.843	95	0.4606	80	0.2104	100	0.2163	100	0.556	100	0.191	100	0.1563	100	0.43	96
DK0012R	ammonium	mgN/L	0.3254	100	0.7407	100	0.8707	96	0.551	5	0.5648	46	0.9364	100	0.4741	100	0.9568	49	0.3678	99	0.8774	35	0.5825	100	0.1822	100	0.51	85
DK0022R	ammonium	mgN/L	-	0	-	0	-	0	1.1247	100	0.5656	100	0.6896	100	0.3931	100	0.7186	100	0.2957	100	0.7507	100	0.2639	100	0.2144	100	0.45	76
ES0005R	ammonium	mgN/L	0.0323	100	0.0323	100	0.0416	100	0.1112	100	0.0339	100	0.225	100	0.0434	97	0.0489	100	0.0747	100	0.1331	100	0.1283	100	0.2025	100	0.09	100
ES0008R	ammonium	mgN/L	0.1072	100	0.1096	100	0.6297	100	0.4147	100	0.2911	100	0.8538	100	0.2904	100	0.3922	100	0.3043	99	0.3431	100	0.1475	100	0.5834	98	0.32	100
ES0017R	ammonium	mgN/L	0.0306	99	0.3304	82	0.172	100	0.2206	96	-	0	-	0	-	0	-	0	0.14	85	0.1165	99	0.1291	99	0.07	100	0.12	99
GB0006R	ammonium	mgN/L	0.0782	100	0.136	100	0.0979	100	0.1245	100	0.1509	100	0.061	100	0.0876	100	0.0297	100	0.422	100	0.3342	100	0.0082	100	0.0522	100	0.10	100
GB0013R	ammonium	mgN/L	0.126	100	0.2025	100	0.4629	100	0.3499	100	0.2957	100	0.6756	100	0.2327	100	0.4923	100	0.2593	100	0.3493	100	0.1493	100	0.1769	100	0.27	100
GB0014R	ammonium	mgN/L	0.4099	100	0.6121	100	1.5722	100	0.5156	100	0.4919	100	0.591	100	0.6702	100	0.9611	100	0.4178	100	0.5456	100	0.2873	100	0.3285	100	0.51	100
GB0015R	ammonium	mgN/L	0.0484	100	0.0256	100	0.0582	100	0.1376	100	0.0486	100	0.0666	100	0.1125	100	0.2458	100	0.1131	100	0.05	100	0.0034	100	0.0902	100	0.06	100
GB0036R	ammonium	mgN/L	0.1814	100	0.2534	100	1.3947	100	0.6794	100	0.3831	100	0.7378	100	0.6158	100	0.2889	100	-	0	0.2658	100	0.219	100	0.2499	100	0.37	100
GB0048R	ammonium	mgN/L	0.122	73	0.1962	99	0.2956	100	0.4035	100	0.2182	100	0.4373	100	0.2761	100	0.4473	100	0.2433	99	0.4443	100	0.1061	100	0.0759	100	0.21	97
GB0054R	ammonium	mgN/L	0.33	100	1.4894	100	1.0825	100	0.544	100	0.5508	100	0.2254	100	0.3837	100	0.4363	100	0.728	100	0.5443	100	0.3191	100	0.233	100	0.47	100
IE0001R	ammonium	mgN/L	0.0362	100	0.0916	100	0.0379	99	0.1336	98	0.0951	100	0.0949	99	0.0375	100	0.054	99	0.024	99	0.0298	100	0.0346	100	0.0205	100	0.05	100
NL0091R	ammonium	mgN/L	0.2334	99	0.3769	99	0.7352	97	0.7397	87	0.7142	97	0.9975	93	0.4343	97	0.7208	100	0.2915	100	0.4391	90	0.1435	99	0.4424	93	0.42	98
NO0001R	ammonium	mgN/L	0.1414	99	0.7005	100	0.2984	99	0.8096	99	0.2406	100	0.3131	98	0.0878	100	0.3484	100	0.2907	100	0.4289	99	0.1202	100	0.2203	100	0.28	100
NO0039R	ammonium	mgN/L	0.0336	100	0.1119	100	0.0358	100	0.1348	100	0.1359	100	0.2479	100	0.0758	97	0.0378	97	0.0552	100	0.0862	100	0.0399	100	0.0391	100	0.09	99
NO0554R	ammonium	mgN/L	0.077	100	0.0766	100	0.0605	100	0.2519	100	0.0954	100	0.1184	100	0.1216	100	0.1855	100	0.0203	100	0.0413	100	0.0359	100	0.0741	100	0.08	100
NO0572R	ammonium	mgN/L	0.1673	100	0.2355	100	0.3554	100	0.3323	100	0.3251	100	0.4062	100	0.4076	100	0.3562	100	0.0688	100	0.2147	100	0.0925	100	0.1486	100	0.22	100
NO0655R	ammonium	mgN/L	0.1459	100	0.1036	100	0.0641	100	0.3036	100	0.2234	76	0.197	98	0.1145	100	0.2423	100	0.16	100	0.1015	100	0.0807	100	0.0848	78	0.13	93
PT0004R	ammonium	mgN/L	0.1009	100	0.4645	100	0.3099	100	0.3423	100	-	0	0.1707	34	0.1707	100	0.1707	100	0.1169	100	0.1097	100	0.1785	98	0.1009	100	0.17	99
PT0006R	ammonium	mgN/L	0.1009	100	0.2071	100	0.218	100	0.2479	100	-	0	0.1009	99	-	0	-	0	0.1164	93	0.1589	100	0.1449	100	0.1009	100	0.15	99
SE0014R	ammonium	mgN/L	0.3136	100	1.0176	99	1.4628	100	1.3448	100	0.623	100	0.3068	100	0.1869	99	0.2902	97	0.227	100	1.1416	89	0.2708	99	0.2792	100	0.44	99
BE0014R	nitrate	mgN/L	0.1731	100	0.2297	100	0.2168	98	0.2746	100	0.3465	100	0.2822	100	0.3581	100	0.3646	100	0.2384	100	0.531	100	0.1759	100	0.2286	100	0.27	100
DE0001R	nitrate	mgN/L	0.548	100	0.7358	68	0.6874	92	0.3883	100	0.6564	100	0.6178	100	0.2715	100	0.3893	100	0.2927	100	0.6421	100	0.2934	100	0.3365	100	0.43	98
DK0005R	nitrate	mgN/L	0.3607	100	0.6732	99	0.2358	100	0.6446	100	0.6118	100	0.5276	100	0.3579	100	0.5377	79	0.4517	100	0.617	100	0.2623	100	0.2749	100	0.41	98
DK0008R	nitrate	mgN/L	-	-	0.521	100	0.6858	97	0.5641	100	0.574	100	0.56	95	0.2271	80	0.3424	100	0.3445	100	0.7286	100	0.1956	100	0.2946	100	0.37	96
DK0012R	nitrate	mgN/L	0.4621	100	0.6136	100	0.5036	100	0.3859	100	0.4358	46	0.5469	100	0.1365	100	0.467	45	0.287	36	0.3322	100	0.1942	100	0.2291	100	0.34	85
DK0022R	nitrate	mgN/L	-	-	-	-	-	-	0.8197	100	0.3879	100	0.4763	100	0.2843	100	0.5366	100	0.2886	100	0.7766	43	0.3255	100	0.2877	100	0.38	73
ES0005R	nitrate	mgN/L	0.0485	100	0.0794	100	0.0628	100	0.1417	100	0.0859	100	0.2519	100	0.0965	99	0.0782	100	0.0571	100	0.1683	100	0.1272	100	0.2274	100	0.12	100
ES0008R	nitrate	mgN/L	0.4831	98	0.5027	100	0.4896	100	0.4953	100	0.5953	100	1.112	100	0.6139	100	0.6298	100	0.4895	100	0.4973	100	0.2625	100	0.5834	100	0.52	100
ES0017R	nitrate	mgN/L	0.04	99	0.1704	82	0.1725	100	0.1931	96	-	-	0.18	100	-	-	-	-	0.2	85	0.1305	100	0.1244	99	0.1943	100	0.13	99
GB0006R	nitrate	mgN/L	0.0176	100	0.0465	100	0.0233	100	0.0746	100	0.0691	100	0.0531	100	0.0332	100	0.0305	100	0.2256	100	0.1633	100	0.0174	100	0.0488	100	0.05	100
GB0013R	nitrate	mgN/L	0.0517	100	0.0776	100	0.258	100	0.3579	100	0.2536	100	0.45	100	0.1529	100	0.288	100	0.2271	100	0.216	100	0.1316	100	0.2456	100	0.21	100
GB0014R	nitrate	mgN/L	0.2908	100	0.4276	100	0.7485	100	0.3203	100	0.2786	100	0.5145	100	0.3625	100	0.3896	100	0.3122	100	0.4296	100	0.1752	100	0.2301	100	0.31	100
GB0015R	nitrate	mgN/L	0.0167	100	0.0188	100	0.0349	100	0.1099	100	0.0486	100	0.0899	100	0.0988	100	0.2052	100	0.1154	100	0.0988	100	0.0155	100	0.0154	100	0.05	100
GB0036R	nitrate	mgN/L	0.1189	100	0.1621	100	0.6728	100	0.2753	100	0.2526	100	0.5991	100	0.324	100	0.1869	100	-	-	0.1958	100	0.1154	100	0.2064	100	0.23	100
GB0048R	nitrate	mgN/L	0.0383	73	0.0773	99	0.13	100	0.1584	100	0.1073	100	0.1322	100	0.1712	100	0.2281	100	0.1224	99	0.1924	100	0.0423	100	0.0342	100	0.10	97
GB0054R	nitrate	mgN/L	0.34	100	1.514	100	0.6777	100	0.5025	100	0.4285	100	0.1624	100	0.2844	100	0.3003	100	0.6364	100	0.5258	100	0.2984	100	0.3166	100	0.41	100
IE0001R	nitrate	mgN/L	0.6004	100	0.5909	100	0.2213	99	0.3289	98	0.158	100	0.1307	99	0.0955	100	0.1116	99	0.0627	99	0.1145	100	0.4278	100	0.325	100	0.29	100

Site	Comp	Unit	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sept		Oct		Nov		Dec		2015	
			conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt
IS0002R	nitrate	mgN/L	0.0112	99	0.0111	99	0.021	76	0.1192	100	0.0342	100	0.1101	98	0.0286	100	0.0359	100	0.0127	100	0.0206	100	0.0056	100	0.01	100	0.03	97
NL0091R	nitrate	mgN/L	0.232	99	0.336	99	0.4368	98	0.464	93	0.3389	99	0.6981	97	0.3367	99	0.3577	100	0.2369	100	0.4132	90	0.173	99	0.3061	98	0.29	99
NO0001R	nitrate	mgN/L	0.227	99	0.6928	100	0.2535	99	0.6446	99	0.2303	100	0.2307	98	0.1134	100	0.2754	100	0.2416	100	0.6024	99	0.2232	100	0.3409	100	0.29	100
NO0039R	nitrate	mgN/L	0.0408	100	0.0568	100	0.0644	100	0.1137	100	0.1995	100	0.0909	100	0.0703	99	0.0672	100	0.0941	100	0.1055	100	0.096	100	0.0441	100	0.08	100
NO0554R	nitrate	mgN/L	0.0609	100	0.1073	100	0.0701	100	0.1986	100	0.0973	100	0.1209	100	0.1441	100	0.2163	100	0.1203	100	0.1119	100	0.0403	100	0.1169	100	0.10	100
NO0572R	nitrate	mgN/L	0.0835	100	0.1773	100	0.1965	100	0.2149	100	0.157	100	0.2405	100	0.1835	100	0.2707	100	0.1046	100	0.2265	100	0.0608	100	0.1464	100	0.15	100
NO0655R	nitrate	mgN/L	0.0414	100	0.0887	100	0.0716	100	0.1401	100	0.1067	76	0.1057	98	0.1417	100	0.2263	100	0.1	100	0.0849	100	0.0329	100	0.0562	78	0.08	93
PT0004R	nitrate	mgN/L	0.226	100	1.0212	98	3.4613	99	0.2606	100	-	-	0.3616	34	0.3616	100	0.3616	100	0.342	100	0.2474	100	0.2712	98	0.3564	100	0.41	99
PT0006R	nitrate	mgN/L	0.226	100	0.4261	100	3.9914	100	0.8873	100	-	-	-	-	-	-	-	-	0.2712	93	0.3024	100	0.2367	100	0.226	100	0.53	95
SE0014R	nitrate	mgN/L	0.3404	100	0.7291	99	0.7041	100	0.5483	100	0.4152	100	0.2362	100	0.155	99	0.1645	97	0.2977	100	0.8751	98	0.3237	100	0.3506	100	0.36	100
BE0014R	precipitation	mm'	108	100	45	100	32	100	25	100	37	100	29	100	66	100	124	100	115	100	39	100	114	100	49	100	781	100
DE0001R	precipitation	mm'	70	100	34	100	67	100	27	100	71	100	32	100	74	100	105	100	105	100	35	100	134	100	105	91	859	99
DK0005R	precipitation	mm'	80	96	22	100	37	98	9	52	53	100	27	100	83	100	54	100	37	100	31	100	46	50	98	98	578	91
DK0008R	precipitation	mm'	-	0	21	49	21	100	16	100	57	100	25	100	76	100	14	48	88	100	7	100	83	100	60	98	469	83
DK0012R	precipitation	mm'	79	94	25	49	24	100	26	100	56	100	31	98	30	54	41	100	49	100	15	100	107	100	80	98	563	91
DK0022R	precipitation	mm'	80	96	22	100	37	98	9	52	53	100	27	100	83	100	54	100	37	100	31	100	46	50	98	98	578	91
ES0005R	precipitation	mm'	275	100	225	100	100	100	167	100	180	100	21	100	39	100	166	100	153	100	257	100	103	100	303	100	1987	100
ES0008R	precipitation	mm'	104	100	259	100	175	100	56	100	42	100	51	100	52	100	62	100	50	100	115	100	120	100	23	100	1108	100
ES0017R	precipitation	mm'	66	100	6	100	44	100	25	100	0	100	1	100	0	100	0	100	3	100	115	100	55	100	31	100	345	100
GB0006R	precipitation	mm'	142	100	122	100	139	100	121	100	155	100	56	100	145	100	129	100	45	100	89	100	274	100	304	100	1720	100
GB0013R	precipitation	mm'	54	85	9	66	24	100	34	100	70	100	6	100	84	100	118	100	86	100	55	100	120	100	136	100	796	96
GB0014R	precipitation	mm'	19	56	43	100	14	79	29	75	74	100	32	100	72	100	58	100	92	100	60	100	138	100	124	100	754	92
GB0015R	precipitation	mm'	200	100	127	100	140	100	73	100	162	100	84	100	87	100	39	100	27	100	44	100	218	100	154	100	1354	100
GB0036R	precipitation	mm'	60	100	44	100	20	100	25	100	54	100	16	100	11	100	32	100	0	100	47	100	53	100	59	100	420	100
GB0048R	precipitation	mm'	111	100	44	100	76	100	36	100	80	100	44	100	135	100	57	100	24	100	30	100	176	100	194	100	1008	100
GB0054R	precipitation	mm'	13	34	22	100	61	100	37	100	76	100	61	100	112	100	101	100	45	100	92	100	106	100	178	100	904	94
IE0001R	precipitation	mm'	243	99	136	96	180	100	75	100	177	100	104	100	160	100	179	100	167	100	140	100	270	100	464	100	2295	100
IS0002R	precipitation	mm'	169	99	168	100	244	100	125	100	114	100	53	100	45	100	125	100	260	100	292	100	159	100	137	100	1890	100
NL0091R	precipitation	mm'	90	100	53	100	40	100	12	100	41	100	12	100	68	100	129	100	127	100	24	100	157	100	39	97	792	100
NO0001R	precipitation	mm'	259	100	128	100	100	100	40	100	156	100	98	100	165	100	221	100	552	100	100	100	147	100	207	100	2173	100
NO0039R	precipitation	mm'	152	100	87	96	122	100	119	100	90	100	144	100	151	100	63	100	128	100	46	100	98	100	142	94	1343	99
NO0554R	precipitation	mm'	582	100	396	100	481	100	178	100	315	90	180	100	179	100	265	100	118	100	243	100	598	100	789	100	4324	99
NO0572R	precipitation	mm'	551	97	330	100	318	100	93	77	172	90	138	100	134	100	234	100	133	100	127	100	484	100	570	100	3283	97
NO0655R	precipitation	mm'	288	77	220	75	268	100	149	77	248	90	145	100	140	100	56	75	13	23	116	64	404	77	486	100	2533	80
PT0004R	precipitation	mm'	61	60	12	100	11	100	32	100	0	100	4	100	3	100	3	100	11	100	77	100	64	100	35	100	310	97
PT0006R	precipitation	mm'	130	63	18	100	23	100	60	100	0	100	19	100	1	100	1	100	14	100	89	100	47	100	72	100	475	97
SE0014R	precipitation	mm'	124	100	29	100	51	100	10	100	77	100	62	100	40	100	49	100	111	100	6	100	110	100	72	100	740	100

Table A.2.2 : Wet deposition of nitrogen, 2015

Site	Comp	Unit	Jan	Febr	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	2015	tot N
BE0014R	ammonium	mgN/m2	21	16	12	17	27	10	43	76	47	24	28	23	344	556
BE0014R	nitrate	mgN/m2	19	10	7	7	13	8	24	45	27	21	20	11	212	
DE0001R	ammonium	mgN/m2	38	25	83	18	82	33	34	79	43	32	40	30	533	902
DE0001R	nitrate	mgN/m2	38	25	46	10	47	20	20	41	31	23	39	35	370	
DK0005R	ammonium	mgN/m2	22	19	16	11	56	29	53	61	27	18	12	22	338	575
DK0005R	nitrate	mgN/m2	29	15	9	6	32	14	30	29	17	19	12	27	237	
DK0008R	ammonium	mgN/m2	-	10	27	13	44	21	35	3	19	4	16	9	202	376
DK0008R	nitrate	mgN/m2	-	11	15	9	32	14	17	5	30	5	16	18	174	
DK0012R	ammonium	mgN/m2	26	18	21	14	32	29	14	40	18	13	62	15	285	478
DK0012R	nitrate	mgN/m2	36	15	12	10	24	17	4	19	14	5	21	18	193	
DK0022R	ammonium	mgN/m2	-	-	-	10	30	19	33	39	11	23	12	21	261	*477*
DK0022R	nitrate	mgN/m2	-	-	-	7	21	13	24	29	11	24	15	28	217	
ES0005R	nitrate	mgN/m2	13	18	6	24	15	5	4	13	9	43	13	69	233	412
ES0005R	ammonium	mgN/m2	9	7	4	19	6	5	2	8	11	34	13	61	180	
ES0008R	nitrate	mgN/m2	50	130	86	28	25	57	32	39	24	57	32	13	573	926
ES0008R	ammonium	mgN/m2	11	28	110	23	12	43	15	24	15	39	18	13	353	
ES0017R	nitrate	mgN/m2	2.6	1.0	7.6	4.8	-	0.1	-	-	0.5	15.0	6.8	6.0	45	84
ES0017R	ammonium	mgN/m2	2.0	2.0	7.5	5.5	-	-	-	-	0.4	13.4	7.1	2.2	40	
GB0006R	nitrate	mgN/m2	2	6	3	9	11	3	5	4	10	15	5	15	87	253
GB0006R	ammonium	mgN/m2	11	17	14	15	23	3	13	4	19	30	2	16	166	
GB0013R	nitrate	mgN/m2	3	1	6	12	18	3	13	34	19	12	16	33	170	387
GB0013R	ammonium	mgN/m2	7	2	11	12	21	4	20	58	22	19	18	24	218	
GB0014R	nitrate	mgN/m2	6	18	11	9	21	16	26	22	29	26	24	28	236	618
GB0014R	ammonium	mgN/m2	8	26	23	15	36	19	48	55	38	33	40	41	382	
GB0014R	nitrate	mgN/m2	8	18	11	9	21	16	26	22	29	26	24	28	239	628
GB0014R	ammonium	mgN/m2	16	26	23	15	36	19	48	55	38	33	40	41	389	
GB0015R	nitrate	mgN/m2	3	2	5	8	8	8	9	8	3	4	3	2	64	147
GB0015R	ammonium	mgN/m2	10	3	8	10	8	6	10	9	3	2	1	14	84	

Site	Comp	Unit	Jan	Febr	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	2015	tot N
GB0036R	nitrate	mgN/m2	7	7	14	7	14	10	3	6	-	9	6	12	95	249
GB0036R	ammonium	mgN/m2	11	11	28	17	21	12	7	9	-	13	12	15	154	
GB0048R	nitrate	mgN/m2	4	3	10	6	9	6	23	13	3	6	7	7	98	313
GB0048R	ammonium	mgN/m2	14	9	23	15	17	19	37	25	6	13	19	15	214	
GB0054R	nitrate	mgN/m2	4	34	42	19	32	10	32	30	28	48	32	56	368	792
GB0054R	ammonium	mgN/m2	4	33	66	20	42	14	43	44	33	50	34	41	424	
IE0001R	ammonium	mgN/m2	9	12	7	10	17	10	6	10	4	4	9	10	107	768
IE0001R	nitrate	mgN/m2	146	80	40	25	28	14	15	20	10	16	116	151	661	
IS0002R	nitrate	mgN/m2	2	2	5	15	4	6	1	4	3	6	1	1	51	
NL0091R	ammonium	mgN/m2	21	20	30	9	29	12	30	93	37	11	22	17	329	561
NL0091R	nitrate	mgN/m2	21	18	18	6	14	8	23	46	30	10	27	12	232	
NO0001R	nitrate	mgN/m2	59	89	25	25	36	22	19	61	133	60	33	70	633	1 248
NO0001R	ammonium	mgN/m2	37	90	30	32	37	31	15	77	161	43	18	46	614	
NO0039R	nitrate	mgN/m2	6	5	8	14	18	13	11	4	12	5	9	6	111	229
NO0039R	ammonium	mgN/m2	5	10	4	16	12	36	11	2	7	4	4	6	118	
NO0554R	nitrate	mgN/m2	35	43	34	35	31	22	26	57	14	27	24	92	440	804
NO0554R	ammonium	mgN/m2	45	30	29	45	30	21	22	49	2	10	21	58	364	
NO0572R	nitrate	mgN/m2	46	59	62	20	27	33	25	63	14	29	29	83	490	1 220
NO0572R	ammonium	mgN/m2	92	78	113	31	56	56	55	83	9	27	45	85	729	
NO0655R	nitrate	mgN/m2	12	20	19	21	26	15	20	13	1	10	13	27	198	525
NO0655R	ammonium	mgN/m2	42	23	17	45	55	28	16	14	2	12	33	41	327	
PT0004R	ammonium	mgN/m2	6	6	3	11	-	0.6	0.4	0.4	1.3	8	11	3	52	180
PT0004R	nitrate	mgN/m2	14	12	39	8	-	1.3	0.9	0.9	3.7	19	17	12	128	
PT0006R	ammonium	mgN/m2	13	4	5	15	-	1.9	-	-	1.6	14	7	7	69	319
PT0006R	nitrate	mgN/m2	29	8	90	53	-	-	-	-	3.8	27	11	16	250	
SE0014R	ammonium	mgN/m2	39	30	74	13	48	19	7	14	25	6	30	20	326	591
SE0014R	nitrate	mgN/m2	42	21	36	5	32	15	6	8	33	5	36	25	264	

Table A.2.3 : Concentrations of nitrogen compounds in air, 2015

				Jan		Febr		March		April		May		June		July		August		September		October		November		December		2015	
Site	Comp	matrix	Unit	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt
BE0011R	nitrogen_dioxide	air	µg N/m3	5.20	97	5.83	100	5.03	100	4.47	100	2.72	100	2.88	100	2.59	100	3.49	100	3.16	100	6.45	100	3.44	100	3.86	100	4.08	100
BE0013R	nitrogen_dioxide	air	µg N/m3	3.58	97	4.48	100	3.89	100	4.19	100	2.32	100	2.48	100	1.98	100	2.87	100	2.58	100	5.06	100	2.31	100	2.40	100	3.17	100
DE0001R	nitrogen_dioxide (monitor, hourly)	air	µg N/m3	2.43	96	2.45	96	1.73	96	0.97	96	0.82	96	0.68	95	0.72	95	1.30	87	1.13	95	2.42	96	2.36	95	2.81	95	1.65	95
DE0001R	nitrogen_dioxide (manual daily)	air	µg N/m3	2.55	77	2.79	100	2.31	100	1.43	100	1.19	87	1.10	100	1.21	100	1.79	100	1.63	100	2.67	100	3.15	93	3.12	97	2.07	96
DK0005R	nitrogen_dioxide	air	µg N/m3	8.21	95	9.93	93	8.42	95	6.42	48	3.91	72	4.87	65	4.43	94	8.11	94	6.06	95	9.78	50	8.58	95	9.55	95	7.43	83
DK0008R	nitrogen_dioxide	air	µg N/m3	2.99	7	8.98	33	6.17	94	4.09	92	2.68	87	3.04	80	3.59	92	3.48	89	2.93	69	4.20	91	6.70	76	5.40	91	4.40	75
DK0012R	nitrogen_dioxide	air	µg N/m3	10.50	95	11.08	95	9.97	93	5.23	92	4.22	89	4.11	79	3.61	93	5.95	95	6.25	92	9.62	95	10.24	95	9.72	94	7.60	92
ES0005R	nitrogen_dioxide	air	µg N/m3	0.54	97	0.46	96	0.57	95	0.60	99	0.51	94	0.77	92	0.74	99	0.79	66	0.96	97	1.16	59	0.73	91	1.04	96	0.73	90
ES0008R	nitrogen_dioxide	air	µg N/m3	1.64	95	1.25	98	1.73	99	1.28	99	0.65	99	0.82	98	1.11	98	1.07	99	1.79	90	2.60	99	2.57	95	1.88	90	1.53	97
ES0017R	nitrogen_dioxide	air	µg N/m3	0.32	93	0.22	99	0.41	99	0.27	99	0.31	96	0.50	99	0.54	99	0.58	98	0.71	98	0.76	99	0.79	99	1.18	99	0.55	98
GB0013R	nitrogen_dioxide	air	µg N/m3	0.86	100	1.41	94	1.91	100	1.99	100	0.84	100	0.85	99	0.64	95	1.01	98	1.12	98	1.76	100	1.07	99	0.81	100	1.19	99
GB0014R	nitrogen_dioxide	air	µg N/m3	2.28	96	2.70	90	1.63	100	1.63	100	0.86	87	0.76	98	0.90	99	1.32	96	1.04	98	2.29	100	2.48	99	1.62	42	1.62	92
IE0001R	nitrogen_dioxide	air	µg N/m3	1.20	100	2.31	100	2.53	100	2.53	100	0.92	94	1.23	100	1.02	98	1.42	99	1.12	81	4.35	99	1.73	100	2.25	100	1.90	98
NL0007R	nitrogen_dioxide	air	µg N/m3	5.20	100	5.37	98	4.19	99	2.84	100	2.69	89	2.69	99	3.03	100	3.30	100	2.77	97	5.15	100	4.45	99	4.76	99	3.88	98
NL0009R	nitrogen_dioxide	air	µg N/m3	3.72	100	3.73	97	2.43	99	2.09	100	1.76	98	1.60	95	1.31	100	1.77	100	1.85	99	3.50	100	3.23	99	4.17	100	2.59	99
NL0010R	nitrogen_dioxide	air	µg N/m3	6.29	100	6.72	99	5.70	100	4.37	100	4.13	99	3.88	95	3.81	97	4.28	99	3.70	100	6.62	100	5.03	84	4.75	100	4.94	98
NL0091R	nitrogen_dioxide	air	µg N/m3	5.71	100	6.09	99	5.12	99	4.08	100	2.92	99	2.77	97	3.01	95	3.99	91	3.38	99	6.56	99	4.73	99	6.08	99	4.55	98
NL0644R	nitrogen_dioxide	air	µg N/m3	6.93	100	7.52	100	5.98	99	4.65	94	3.51	94	3.26	88	3.33	97	4.09	100	4.13	97	7.03	90	5.42	87	5.98	99	5.16	96
NO0002R	nitrogen_dioxide	air	µg N/m3	0.34	100	0.67	100	0.30	100	0.19	97	0.26	100	0.22	100	0.25	100	0.28	100	0.16	100	0.27	100	0.37	100	0.27	100	0.30	100
NO0039R	nitrogen_dioxide	air	µg N/m3	0.20	100	0.19	100	0.08	100	0.07	100	0.09	100	0.13	100	0.12	100	0.20	100	0.04	100	0.06	100	0.07	100	0.04	100	0.11	100
SE0014R	nitrogen_dioxide	air	µg N/m3	0.97	100	1.48	100	1.18	100	1.02	100	0.78	100	0.91	100	0.82	100	0.61	100	0.65	100	0.65	100	1.10	100	1.15	91	0.94	99
DE0001R	nitrate	pm25	µg N/m3	0.35	16	1.58	18	0.77	16	0.25	17	0.10	16	0.16	17	0.10	19	0.27	16	0.40	17	1.24	16	0.23	17	0.19	16	0.46	17
ES0005R	nitrate	pm10	µg N/m3	0.05	57	0.12	86	0.35	90	0.24	83	0.15	90	0.17	97	0.13	97	0.09	100	0.12	87	0.08	90	0.09	93	0.22	33	0.15	84
ES0008R	nitrate	pm25	µg N/m3	0.02	16	0.02	18	0.07	16	0.02	17	0.01	16	0.01	17	0.00	16	0.00	16	0.01	17	0.02	16	0.01	17	0.02	16	0.02	0
ES0008R	nitrate	pm10	µg N/m3	0.20	100	0.22	100	0.49	100	0.48	97	0.20	100	0.27	97	0.18	100	0.26	100	0.28	100	0.37	100	0.23	100	0.25	100	0.29	99
ES0017R	nitrate	pm10	µg N/m3	0.41	97	0.27	100	0.37	100	0.50	100	0.50	97	0.47	94	0.42	99	0.51	100	0.51	97	0.34	94	0.41	100	0.66	97	0.45	98
GB0006R	nitrate	aerosol	µg N/m3	0.05	95	0.14	100	0.14	1.3	0.17	89	0.11	100	0.09	100	0.10	100	0.07	100	0.04	100	0.00	100	0.00	11	0.05	86	0.08	82
GB0013R	nitrate	aerosol	µg N/m3	-	0	-	0	0.34	93	0.24	100	0.12	100	0.23	100	0.17	100	0.03	100	0.09	100	0.28	100	0.09	100	0.20	100	0.18	83
GB0014R	nitrate	aerosol	µg N/m3	0.37	11	0.35	100	0.12	100	0.12	25	-	0	0.13	95	0.14	100	0.06	100	0.06	28	-	0	0.08	88	0.27	95	0.16	62
GB0048R	nitrate	pm10	µg N/m3	0.24	84	0.48	73	0.56	69	0.62	48	0.12	73	0.22	99	0.14	93	0.20	42	-	0	0.71	19	0.19	93	0.14	93	0.28	66
GB0048R	nitrate	pm25	µg N/m3	0.24	79	0.47	69	0.11	45	0.57	48	0.08	71	0.15	92	0.09	89	0.15	41	-	0	0.59	19	0.12	94	0.12	94	0.20	62

				Jan		Febr		March		April		May		June		July		August		September		October		November		December		2015	
Site	Comp	matrix	Unit	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt
GB0054R	nitrate	aerosol	µg N /m3	0.11	79	0.26	100	0.30	100	0.25	100	0.12	100	0.15	100	0.14	100	0.13	14	-	0	0.05	12	0.05	100	0.05	27	0.17	69
NL0091R	nitrate	pm10	µg N /m3	0.81	48	1.24	50	1.48	51	0.94	50	0.76	49	0.55	50	0.50	51	0.52	49	0.37	50	1.21	51	0.53	50	0.70	49	0.80	50
NO0002R	nitrate	aerosol	µg N /m3	0.29	100	0.39	93	0.19	82	0.39	89	0.32	100	0.21	100	0.23	100	0.30	84	0.11	100	0.45	100	0.14	100	0.17	100	0.27	96
NO0039R	nitrate	aerosol	µg N /m3	0.10	94	0.19	100	0.18	100	0.07	100	0.14	90	0.20	100	0.12	100	0.22	68	0.03	100	0.02	100	0.21	100	0.05	97	0.12	96
NO0042G	nitrate	aerosol	µg N /m3	0.02	94	0.41	86	0.15	94	0.19	86	0.09	94	0.07	97	0.09	100	0.06	100	0.03	100	0.04	100	0.02	90	0.03	97	0.09	95
PT0004R	nitrate	pm10	µg N /m3	0.39	13	0.09	11	0.47	16	0.34	10	0.46	10	0.36	13	0.20	10	0.26	10	0.17	7	0.21	16	0.50	10	0.78	6	0.35	11
PT0006R	nitrate	pm25	µg N /m3	-	0	0.29	4	0.14	6	0.20	7	0.06	3	0.06	5	0.06	8	0.08	13	0.08	13	0.06	3	-	0	NaN	0	0.10	5
GB0006R	nitric_acid	air	µg N /m3	0.02	95	0.03	100	0.03	100	0.02	100	0.03	100	0.02	100	0.02	100	0.01	100	0.02	100	0.02	100	0.02	11	0.01	86	0.02	91
GB0013R	nitric_acid	air	µg N /m3	-	0	-	0	0.07	93	0.01	100	0.02	100	0.04	100	0.06	100	0.03	100	0.06	100	0.08	100	0.02	100	0.02	100	0.04	83
GB0014R	nitric_acid	air	µg N /m3	0.06	11	0.06	100	0.04	100	0.04	25	-	0	0.04	95	0.03	100	0.04	100	0.04	28	0.06	79	0.03	100	0.04	95	0.04	69
GB0048R	nitric_acid	air	µg N /m3	0.02	84	0.03	63	0.03	71	0.04	48	0.02	76	0.03	99	0.02	93	0.02	42	-	0	0.03	19	0.01	94	0.01	94	0.02	66
GB0054R	nitric_acid	air	µg N /m3	0.02	79	0.03	100	0.02	100	0.01	100	0.02	100	0.05	100	0.03	100	0.03	14	0.05	70	0.02	12	0.02	100	0.03	100	0.03	81
NO0002R	nitric_acid	air	µg N /m3	0.04	100	0.07	93	0.03	82	0.06	89	0.05	100	0.07	77	0.10	100	0.10	84	0.02	100	0.03	100	0.03	100	0.02	100	0.05	94
NO0039R	nitric_acid	air	µg N /m3	0.02	93.55	0.02	100.00	0.02	100.00	0.01	100.00	0.02	90.32	0.03	100.00	0.05	100.00	0.03	67.74	0.01	100.00	0.01	100.00	0.01	100.00	0.01	96.77	0.02	95.62
NO0042G	nitric_acid	air	µg N /m3	0.01	94	0.05	89	0.01	94	0.02	86	0.01	94	0.02	97	0.05	100	0.03	100	0.01	100	0.04	100	0.01	90	0.03	90	0.02	95
DK0003R	sum_nitric_acid_and_nitrate	air+aerosol	µg N /m3	0.55	100	0.98	100	0.87	100	0.63	100	0.50	100	0.41	100	0.44	100	0.53	100	0.43	97	0.82	100	0.68	81	0.64	93	0.62	98
DK0008R	sum_nitric_acid_and_nitrate	air+aerosol	µg N /m3	0.44	90	1.00	93	0.84	100	0.67	100	0.53	100	0.44	97	0.52	100	0.59	97	0.41	100	0.60	100	0.66	100	0.60	100	0.60	98
DK0012R	sum_nitric_acid_and_nitrate	air+aerosol	µg N /m3	0.82	100	1.33	100	1.27	100	0.92	100	0.62	100	0.52	100	0.50	100	0.72	97	0.58	93	1.01	100	0.90	100	0.86	97	0.84	99
ES0005R	sum_nitric_acid_and_nitrate	air+aerosol	µg N /m3	0.19	83	0.22	100	0.36	100	0.42	97	0.24	85	0.16	96	0.18	97	0.20	100	0.20	100	0.16	100	0.14	100	0.15	97	0.22	96
ES0008R	sum_nitric_acid_and_nitrate	air+aerosol	µg N /m3	0.41	100	0.37	100	1.05	100	0.66	100	0.46	100	0.56	93	0.39	100	0.48	100	0.39	100	0.61	100	0.49	100	0.42	100	0.53	99
ES0017R	sum_nitric_acid_and_nitrate	air+aerosol	µg N /m3	0.71	100	0.29	100	0.51	100	0.62	100	0.63	97	0.59	98	0.52	99	0.61	100	0.65	100	0.51	100	0.55	100	0.88	100	0.59	99
GB0006R	sum_nitric_acid_and_nitrate	air+aerosol	µg N /m3	0.07	95	0.17	100	0.18	100	0.19	100	0.14	100	0.11	100	0.12	100	0.08	100	0.06	100	0.02	100	0.02	11	0.06	86	0.10	91
GB0013R	sum_nitric_acid_and_nitrate	air+aerosol	µg N /m3	-	0	-	0	0.40	93	0.26	100	0.14	100	0.27	100	0.22	100	0.06	100	0.14	100	0.36	100	0.11	100	0.23	100	0.22	83
GB0014R	sum_nitric_acid_and_nitrate	air+aerosol	µg N /m3	0.43	11	0.40	100	0.17	100	0.17	25	-	0	0.17	95	0.17	100	0.10	100	0.10	28	-	0	0.11	100	0.31	95	0.20	69
GB0048R	sum_nitric_acid_and_nitrate	air+aerosol	µg N /m3	0.26	84	0.51	63	0.58	71	0.66	48	0.13	76	0.24	99	0.16	93	0.22	42	-	0	-	19	0.20	94	0.15	94	0.30	66
GB0054R	sum_nitric_acid_and_nitrate	air+aerosol	µg N /m3	0.14	79	0.29	100	0.31	100	0.27	100	0.13	100	0.20	100	0.17	100	0.16	14	-	0	0.07	12	0.07	100	0.08	100	0.19	81
IE0001R	sum_nitric_acid_and_nitrate	air+aerosol	µg N /m3	1.05	97	0.43	50	0.47	94	0.23	80	0.21	79	0.27	59	0.07	81	0.27	66	0.28	37	0.41	47	0.19	71	0.19	65	0.36	69
NO0002R	sum_nitric_acid_and_nitrate	air+aerosol	µg N /m3	0.33	100	0.46	93	0.23	82	0.46	89	0.37	100	0.30	77	0.33	100	0.40	84	0.13	100	0.49	100	0.17	100	0.19	100	0.32	94
NO0039R	sum_nitric_acid_and_nitrate	air+aerosol	µg N /m3	0.11	94	0.20	100	0.20	100	0.08	100	0.16	90	0.23	100	0.17	100	0.25	68	0.05	100	0.03	100	0.22	100	0.06	97	0.14	96
NO0042G	sum_nitric	air+a	µg N	0.04	94	0.4	86	0.17	94	0.21	86	0.11	94	0.09	97	0.14	100	0.08	100	0.04	100	0.07	100	0.03	90	0.07	90	0.12	94

				Jan		Febr		March		April		May		June		July		August		September		October		November		December		2015	
Site	Comp	matrix	Unit	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt
	_acid_and_nitrate	aerosol	/m3			7																							
SE0014R	sum_nitric_acid_and_nitrate	air+aerosol	µg N/m3	0.29	97	0.75	100	0.64	100	0.48	100	0.40	100	0.37	97	0.39	100	0.40	98	0.25	96	0.37	100	0.48	100	0.48	100	0.44	99
BE0014R	ammonia	air	µg N/m3	0.77	100	1.34	100	2.98	100	2.29	100	1.95	100	1.76	100	2.20	100	2.79	100	2.11	100	1.88	100	1.89	8	1.92	99	2.00	92
DE0001R	ammonia	air	µg N/m3	0.66	100	1.10	100	2.81	100	2.16	100	2.48	100	1.70	100	1.90	100	2.38	100	3.64	100	2.47	100	1.13	100	0.55	91	1.93	99
DK0003R	ammonia	air	µg N/m3	0.37	100	0.50	100	1.49	100	1.82	100	0.67	100	0.80	100	1.03	100	1.30	100	0.62	100	0.59	94	0.38	78	0.26	93	0.83	97
DK0008R	ammonia	air	µg N/m3	0.03	87	0.09	86	0.26	97	0.36	100	0.21	100	0.20	97	0.26	100	0.36	97	0.13	100	0.15	100	0.07	100	0.06	100	0.18	97
DK0012R	ammonia	air	µg N/m3	0.15	100	0.48	100	1.41	100	1.59	100	0.71	100	0.64	100	0.65	100	1.22	97	0.63	100	0.56	100	0.23	100	0.26	97	0.71	99
ES0008R	ammonia	air	µg N/m3	0.56	87	0.62	86	0.69	84	0.77	87	0.37	87	0.42	83	0.27	87	0.37	85	0.42	86	0.77	87	0.75	84	0.69	86	0.56	86
GB0006R	ammonia	air	µg N/m3	0.06	95	0.19	100	0.22	100	0.11	100	0.26	100	1.15	100	0.79	100	0.70	100	0.11	100	0.29	100	0.33	11	0.12	86	0.37	91
GB0013R	ammonia	air	µg N/m3	-	0	-	0	0.77	93	0.11	100	0.34	100	0.45	100	0.38	100	0.37	100	0.37	100	0.48	100	0.15	100	0.16	100	0.36	83
GB0014R	ammonia	air	µg N/m3	0.27	11	0.35	100	1.14	100	1.14	25	-	0	0.72	95	0.64	100	0.75	100	0.75	28	0.29	79	0.30	100	0.44	95	0.61	69
GB0048R	ammonia	air	µg N/m3	0.51	84	0.70	63	0.92	71	1.16	48	0.52	76	1.02	99	0.82	93	1.15	42	-	0	1.16	19	0.54	94	0.53	85	0.76	65
GB0054R	ammonia	air	µg N/m3	0.10	79	0.16	100	0.28	100	0.36	100	0.15	100	0.28	100	0.34	100	0.35	14	-	0	0.11	12	0.11	100	0.09	100	0.21	75
NL0091R	ammonia	air	µg N/m3	0.44	84	1.63	94	3.28	95	0.98	90	1.17	82	1.80	84	2.09	86	3.57	94	1.18	93	2.07	95	1.20	94	1.20	91	1.74	90
NO0002R	ammonia	air	µg N/m3	0.11	100	0.10	93	0.20	82	0.23	89	0.17	100	0.19	100	0.31	100	0.38	84	0.15	100	0.11	100	0.09	100	0.07	100	0.17	96
NO0039R	ammonia	air	µg N/m3	0.52	94	0.46	100	0.74	100	0.32	100	0.32	90	0.36	100	0.73	100	0.47	68	0.21	100	0.15	100	0.12	100	0.16	94	0.38	95
NO0042G	ammonia	air	µg N/m3	0.03	94	0.21	86	0.09	94	0.11	86	0.07	94	0.11	97	0.18	100	0.25	100	0.15	100	0.06	100	0.08	90	0.03	1	0.12	87
DE0001R	ammonium	pm25	µg N/m3	0.48	16	2.24	18	1.07	16	0.35	17	0.20	16	0.36	17	0.46	19	0.58	16	0.75	17	2.06	16	0.26	17	0.23	16	0.75	17
DK0003R	ammonium	aerosol	µg N/m3	0.71	100	1.36	100	1.02	100	0.73	100	0.56	100	0.58	100	0.58	94	0.51	100	0.58	93	1.15	100	0.78	84	0.66	93	0.77	97
DK0008R	ammonium	aerosol	µg N/m3	0.46	87	1.27	86	0.93	97	0.71	100	0.49	100	0.44	97	0.47	100	0.48	100	0.48	100	0.75	100	0.77	100	0.55	100	0.64	97
DK0012R	ammonium	aerosol	µg N/m3	0.84	100	1.57	100	1.44	100	0.96	100	0.66	100	0.62	100	0.54	100	0.64	97	0.73	97	1.30	100	1.08	100	0.92	97	0.94	99
ES0008R	ammonium	pm25	µg N/m3	0.08	16	0.09	18	0.21	15	0.12	18	0.22	15	0.21	17	0.36	17	0.16	16	0.18	16	0.11	17	0.17	16	0.12	17	0.17	16
ES0008R	ammonium	pm10	µg N/m3	0.16	16	0.31	18	0.73	15	0.33	18	0.71	15	0.67	17	0.89	17	0.30	16	0.48	16	0.23	17	0.26	16	0.23	17	0.44	16
GB0006R	ammonium	aerosol	µg N/m3	0.05	95	0.18	100	0.19	1	-	0	0.13	95	0.18	100	0.16	100	0.16	100	0.38	100	0.25	100	0.23	11	0.16	86	0.18	74
GB0013R	ammonium	aerosol	µg N/m3	-	0	-	0	1.08	90	0.20	9	0.20	100	0.29	100	0.12	100	0.19	100	0.35	100	0.58	100	0.17	100	0.18	100	0.34	76
GB0014R	ammonium	aerosol	µg N/m3	0.53	11	0.50	100	0.23	100	0.23	25	-	0	0.09	95	0.15	100	0.26	100	0.26	28	0.18	79	0.10	100	0.33	95	0.24	69
GB0048R	ammonium	pm10	µg N/m3	0.34	82	0.79	65	0.74	58	0.75	43	0.23	68	0.44	89	0.31	85	0.38	34	-	0	1.23	10	0.25	84	0.13	38	0.43	55
GB0048R	ammonium	pm25	µg N/m3	0.34	78	0.78	65	0.17	45	0.80	48	0.19	66	0.41	85	0.27	80	0.33	34	-	0	0.79	10	0.19	91	0.11	37	0.36	53
GB0054R	ammonium	aerosol	µg N/m3	0.13	79	0.30	100	0.40	100	0.17	7	0.13	100	0.21	100	0.11	100	0.08	14	-	0	0.03	12	0.03	100	0.03	27	0.18	61
NL0091R	ammonium	pm10	µg N/m3	0.94	48	1.54	50	1.76	51	0.92	50	0.45	49	0.41	50	0.38	51	0.56	49	0.24	50	1.55	51	0.44	50	0.66	49	0.82	50
NO0002R	ammonium	aerosol	µg N/m3	0.32	100	0.49	93	0.21	82	0.46	89	0.27	100	0.23	100	0.25	100	0.27	84	0.17	100	0.30	100	0.12	100	0.15	100	0.27	96
NO0039R	ammonium	aerosol	µg N/m3	0.09	94	0.16	100	0.22	100	0.07	100	0.11	90	0.22	100	0.16	100	0.26	68	0.06	100	0.02	100	0.17	100	0.03	94	0.13	95
NO0042G	ammonium	aerosol	µg N/m3	0.02	94	0.41	86	0.13	94	0.24	86	0.09	94	0.06	97	0.08	100	0.05	100	0.02	100	0.02	100	0.02	90	0.04	90	0.09	94
PT0004R	ammonium	pm10	µg N	0.10	13	0.0	11	0.09	16	0.05	10	0.11	10	0.10	13	0.05	10	0.05	10	0.05	7	0.08	16	0.12	10	0.15	6	0.08	11

				Jan		Febr		March		April		May		June		July		August		September		October		November		December		2015	
Site	Comp	matrix	Unit	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt
			/m3			4																							
PT0006R	ammonium	pm25	µg N /m3	-	0	0.31	4	0.23	6	0.31	7	0.22	3	0.84	5	0.62	8	0.27	13	0.24	13	0.77	3	NaN	0	NaN	0	0.38	5
DE0001R	sum_ammonia_and_ammonium	air+pm25	µg N /m3	1.14	16	3.34	18	3.87	16	2.51	17	2.69	16	2.06	17	2.35	19	2.97	16	4.40	17	4.53	16	1.39	17	0.78	16	2.68	17
DK0003R	sum_ammonia_and_ammonium	air+aerosol	µg N /m3	1.08	100	1.85	100	2.50	100	2.55	100	1.23	100	1.38	100	1.60	94	1.80	100	1.20	93	1.75	100	1.16	84	0.92	93	1.60	97
DK0008R	sum_ammonia_and_ammonium	air+aerosol	µg N /m3	0.49	87	1.37	86	1.19	97	1.07	100	0.70	100	0.64	97	0.73	100	0.83	100	0.61	100	0.90	100	0.84	100	0.62	100	0.83	97
DK0012R	sum_ammonia_and_ammonium	air+aerosol	µg N /m3	0.99	100	2.05	100	2.84	100	2.55	100	1.37	100	1.26	100	1.19	100	1.86	97	1.36	97	1.86	100	1.31	100	1.18	97	1.65	99
ES0005R	sum_ammonia_and_ammonium	air+aerosol	µg N /m3	1.30	87	0.90	100	1.10	100	1.00	100	1.48	94	1.37	100	0.98	100	1.14	100	1.13	100	1.04	100	0.90	100	1.61	100	1.16	98
ES0008R	sum_ammonia_and_ammonium	air+aerosol	µg N /m3	1.07	100	1.09	100	1.77	100	1.65	100	1.40	75	1.28	66	1.53	100	1.30	100	1.21	100	1.63	100	1.33	100	1.42	100	1.40	95
ES0017R	sum_ammonia_and_ammonium	air+aerosol	µg N /m3	1.90	100	1.15	100	1.70	100	1.75	100	1.83	97	2.25	93	1.69	100	1.69	100	1.78	100	1.66	90	1.77	100	2.39	94	1.80	98
GB0006R	sum_ammonia_and_ammonium	air+aerosol	µg N /m3	0.10	95	0.38	100	0.41	1	-	0	0.39	95	1.33	100	0.95	100	0.86	100	0.49	100	0.54	100	0.56	11	0.28	86	0.55	74
GB0013R	sum_ammonia_and_ammonium	air+aerosol	µg N /m3	-	0	-	0	1.85	90	0.31	9	0.54	100	0.74	100	0.50	100	0.57	100	0.73	100	1.06	100	0.33	100	0.34	100	0.70	76
GB0014R	sum_ammonia_and_ammonium	air+aerosol	µg N /m3	0.80	11	0.85	100	1.38	100	1.38	25	-	0	0.81	95	0.79	100	1.01	100	1.01	28	0.47	79	0.39	100	0.77	95	0.84	69
GB0048R	sum_ammonia_and_ammonium	air+aerosol	µg N /m3	0.86	82	1.49	65	1.66	58	1.90	43	0.74	68	1.46	89	1.13	85	1.53	34	-	0	2.39	10	0.78	84	0.66	38	1.20	55
GB0054R	sum_ammonia_and_ammonium	air+aerosol	µg N /m3	0.23	79	0.45	100	0.68	100	0.53	7	0.28	100	0.49	100	0.45	100	0.43	14	-	0	0.14	12	0.14	100	0.12	27	0.39	61
NL0091R	sum_ammonia_and_ammonium	air+pm10	µg N /m3	1.38	48	3.17	50	5.04	51	1.90	50	1.62	49	2.21	50	2.46	51	4.13	49	1.42	50	3.62	51	1.64	50	1.86	49	2.57	50
IE0001R	sum_ammonia_and_ammonium	air+aerosol	µg N /m3	1.28	97	0.60	50	0.93	94	0.69	77	0.56	79	0.64	59	0.52	81	0.47	66	0.48	37	0.71	47	0.41	71	0.56	65	0.69	69
NO0002R	sum_ammonia_and_ammonium	air+aerosol	µg N /m3	0.43	100	0.59	93	0.41	82	0.69	89	0.44	100	0.42	100	0.56	100	0.65	84	0.32	100	0.41	100	0.21	100	0.22	100	0.44	96
NO0039R	sum_ammonia_and_ammonium	air+aerosol	µg N /m3	0.61	94	0.62	100	0.96	100	0.39	100	0.43	90	0.58	100	0.89	100	0.73	68	0.26	100	0.17	100	0.29	100	0.19	94	0.51	95
NO0042G	sum_ammonia_and_ammonium	air+aerosol	µg N /m3	0.04	94	0.62	86	0.22	94	0.35	86	0.16	94	0.17	97	0.26	100	0.30	100	0.17	100	0.08	100	0.09	90	0.03	1	0.22	87
SE0014R	sum_ammonia_and_ammonium	air+aerosol	µg N /m3	0.32	97	0.86	96	0.84	100	0.66	100	0.45	100	0.46	93	0.54	100	0.67	98	0.35	96	0.59	100	0.52	100	0.42	100	0.55	98

Table A.2.4 : Concentrations of heavy metals in precipitation, 2015

			Jan		Febr		March		April		May		June		July		August		September		October		November		December		2015	
Site	Comp	Unit	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt
BE0014R	arsenic	ug/L	0.13 49	100	0.12 02	98	0.02 54	98	0.17 76	100	0.15 01	100	0.04 79	100	0.04 7	100	0.03 71	100	0.03 83	100	0.05 56	100	0.03 8	40	0.01 73	100	0.06 8	91
DE0001R	arsenic	ug/L	0.06 28	100	0.04 33	100	0.06 8	100	0.07 72	100	0.07 97	100	0.10 3	100	0.05 56	100	0.10 52	100	0.04 76	100	0.21 05	100	0.04 19	100	0.03 88	100	0.06 8	100
DK0005R	arsenic	ug/L	0.09 4	100	0.09 35	100	0.03 77	100	0.32 41	100	0.14 28	100	0.12 86	100	0.11 09	100	0.28 65	100	0.13 84	100	0.48 8	100	0.05 1	100	0.05	100	0.12 9	100
DK0008R	arsenic	ug/L	0.28 25	100	0.11 45	100	0.40 5	100	0.26 47	100	0.18 76	100	0.26 73	100	0.12 26	100	0.16 84	100	0.13 87	100	0.44 9	100	0.13 4	100	0.13 5	100	0.18 6	100
DK0012R	arsenic	ug/L	0.10 49	100	0.09 56	100	0.17 42	100	0.09 9	100	0.11 8	100	0.11 54	100	0.07 69	100	0.28 78	100	0.17 89	100	0.32	100	0.05 16	100	0.02 7	100	0.11 3	100
DK0022R	arsenic	ug/L	0.06 21	100	0.08 34	100	0.11 54	100	0.14 74	100	0.06 55	100	0.11 58	100	0.08 03	100	0.15 19	100	0.09 08	100	0.64 6	100	0.04 21	100	0.04 6	100	0.08 9	100
ES0008R	arsenic	ug/L	0.07 15	100	0.05 34	100	0.06 62	100	0.09 36	100	0.09 51	100	0.09 5	100	0.08 95	100	0.08 07	100	0.04 15	100	0.08 19	100	0.06 27	100	0.09 47	100	0.07 0	100
FR0090R	arsenic	ug/L	0.17	100	0.07 17	100	0.13 65	100	0.13 02	100	0.25 89	100	0.28 91	100	0.19 05	100	0.05 07	100	0.08 84	100	0.07 02	100	0.10 95	100	0.09 03	100	0.11 6	100
GB0006R	arsenic	ug/L	0.04 44	100	0.24 58	100	0.13 2	100	0.12 87	100	0.17 28	100	0.08 85	100	0.12 2	100	0.10 13	100	0.17 36	100	0.18 9	1	-	-	-	-	0.13 0	62
GB0013R	arsenic	ug/L	0.11 22	100	0.11 5	100	0.06 56	100	0.18 43	100	0.07 53	99	0.09 15	93	0.04 9	100	0.04 95	100	0.05 51	100	0.15 57	42	-	-	-	-	0.08 3	62
GB0017R	arsenic	ug/L	0.28 2	100	0.15 7	100	0.19 89	100	0.37 62	100	0.28	100	0.18 25	100	0.12 22	100	0.08 35	100	0.07 97	100	0.08 1	40	-	-	-	-	0.14 1	81
GB0036R	arsenic	ug/L	0.06	100	0.08	99	0.12	92	0.09	38	0.07	98	0.16	95	0.07	99	0.07	100	0.06	100	0.06	56	-	-	-	-	0.07 3	72
GB0048R	arsenic	ug/L	0.32	100	0.09	98	0.11	100	0.08	100	0.05	100	0.05	100	0.05	100	0.06	100	0.04	100	0.10	35	-	-	-	-	0.12 1	61
IE0001R	arsenic	ug/L	0.13	100	0.05 17	100	0.04 04	100	0.01 3	100	0.01	2	0.05	93	0.04 03	100	0.01 13	100	0.02 92	100	0.00 21	100	-	-	-	-	0.03 2	92
NL0010R	arsenic	ug/L	0.05 42	100	0.12 5	100	0.14 43	100	0.32 4	99	0.44 59	100	0.71 89	19	0.09 94	54	0.08 39	37	0.04 61	100	0.10 87	100	0.07 64	100	0.05 16	100	0.12 4	78
NL0091R	arsenic	ug/L	0.04 74	100	0.04 04	100	0.07 54	100	0.07 29	100	0.07 44	100	0.14 25	100	0.06 45	100	0.06 25	100	0.04 42	100	0.06 55	100	0.03 4	100	0.03 51	100	0.05 2	100
NO0001R	arsenic	ug/L	0.04 5	100	0.09 86	100	0.06 75	100	0.10 35	100	0.05 15	100	0.04 84	100	0.08 97	100	0.08 29	100	0.11 16	100	0.16 91	100	0.07 36	100	0.09 76	100	0.08 4	100
PT0004R	arsenic	ug/L	0.2	100	0.2	100	0.2	100	0.21 87	100	-	-	0.63 31	100	0.2	100	0.2	100	0.2	100	0.2	100	0.2	98	0.2	100	0.20 7	100
PT0006R	arsenic	ug/L	0.2	100	0.2	100	0.2	100	0.2	100	-	-	0.2	99	-	-	-	-	0.2	93	0.2	100	0.2	93	0.2	100	0.20 0	99
SE0014R	arsenic	ug/L	0.14 78	100	0.15	100	0.14 82	100	0.11	100	0.09 5	100	0.02 5	100	0.02 5	100	0.15 47	100	0.02 5	100	0.06 92	100	0.02 5	100	0.02 5	100	0.07 7	100
BE0014R	cadmium	ug/L	0.10 43	100	0.14 09	98	0.04 56	98	0.03 57	100	0.08 15	100	0.07 01	100	0.05 47	100	0.04	100	0.03 74	100	0.03 01	100	0.02 36	40	0.02 67	100	0.05 9	91
DE0001R	cadmium	ug/L	0.02 2	100	0.01 7	100	0.02 19	100	0.01 71	100	0.02 17	100	0.02 79	100	0.01 17	100	0.02 37	100	0.01 36	100	0.04 08	100	0.01 24	100	0.01 02	100	0.01 8	100
DK0005R	cadmium	ug/L	0.04 3	100	0.04 29	100	0.03 18	100	0.07 28	100	0.04 72	100	0.13 32	100	0.01 63	100	0.03 39	100	0.02 73	100	0.04 4	100	0.00 9	100	0.01	100	0.03 2	100
DK0008R	cadmium	ug/L	0.02 79	100	0.01 73	100	0.03 32	100	0.04 23	100	0.02 11	100	0.02 37	100	0.01 61	100	0.02 36	100	0.01 51	100	0.06 4	100	0.01 7	100	0.01 5	100	0.02 1	100
DK0012R	cadmium	ug/L	0.02 9	100	0.02 73	100	0.04 16	100	0.02 62	100	0.03 01	100	0.03 85	100	0.10 33	100	0.06 3	100	0.02 84	100	0.08 1	100	0.01 5	100	0.01 3	100	0.03 7	100
DK0022R	cadmium	ug/L	0.01 41	100	0.02 4	100	0.02 45	100	0.18 27	100	0.03 5	100	0.03 17	100	0.02 31	100	0.02 81	100	0.01 4	100	0.00 7	100	0.01 1	100	0.00 9	100	0.02 2	100
ES0008R	cadmium	ug/L	0.02 79	100	0.07 7	100	0.04 93	100	0.03 86	100	0.03 74	100	0.02 01	100	0.04 42	100	0.06 3	100	0.05 54	100	0.02 14	100	0.02 58	100	0.05 63	100	0.04 6	100
FR0090R	cadmium	ug/L	0.08 08	100	0.00 93	100	0.00 42	100	0.00 5	100	0.07 24	100	0.05 75	100	0.01 52	100	0.00 7	100	0.02 04	100	0.03 68	100	0.00 93	100	0.01 88	100	0.02 9	100
GB0006R	cadmium	ug/L	0.00 05	100	0.00 29	100	0.00 2	100	0.00 36	100	0.00 5	100	0.00 68	100	0.00 6	100	0.00 4	100	0.00 81	100	0.00 9	1	-	-	-	-	0.00 4	62
GB0013R	cadmium	ug/L	0.00 23	100	0.00 41	100	0.00 69	100	0.08 51	100	0.02 36	99	0.01 71	93	0.01 17	100	0.00 98	100	0.00 56	100	0.00 97	42	-	-	-	-	0.01 2	62
GB0017R	cadmium	ug/L	0.01 9	100	0.02 09	100	0.03 13	100	0.04 88	100	0.02 77	100	0.02 43	100	0.04 45	100	0.01 72	100	0.01 06	100	0.01	40	-	-	-	-	0.02 6	81
GB0036R	cadmium	ug/L	0.00 65	100	0.00 86	99	0.01 9	92	0.01 3	38	0.01 34	98	0.03 65	95	0.01 03	99	0.01 26	100	0.03 45	100	0.00 8	56	-	-	-	-	0.01 4	72
GB0048R	cadmium	ug/L	0.00 33	100	0.00 25	98	0.00 68	100	0.00 83	100	0.00 92	100	0.00 85	100	0.00 77	100	0.00 94	100	0.00 52	100	0.00 73	35	-	-	-	-	0.00 7	61

			Jan		Febr		March		April		May		June		July		August		September		October		November		December		2015	
Site	Comp	Unit	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt
IE0001R	cadmium	ug/L	0.0001	100	0	100	0	100	0	100	0	2	0.03	93	0.0203	100	0.0008	100	0	100	0	100	-	-	0.0097	100	0.005	92
NL0010R	cadmium	ug/L	0.026	100	0.0717	100	0.0476	100	0.0936	100	0.2255	100	0.24	19	0.0163	54	0.0206	37	0.0335	100	0.0424	100	0.0971	100	0.0587	100	0.061	78
NL0091R	cadmium	ug/L	0.0085	100	0.0134	100	0.0186	100	0.0059	100	0.0147	100	0.0395	100	0.0052	100	0.0182	100	0.0265	100	0.0164	100	0.0085	100	0.0136	100	0.015	100
NO0001R	cadmium	ug/L	0.0133	100	0.0279	100	0.0208	100	0.0318	100	0.0087	100	0.0036	100	0.0112	100	0.0166	100	0.008	100	0.005	100	0.0101	100	0.0171	100	0.016	100
NO0039R	cadmium	ug/L	0.0464	100	0.013	100	0.0033	100	0.0075	100	0.0053	100	0.0068	100	0.0103	100	0.0252	100	0.0034	100	0.0026	100	0.005	99	0.0058	100	0.010	100
PT0004R	cadmium	ug/L	0.05	100	0.05	100	0.05	100	0.05	100	-	-	0.05	100	0.05	100	0.05	100	0.05	100	0.05	100	0.05	98	0.05	100	0.050	100
PT0006R	cadmium	ug/L	0.05	100	0.05	100	0.05	100	0.05	100	-	-	0.05	99	-	-	-	-	0.05	93	0.05	100	0.05	93	0.05	100	0.050	99
SE0014R	cadmium	ug/L	0.02	100	0.02	100	0.0488	100	0.05	100	0.022	100	0.02	100	0.02	100	0.0196	100	0.01	100	0.0215	100	0.02	100	0.02	100	0.021	100
BE0014R	chromium	ug/L	0.1097	100	0.0759	98	0.1374	98	1.1258	100	0.7344	100	0.1418	100	0.1355	100	0.1102	100	0.083	100	0.1513	100	0.0463	40	0.0825	100	0.17	91
DE0001R	chromium	ug/L	0.0426	100	0.0489	100	0.0774	100	0.177	100	0.1211	100	0.1521	100	0.103	100	0.2783	100	0.1873	100	0.362	100	0.1393	100	0.0931	100	0.14	100
DK0005R	chromium	ug/L	1.078	100	1.0868	100	2.1292	100	0.9934	100	0.7027	100	0.6059	100	0.7697	100	0.7447	100	0.4806	100	0.297	100	0.0843	100	0.138	100	0.64	100
DK0008R	chromium	ug/L	0.2115	100	0.1479	100	0.1442	100	0.3173	100	0.1204	100	0.1433	100	0.1258	100	0.1815	100	0.0937	100	0.368	100	0.0957	100	0.153	100	0.15	100
DK0012R	chromium	ug/L	0.0937	100	0.153	100	0.5011	100	0.198	100	0.1404	100	0.2296	100	0.1168	100	0.3743	100	0.1459	100	0.438	100	0.0835	100	0.052	100	0.16	100
DK0022R	chromium	ug/L	0.0514	100	0.1028	100	0.1228	100	0.1959	100	0.0605	100	0.1083	100	0.1174	100	0.1912	100	0.0706	100	0.196	100	0.0408	100	0.0303	100	0.08	100
ES0008R	chromium	ug/L	0.6954	100	0.5518	100	0.3878	100	0.8112	100	1.7269	100	0.6299	100	0.7399	100	0.5253	100	0.4656	100	0.712	100	1.8947	100	0.5598	100	0.76	100
FR0090R	chromium	ug/L	0.042	100	0.0479	100	0.0366	100	0.0547	100	0.0986	100	0.1873	100	0.0805	100	0.0392	100	0.0544	100	0.0619	100	0.06	100	0.0433	100	0.06	100
GB0006R	chromium	ug/L	0.0242	100	0.1356	100	0.097	100	0.0343	100	0.1612	100	0.0799	100	0.02	100	0.0841	100	0.1551	100	0.17	1	-	-	-	-	0.08	62
GB0013R	chromium	ug/L	0.0898	100	0.038	100	0.0538	100	0.1515	100	0.1047	99	0.1227	93	0.0311	100	0.0305	100	0.0583	100	0.0368	42	-	-	-	-	0.06	62
GB0017R	chromium	ug/L	0.384	100	0.1358	100	0.2052	100	0.1843	100	0.145	100	0.1098	100	0.2384	100	0.1972	100	0.0969	100	0.054	40	-	-	-	-	0.17	81
GB0036R	chromium	ug/L	0.0207	100	0.071	99	0.0711	92	0.0494	38	0.066	98	0.3207	95	0.0486	99	0.0664	100	0.0748	100	0.04	56	-	-	-	-	0.06	72
GB0048R	chromium	ug/L	0.1363	100	0.0685	98	0.0783	100	0.0744	100	0.0561	100	0.1106	100	0.0203	100	0.0536	100	0.0734	100	0.1264	35	-	-	-	-	0.08	61
IE0001R	chromium	ug/L	0.2305	100	0.1517	100	0.1212	100	0.084	100	0.08	2	0.14	93	0.2079	100	0.1334	100	0.207	100	0.1542	100	0.3163	100	0.4562	100	0.25	92
NL0010R	chromium	ug/L	0.0572	100	0.1255	100	0.171	100	0.3197	100	0.5112	100	0.5997	19	0.2	54	0.1266	37	0.1262	100	0.119	100	0.1019	100	0.1	100	0.16	78
NL0091R	chromium	ug/L	0.0596	100	0.0392	100	0.0279	98	0.0636	98	0.1	100	0.178	100	0.0216	100	0.0718	100	0.002	100	0.022	100	0.0342	100	0.036	100	0.04	100
NO0001R	chromium	ug/L	0.2298	100	0.0631	100	0.0672	100	0.3216	100	0.0668	100	0.0994	100	0.1782	100	0.2051	100	0.2666	100	0.0735	100	0.045	100	0.1312	100	0.16	100
PT0004R	chromium	ug/L	0.2	100	0.5633	100	0.348	100	0.2	100	-	-	0.3969	100	0.2	100	0.2	100	0.4166	100	0.2376	100	0.2	98	0.745	100	0.30	100
PT0006R	chromium	ug/L	0.2042	100	0.3136	100	0.2958	100	0.2	100	-	-	0.2	99	-	-	-	-	0.2	93	0.2	100	0.2	93	0.2	100	0.21	99
SE0014R	chromium	ug/L	0.0154	100	0.015	100	0.076	100	0.05	100	0.0727	100	0.0504	100	0.07	100	0.0587	100	0.015	100	0.0809	100	0.015	100	0.015	100	0.04	100
BE0014R	copper	ug/L	1.1615	91	8.8	22	7.4926	98	31.7837	100	15.9434	100	8.0599	100	11.6667	100	3.8678	100	8.6628	100	11.1259	100	2.422	40	29.0673	100	9.03	85
DE0001R	copper	ug/L	0.567	100	1.055	100	0.9346	100	2.6843	100	1.5238	100	2.5158	100	3.2258	100	2.7771	100	1.7321	100	2.0921	100	1.1126	100	1.3304	100	1.70	100
DK0005R	copper	ug/L	0.557	100	0.5575	100	0.7062	100	4.9609	100	1.5886	100	2.287	100	1.1491	100	1.7644	100	1.4179	100	1.191	100	0.4149	100	0.369	100	1.11	100
DK0008R	copper	ug/L	0.5744	100	1.9041	100	1.3274	100	1.2552	100	0.6891	100	0.5522	100	0.9135	100	0.8608	100	0.5857	100	1.306	100	0.4753	100	3.615	100	0.99	100
DK0012R	copper	ug/L	0.6425	100	1.2421	100	21.4501	100	2.3096	100	1.4829	100	1.7526	100	3.837	100	2.3067	100	1.2046	100	2.501	100	0.6111	100	0.443	100	2.36	100
DK0022R	copper	ug/L	0.2536	100	0.6235	100	0.8315	100	2.2987	100	0.5436	100	0.8216	100	0.8746	100	1.0539	100	0.4642	100	1.291	100	0.2621	100	0.267	100	0.55	100
ES0008R	copper	ug/L	11.7059	100	17.2452	100	12.8938	100	6.7017	100	14.8721	100	2.794	100	49.5151	100	24.2607	100	8.8638	100	4.913	100	4.2115	100	9.967	100	13.05	100
FR0090R	copper	ug/L	0.3901	100	0.2721	100	0.0705	100	0.2962	100	1.0632	100	0.8178	100	0.7801	100	0.4417	100	0.5455	100	0.5401	100	0.2437	100	0.24	100	0.43	100
GB0006R	copper	ug/L	0.0193	100	0.1074	100	0.067	100	0.1582	100	0.1293	100	0.1328	100	0.06	100	0.0433	100	0.3242	100	0.384	1	-	-	-	-	0.09	62
GB0013R	copper	ug/L	0.13	100	0.59	100	0.38	100	3.64	100	1.03	99	2.01	93	0.85	100	0.46	100	0.41	100	0.71	42	-	-	-	-	0.70	62

			Jan		Febr		March		April		May		June		July		August		September		October		November		December		2015	
Site	Comp	Unit	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt
			92		56		44		42		77		48		63		46		54		06							
GB0017R	copper	ug/L	4.462	100	1.2835	100	2.0228	100	3.3708	100	1.9132	100	1.302	100	2.0634	100	0.746	100	0.6276	100	0.69	40	-	-	-	-	1.39	81
GB0036R	copper	ug/L	0.1739	100	0.2555	99	0.5327	92	0.5532	38	0.5433	98	2.2325	95	0.4105	99	0.4875	100	0.5062	100	0.353	56	-	-	-	-	0.46	72
GB0048R	copper	ug/L	0.17	100	0.1003	98	0.1689	100	0.5096	100	0.9719	100	0.3872	100	0.3328	100	0.4339	100	0.2282	100	0.7491	35	-	-	-	-	0.36	61
IE0001R	copper	ug/L	26.0236	100	69.6922	100	25.7315	100	10.4223	100	8.94	2	10.64	93	26.6509	100	7.2209	100	40.2664	100	11.9845	100	5.0065	100	6.4855	100	20.00	92
NL0010R	copper	ug/L	0.6761	100	1.6577	100	2.6275	100	6.3432	99	9.6088	100	11.6888	19	1.8784	54	1.272	37	0.9742	100	1.955	100	1.0457	100	1.2733	100	2.24	78
NL0091R	copper	ug/L	0.5703	100	0.5045	100	0.7802	100	1.1347	100	0.9376	100	2.1087	100	0.6257	100	0.7054	100	0.5483	100	1.3559	100	0.3244	100	0.6054	100	0.63	100
NO0001R	copper	ug/L	0.5313	100	1.019	100	0.9239	100	10.5153	100	0.9145	100	0.4997	100	1.0888	100	1.8521	100	1.5264	100	1.1792	100	0.5657	100	1.6574	100	1.33	100
PT0004R	copper	ug/L	0.5	100	0.8425	100	1.1811	100	0.5	100	-	-	6.9747	100	1.2	100	1.2	100	1.2866	100	0.9344	100	0.41	98	0.5	100	0.74	100
PT0006R	copper	ug/L	2.144	100	3.359	100	0.8254	100	1.1449	100	-	-	1.9	99	-	-	-	-	0.84	93	0.8935	100	1.2	93	0.5324	100	1.38	99
SE0014R	copper	ug/L	0.1806	100	0.4374	100	0.7376	100	1.92	100	0.6524	100	0.5575	100	0.43	100	0.522	100	0.28	100	0.4193	100	0.2606	100	0.3	100	0.45	100
BE0014R	lead	ug/L	0.8678	100	1.3047	98	0.6092	98	2.0232	100	1.7181	100	1.2213	100	1.4225	100	0.5965	100	0.8665	100	0.9239	100	0.4839	40	1.134	100	0.97	91
DE0001R	lead	ug/L	0.5685	100	0.3952	100	0.5657	100	0.6889	100	0.8348	100	1.0838	100	0.3671	100	0.7318	100	0.4073	100	0.9779	100	0.491	100	0.3501	100	0.56	100
DK0005R	lead	ug/L	5.164	100	5.1264	100	0.5815	100	1.4694	100	2.3747	100	10.9943	100	2.4097	100	2.746	100	2.0696	100	1.993	100	0.5065	100	0.699	100	2.47	100
DK0008R	lead	ug/L	0.6755	100	0.3951	100	1.1098	100	1.9589	100	0.8358	100	0.6065	100	0.4706	100	0.7357	100	0.4383	100	1.39	100	0.4391	100	0.366	100	0.62	100
DK0012R	lead	ug/L	0.6659	100	0.6655	100	1.2371	100	5.1093	100	0.9424	100	1.8873	100	0.5816	100	1.2624	100	0.5978	100	2.065	100	0.5175	100	0.256	100	0.98	100
DK0022R	lead	ug/L	0.3057	100	0.6849	100	0.7505	100	0.6713	100	0.4441	100	0.5486	100	0.3922	100	0.6255	100	0.3604	100	1.829	100	0.2906	100	0.363	100	0.46	100
ES0008R	lead	ug/L	1.2597	100	1.8039	100	1.3882	100	1.0776	100	2.7128	100	0.4781	100	2.3244	100	1.0962	100	0.7507	100	0.4119	100	1.2901	100	0.5936	100	1.32	100
FR0090R	lead	ug/L	1.0143	100	0.2239	100	0.134	100	0.3268	100	1.1626	100	0.8887	100	0.6212	100	0.1722	100	0.2851	100	0.2306	100	0.4868	100	0.4014	100	0.47	100
GB0006R	lead	ug/L	0.0142	100	0.078	100	0.03	100	0.0764	100	0.1308	100	0.0793	100	0.03	100	0.03	100	0.2395	100	0.284	1	-	-	-	-	0.06	62
GB0013R	lead	ug/L	0.0565	100	0.0992	100	0.19	100	0.5817	100	0.3751	99	1.0249	93	0.1834	100	0.309	100	0.2407	100	0.2175	42	-	-	-	-	0.24	62
GB0017R	lead	ug/L	3.291	100	0.8441	100	1.8994	100	1.6661	100	1.4796	100	1.0117	100	0.5772	100	0.4243	100	0.365	100	0.348	40	-	-	-	-	0.75	81
GB0036R	lead	ug/L	0.2493	100	0.2826	99	0.5521	92	0.711	38	1.0546	98	4.3656	95	0.9241	99	0.5993	100	0.3777	100	0.3	56	-	-	-	-	0.68	72
GB0048R	lead	ug/L	0.0382	100	0.0454	98	0.1098	100	0.3175	100	0.2359	100	0.2613	100	0.3187	100	0.3814	100	0.1656	100	0.3868	35	-	-	-	-	0.20	61
IE0001R	lead	ug/L	0.725	100	0.4459	100	0.5167	100	0.1959	100	0.16	2	0.23	93	0.1621	100	0.2845	100	1.079	100	0.3003	100	0.24	100	0.4151	100	0.45	92
NL0010R	lead	ug/L	0.4234	100	1.2983	100	1.643	100	2.5072	99	4.0437	100	3.8979	19	0.747	54	0.5594	37	0.4525	100	0.6716	100	0.8672	100	0.9155	100	1.09	78
NL0091R	lead	ug/L	0.3972	100	0.3919	100	0.5132	100	0.4183	100	0.7361	100	1.3747	100	0.473	100	0.4683	100	0.6137	100	0.4675	100	0.2745	100	0.3125	100	0.46	100
NO0001R	lead	ug/L	0.3391	100	0.967	100	0.5246	100	2.9143	100	0.6515	100	0.1906	100	0.7306	100	2.2387	100	0.6805	100	1.1469	100	0.3862	100	0.8409	100	0.84	100
NO0039R	lead	ug/L	0.4524	100	0.1224	100	0.1185	100	0.2876	100	0.1396	100	0.4503	100	0.6069	100	0.4063	100	0.1612	100	0.1087	100	0.0922	99	0.0568	100	0.26	100
PT0004R	lead	ug/L	0.2026	100	0.2214	100	0.5025	100	0.7232	100	-	-	0.5453	100	0.25	100	0.25	100	0.6138	100	0.3883	100	0.25	98	0.3422	100	0.36	100
PT0006R	lead	ug/L	1.7446	100	2.4297	100	0.2083	100	0.208	100	-	-	0.2	99	-	-	NaN	0	0.2	93	0.2354	100	0.2804	93	0.2252	100	0.74	99
SE0014R	lead	ug/L	0.2255	100	0.3144	100	0.732	100	0.33	100	0.4375	100	0.3396	100	0.32	100	0.4985	100	0.31	100	0.3944	100	0.3884	100	0.28	100	0.36	100
BE0014R	mercury	ng/L	3.07	91	1.61	87	3.50	97	6.25	100	9.37	100	3.79	99	7.69	100	12.7671	100	3.98	100	7.6	100	4.8	100	6.09	100	6.46	98
DE0001R	mercury	ng/L	3.68	100	4.13	100	3.61	100	5.68	100	7.79	100	9.35	100	6.59	100	10.2727	100	4.66	100	8.4	100	3.1	100	2.42	100	5.35	100
ES0008R	mercury	ng/L	13.05	100	3.60	100	3.14	100	7.12	97	6.26	100	17.45	100	7.75	100	11.6718	100	11.74	100	12.3	100	14.2	99	14.9	100	8.77	100

			Jan		Febr		March		April		May		June		July		August		September		October		November		December		2015	
Site	Comp	Unit	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt
GB0013R	mercury	ng/L	3	100	3.89	100	4.02	100	6.43	100	5	100	5.18	100	6	100	6.81 28	100	8	100	-	-	-	-	-	-	5.31	75
GB0017R	mercury	ng/L	4	100	5.37	100	6.72	100	8.47	100	9	100	10.6 3	100	5.31	100	5.94 41	100	6	100	-	-	-	-	-	-	6.71	75
GB0036R	mercury	ng/L	3.15	100	3	100	10	100	5.24	100	6.94	100	6.35	100	5.92	100	6.39 05	100	9	100	-	-	-	-	-	-	6.05	75
GB0048R	mercury	ng/L	1.95	100	3.65	100	4	100	4.97	100	5.36	100	7.68	100	6.69	100	6.70 11	100	9	100	-	-	-	-	-	-	5.39	75
IE0001R	mercury	ng/L	14.7 8	100	20.2 0	100	20	100	11	100	10	2	10	93	29.4	100	10.8	100	29.2	100	20.7	100	39.6	100	40	100	42.1 0	92
NL0091R	mercury	ng/L	5.10	100	6.84	100	10.0 1	100	10.1 0	100	12.1 8	100	24.6	100	10.7	100	17.0 951	100	7.13	100	6.36	100	4.61	100	6.86	100	8.90	100
NO0001R	mercury	ng/L	3.95	100	6.5	100	3.7	100	29.6	100	37.4 6	100	10.1	100	2.3	100	3.13 15	100	2.60	100	5.7	100	2.16	100	2.90	100	6.53	100
PT0004R	mercury	ng/L	10	100	10	98	10	80	10	91	-	-	-	-	-	-	-	-	10	87	10	100	10	98	10	100	10.0 0	95
PT0006R	mercury	ng/L	10	100	10	100	10	100	32.8 12	100	-	-	10	99	-	-	-	-	10	93	10	100	10	93	10	100	12.9 2	99
SE0014R	mercury	ng/L	3.45	100	8.41	100	9.37	100	6.67 9	100	8.72 38	100	7.69 7	100	8.22 57	100	9.22 34	100	4.33	100	9.7	100	3.29	100	4.41	100	6.15	100
BE0014R	nickel	ug/L	0.07 72	100	0.27 34	98	0.30 77	98	1.65 83	100	0.78 08	100	0.10 85	100	0.15 21	100	0.03 95	100	0.19 58	100	0.22 16	100	0.19 64	40	0.29 54	100	0.23	91
DE0001R	nickel	ug/L	0.39 14	100	0.22 34	100	0.16 28	100	0.30 76	100	0.22 42	100	0.82 26	100	0.34 46	100	0.34 1	100	0.19 25	100	0.28 34	100	0.22 4	100	0.17 32	100	0.28	100
DK0005R	nickel	ug/L	0.07 8	100	0.07 82	100	0.11 21	100	0.75 97	100	0.15 88	100	0.37 02	100	0.19 56	100	0.41 56	100	0.21 31	100	0.43 9	100	0.08 58	100	0.12 2	100	0.20	100
DK0008R	nickel	ug/L	0.11 79	100	0.10 54	100	0.13	100	0.25 43	100	0.13 18	100	0.12 4	100	0.15 05	100	0.18 33	100	0.11 05	100	0.32 4	100	0.08 63	100	0.10 9	100	0.13	100
DK0012R	nickel	ug/L	0.07 84	100	0.11 88	100	0.51 18	100	0.36 6	100	0.26 8	100	0.26 94	100	0.38 59	100	0.37 38	100	0.16 55	100	0.84 3	100	0.12 15	100	0.09 4	100	0.23	100
DK0022R	nickel	ug/L	0.04 32	100	0.06 78	100	0.10 87	100	0.17 92	100	0.06 55	100	0.12 35	100	0.13 8	100	0.19 08	100	0.09 48	100	0.24 3	100	0.70 63	100	0.13 5	100	0.21	100
ES0008R	nickel	ug/L	0.52	100	0.52	100	0.52 08	100	0.54	100	0.58 18	100	0.52 16	100	0.59 9	100	0.52	100	0.52 5	100	0.52	100	0.58 65	100	0.64 29	100	0.54	100
FR0090R	nickel	ug/L	0.26 14	100	0.16 17	100	0.31 2	100	0.21 18	100	1.01 29	100	0.69 99	100	0.24 21	100	0.44 9	100	0.24 85	100	0.23 01	100	0.41 76	100	0.25 26	100	0.34	100
GB0006R	nickel	ug/L	0.85 13	100	0.14 5	100	0.01 8	100	0.02 29	100	0.02 4	100	0.05 44	100	0.02	100	0.00 52	100	0.24 99	100	0.30 2	1	-	-	-	-	0.17	62
GB0013R	nickel	ug/L	0.94 22	100	0.16 04	100	0.11 99	100	0.28 74	100	0.14 81	99	0.19 31	93	0.08 54	100	0.09 29	100	0.11 61	100	0.23 19	42	-	-	-	-	0.27	62
GB0017R	nickel	ug/L	1.55 7	100	0.48 01	100	0.36 67	100	0.23 78	100	0.23 88	100	0.18 3	100	0.10 49	100	0.07 21	100	0.07 92	100	0.08 5	40	-	-	-	-	0.15	81
IE0001R	nickel	ug/L	0.07 08	100	0.11 89	100	0.08 16	100	0.07 1	100	0.07	2	0.1	93	0.17 76	100	0.10 34	100	0.08 08	100	0.02 42	100	0.25 48	100	0.19 19	100	0.13	92
NL0010R	nickel	ug/L	0.07 86	100	0.21 14	100	0.25 35	100	0.38 46	100	0.51 12	100	0.69 93	19	0.2	54	0.12 66	37	0.1	100	0.25 43	100	0.13 82	100	0.12 89	100	0.19	78
NL0091R	nickel	ug/L	0.07 37	100	0.06 48	100	0.13 5	100	0.08 84	96	0.29 25	100	0.41 61	100	0.11 33	100	0.10 71	100	0.10 2	100	0.16 17	100	0.10 01	100	0.07 35	100	0.11	100
NO0001R	nickel	ug/L	0.14 07	100	0.18 1	100	0.22 2	100	0.43 75	100	0.03 2	100	0.08 08	100	0.10 24	100	0.21 25	100	0.18 56	100	0.19 03	100	0.07 81	100	0.16 27	100	0.15	100
PT0004R	nickel	ug/L	0.27 82	100	0.53 33	100	0.60 52	100	0.39 72	100	-	-	1.05 59	100	0.59	100	0.59	100	1.72 47	100	1.95 79	100	0.2	98	0.28 55	100	0.78	100
PT0006R	nickel	ug/L	0.90 84	100	0.74 89	100	0.29 41	100	8.12 43	100	-	-	0.3	99	-	-	-	-	0.27	93	0.72 4	100	0.28	93	0.24 33	100	1.56	99
SE0014R	nickel	ug/L	0.01 69	100	0.06 22	100	0.11 75	100	0.11	100	0.13 75	100	0.18 61	100	0.49	100	0.12 28	100	0.06	100	0.09 39	100	0.01 6	100	0.08	100	0.11	100
BE0014R	zinc	ug/L	5.69	100	9.90	98	20.0 7	98	24.3 0	100	29.0 3	100	13.7 6	100	15.1 6	100	10.0 9	100	12.1 7	100	11.8	100	6.28	40	11.4 2	100	12.1 5	91
ES0008R	zinc	ug/L	44.0 1	100	58.8 3	100	32.9 5	100	25.5 7	100	46.0 3	100	18.2 6	100	136. 78	100	105. 10	100	94.8 0	100	40.4	100	15.9 4	100	196. 63	100	53.5 0	100
FR0090R	zinc	ug/L	8.00	100	3.58	100	1.12	100	3.56	100	16.7 8	100	17.7 7	100	5.95	100	4.31	100	6.12	100	7.9	100	8.39	100	4.76	100	6.50	100
GB0006R	zinc	ug/L	6.81	100	1.19	100	1.17	100	2.02	100	0.55	100	4.28	100	0.5	100	0.5	100	2.32	100	2.7	1	-	-	-	-	2.06	62
GB0013R	zinc	ug/L	1.75	100	2.36	100	3.53	100	12.5 9	100	4.37	99	5.50	93	4.19	100	2.48	100	3.30	100	4.5	42	-	-	-	-	3.43	62
GB0017R	zinc	ug/L	11.0 5	100	5.89	100	8.72	100	16.3 1	100	9.57	100	8.78	100	27.1 2	100	9.37	100	4.47	100	3.8	40	-	-	-	-	12.3 1	81
GB0036R	zinc	ug/L	6.20	100	4.56	99	8.10	92	5.61	38	4.13	98	16.8 7	95	5.87	99	5.03	100	7.50	100	3.4	56	-	-	-	-	5.87	72
GB0048R	zinc	ug/L	2.34	100	1.71	98	2.82	100	5.56	100	3.11	100	3.86	100	4.34	100	5.69	100	4.25	100	8.0	35	-	-	-	-	3.59	61
IE0001R	zinc	ug/L	79.1 0	100	16.8 1	100	12.2 1	100	33.3 7	100	35.7 3	2	11.5 7	93	39.2 4	100	11.5 5	100	20.8 2	100	2.1	100	70.3 3	100	36.5 2	100	35.7 6	92
NL0010R	zinc	ug/L	6.28	100	13.2 6	100	14.4 8	100	21.9 4	100	35.1 0	100	42.6 6	19	8.92	54	8.32	37	7.82	100	11.2	100	13.2 5	100	9.84	100	12.5 3	78
NL0091R	zinc	ug/L	2.76	100	2.05	100	3.57	100	2.98	100	5.27	100	6.94	100	2.77	100	2.83	100	3.76	100	3.2	100	2.06	100	2.57	100	3.00	100

			Jan		Febr		March		April		May		June		July		August		September		October		November		December		2015	
Site	Comp	Unit	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt
NO0001R	zinc	ug/L	4.37	100	6.30	100	6.26	100	11.59	100	2.60	100	1.30	100	2.15	100	3.43	100	2.56	100	5.7	100	2.30	100	3.73	100	3.71	100
NO0039R	zinc	ug/L	1.48	100	1.38	100	1.04	100	1.97	100	2.22	100	4.04	100	2.35	100	4.25	100	1.70	100	2.2	100	1.74	99	2.62	100	2.23	100
PT0004R	zinc	ug/L	1.03	100	4.95	100	4.63	100	1.76	100	-	-	10.59	100	6	100	6	100	4.53	100	3.3	100	5.2	98	1.75	100	3.20	100
PT0006R	zinc	ug/L	25.92	100	6.49	100	2.62	100	3.60	100	-	-	6.20	99	-	-	-	-	5.7	93	3.8	100	3.5	93	2.52	100	9.90	99
SE0014R	zinc	ug/L	0.42	100	3.00	100	4.72	100	3.81	100	7.90	100	3.68	100	2.43	100	3.3355	100	1.85	100	4.9	100	1.5374	100	2.03	100	2.70	100
BE0014R	precip	mm	112	100	44	100	31	100	16	100	43	100	29	100	69	100	132	100	99	100	37	100	112	100	49	100	773	100
BE0014R	precip_Hg	mm	103	100	43	100	28	100	16	100	39	100	31	100	75	100	139	100	105	100	37	100	112	100	49	100	776	100
DE0001R	precip	mm	70	100	31	100	60	100	24	100	58	100	26	100	66	100	93	100	92	100	27	100	117	100	90	91	755	99
DE0001R	precip_Hg	mm	74	100	36	100	69	100	27	100	70	100	32	100	70	100	97	100	108	100	36	100	137	100	105	91	861	99
DK0005R	precip	mm	3	2	99	100	35	100	29	100	52	100	28	100	76	100	53	100	36	100	27	98	106	96	104	98	648	91
DK0008R	precip	mm	71	99	24	100	19	100	18	100	59	100	47	100	78	100	44	100	89	100	9	98	89	99	47	98	595	99
DK0012R	precip	mm	62	99	32	100	27	100	27	100	56	100	37	100	58	100	45	100	53	100	15	98	104	99	76	98	591	99
DK0022R	precip	mm	128	99	37	100	68	100	27	100	109	100	44	100	62	100	47	100	117	100	25	98	175	99	163	98	1002	99
ES0008R	precip	mm	160	73	252	86	174	84	55	87	46	87	50	41	41	51	65	85	69	86	108	87	117	84	25	67	1161	76
ES0008R	precip_Hg	mm	154	73	247	86	161	84	51	87	43	87	48	41	39	51	63	85	59	66	92	87	99	84	19	67	1075	75
FR0090R	precip	mm	123	100	96	100	29	100	23	100	37	100	17	100	50	100	140	100	47	100	62	100	67	100	61	100	750	100
GB0006R	precip	mm	186	100	123	100	171	100	101	100	188	100	64	100	163	100	150	100	48	100	103	97	325	100	300	100	1921	100
GB0013R	precip	mm	110	83	84	100	38	100	23	100	67	100	22	100	89	100	140	100	46	97	63	100	149	100	208	100	1040	98
GB0013R	precip_Hg	mm	118	83	94	100	44	100	16	100	88	100	50	100	83	100	159	100	67	48	-	-	-	-	-	-	721	69
GB0017R	precip	mm	2	43	16	100	13	100	15	100	27	100	39	100	72	100	85	100	50	100	38	100	44	100	11	21	412	88
GB0017R	precip_Hg	mm	14	43	26	100	25	100	18	100	34	100	41	100	93	100	75	100	14	19	-	-	-	-	-	-	341	63
GB0036R	precip	mm	77	100	55	100	16	100	36	100	59	100	16	100	61	100	78	100	56	100	50	100	65	100	59	97	628	100
GB0036R	precip_Hg	mm	73	100	9	13	20	89	31	100	58	100	22	100	36	100	82	100	35	52	-	-	-	-	-	-	365	63
GB0048R	precip	mm	136	100	38	100	92	100	39	100	73	100	42	100	117	100	55	100	32	100	25	100	187	100	206	96	1042	100
GB0048R	precip_Hg	mm	75	100	46	100	70	100	29	99	71	100	64	100	96	100	74	100	21	52	-	-	-	-	-	-	545	71
IE0001R	precip	mm	190	100	110	100	131	100	58	100	128	100	80	100	118	100	126	100	148	100	99	100	195	100	336	100	1719	100
NL0010R	precip	mm	64	100	32	100	45	100	28	100	29	100	47	100	81	100	128	100	87	100	47	100	70	100	43	87	701	99
NL0091R	precip	mm	91	100	53	100	35	100	17	100	42	100	13	100	60	100	142	100	136	100	24	100	151	100	57	100	821	100
NL0091R	precip_Hg	mm	71	100	46	50	32	55	11	53	32	100	14	57	66	97	95	77	125	100	19	68	130	87	42	74	684	77
NO0001R	precip	mm	281	100	158	96	99	100	36	100	203	100	78	100	147	100	190	100	387	100	62	100	87	100	192	100	1920	100
NO0001R	precip_Hg	mm	249	100	140	100	86	100	36	100	156	100	93	100	164	100	220	100	551	100	99	100	145	100	211	100	2148	100
NO0039R	precip	mm	105	100	114	100	139	100	154	100	104	100	164	100	150	100	64	100	142	100	55	100	92	100	138	100	1422	100
PT0004R	precip	mm	61	60	12	100	11	100	32	100	0	100	4	100	3	100	3	100	11	100	77	100	64	100	35	100	310	97
PT0006R	precip	mm	130	63	18	100	23	100	60	100	0	100	19	100	1	100	1	100	14	100	89	100	47	100	72	100	475	97
SE0014R	precip	mm	100	84	35	100	34	100	27	100	42	100	60	100	48	100	56	100	96	100	14	100	84	100	51	100	647	99
SE0014R	precip_Hg	mm	120	96	33	100	47	100	41	100	76	100	66	100	60	100	78	100	142	100	4	81	73	73	78	100	818	96

Table A.2.5 : Concentrations of heavy metals in air, 2015

				Jan		Febr		March		April		May		June		July		August		September		October		November		December		2015	
Site	Comp	matrix	Unit	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt
BE0014R	arsenic	pm10	ng/m3	0.38	61	0.30	100	0.37	97	0.30	100	0.32	100	0.32	100	0.33	100	0.34	71	0.33	97	0.81	100	0.38	100	0.35	97	0.38	93
DE0001R	arsenic	pm10	ng/m3	0.17	100	0.46	100	0.35	100	0.20	100	0.12	100	0.16	100	0.20	100	0.25	100	0.22	100	0.76	100	0.41	100	0.21	90	0.29	99
DK0008R	arsenic	aero	ng/m3	2.89	90	0.32	93	0.26	100	0.16	100	0.10	100	0.21	100	0.17	100	0.22	59	-	-	-	-	-	-	-	-	-	62
DK0012R	arsenic	aero	ng/m3	2.26	97	0.38	100	0.47	100	0.39	100	0.25	100	0.21	97	0.21	100	0.35	97	0.41	100	0.64	81	0.33	87	0.38	75	0.53	94
ES0008R	arsenic	pm10	ng/m3	0.14	16	0.18	18	0.19	15	0.25	18	0.09	15	0.15	17	0.16	17	0.17	16	0.15	16	0.21	17	0.21	16	0.22	17	0.18	16
GB0013R	arsenic	pm10	ng/m3	0.49	100	0.48	100	0.43	100	0.49	100	0.24	100	0.34	100	0.22	100	0.28	100	0.38	100	0.45	100	0.28	76	0.15	46	0.36	93
GB0017R	arsenic	pm10	ng/m3	0.56	100	0.58	100	0.57	100	0.54	100	0.37	100	0.35	100	0.35	100	0.34	100	0.39	69	0.61	100	0.71	100	0.56	100	0.50	97
GB0036R	arsenic	pm10	ng/m3	0.51	100	0.47	100	0.67	100	0.64	100	0.33	100	0.36	100	0.23	99	0.43	100	0.48	100	0.70	100	0.47	100	0.27	100	0.46	100
GB0048R	arsenic	pm10	ng/m3	0.13	100	0.13	100	0.16	100	0.15	100	0.07	100	0.15	100	0.10	100	0.13	100	0.23	100	0.25	100	0.13	100	0.14	100	0.15	100
NL0008R	arsenic	pm10	ng/m3	0.37	39	0.36	46	0.58	49	0.40	50	0.22	51	0.28	50	0.27	45	0.42	51	0.37	27	0.82	49	0.42	50	0.52	45	0.42	46
NL0644R	arsenic	pm25	ng/m3	0.40	26	0.51	25	0.61	23	0.28	23	0.19	26	0.20	23	0.22	26	0.44	26	0.30	23	0.61	23	0.43	23	0.33	23	0.37	24
NO0002R	arsenic	pm10	ng/m3	0.07	100	0.12	100	0.19	100	0.17	100	0.10	100	0.18	100	0.12	90	0.18	81	0.19	100	0.36	100	0.17	100	0.12	100	0.16	98
NO0042G	arsenic	aero	ng/m3	0.07	26	0.19	43	0.06	32	0.24	30	0.03	26	0.02	33	0.02	26	0.01	26	0.01	27	0.02	26	0.03	37	0.03	16	0.07	29
NO0090R	arsenic	aero	ng/m3	0.088	42	0.132	29	0.094	26	0.055	40	0.083	26	0.090	33	0.032	26	0.038	29	0.053	30	0.017	26	0.015	30	0.017	16	0.062	29
PT0004R	arsenic	pm10	ng/m3	0.190	13	0.193	11	0.860	16	0.200	10	0.207	10	0.210	13	0.210	10	0.210	10	0.200	7	0.192	16	0.263	10	0.410	6	0.298	11
PT0006R	arsenic	pm10	ng/m3	0.120	3	0.120	4	0.140	6	0.140	7	0.140	3	0.140	7	0.140	3	0.140	13	0.140	10	0.270	3	-	-	-	-	0.145	5
SE0014R	arsenic	aero	ng/m3	0.150	100	0.207	100	0.334	100	0.293	100	0.100	100	0.088	100	0.058	100	0.095	100	0.146	100	0.200	100	0.123	100	0.110	88	0.159	99
BE0014R	cadmium	pm10	ng/m3	0.137	61	0.139	100	0.170	97	0.087	100	0.081	100	0.173	100	0.136	100	0.073	71	0.086	97	0.197	100	0.153	100	0.117	97	0.130	93
DE0001R	cadmium	pm10	ng/m3	0.051	100	0.099	100	0.098	100	0.038	100	0.025	100	0.025	100	0.026	100	0.039	100	0.037	100	0.126	100	0.074	100	0.059	90	0.058	99
DK0008R	cadmium	aero	ng/m3	0.072	90	0.043	93	0.066	100	0.042	100	0.029	100	-0.013	100	0.005	100	0.043	59	-	-	-	-	-	-	-	-	-	62
DK0012R	cadmium	aero	ng/m3	0.054	97	0.084	100	0.094	100	-0.313	100	-0.333	100	-0.305	100	0.023	100	0.045	97	0.054	100	0.121	81	0.054	87	0.061	75	-0.036	95
ES0008R	cadmium	pm10	ng/m3	0.082	16	0.082	18	0.156	15	0.107	18	0.096	15	0.088	17	0.100	17	0.120	16	0.180	16	0.129	17	0.126	16	0.067	17	0.110	16
GB0013R	cadmium	pm10	ng/m3	0.079	100	0.058	100	0.070	100	0.095	100	0.042	100	0.035	100	0.023	100	0.036	100	0.052	100	0.066	100	0.040	76	0.024	46	0.053	93
GB0017R	cadmium	pm10	ng/m3	0.105	100	0.118	100	0.121	100	0.080	100	0.049	100	0.048	100	0.064	100	0.063	100	0.062	69	0.161	100	0.169	100	0.079	100	0.094	97
GB0036R	cadmium	pm10	ng/m3	0.076	100	0.070	100	0.105	100	0.093	100	0.044	100	0.063	100	0.047	99	0.073	100	0.065	100	0.094	100	0.056	100	0.037	100	0.069	100
GB0048R	cadmium	pm10	ng/m3	0.030	100	0.025	100	0.036	100	0.034	100	0.029	100	0.033	100	0.021	100	0.019	100	0.025	100	0.035	100	0.020	100	0.013	100	0.027	100
NL0008R	cadmium	pm10	ng/m3	0.09	39	0.11	46	0.19	49	0.08	50	0.07	51	0.07	50	0.10	45	0.10	51	0.08	27	0.17	49	0.13	50	0.17	45	0.12	46
NL0644R	cadmium	pm25	ng/m3	0.09	26	0.13	25	0.26	23	0.08	23	0.07	26	0.07	23	0.09	26	0.09	26	0.17	23	0.11	23	0.13	23	0.09	23	0.11	24
NO0002R	cadmium	pm10	ng/m3	0.02	100	0.03	100	0.05	100	0.02	100	0.01	100	0.02	100	0.01	90	0.02	81	0.03	100	0.04	100	0.02	100	0.03	100	0.03	98
NO0042G	cadmium	aero	ng/m3	0.01	26	0.03	43	0.01	32	0.03	30	0.00	26	0.00	33	0.00	26	0.00	26	0.00	27	0.00	26	0.00	37	0.01	16	0.01	29
NO0090R	cadmium	aero	ng/m3	0.02	42	0.02	29	0.03	26	0.01	40	0.01	26	0.00	33	0.00	26	0.00	29	0.01	30	0.00	26	0.00	30	0.00	16	0.01	29
PT0004R	cadmium	pm10	ng/m3	0.19	13	0.19	11	0.20	16	8.60	10	21.33	10	10.60	13	0.21	10	0.21	10	0.20	7	0.20	16	0.38	10	0.19	6	3.47	11
PT0006R	cadmium	pm10	ng/m3	0.12	3	0.12	4	0.14	6	0.14	7	0.14	3	0.14	7	0.14	3	0.14	13	0.14	10	0.27	3	-	-	-	-	0.15	5
SE0014R	cadmium	aero	ng/m3	0.03	100	0.04	100	0.06	100	0.03	100	0.01	100	0.01	100	0.01	100	0.01	100	0.02	100	0.03	100	0.02	100	0.02	88	0.02	99
BE0014R	chromium	pm10	ng/m3	0.76	61	0.93	100	1.12	97	1.46	100	1.31	100	1.68	100	1.06	100	0.42	71	0.89	97	1.06	100	0.86	100	0.89	97	1.06	93
ES0008R	chromium	pm10	ng/m3	0.22	16	0.36	18	0.32	15	0.66	18	0.15	15	0.19	17	0.38	17	0.23	16	1.03	16	0.43	17	0.09	16	0.51	17	0.38	16
GB0013R	chromium	pm10	ng/m3	1.40	100	1.40	100	1.40	100	1.40	100	1.40	100	1.33	100	2.08	100	0.50	100	0.38	100	0.29	100	0.60	76	0.60	46	1.10	93
GB0017R	chromium	pm10	ng/m3	1.40	100	1.40	100	1.40	100	1.40	100	1.40	100	1.40	100	1.40	85	1.40	25	1.19	69	1.70	100	1.82	100	1.00	100	1.42	90
GB0036R	chromium	pm10	ng/m3	1.40	100	1.40	100	1.40	100	1.40	100	1.40	100	1.40	100	1.32	99	0.59	100	1.22	100	0.94	100	1.36	100	1.35	100	1.26	100
GB0048R	chromium	pm10	ng/m3	1.40	100	1.40	100	1.40	100	1.40	100	1.40	100	1.40	100	0.20	100	0.90	100	0.36	100	1.16	100	0.49	100	0.81	100	1.02	100
NO0002R	chromium	pm10	ng/m3	0.23	100	0.30	100	0.95	100	0.26	100	0.20	100	0.94	100	1.44	90	0.66	81	0.39	100	0.86	100	0.77	100	1.74	100	0.73	98
NO0042G	chromium	aero	ng/m3	0.18	26	0.53	43	0.13	32	0.14	30	0.10	26	0.06	33	0.08	26	0.04	26	0.09	27	0.13	26	0.15	37	0.11	16	0.16	29
NO0090R	chromium	aero	ng/m3	0.10	42	0.17	29	0.13	26	0.04	40	0.05	26	0.05	33	0.07	26	0.09	29	0.07	30	0.05	26	0.05	30	0.08	16	0.08	29
SE0014R	chromium	aero	ng/m3	0.33	100	0.39	100	0.35	100	0.38	100	0.12	100	0.25	100	0.12	100	0.25	100	0.23	100	0.20	100	0.38	100	0.17	88	0.26	99
BE0014R	copper	pm10	ng/m3	2.41	61	2.62	100	3.59	97	2.87	100	3.93	100	3.24	100	3.46	100	2.22	71	1.94	97	4.38	100	1.69	100	3.00	97	2.99	93
GB0013R	copper	pm10	ng/m3	0.61	100	0.90	100	1.47	100	1.91	100	0.80	100	0.97	100	0.90	100	1.09	100	1.14	100	1.57	100	1.12	76	0.97	46	1.13	93
GB0017R	copper	pm10	ng/m3	1.62	100	2.35	100	3.39	100	1.92	100	1.16	100	1.53	100	2.04	100	1.91	100	1.42	69	2.76	100	3.38	100	2.48	100	2.18	97
GB0036R	copper	pm10	ng/m3	1.72	100	1.78	100	2.73	100	3.46	100	1.69	100	2.94	100	2.35	99	3.77	100	2.74	100	3.28	100	1.89	100	1.24	100	2.47	100
GB0048R	copper	pm10	ng/m3	0.52	100	0.54	100	0.66	100	0.92	100	0.63	100	1.29	100	0.84	100	0.82	100	1.25	100	1.25	100	0.66	100	0.45	100	0.82	100
NO0002R	copper	pm10	ng/m3	0.20	100	0.39	100	0.62	100	0.44	100	0.69	100	0.63	100	0.36	90	0.50	81	0.38	100	0.64	100	0.41	100	0.66	100	0.50	98

				Jan		Febr		March		April		May		June		July		August		September		October		November		December		2015	
Site	Comp	matrix	Unit	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt	conc	capt
NO0042G	copper	aero	ng/m3	0.20	26	0.50	43	0.15	32	0.20	30	0.20	26	0.64	33	0.14	26	0.04	26	0.08	27	0.59	26	0.36	37	0.22	16	0.29	29
NO0090R	copper	aero	ng/m3	0.29	42	0.21	29	0.30	26	0.05	40	0.10	26	0.10	33	0.07	26	0.24	29	0.37	30	0.09	26	0.07	30	0.20	16	0.17	29
SE0014R	copper	aero	ng/m3	0.64	100	0.67	100	0.81	100	0.57	100	0.21	100	0.29	100	0.25	100	0.44	100	0.39	100	0.51	100	0.36	100	0.37	88	0.46	99
BE0014R	lead	pm10	ng/m3	4.97	61	5.29	100	5.92	97	4.18	100	3.30	100	3.36	100	4.26	100	3.05	71	3.90	97	8.29	100	4.03	100	5.43	97	4.70	93
DE0001R	lead	pm10	ng/m3	1.59	100	3.53	100	3.06	100	1.23	100	1.08	100	0.96	100	1.20	100	1.49	100	1.24	100	4.20	100	2.52	100	2.44	90	2.04	99
DK0008R	lead	aero	ng/m3	1.14	90	1.90	90	1.30	96	0.81	100	0.68	100	0.70	100	0.48	100	0.25	59	-	-	-	-	-	-	-	-	-	61
DK0012R	lead	aero	ng/m3	1.48	97	0.55	100	2.33	100	1.30	100	1.00	100	0.79	74	-	0	0.22	18	1.65	100	3.45	81	1.40	87	2.20	75	1.57	77
ES0008R	lead	pm10	ng/m3	1.83	16	2.29	18	3.74	15	3.23	18	1.45	15	1.96	17	2.09	17	3.17	16	3.23	16	3.86	17	2.67	16	1.95	17	2.62	16
GB0013R	lead	pm10	ng/m3	1.97	100	1.76	100	2.68	100	3.12	100	1.20	100	1.62	100	1.09	100	1.62	100	2.63	100	3.11	100	1.71	76	0.90	46	2.01	93
GB0017R	lead	pm10	ng/m3	4.49	100	4.99	100	4.99	100	2.99	100	2.56	100	2.94	100	2.91	100	2.80	100	2.74	69	5.48	100	6.14	100	3.77	100	3.93	97
GB0036R	lead	pm10	ng/m3	3.64	100	3.46	100	4.21	100	4.89	100	2.51	100	3.50	100	2.25	99	3.34	100	3.26	100	4.30	100	2.37	100	1.92	100	3.30	100
GB0048R	lead	pm10	ng/m3	1.01	100	1.07	100	1.38	100	1.58	100	0.82	100	1.22	100	0.92	100	1.07	100	1.88	100	2.25	100	1.18	100	0.83	100	1.27	100
NL0008R	lead	pm10	ng/m3	3.84	39	5.05	46	6.66	49	3.42	50	3.27	51	3.08	50	3.79	45	4.55	51	3.71	27	7.56	49	5.51	50	7.97	45	4.91	46
NL0644R	lead	pm25	ng/m3	4.37	26	6.23	25	9.57	23	3.89	23	3.35	26	3.29	23	3.08	26	5.09	26	4.79	23	6.14	23	6.30	23	4.18	23	4.98	24
NO0002R	lead	pm10	ng/m3	0.25	100	0.79	100	1.27	100	0.62	100	0.45	100	0.59	100	0.48	90	0.77	81	0.73	100	1.21	100	0.67	100	0.93	100	0.73	98
NO0042G	lead	aero	ng/m3	0.47	26	0.72	43	0.33	32	0.65	30	0.12	26	0.04	33	0.03	26	0.02	26	0.02	27	0.10	26	0.16	37	0.17	16	0.26	29
NO0090R	lead	aero	ng/m3	0.51	42	0.84	29	0.51	26	0.24	40	0.19	26	0.18	33	0.05	26	0.15	29	0.40	30	0.09	26	0.05	30	0.07	16	0.28	29
PT0004R	lead	pm10	ng/m3	0.68	13	0.22	11	0.83	16	0.67	10	1.05	10	0.65	13	0.80	10	0.49	10	0.38	7	1.06	16	1.10	10	4.40	6	0.93	11
PT0006R	lead	pm10	ng/m3	0.28	3	0.56	4	1.09	6	0.27	7	0.18	3	0.59	7	0.46	3	0.53	13	0.38	10	0.28	3	-	-	-	-	0.49	5
SE0014R	lead	aero	ng/m3	0.66	100	1.18	100	1.63	100	0.73	100	0.30	100	0.26	100	0.34	100	0.49	100	0.69	100	0.89	100	0.49	100	0.59	88	0.69	99
GB0036R	mercury	air	ng/m3	1.28	8	-	-	-	-	-	-	-	-	-	-	-	-	1.90	60	1.77	80	1.94	99	1.96	100	1.95	29	-	31
GB0048R	mercury	air	ng/m3	1.30	51	-	-	-	-	-	-	-	-	1.36	47	1.37	92	1.23	59	1.24	54	1.33	57	1.38	61	1.23	62	-	41
GB0048R	mercury	pm25	pg/m3	0.79	28	-	-	-	-	-	-	-	-	-	-	2.49	1	3.26	54	3.49	53	4.21	56	2.54	60	1.85	61	-	26
NO0002R	mercury	air	ng/m3	1.46	87	1.57	96	1.47	94	1.59	90	1.29	96	1.43	94	1.58	93	1.57	92	1.59	92	1.44	94	1.51	96	1.62	100	1.51	94
NO0042G	mercury	air	ng/m3	1.56	98	1.52	99	1.53	94	1.39	98	1.34	100	1.67	86	1.73	97	1.53	92	1.37	96	1.37	95	1.40	95	1.52	94	1.49	95
NO0090R	mercury	air	ng/m3	1.57	19	1.58	83	1.47	79	1.56	84	1.47	100	1.49	98	1.50	98	1.54	76	1.49	91	1.52	89	1.48	79	1.46	84	1.50	82
SE0014R	mercury	air+aero	ng/m3	1.52	28	1.88	26	1.21	23	1.41	30	1.38	29	1.38	27	1.42	29	1.24	29	1.37	29	1.28	26	1.44	24	1.34	23	1.40	27
SE0014R	mercury	aero	pg/m3	1.72	28	3.77	29	7.49	27	4.13	30	2.44	29	2.26	27	2.52	29	3.30	29	1.24	29	2.88	29	2.26	28	1.49	29	2.94	28
BE0014R	nickel	pm10	ng/m3	1.03	61	1.33	100	1.12	97	0.93	100	1.84	100	1.81	100	1.48	100	0.76	71	0.61	97	0.90	100	0.83	100	1.14	97	1.16	93
DE0001R	nickel	pm10	ng/m3	0.50	100	0.53	100	0.58	100	0.32	100	0.17	100	0.34	100	0.38	100	0.53	100	0.34	100	0.46	100	0.26	100	0.50	90	0.41	99
DK0008R	nickel	aero	ng/m3	0.31	90	0.25	93	0.66	100	0.67	97	0.12	100	0.81	97	1.14	100	1.30	59	-	-	-	-	-	-	-	-	-	61
DK0012R	nickel	aero	ng/m3	0.56	97	0.32	96	0.66	100	0.64	97	0.31	27	0.41	29	0.77	24	0.34	18	0.59	97	0.32	77	0.33	87	0.30	75	0.46	68
ES0008R	nickel	pm10	ng/m3	1.30	16	0.73	18	0.81	15	1.06	18	0.75	15	0.83	17	0.76	17	0.60	16	0.70	16	0.80	17	0.47	16	0.75	17	0.80	16
GB0013R	nickel	pm10	ng/m3	0.24	100	0.30	100	1.47	100	0.75	100	0.37	100	0.58	100	3.36	100	0.49	100	0.98	100	1.61	100	1.71	76	0.71	46	1.06	93
GB0017R	nickel	pm10	ng/m3	0.23	100	0.46	100	0.42	100	2.16	100	0.46	100	0.88	100	0.69	85	1.67	25	1.24	69	0.90	100	1.05	100	0.81	100	0.85	90
NL0008R	nickel	pm10	ng/m3	0.40	39	0.46	46	0.68	49	0.46	50	0.51	51	0.69	50	0.94	45	1.02	51	0.50	27	0.72	49	0.88	50	1.07	45	0.71	46
NL0644R	nickel	pm25	ng/m3	0.34	26	0.38	25	0.60	23	0.41	23	0.37	26	0.38	23	0.71	26	0.83	26	0.51	23	0.41	23	0.80	23	0.45	23	0.52	24
NO0002R	nickel	pm10	ng/m3	0.13	100	0.12	100	0.25	100	0.19	100	0.15	100	0.17	100	0.20	90	0.31	81	0.19	100	0.24	100	0.13	100	0.20	100	0.19	98
NO0042G	nickel	aero	ng/m3	0.11	26	0.34	43	0.08	32	0.12	30	0.07	26	0.11	33	0.05	26	0.01	26	0.04	27	0.10	26	0.09	37	0.06	16	0.11	29
NO0090R	nickel	aero	ng/m3	0.14	42	0.28	29	0.18	26	0.04	40	0.04	26	0.08	33	0.08	26	0.13	29	0.09	30	0.03	26	0.01	30	0.03	16	0.10	29
PT0004R	nickel	pm10	ng/m3	0.29	13	0.20	11	2.88	16	0.63	10	1.56	10	0.90	13	1.68	10	0.58	10	0.35	7	0.85	16	0.41	10	1.36	6	1.05	11
PT0006R	nickel	pm10	ng/m3	0.22	3	0.29	4	0.22	6	0.30	7	0.32	3	0.54	7	0.54	3	0.32	13	0.20	10	0.27	3	-	0	-	0	0.31	5
SE0014R	nickel	aero	ng/m3	0.54	100	0.31	100	0.29	100	0.27	100	0.03	100	0.28	100	0.37	100	0.22	100	0.06	100	0.17	100	0.06	100	0.05	88	0.22	99
BE0014R	zinc	pm10	ng/m3	20.69	61	16.56	100	18.25	97	12.70	100	18.35	100	12.03	100	19.65	100	9.23	71	13.84	97	25.73	100	14.36	100	17.03	97	16.62	93
ES0008R	zinc	pm10	ng/m3	4.88	16	8.56	18	15.95	15	20.23	18	20.01	12	22.96	17	32.06	17	26.02	13	270.25	16	78.65	17	16.20	16	11.11	17	43.72	16
GB0013R	zinc	pm10	ng/m3	4.11	100	5.10	100	8.82	100	7.80	100	2.99	100	3.60	100	2.92	100	5.37	100	5.48	100	7.57	100	6.08	76	3.68	46	5.35	93
GB0017R	zinc	pm10	ng/m3	10.92	100	11.42	100	16.17	100	8.62	100	4.82	100	5.47	100	6.74	100	7.14	100	6.74	69	11.88	100	11.65	100	6.33	100	9.04	97
GB0036R	zinc	pm10	ng/m3	6.89	100	7.65	100	10.82	100	9.58	100	5.47	100	9.65	100	5.40	99	7.55	100	8.61	100	12.65	100	6.21	100	3.50	100	7.83	100
GB0048R	zinc	pm10	ng/m3	1.72	100	1.95	100	2.80	100	4.28	100	1.79	100	2.71	100	2.49	100	3.39	100	3.40	100	4.03	100	3.11	100	3.03	100	2.89	100
NL0008R	zinc	pm10	ng/m3	19.12	39	30.07	46	35.11	49	30.90	50	27.29	51	23.34	50	26.06	45	28.73	51	24.30	27	40.05	49	30.47	50	37.80	45	29.78	46
NL0644R	zinc	pm25	ng/m3	17.81	26	24.83	25	37.35	23	20.97	23	23.89	26	22.11	23	22.47	26	25.97	26	26.29	23	30.14	23	25.13	23	24.55	23	25.02	24
NO0002R	zinc	pm10	ng/m3	1.75	100	2.92	100	6.16	100	2.66	100	3.54	100	4.55	100	1.66	90	4.24	81	4.54	100	5.57	100	4.74	100	5.91	100	4.04	98
NO0042G	zinc	aero	ng/m3	1.05	26	4.78	43	1.04	32	2.01	30	0.65	26	2.39	33	0.40	26	0.28	26	0.16	27	1.00	26	0.97	37	0.63	16	1.45	29
NO0090R	zinc	aero	ng/m3	1.61	42	1.49	29	1.78	26	0.64	40	0.70	26	0.69	33	0.25	26	0.54	29	1.03	30	0.41	26	0.21	30	0.29	16	0.84	29
SE0014R	zinc	aero	ng/m3	3.70	100	5.13	100	6.63	100	4.53	100	1.20	100	1.21	100	1.42	100	2.09	100	1.99	100	3.90	100	1.90	100	2.20	88	2.99	99

Table A.2.6 : Concentrations of POPs in precipitation and total deposition, 2015

Site	Comp	matrix	unit	jan	febr	mar	apr	may	june	july	aug	sept	oct	nov	dec	year	capture
BE0014R	PCB_101	precip	ng/L	0.36	0.25	0.46	0.81	0.25	0.30	0.41	0.25	-	-	-	-	0.346	100
BE0014R	precipitation_amount	precip	mm	90	58	25	16	47	38	31	18	-	-	-	-	323	63
BE0014R	PCB_118	precip	ng/L	0.29	0.25	0.46	0.81	0.25	0.30	0.41	0.25	-	-	-	-	0.326	100
BE0014R	PCB_138	precip	ng/L	0.29	0.25	0.46	0.81	0.25	0.30	0.41	0.25	-	-	-	-	0.326	100
BE0014R	PCB_153	precip	ng/L	0.29	0.25	0.46	0.81	0.25	0.30	0.41	0.25	-	-	-	-	0.326	100
BE0014R	PCB_180	precip	ng/L	0.29	0.25	0.46	0.81	0.25	0.30	0.41	0.25	-	-	-	-	0.326	100
BE0014R	PCB_28	precip	ng/L	0.43	0.25	0.46	0.81	0.25	0.30	0.41	0.25	-	-	-	-	0.366	100
BE0014R	PCB_52	precip	ng/L	0.43	0.25	0.46	0.81	0.25	0.30	0.41	0.25	-	-	-	-	0.366	100
BE0014R	op_DDD	precip	ng/L	0.29	0.25	0.46	0.81	0.25	0.30	0.41	0.25	-	-	-	-	0.326	100
BE0014R	op_DDE	precip	ng/L	0.36	0.25	0.46	0.81	0.25	0.30	0.41	0.25	-	-	-	-	0.346	100
BE0014R	op_DDT	precip	ng/L	0.36	0.25	0.46	0.81	0.25	0.30	0.41	0.25	-	-	-	-	0.346	100
BE0014R	pp_DDD	precip	ng/L	0.29	0.25	0.46	0.81	0.25	0.30	0.41	0.25	-	-	-	-	0.326	100
BE0014R	pp_DDE	precip	ng/L	0.32	0.25	0.46	0.81	0.25	0.30	0.41	0.25	-	-	-	-	0.334	100
BE0014R	pp_DDT	precip	ng/L	0.29	0.25	0.46	0.81	0.25	0.30	0.41	0.25	-	-	-	-	0.326	100
BE0014R	PAHs	precip+dry_dep	ng/m2day	Data received but needs to be corrected, updated data will be available in ebas.nilu.no													
BE0013R	anthracene	precip+dry_dep	ng/m2day	3.5	0.6	4.6	0.4	0.7	2.1	3.4	2.6	1.7	3.7	6.2	1.8	2.6	100
BE0013R	benz_a_anthracene	precip+dry_dep	ng/m2day	14.0	8.7	9.8	6.4	5.0	10.0	8.0	11.9	7.4	9.1	9.4	5.9	8.8	100
BE0013R	benzo_a_pyrene	precip+dry_dep	ng/m2day	14.0	10.3	11.6	9.9	10.0	14.5	12.5	17.1	10.7	11.5	14.6	24.9	13.5	100
BE0013R	benzo_b_fluoranthene	precip+dry_dep	ng/m2day	28.4	26.8	17.3	12.9	10.3	16.7	15.9	20.4	15.0	19.6	23.5	17.4	18.6	100
BE0013R	benzo_ghi_perylene	precip+dry_dep	ng/m2day	17.8	10.5	13.0	8.0	6.7	12.5	11.8	12.8	9.2	10.4	14.1	10.1	11.4	100
BE0013R	benzo_k_fluoranthene	precip+dry_dep	ng/m2day	10.6	6.9	6.7	4.9	4.0	5.8	5.7	8.5	5.8	7.1	9.6	6.3	6.8	100
BE0013R	chrysene	precip+dry_dep	ng/m2day	28.2	26.8	18.7	9.7	7.7	10.8	13.1	18.0	12.5	21.0	18.6	16.9	16.8	100
BE0013R	dibenzo_ah_anthracene	precip+dry_dep	ng/m2day	2.9	2.5	0.9	0.8	0.8	0.8	1.7	2.2	0.8	0.8	4.9	4.2	2.0	100
BE0013R	fluoranthene	precip+dry_dep	ng/m2day	73.2	37.8	45.5	25.0	9.7	15.5	23.9	34.6	27.4	43.0	31.9	23.8	32.6	100
BE0013R	fluorene	precip+dry_dep	ng/m2day	9.4	2.3	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.4	100
BE0013R	inden_123cd_pyrene	precip+dry_dep	ng/m2day	15.3	11.9	11.6	8.2	7.7	10.8	11.4	14.5	9.9	11.5	14.6	11.5	11.6	100
BE0013R	naphthalene	precip+dry_dep	ng/m2day	19.9	5.0	62.6	5.0	5.0	5.0	5.0	5.0	15.8	12.8	13.2	13.2	14.1	100
BE0013R	pyrene	precip+dry_dep	ng/m2day	71.9	47.3	41.8	29.8	13.4	21.0	28.2	32.3	25.0	36.8	24.1	16.9	32.4	100
DE0001R	alpha_HCH	precip	ng/L	0.07	0.10	0.10	0.02	0.10	0.01	0.08	0.10	0.09	0.07	0.10	0.08	0.09	100
DE0001R	precipitation_amount	precip	mm	80	40	73	25	78	32	91	86	132	46	129	105	917	100
DE0001R	gamma_HCH	precip	ng/L	0.58	0.76	0.76	0.62	0.84	0.89	0.68	0.68	0.50	0.52	0.54	0.59	0.64	100
ES0008R	acenaphthene	precip+dry_dep	ng/m2day	-	-	-	-	-	-	-	-	0	0	0	0	-	-
ES0008R	acenaphthylene	precip+dry_dep	ng/m2day	-	-	-	-	-	-	-	-	0	0	0	0	-	-
ES0008R	anthracene	precip+dry_dep	ng/m2day	-	-	-	-	-	-	-	-	2.64	0	0	0	-	-
ES0008R	benz_a_anthracene	precip+dry_dep	ng/m2day	-	-	-	-	-	-	-	-	0.77	0.3	0	1.7	-	-
ES0008R	benzo_a_pyrene	precip+dry_dep	ng/m2day	-	-	-	-	-	-	-	-	1.68	0	0	1.71	-	-
ES0008R	benzo_ghi_perylene	precip+dry_dep	ng/m2day	-	-	-	-	-	-	-	-	8.82	0	0	5.17	-	-
ES0008R	benzo_k_fluoranthene	precip+dry_dep	ng/m2day	-	-	-	-	-	-	-	-	2.22	0	0.8	4.89	-	-
ES0008R	chrysene	precip+dry_dep	ng/m2day	-	-	-	-	-	-	-	-	2.36	1.6	1.98	8.96	-	-
ES0008R	dibenzo_ah_anthracene	precip+dry_dep	ng/m2day	-	-	-	-	-	-	-	-	8.67	2.67	0	2.53	-	-
ES0008R	fluoranthene	precip+dry_dep	ng/m2day	-	-	-	-	-	-	-	-	1.28	1.98	1.73	3.9	-	-
ES0008R	fluorene	precip+dry_dep	ng/m2day	-	-	-	-	-	-	-	-	0	43.22	35.88	82.51	-	-
ES0008R	inden_123cd_pyrene	precip+dry_dep	ng/m2day	-	-	-	-	-	-	-	-	8	2	2	8	-	-
ES0008R	naphthalene	precip+dry_dep	ng/m2day	-	-	-	-	-	-	-	-	0	0	0	0	-	-
ES0008R	phenanthrene	precip+dry_dep	ng/m2day	-	-	-	-	-	-	-	-	11.48	5.04	15.99	0.00	-	-
ES0008R	pyrene	precip+dry_dep	ng/m2day	-	-	-	-	-	-	-	-	1	1	1	2	-	-
NL0091R	gamma_HCH	precip	ng/L	6.15	8.1669	1.1887	0.8981	1.0509	4.7834	3.1192	0.3487	0.7029	3.2035	0.2893	0.5525	1.8947	100
NL0091R	precipitation_amount	precip	mm	27	69	30	43	32	26	48	123	109	45	163	52	767	99
NL0091R	acenaphthene	precip	ng/L	3.0122	2.5342	2.9483	2.3932	2.116	2.3017	2.1687	0.6319	0.6166	1.7484	0.2437	0.5437	1.2675	100
NL0091R	acenaphthylene	precip	ng/L	3.7927	2.6572	1.6203	1.2513	2.0967	2.0954	3.5894	1.3735	0.7474	1.1865	0.2549	0.8205	1.3978	100
NL0091R	anthracene	precip	ng/L	1.9167	1.7483	1.4149	1.2743	1.38	1.477	2.389	0.7299	0.5315	1.457	0.2942	0.7888	1.0041	100
NL0091R	benz_a_anthracene	precip	ng/L	3.3011	5.2275	2.4821	3.1888	3.7369	6.1109	9.6691	2.6955	2.0075	3.9257	0.9081	4.2495	3.2638	100

Site	Comp	matrix	unit	jan	febr	mar	apr	may	june	july	aug	sept	oct	nov	dec	year	capture
NL0091R	benzo_a_pyrene	precip	ng/L	3.6158	5.4304	3.2183	3.9313	6.0055	9.411	11.095	2.951	2.657	4.8419	1.3074	6.9221	4.1121	100
NL0091R	benzo_bjk_fluoranthenes	precip	ng/L	12.3361	19.2871	8.6114	9.7995	13.8915	24.9284	33.1726	8.8048	8.0808	13.4112	3.462	15.2863	11.6899	100
NL0091R	benzo_ghi_perylene	precip	ng/L	4.4828	7.3665	3.3117	4.0433	5.043	9.3056	12.562	3.349	3.1422	4.8863	1.3	5.8381	4.4365	100
NL0091R	chrysene	precip	ng/L	8.6392	12.716	6.1096	6.4694	6.73	13.8472	21.8338	5.9756	4.8288	9.1301	2.0792	7.9017	7.3349	100
NL0091R	dibenzo_ah_anthracene	precip	ng/L	0.9796	1.5015	0.7658	0.8917	1.1125	1.9884	2.736	0.7122	0.6738	1.3301	0.306	1.5579	0.9943	100
NL0091R	fluoranthene	precip	ng/L	18.7582	23.4587	14.3261	13.2675	13.9848	26.0925	38.5125	13.2511	11.9659	23.7975	4.8453	14.2283	15.1858	100
NL0091R	fluorene	precip	ng/L	4.8058	4.3834	3.6021	2.6233	3.0175	4.0793	5.3711	2.2379	1.638	4.0964	0.5252	1.0722	2.4713	100
NL0091R	inden_123cd_pyrene	precip	ng/L	3.4638	5.6928	2.7077	3.2199	4.0137	7.1348	9.6531	2.7031	2.3436	3.8264	1.0456	5.0693	3.495	100
NL0091R	naphthalene	precip	ng/L	11.4085	8.9059	6.1544	3.218	5.2716	10.2385	12.7695	4.9956	3.652	10.3835	1.0485	2.5062	5.3197	100
NL0091R	phenanthrene	precip	ng/L	19.2967	21.7297	14.8035	11.2216	12.4756	22.2867	31.3882	11.4579	9.2831	22.6058	3.5493	8.3672	12.9025	100
NL0091R	pyrene	precip	ng/L	11.715	14.9393	8.8617	8.7778	9.1722	19.0212	30.4458	9.8647	7.3634	15.0645	3.3314	11.5146	10.5428	100
NO0001R	HCB	precip	ng/L	0.0583	0.1285	0.0635	0.1687	0.0914	0.0861	0.1422	0.1017	0.0781	0.0518	0.0424	0.0583	0.0867	96
NO0001R	precipitation_amount	precip	mm	280	149	88	37	176	85	155	259	536	60	91	149	2064	86
NO0001R	PCB_101	precip	ng/L	0.0087	0.0195	0.0102	0.0179	0.0098	0.0212	0.0106	0.0098	0.009	0.0086	0.0464	0.0657	0.0166	98
NO0001R	PCB_118	precip	ng/L	0.0067	0.0183	0.0054	0.0118	0.0066	0.0247	0.0085	0.0071	0.0055	0.0057	0.0133	0.0174	0.0092	100
NO0001R	PCB_138	precip	ng/L	0.0082	0.0179	0.0067	0.0147	0.0069	0.0127	0.0079	0.007	0.0064	0.0085	0.0397	0.0497	0.0128	100
NO0001R	PCB_153	precip	ng/L	0.0104	0.0234	0.0093	0.0196	0.0112	0.0148	0.0112	0.0114	0.0087	0.0111	0.0528	0.0761	0.0181	100
NO0001R	PCB_180	precip	ng/L	0.0054	0.0148	0.0042	0.0097	0.0048	0.0039	0.0043	0.0038	0.0032	0.0064	0.0147	0.0176	0.0065	96
NO0001R	PCB_28	precip	ng/L	0.0054	0.0151	0.0061	0.0138	0.0058	0.0044	0.0068	0.0058	0.0043	0.0029	0.0033	0.0066	0.0061	100
NO0001R	PCB_52	precip	ng/L	0.006	0.015	0.0069	0.0116	0.0049	0.0153	0.0058	0.0056	0.0043	0.004	0.0088	0.0137	0.0072	100
NO0001R	PCB_99	precip	ng/L	0.003	0.007	0.003	0.008	0.004	0.008	0.006	0.005	0.004	0.002	0.002	0.003	0.004	100
NO0001R	alpha_HCH	precip	ng/L	0.052	0.070	0.069	0.120	0.102	0.111	0.122	0.105	0.140	0.127	0.093	0.072	0.102	100
NO0001R	gamma_HCH	precip	ng/L	0.078	0.145	0.091	0.268	0.301	0.318	0.239	0.224	0.268	0.165	0.177	0.151	0.207	100
SE0014R	BDE_209	precip+dry_dep	ng/m2day	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	99
SE0014R	BDE_47	precip+dry_dep	ng/m2day	0.011	0.010	0.049	0.042	0.084	0.013	0.048	0.034	0.010	0.010	0.012	0.070	0.033	99
SE0014R	BDE_99	precip+dry_dep	ng/m2day	0.035	0.010	0.049	0.010	0.010	0.010	0.010	0.010	0.015	0.060	0.013	0.060	0.024	99
SE0014R	HCB	precip+dry_dep	ng/m2day	0.084	0.046	0.080	0.063	0.090	0.051	0.054	0.033	0.062	0.015	0.062	0.066	0.059	99
SE0014R	PCB_101	precip+dry_dep	ng/m2day	0.011	0.010	0.010	0.010	0.010	0.010	0.025	0.109	0.046	0.010	0.010	0.010	0.023	99
SE0014R	PCB_118	precip+dry_dep	ng/m2day	0.011	0.010	0.010	0.010	0.010	0.010	0.018	0.060	0.046	0.010	0.010	0.010	0.018	99
SE0014R	PCB_138	precip+dry_dep	ng/m2day	0.152	0.070	0.050	0.038	0.090	0.061	0.072	0.080	0.077	0.050	0.107	0.070	0.076	99
SE0014R	PCB_153	precip+dry_dep	ng/m2day	0.155	0.050	0.058	0.041	0.120	0.094	0.153	0.168	0.096	0.060	0.125	0.060	0.099	99
SE0014R	PCB_180	precip+dry_dep	ng/m2day	0.154	0.050	0.039	0.026	0.070	0.053	0.093	0.109	0.067	0.040	0.078	0.050	0.070	99
SE0014R	PCB_28	precip+dry_dep	ng/m2day	0.011	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010	99
SE0014R	PCB_52	precip+dry_dep	ng/m2day	0.016	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015	99
SE0014R	alpha_HCH	precip+dry_dep	ng/m2day	0.035	0.030	0.030	0.035	0.092	0.062	0.079	0.063	0.006	0.006	0.006	0.021	0.039	99
SE0014R	anthracene	precip+dry_dep	ng/m2day	0.887	0.500	0.935	0.225	0.400	0.295	0.231	0.398	0.282	0.100	0.496	1.000	0	99
SE0014R	benz_a_anthracene	precip+dry_dep	ng/m2day	4.548	3.000	5.597	1.125	2.000	0.122	1.153	2.000	1.908	1.000	2.942	4.000	2.4392	99
SE0014R	benzo_a_pyrene	precip+dry_dep	ng/m2day	6.323	4.000	7.444	1.125	2.000	1.008	1.460	3.976	2.817	1.000	2.967	5.000	3.2498	99
SE0014R	benzo_b_fluoranthene	precip+dry_dep	ng/m2day	12.540	7.000	12.137	2.250	4.000	2.017	2.460	5.000	4.725	2.000	7.800	10.000	5.964	99
SE0014R	benzo_ghi_perylene	precip+dry_dep	ng/m2day	8.242	6.000	8.484	2.000	2.000	1.067	2.307	3.976	2.908	2.000	3.967	6.000	4.0609	99
SE0014R	benzo_k_fluoranthene	precip+dry_dep	ng/m2day	4.548	3.000	4.694	1.125	2.000	1.008	1.153	2.000	1.908	1.000	2.942	4.000	2.4353	99
SE0014R	chrysene	precip+dry_dep	ng/m2day	20.258	15.000	16.637	11.875	11.000	0.255	2.307	4.024	4.725	2.000	9.692	11.000	9.0219	99
SE0014R	dibenzo_ah_anthracene	precip+dry_dep	ng/m2day	1.000	1.000	0.961	0.313	0.400	0.202	0.323	0.988	0.473	0.200	0.967	1.000	0.6473	99
SE0014R	fluoranthene	precip+dry_dep	ng/m2day	31.839	21.000	27.323	5.500	9.000	4.042	4.919	10.000	9.358	3.000	19.367	23.000	13.9273	99
SE0014R	gamma_HCH	precip+dry_dep	ng/m2day	0.040	0.016	0.024	0.022	0.140	0.063	0.064	0.006	0.006	0.006	0.006	0.006	0.0337	99
SE0014R	inden_123cd_pyrene	precip+dry_dep	ng/m2day	8.952	5.000	7.540	2.125	3.000	1.017	1.460	3.976	2.817	1.000	4.883	7.000	4.0408	99
SE0014R	phenanthrene	precip+dry_dep	ng/m2day	24.339	19.000	22.839	7.750	13.000	6.117	7.153	8.000	7.542	3.000	17.375	18.000	12.773	99
SE0014R	pp_DDD	precip+dry_dep	ng/m2day	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.020	0.02	99
SE0014R	pp_DDE	precip+dry_dep	ng/m2day	0.061	0.050	0.087	0.061	0.070	0.022	0.037	0.021	0.055	0.005	0.005	0.005	0	99
SE0014R	pp_DDT	precip+dry_dep	ng/m2day	0.042	0.032	0.119	0.017	0.067	0.012	0.042	0.063	0.042	0.010	0.011	0.058	0.0431	99
SE0014R	pyrene	precip+dry_dep	ng/m2day	21.331	12.000	19.677	4.375	7.000	3.033	3.613	7.000	6.633	3.000	12.658	16.000	9.64	99

Table A.2.7 : Concentrations of POPs in air, 2015

Site	Comp	matrix	unit	jan	febr	mar	apr	may	june	july	aug	sept	oct	nov	dec	year	capture
BE0013R	benz_a_anthracene	pm10	ng/m3	0.0514	0.0528	0.0507	0.022	0.0531	0.0171	0.0525	0.0094	0.0146	0.0727	0.0155	0.0313	0.037	33
BE0013R	benzo_a_pyrene	pm10	ng/m3	0.0799	0.072	0.1041	0.0323	0.022	0.0163	0.0253	0.0131	0.0299	0.1312	0.0293	0.054	0.0506	33
BE0013R	benzo_ghi_perylene	pm10	ng/m3	0.137	0.1425	0.1452	0.0548	0.0229	0.028	0.0328	0.0142	0.0349	0.1769	0.0566	0.0909	0.0777	33
BE0013R	chrysene	pm10	ng/m3	0.1479	0.15	0.1536	0.0556	0.0313	0.0174	0.0237	0.0285	0.0423	0.1864	0.0532	0.0871	0.0809	33
BE0013R	fluoranthene	pm10	ng/m3	0.0723	0.0929	0.1114	0.0551	0.0613	0.0309	0.0445	0.04	0.043	0.2023	0.0432	0.065	0.0716	33
BE0013R	inden_123cd_pyrene	pm10	ng/m3	0.1072	0.104	0.0884	0.0409	0.0293	0.0133	0.0155	0.0115	0.0277	0.1447	0.0398	0.0893	0.0589	33
BE0013R	pyrene	pm10	ng/m3	0.0745	0.0936	0.1265	0.067	0.074	0.0525	0.0468	0.0287	0.035	0.174	0.0366	0.0681	0.0729	33
ES0008R	acenaphthene	pm10	ng/m3	0.085	0.0425	0.0159	0	0	0.0071	0.0138	0	0	0	0	0	0.0083	35
ES0008R	acenaphthylene	pm10	ng/m3	0.065	0	0.0018	0.0058	0.0019	0	0.0092	0	0	0	0	0.01	0.005	35
ES0008R	anthracene	pm10	ng/m3	0.005	0	0.0038	0	0	0	0.0012	0	0.0066	0.0049	0	0	0.0018	35
ES0008R	benz_a_anthracene	pm10	ng/m3	0.015	0	0.0041	0.0059	0.0045	0.0012	0.026	0.0116	0.0134	0.1106	0.0075	0.035	0.0213	35
ES0008R	benzo_a_pyrene	pm10	ng/m3	0.114	0	0.0436	0.1069	0.0107	0.0046	0.0601	0	0.0018	0.0885	0.0925	0.255	0.0544	35
ES0008R	benzo_ghi_perylene	pm10	ng/m3	0.015	0.0037	0.0041	0	0.0102	0.0058	1.8186	1.8681	0.7298	0	0	0.59	0.5013	35
ES0008R	benzo_k_fluoranthene	pm10	ng/m3	0.024	0.0575	0.0332	0.0375	0.0168	0.0064	1.3019	1.7537	0.6705	0.2736	0.1875	1.125	0.5046	35
ES0008R	chrysene	pm10	ng/m3	0.029	0.035	0.0836	0.0682	0.0405	0.0181	0.1838	0.138	0.0729	0.4405	0.3287	0.1	0.1365	35
ES0008R	dibenzo_ah_anthracene	pm10	ng/m3	0.015	0	0	0	0	0.0012	0.4829	0.5328	0.238	0	0	0.1245	0.1402	35
ES0008R	fluorene	pm10	ng/m3	0.02	0.02	0.0323	0.0446	0.001	0.0038	0.002	0	0.0448	0.0894	0.15	0	0.033	35
ES0008R	fluoranthene	pm10	ng/m3														
ES0008R	inden_123cd_pyrene	pm10	ng/m3	0.024	0.01	0.0095	0.0059	0.0124	0.0063	2.4244	2.8956	1.1064	0.0293	0.0813	0.865	0.7401	35
ES0008R	naphthalene	pm10	ng/m3	0.085	0.085	0.035	0.03	0.03	0.03	0.03	0.03	0.0191	0	0	0.0105	0.0272	35
ES0008R	phenanthrene	pm10	ng/m3	0.015	0.015	0.0114	0.0244	0.0147	0.0085	0.0434	0.0328	0.0373	0.2834	0.0575	0.07	0.0558	35
ES0008R	pyrene	pm10	ng/m3	0.035	0.035	0.0282	0.0312	0.01	0.01	0.069	0.0435	0.0274	0.3176	0.2025	0.075	0.0749	35
GB0014R	anthanthrene	aerosol	ng/m3	0.022	0.022	0.019	0.003	0.001	0.004	0.003	0.002	0.004	0.017	0.025	0.012	0.0111	100
GB0014R	benz_a_anthracene	aerosol	ng/m3	0.164	0.134	0.113	0.095	0.017	0.029	0.019	0.055	0.049	0.081	0.056	0.047	0.0712	100
GB0014R	benzo_a_pyrene	aerosol	ng/m3	0.134	0.125	0.127	0.083	0.018	0.031	0.025	0.05	0.047	0.073	0.055	0.038	0.0668	100
GB0014R	benzo_b_fluoranthene	aerosol	ng/m3	0.275	0.287	0.203	0.194	0.05	0.072	0.065	0.158	0.164	0.219	0.188	0.144	0.1674	100
GB0014R	benzo_e_pyrene	aerosol	ng/m3	0.228	0.206	0.181	0.144	0.036	0.053	0.042	0.103	0.101	0.137	0.132	0.094	0.1209	100
GB0014R	benzo_ghi_perylene	aerosol	ng/m3	0.186	0.18	0.134	0.115	0.029	0.042	0.035	0.077	0.071	0.103	0.106	0.092	0.097	100
GB0014R	benzo_k_fluoranthene	aerosol	ng/m3	0.128	0.131	0.111	0.084	0.02	0.035	0.024	0.073	0.065	0.105	0.09	0.063	0.0771	100
GB0014R	chrysene	aerosol	ng/m3	0.309	0.272	0.212	0.178	0.037	0.048	0.042	0.12	0.1	0.117	0.113	0.08	0.1348	100
GB0014R	coronene	aerosol	ng/m3	0.078	0.071	0.057	0.035	0.012	0.01	0.01	0.034	0.022	0.059	0.048	0.047	0.0401	100
GB0014R	cyclopenta_cd_pyrene	aerosol	ng/m3	0.034	0.028	0.033	0.014	0.003	0.004	0.006	0.011	0.008	0.028	0.021	0.026	0.018	100
GB0014R	dibenzo_ah_anthracene	aerosol	ng/m3	0.091	0.037	0.024	0.019	0.005	0.009	0.014	0.033	0.022	0.054	0.027	0.016	0.0293	100
GB0014R	dibenzo_ai_pyrene	aerosol	ng/m3	0.086	0.052	0.025	0.018	0.005	0.006	0.016	0.024	0.018	0.047	0.047	0.027	0.0308	100
GB0014R	inden_123cd_pyrene	aerosol	ng/m3	0.181	0.155	0.12	0.1	0.023	0.045	0.035	0.084	0.079	0.148	0.14	0.113	0.1016	100
GB0014R	perylene	aerosol	ng/m3	0.03	0.027	0.026	0.02	0.004	0.008	0.006	0.014	0.013	0.014	0.012	0.008	0.0151	100
GB0036R	anthanthrene	pm10	ng/m3	0.027	0.023	0.002	0.008	0.002	0.003	0.003	0.001	0.001	0.021	0.026	0.003	0.0099	100
GB0036R	benz_a_anthracene	pm10	ng/m3	0.086	0.116	0.091	0.03	0.018	0.023	0.017	0.041	0.042	0.085	0.064	0.032	0.0534	100
GB0036R	benzo_a_pyrene	pm10	ng/m3	0.09	0.131	0.097	0.034	0.023	0.027	0.023	0.037	0.038	0.079	0.054	0.022	0.0541	100
GB0036R	benzo_b_fluoranthene	pm10	ng/m3	0.176	0.24	0.192	0.081	0.057	0.073	0.061	0.125	0.154	0.237	0.161	0.116	0.1388	100
GB0036R	benzo_e_pyrene	pm10	ng/m3	0.131	0.182	0.173	0.06	0.038	0.051	0.039	0.077	0.093	0.146	0.103	0.061	0.0957	100
GB0036R	benzo_ghi_perylene	pm10	ng/m3	0.119	0.161	0.104	0.066	0.032	0.042	0.032	0.058	0.055	0.116	0.086	0.052	0.0764	100
GB0036R	benzo_k_fluoranthene	pm10	ng/m3	0.082	0.115	0.1	0.035	0.023	0.034	0.023	0.057	0.064	0.113	0.078	0.048	0.064	100
GB0036R	chrysene	pm10	ng/m3	0.176	0.233	0.187	0.075	0.044	0.048	0.041	0.095	0.113	0.12	0.107	0.058	0.1073	100
GB0036R	coronene	pm10	ng/m3	0.057	0.053	0.043	0.03	0.013	0.012	0.009	0.029	0.02	0.066	0.037	0.026	0.0328	100
GB0036R	cyclopenta_cd_pyrene	pm10	ng/m3	0.04	0.047	0.008	0.011	0.003	0.003	0.005	0.008	0.007	0.029	0.023	0.017	0.0166	100
GB0036R	dibenzo_ae_pyrene	pm10	ng/m3	0.041	0.036	0.018	0.016	0.008	0.006	0.007	0.013	0.009	0.041	0.031	0.015	0.02	100
GB0036R	dibenzo_ah_anthracene	pm10	ng/m3	0.063	0.051	0.015	0.008	0.005	0.008	0.009	0.023	0.017	0.061	0.022	0.008	0.0241	100
GB0036R	dibenzo_ah_pyrene	pm10	ng/m3	0.01	0.006	0.011	0.009	0.009	0.009	0.002	0.009	0.009	0.005	0.005	0	0.007	100
GB0036R	dibenzo_ai_pyrene	pm10	ng/m3	0.061	0.041	0.008	0.013	0.007	0.012	0.015	0.015	0.006	0.05	0.046	0.013	0.0238	100
GB0036R	inden_123cd_pyrene	pm10	ng/m3	0.13	0.137	0.092	0.05	0.026	0.046	0.034	0.067	0.06	0.165	0.128	0.077	0.084	100
GB0036R	perylene	pm10	ng/m3	0.02	0.024	0.02	0.007	0.006	0.008	0.006	0.009	0.007	0.016	0.012	0.005	0.0116	100
GB0048R	anthanthrene	pm10	ng/m3	0.015	0.01	0.005	0.004	0.001	0.001	0.002	0.001	0.001	0.004	0.005	0.005	0.0045	100
GB0048R	benz_a_anthracene	pm10	ng/m3	0.054	0.05	0.048	0.015	0.01	0.006	0.005	0.006	0.019	0.031	0.039	0.03	0.026	100
GB0048R	benzo_a_pyrene	pm10	ng/m3	0.044	0.048	0.031	0.016	0.008	0.007	0.006	0.008	0.016	0.03	0.024	0.03	0.0222	100

Site	Comp	matrix	unit	jan	febr	mar	apr	may	june	july	aug	sept	oct	nov	dec	year	capture
GB0048R	benzo_b_fluoranthene	pm10	ng/m3	0.104	0.104	0.099	0.04	0.027	0.017	0.017	0.021	0.068	0.098	0.112	0.1	0.067	100
GB0048R	benzo_e_pyrene	pm10	ng/m3	0.072	0.072	0.064	0.031	0.02	0.012	0.011	0.014	0.044	0.064	0.069	0.066	0.0448	100
GB0048R	benzo_ghi_perylene	pm10	ng/m3	0.062	0.069	0.054	0.037	0.018	0.014	0.012	0.014	0.029	0.054	0.048	0.057	0.0388	100
GB0048R	benzo_k_fluoranthene	pm10	ng/m3	0.044	0.047	0.036	0.019	0.011	0.008	0.006	0.011	0.028	0.041	0.049	0.038	0.028	100
GB0048R	chrysene	pm10	ng/m3	0.094	0.096	0.086	0.036	0.023	0.014	0.011	0.017	0.042	0.069	0.059	0.047	0.0492	100
GB0048R	coronene	pm10	ng/m3	0.015	0.022	0.026	0.016	0.007	0.006	0.004	0.005	0.01	0.017	0.02	0.02	0.0139	100
GB0048R	cyclopenta_cd_pyrene	pm10	ng/m3	0.023	0.025	0.029	0.006	0.003	0.001	0.002	0.002	0.002	0.007	0.007	0.011	0.0098	100
GB0048R	dibenzo_ae_pyrene	pm10	ng/m3	0.016	0.014	0.012	0.009	0.003	0.003	0.003	0.002	0.005	0.01	0.016	0.01	0.0085	100
GB0048R	dibenzo_ah_anthracene	pm10	ng/m3	0.021	0.024	0.009	0.004	0.002	0.003	0.005	0.003	0.01	0.016	0.013	0.008	0.0097	100
GB0048R	dibenzo_ah_pyrene	pm10	ng/m3	0.04	0.005	0.003	0.01	0.01	0.01	0.002	0.01	0.001	0.001	0.004	0.001	0.0081	100
GB0048R	dibenzo_ai_pyrene	pm10	ng/m3	0.044	0.015	0.01	0.007	0.002	0.001	0.007	0.002	0.003	0.012	0.022	0.011	0.0113	100
GB0048R	inden_123cd_pyrene	pm10	ng/m3	0.066	0.059	0.059	0.029	0.014	0.011	0.011	0.013	0.032	0.062	0.081	0.064	0.0416	100
GB0048R	perylene	pm10	ng/m3	0.008	0.008	0.006	0.003	0.002	0.001	0.002	0.002	0.003	0.006	0.005	0.006	0.0043	100
NL0091R	benz_a_anthracene	pm10	ng/m3	0.0442	0.0556	0.0506	0.016	0.0063	0.007	0.0086	0.0162	0.0135	0.0689	0.0308	0.0336	0.0294	50
NL0091R	benzo_a_pyrene	pm10	ng/m3	0.0604	0.0877	0.0706	0.0234	0.01	0.013	0.0125	0.0195	0.0188	0.1115	0.0516	0.0603	0.0451	50
NL0091R	benzo_bjk_fluoranthenes	pm10	ng/m3	0.3276	0.4147	0.3256	0.1518	0.0444	0.038	0.0503	0.0785	0.0823	0.3907	0.2219	0.2705	0.2	50
NL0091R	benzo_ghi_perylene	pm10	ng/m3	0.1672	0.1958	0.1619	0.0708	0.0217	0.0227	0.0184	0.0341	0.0357	0.1679	0.1009	0.1308	0.0941	50
NL0091R	chrysene	pm10	ng/m3	0.122	0.1495	0.1246	0.0524	0.0217	0.0193	0.0224	0.0346	0.0314	0.1653	0.0863	0.0937	0.0772	50
NL0091R	dibenzo_ah_anthracene	pm10	ng/m3	0.0206	0.0265	0.0198	0.011	0.0037	0.0027	0.0039	0.0059	0.0061	0.0247	0.0135	0.018	0.013	50
NL0091R	inden_123cd_pyrene	pm10	ng/m3	0.1304	0.1692	0.1409	0.0654	0.021	0.0217	0.0198	0.0339	0.037	0.1696	0.0973	0.134	0.0869	50
NO0002R	FTS_6-2	air+aerosol	pg/m^3	0.034	0.0443	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.034	0.0553	0.0353	0.0375	10
NO0002R	PFBS	air+aerosol	pg/m^3	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	14
NO0002R	PFDcA	air+aerosol	pg/m^3	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	12
NO0002R	PFDcS	air+aerosol	pg/m^3	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	14
NO0002R	PFHpA	air+aerosol	pg/m^3	0.068	0.068	0.069	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.0681	12
NO0002R	PFHxA	air+aerosol	pg/m^3	0.102	0.102	0.1294	0.1067	0.102	0.1264	0.1367	0.1546	0.102	0.102	0.102	0.102	0.1167	13
NO0002R	PFHxS	air+aerosol	pg/m^3	0.017	0.017	0.0202	0.017	0.017	0.017	0.0442	0.017	0.017	0.017	0.017	0.017	0.02	12
NO0002R	PFNA	air+aerosol	pg/m^3	0.068	0.068	0.068	0.068	0.068	0.101	0.068	0.068	0.068	0.068	0.068	0.068	0.0718	10
NO0002R	PFOA	air+aerosol	pg/m^3	0.0635	0.0985	0.1168	0.1098	0.085	0.1658	0.112	0.1874	0.062	0.051	0.0806	0.1205	0.1107	13
NO0002R	PFOS	air+aerosol	pg/m^3	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	0.051	11
NO0002R	PFOSA	air+aerosol	pg/m^3	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	13
NO0002R	PFUnA	air+aerosol	pg/m^3	0.068	0.068	0.068	-	-	0.068	0.068	0.068	0.068	0.068	0.068	0.068	0.068	11
NO0002R	alpha_HCH	air+aerosol	pg/m^3	2.4974	2.5951	3.1994	3.0823	3.3042	4.4468	5.0016	6.2179	6.3923	5.5539	3.8116	3.5699	4.1497	14
NO0002R	cis_CD	air+aerosol	pg/m^3	0.3597	0.353	0.2661	0.3898	0.356	0.4742	0.4647	0.5452	0.4606	0.4052	0.4107	0.4528	0.4171	13
NO0002R	cis_NO	air+aerosol	pg/m^3	0.0209	0.0231	0.0227	0.0352	0.0306	0.0539	0.0535	0.0589	0.0568	0.0318	0.0341	0.0297	0.0381	14
NO0002R	gamma_HCH	air+aerosol	pg/m^3	0.8702	1.8044	1.7494	2.458	1.5537	2.9403	4.2675	4.2742	3.0359	2.0018	2.9233	1.9368	2.4672	14
NO0002R	op_DDD	air+aerosol	pg/m^3	0.0202	0.0207	0.0164	0.0173	0.0143	0.0162	0.0228	0.0264	0.0231	0.0192	0.0238	0.0263	0.0205	14
NO0002R	op_DDE	air+aerosol	pg/m^3	0.0806	0.089	0.0891	0.0652	0.0378	0.0308	0.0342	0.0386	0.0422	0.0575	0.0793	0.0814	0.0591	13
NO0002R	op_DDT	air+aerosol	pg/m^3	0.1205	0.155	0.2087	0.15	0.0944	0.1742	0.2014	0.3598	0.2748	0.2272	0.2639	0.1831	0.1987	14
NO0002R	pp_DDD	air+aerosol	pg/m^3	0.0151	0.0144	0.0176	0.0159	0.0148	0.0149	0.016	0.0173	0.0173	0.0187	0.0195	0.0184	0.0167	14
NO0002R	pp_DDE	air+aerosol	pg/m^3	0.8376	1.0874	1.2347	0.6408	0.4182	0.511	0.5644	0.9146	1.0975	1.3353	2.4287	1.2116	1.0138	14
NO0002R	pp_DDT	air+aerosol	pg/m^3	0.0932	0.1277	0.1558	0.1153	0.096	0.2222	0.2592	0.4589	0.2795	0.3032	0.285	0.1524	0.2118	14
NO0002R	sum_DDT	air+aerosol	pg/m^3	1.1683	1.4942	1.7253	1.0045	0.6753	0.9693	1.06	1.8157	1.7344	1.9611	3.1002	1.6732	1.5092	14
NO0002R	trans_CD	air+aerosol	pg/m^3	0.22	0.2355	0.1675	0.1992	0.1392	0.1409	0.136	0.1435	0.1447	0.1449	0.2287	0.2725	0.1827	13
NO0002R	trans_NO	air+aerosol	pg/m^3	0.3449	0.347	0.2641	0.408	0.3278	0.4151	0.3966	0.4641	0.4663	0.3717	0.4589	0.489	0.3972	14
NO0002R	1-methylnaphthalene	air+aerosol	ng/m3	0.1174	0.0665	0.082	0.0413	0.0322	0.0301	0.0247	0.0253	0.0321	0.0569	0.0591	0.2379	0.065	15
NO0002R	1-methylphenanthrene	air+aerosol	ng/m3	0.1066	0.0586	0.0586	0.0299	0.0307	0.0505	0.0217	0.0243	0.0387	0.0396	0.0795	0.0747	0.0487	15
NO0002R	2-methylanthracene	air+aerosol	ng/m3	0.0083	0.004	0.0066	0.0015	0.0027	0.0053	0.0013	0.0016	0.0015	0.002	0.007	0.0034	0.0035	11
NO0002R	2-methylnaphthalene	air+aerosol	ng/m3	0.1397	0.0832	0.1422	0.0677	0.049	0.0528	0.0372	0.0384	0.0478	0.0755	0.0758	0.2666	0.0874	15
NO0002R	2-methylphenanthrene	air+aerosol	ng/m3	0.1489	0.0779	0.0723	0.0352	0.0466	0.0687	0.037	0.0475	0.0637	0.0461	0.1018	0.0941	0.0671	15
NO0002R	3-methylphenanthrene	air+aerosol	ng/m3	0.1324	0.0667	0.0666	0.029	0.0397	0.059	0.0339	0.0426	0.0552	0.0387	0.0885	0.0801	0.0586	15
NO0002R	9-methylphenanthrene	air+aerosol	ng/m3	0.0448	0.0271	0.0331	0.0137	0.0188	0.025	0.0142	0.0172	0.0215	0.0174	0.0376	0.0364	0.0249	15
NO0002R	BDE_100	air+aerosol	pg/m^3	0.0095	0.0109	0.0436	0.0095	0.0149	0.0101	0.0262	0.0101	0.0142	0.0098	0.0098	0.0126	0.015	29
NO0002R	BDE_119	air+aerosol	pg/m^3	0.0032	0.0029	0.0093	0.002	0.0021	0.0023	0.0023	0.0021	0.0021	0.0021	0.0021	0.0022	0.0028	29
NO0002R	BDE_138	air+aerosol	pg/m^3	0.0075	0.0123	0.0311	0.0141	0.0071	0.0095	0.0076	0.007	0.007	0.007	0.007	0.007	0.0102	29
NO0002R	BDE_153	air+aerosol	pg/m^3	0.0131	0.0223	0.0247	0.012	0.0059	0.0099	0.0063	0.0075	0.0085	0.0065	0.0061	0.0124	0.0112	29
NO0002R	BDE_154	air+aerosol	pg/m^3	0.0137	0.0256	0.0184	0.0097	0.0051	0.0083	0.0072	0.0071	0.0071	0.0063	0.0048	0.0118	0.0103	29
NO0002R	BDE_183	air+aerosol	pg/m^3	0.0416	0.0918	0.026	0.0103	0.0073	0.0324	0.0059	0.0222	0.0067	0.0111	0.0095	0.0314	0.0241	29
NO0002R	BDE_196	air+aerosol	pg/m^3	0.1324	0.1387	0.1823	0.0206	0.0214	0.0757	0.0229	1.5395	0.0213	0.0212	0.0212	0.0237	0.1799	27
NO0002R	BDE_206	air+aerosol	pg/m^3	0.1696	0.1509	0.1288	0.0179	0.0275	0.0786	0.0388	0.9708	0.0201	0.0248	0.0198	0.0615	0.1449	26
NO0002R	BDE_209	air+aerosol	pg/m^3	0.5024	2.0285	2.2835	0.3192	0.539	0.6683	0.9657	1.0691	0.3381	0.3435	0.328	1.1851	0.882	28
NO0002R	BDE_28	air+aerosol	pg/m^3	0.0097	0.0098	0.0213	0.0072	0.0361	0.012	0.01	0.0118	0.011	0.0071	0.0057	0.0097	0.0124	29

Site	Comp	matrix	unit	jan	febr	mar	apr	may	june	july	aug	sept	oct	nov	dec	year	capture
NO0002R	BDE_47	air+aerosol	pg/m^3	0.05	0.0591	0.2094	0.0511	0.3302	0.0879	0.1762	0.1004	0.1233	0.0741	0.0726	0.0833	0.1164	29
NO0002R	BDE_49	air+aerosol	pg/m^3	0.0084	0.0109	0.0262	0.007	0.0194	0.0086	0.0099	0.0182	0.0129	0.0142	0.0125	0.0133	0.013	28
NO0002R	BDE_66	air+aerosol	pg/m^3	0.0067	0.0079	0.0214	0.005	0.0103	0.0061	0.0069	0.0091	0.0049	0.007	0.0048	0.0048	0.0077	28
NO0002R	BDE_71	air+aerosol	pg/m^3	0.0059	0.0058	0.0275	0.006	0.0063	0.0064	0.0067	0.0062	0.0577	0.0062	0.0661	0.0062	0.0166	29
NO0002R	BDE_77	air+aerosol	pg/m^3	0.0018	0.0021	0.0052	0.0011	0.0013	0.0017	0.0015	0.0028	0.0014	0.0012	0.0012	0.0014	0.0019	28
NO0002R	BDE_85	air+aerosol	pg/m^3	0.0024	0.0039	0.01	0.0022	0.0023	0.0025	0.0034	0.0024	0.0023	0.0023	0.0022	0.003	0.0032	28
NO0002R	BDE_99	air+aerosol	pg/m^3	0.0254	0.0473	0.0738	0.018	0.039	0.0296	0.0936	0.0372	0.0592	0.0292	0.026	0.0559	0.045	29
NO0002R	HCB	air+aerosol	pg/m^3	66.14	66.78	67.58	55.28	61.00	41.39	45.80	42.31	45.52	58.28	59.83	65.79	56.31	14
NO0002R	PCB_101	air+aerosol	pg/m^3	0.2907	0.8352	0.4091	0.3588	0.27	0.3963	0.5052	0.5188	0.3263	0.2579	0.4313	0.6216	0.4272	14
NO0002R	PCB_105	air+aerosol	pg/m^3	0.0195	0.2787	0.0378	0.0313	0.043	0.0255	0.0359	0.0405	0.0319	0.039	0.0315	0.0361	0.0532	14
NO0002R	PCB_114	air+aerosol	pg/m^3	0.0046	0.0145	0.0053	0.007	0.026	0.0065	0.0091	0.0055	0.0057	0.0054	0.006	0.0054	0.0086	14
NO0002R	PCB_118	air+aerosol	pg/m^3	0.0766	0.6164	0.1233	0.1023	0.0729	0.1044	0.1315	0.1294	0.0789	0.1041	0.1059	0.175	0.149	14
NO0002R	PCB_122	air+aerosol	pg/m^3	0.0047	0.0066	0.0045	0.007	0.027	0.0068	0.0091	0.0041	0.0048	0.0058	0.0062	0.0029	0.0078	14
NO0002R	PCB_123	air+aerosol	pg/m^3	0.0047	0.0109	0.0053	0.0071	0.0262	0.0063	0.0091	0.0041	0.0048	0.0056	0.0057	0.0027	0.008	14
NO0002R	PCB_128	air+aerosol	pg/m^3	0.011	0.1077	0.0184	0.0159	0.0213	0.0121	0.0245	0.0149	0.0106	0.007	0.0152	0.0389	0.0247	13
NO0002R	PCB_138	air+aerosol	pg/m^3	0.0881	0.457	0.1297	0.1287	0.0747	0.1439	0.1881	0.1141	0.0632	0.1006	0.1023	0.2868	0.1528	14
NO0002R	PCB_141	air+aerosol	pg/m^3	0.023	0.0833	0.0345	0.0297	0.021	0.0439	0.044	0.036	0.0107	0.0213	0.0214	0.16	0.0436	13
NO0002R	PCB_149	air+aerosol	pg/m^3	0.182	0.4529	0.2592	0.2193	0.1724	0.2777	0.3707	0.3222	0.1851	0.1211	0.2918	0.7259	0.2916	14
NO0002R	PCB_153	air+aerosol	pg/m^3	0.171	0.5135	0.2262	0.2008	0.14	0.233	0.3054	0.2202	0.1206	0.1436	0.214	0.5021	0.2443	14
NO0002R	PCB_156	air+aerosol	pg/m^3	0.0044	0.0459	0.0065	0.0072	0.013	0.0057	0.0113	0.0056	0.0037	0.007	0.0068	0.0218	0.0115	14
NO0002R	PCB_157	air+aerosol	pg/m^3	0.0015	0.0096	0.0029	0.0032	0.0112	0.0033	0.004	0.0022	0.0029	0.0025	0.0024	0.0027	0.0041	14
NO0002R	PCB_167	air+aerosol	pg/m^3	0.0019	0.0232	0.0039	0.0055	0.0122	0.0038	0.0039	0.0026	0.0037	0.0041	0.0055	0.0184	0.007	14
NO0002R	PCB_170	air+aerosol	pg/m^3	0.0096	0.0316	0.0124	0.0126	0.02	0.015	0.0325	0.0104	0.0048	0.011	0.01	0.0373	0.0167	14
NO0002R	PCB_18	air+aerosol	pg/m^3	0.9744	1.5155	1.5171	1.3725	0.9312	0.8491	0.8538	1.1918	1.1611	1.3778	1.5713	0.9072	1.1839	14
NO0002R	PCB_180	air+aerosol	pg/m^3	0.0266	0.0829	0.0455	0.0374	0.0242	0.0574	0.064	0.0415	0.0129	0.0281	0.0332	0.1079	0.0458	14
NO0002R	PCB_183	air+aerosol	pg/m^3	0.0105	0.0251	0.0172	0.0121	0.0164	0.0196	0.0238	0.0169	0.0097	0.0026	0.0085	0.0279	0.0158	14
NO0002R	PCB_187	air+aerosol	pg/m^3	0.042	0.0691	0.0519	0.0326	0.0223	0.0609	0.0812	0.0673	0.0363	0.0126	0.0475	0.0848	0.0498	14
NO0002R	PCB_189	air+aerosol	pg/m^3	0.002	0.0015	0.0033	0.0045	0.0156	0.006	0.0063	0.0025	0.0028	0.0033	0.0033	0.0021	0.0046	14
NO0002R	PCB_194	air+aerosol	pg/m^3	0.0023	0.0081	0.0045	0.0055	0.0166	0.0043	0.0068	0.003	0.0046	0.0091	0.0047	0.0065	0.0066	14
NO0002R	PCB_206	air+aerosol	pg/m^3	0.0018	0.0024	0.0033	0.0042	0.0172	0.0045	0.005	0.0027	0.0031	0.0042	0.0032	0.0026	0.0047	14
NO0002R	PCB_209	air+aerosol	pg/m^3	0.0053	0.0058	0.0112	0.0091	0.0134	0.0056	0.0056	0.0056	0.0093	0.0063	0.0056	0.0056	0.0074	14
NO0002R	PCB_28	air+aerosol	pg/m^3	0.5343	0.824	0.8653	0.6773	0.3718	0.5562	0.5998	0.957	0.8003	0.8676	0.913	0.6099	0.7058	14
NO0002R	PCB_31	air+aerosol	pg/m^3	0.4885	0.784	0.7973	0.643	0.4208	0.5278	0.5819	0.8488	0.7071	0.7638	0.837	0.5636	0.6561	14
NO0002R	PCB_33	air+aerosol	pg/m^3	0.2932	0.455	0.4675	0.376	0.2148	0.3022	0.3326	0.5059	0.4011	0.4801	0.5177	0.3398	0.386	14
NO0002R	PCB_37	air+aerosol	pg/m^3	0.0421	0.0626	0.0594	0.0425	0.051	0.0499	0.0578	0.0746	0.0641	0.0791	0.0375	0.0674	0.0577	14
NO0002R	PCB_47	air+aerosol	pg/m^3	0.413	0.6854	0.5691	0.6122	0.6066	1.1739	1.2993	1.5028	0.9695	0.6718	0.7554	0.5179	0.8126	14
NO0002R	PCB_52	air+aerosol	pg/m^3	0.5641	1.0165	0.7883	0.6823	0.5044	0.6808	0.8428	1.0614	0.8427	0.8109	0.9745	0.7398	0.7847	14
NO0002R	PCB_66	air+aerosol	pg/m^3	0.131	0.2471	0.2006	0.1653	0.1015	0.1721	0.2009	0.2875	0.2091	0.2332	0.2426	0.207	0.2002	14
NO0002R	PCB_74	air+aerosol	pg/m^3	0.0834	0.1585	0.132	0.0995	0.0587	0.1003	0.1197	0.1745	0.1302	0.147	0.1478	0.1227	0.1214	14
NO0002R	PCB_99	air+aerosol	pg/m^3	0.1201	0.3399	0.166	0.1378	0.0971	0.1305	0.1582	0.2226	0.206	0.1804	0.1835	0.1813	0.1744	14
NO0002R	TBA	air+aerosol	pg/m^3	2.3531	4.2902	2.9743	1.514	2.0896	1.3349	2.3334	3.5985	5.7611	6.746	8.5843	7.3687	4.1269	29
NO0002R	acenaphthene	air+aerosol	ng/m3	0.2903	0.0951	0.1204	0.1082	0.1874	0.137	0.1104	0.0448	0.061	0.0611	0.1292	0.159	0.1248	15
NO0002R	acenaphthylene	air+aerosol	ng/m3	0.0169	0.0242	0.0176	0.0068	0.0062	0.042	0.0019	0.0025	0.0074	0.0093	0.0816	0.05	0.0213	15
NO0002R	anthanthrene	air+aerosol	ng/m3	0.0033	0.0036	0.003	0.001	0.0015	0.0016	0.001	0.001	0.001	0.0017	0.0024	0.0025	0.0019	15
NO0002R	anthracene	air+aerosol	ng/m3	0.0151	0.023	0.0316	0.0054	0.0044	0.0494	0.003	0.0033	0.0071	0.0092	0.0314	0.0142	0.0154	14
NO0002R	benz_a_anthracene	air+aerosol	ng/m3	0.0312	0.0205	0.0249	0.0027	0.0033	0.0127	0.0029	0.0037	0.0068	0.0082	0.0228	0.0378	0.0147	15
NO0002R	benzo_a_fluoranthene	air+aerosol	ng/m3	0.0052	0.0053	0.0061	0.001	0.001	0.0041	0.0011	0.001	0.0012	0.0018	0.0029	0.0096	0.0034	15
NO0002R	benzo_a_fluorene	air+aerosol	ng/m3	0.0231	0.0131	0.0128	0.0034	0.0063	0.0114	0.0038	0.0038	0.0065	0.0069	0.0164	0.0248	0.0107	15
NO0002R	benzo_a_pyrene	air+aerosol	ng/m3	0.0189	0.0178	0.0269	0.0032	0.0032	0.024	0.0045	0.0046	0.0058	0.0091	0.0113	0.0296	0.0134	15
NO0002R	benzo_b_fluoranthene	air+aerosol	ng/m3	0.0922	0.0557	0.0712	0.0135	0.0239	0.0785	0.0184	0.0126	0.0389	0.051	0.0605	0.0941	0.0501	15
NO0002R	benzo_b_fluorene	air+aerosol	ng/m3	0.01	0.0061	0.0069	0.0019	0.004	0.0065	0.002	0.0018	0.0031	0.0036	0.009	0.0128	0.0055	15
NO0002R	benzo_e_pyrene	air+aerosol	ng/m3	0.0764	0.0361	0.0439	0.0097	0.0158	0.0595	0.0121	0.0102	0.0287	0.0331	0.0394	0.0585	0.0345	15
NO0002R	benzo_ghi_fluoranthene	air+aerosol	ng/m3	-	-	-	-	0.0049	-	-	-	-	0.0123	-	-	0.0074	1
NO0002R	benzo_ghi_perylene	air+aerosol	ng/m3	0.0632	0.0344	0.0477	0.0113	0.0174	0.0436	0.0112	0.0095	0.0215	0.0326	0.0443	0.0659	0.0323	15
NO0002R	benzo_k_fluoranthene	air+aerosol	ng/m3	0.0234	0.0194	0.0278	0.004	0.0066	0.022	0.005	0.0041	0.0089	0.0143	0.0196	0.0363	0.0159	15
NO0002R	biphenyl	air+aerosol	ng/m3	0.3725	0.2863	0.3013	0.1002	0.0941	0.0909	0.0433	0.0445	0.0751	0.1186	0.1641	0.9623	0.2155	15
NO0002R	chrysene	air+aerosol	ng/m3	0.169	0.0638	0.0785	0.0141	0.0233	0.0815	0.0196	0.0246	0.0518	0.0423	0.0794	0.0943	0.0599	15
NO0002R	coronene	air+aerosol	ng/m3	0.0262	0.0153	0.0216	0.0037	0.0059	0.0111	0.0049	0.0047	0.0082	0.0143	0.0169	0.0305	0.0132	15

Site	Comp	matrix	unit	jan	febr	mar	apr	may	june	july	aug	sept	oct	nov	dec	year	capture
NO0002R	cyclopenta_cd_pyrene	air+aerosol	ng/m3	-	-	-	-	0.0018	-	-	0.0014	0.001	-	-	-	0.0015	1
NO0002R	dibenzo_ae_pyrene	air+aerosol	ng/m3	0.0091	0.0077	0.0073	0.0024	0.0033	0.0069	0.0022	0.002	0.0049	0.0055	0.0068	0.0097	0.0054	15
NO0002R	dibenzo_ah_anthracene	air+aerosol	ng/m3	0.0086	0.0049	0.0053	0.0016	0.0024	0.007	0.0014	0.0016	0.0033	0.0029	0.0055	0.0103	0.0045	15
NO0002R	dibenzo_ah_pyrene	air+aerosol	ng/m3	0.005	0.0102	0.0045	0.0032	0.0047	0.0077	0.0015	0.0022	0.0024	0.0033	0.0037	0.0045	0.0042	15
NO0002R	dibenzo_ai_pyrene	air+aerosol	ng/m3	0.005	0.0097	0.0046	0.0032	0.0042	0.0066	0.001	0.0022	0.0022	0.0027	0.0033	0.0036	0.0038	15
NO0002R	dibenzofuran	air+aerosol	ng/m3	1.4816	0.9166	1.0716	0.3786	0.4382	0.5719	0.2265	0.2096	0.3611	0.4339	0.7889	1.4737	0.6743	15
NO0002R	dibenzothiophene	air+aerosol	ng/m3	0.0498	0.0138	0.01	0.0092	0.0186	0.0374	0.0199	0.0301	0.0262	0.0097	0.0156	0.0179	0.021	15
NO0002R	fluoranthene	air+aerosol	ng/m3	0.4016	0.2739	0.2942	0.1023	0.1261	0.2148	0.1055	0.1052	0.1312	0.1487	0.2944	0.3706	0.2082	15
NO0002R	fluorene	air+aerosol	ng/m3	1.2315	0.6511	0.5822	0.2572	0.3774	0.569	0.2344	0.1918	0.3499	0.3575	0.6483	1.2355	0.5433	15
NO0002R	inden_123cd_pyrene	air+aerosol	ng/m3	0.052	0.0334	0.0506	0.0097	0.0142	0.0372	0.0093	0.008	0.0177	0.0306	0.0411	0.0698	0.0303	15
NO0002R	naphthalene	air+aerosol	ng/m3	0.3516	0.2244	0.2674	0.0877	0.0822	0.093	0.0828	0.0827	0.0962	0.1341	0.1559	0.5208	0.1756	15
NO0002R	perylene	air+aerosol	ng/m3	0.0036	0.0025	0.0031	0.0012	0.0011	0.0026	0.0011	0.001	0.0011	0.0013	0.0028	0.0038	0.0021	15
NO0002R	phenanthrene	air+aerosol	ng/m3	1.7298	0.9908	0.9897	0.4755	0.6153	1.0557	0.5807	0.5836	0.7595	0.6227	1.3414	1.2713	0.8936	15
NO0002R	pyrene	air+aerosol	ng/m3	0.205	0.1194	0.1539	0.0454	0.0634	0.1285	0.0528	0.0638	0.0743	0.086	0.1687	0.1955	0.11	15
NO0002R	retene	air+aerosol	ng/m3	0.0724	0.04	0.0413	0.0408	0.03	0.0557	0.0303	0.0234	0.0524	0.0632	0.0853	0.0703	0.0489	15
NO0002R	sum_PCB	air+aerosol	pg/m^3	5.5402	11.1908	8.5756	7.1779	4.9345	9.2351	11.1906	13.9641	10.719	11.4572	13.9445	15.2675	10.1369	14
NO0002R	sum_heptachlor_PCB	air+aerosol	pg/m^3	0.0927	0.2093	0.1251	0.091	0.0454	0.1647	0.2268	0.1954	0.0876	0.078	0.157	0.4088	0.1533	14
NO0002R	sum_hexachlor_PCB	air+aerosol	pg/m^3	0.4795	1.6888	0.6747	0.5948	0.394	0.975	1.3351	1.4782	1.0501	1.281	2.1584	6.8592	1.5318	14
NO0002R	sum_pentachlor_PCB	air+aerosol	pg/m^3	0.5077	2.0972	0.7403	0.6308	0.4932	1.1272	1.4497	1.6506	1.0574	1.0028	1.2418	1.5538	1.1123	14
NO0002R	sum_tetrachlor_PCB	air+aerosol	pg/m^3	1.3183	2.3619	1.8682	1.61	1.5166	3.7639	4.4845	5.5806	4.0721	3.6537	4.4806	2.9804	3.1254	14
NO0002R	sum_trichlor_PCB	air+aerosol	pg/m^3	3.1326	4.8173	5.1482	4.2326	2.438	3.19	3.677	5.048	4.4352	5.4222	5.8937	3.4507	4.1956	14
NO0002R	a_HBCD	air+aerosol	pg/m^3	0.0524	0.1411	0.0333	0.0172	0.0272	0.0329	0.01	0.0195	0.0757	0.0413	0.0656	0.0519	0.0486	25
NO0002R	b_HBCD	air+aerosol	pg/m^3	0.2584	0.1094	0.04	0.075	0.0675	0.03	0.0183	0.03	0.055	0.029	0.0602	0.1509	0.0757	25
NO0002R	g_HBCD	air+aerosol	pg/m^3	0.1641	0.0775	0.02	0.0158	0.0206	0.0116	0.011	0.0454	0.0408	0.0296	0.0362	0.116	0.0545	25
NO0042G	BDE_100	air+aerosol	pg/m^3	0.0091	0.0121	0.0114	0.0178	0.0103	0.0122	0.0358	0.0021	0.0096	0.0089	0.0385	0.0089	0.0145	44
NO0042G	BDE_119	air+aerosol	pg/m^3	0.0019	0.0026	0.0071	0.0196	0.0021	0.0026	0.0053	0.0064	0.003	0.0019	0.0019	0.0019	0.0048	44
NO0042G	BDE_138	air+aerosol	pg/m^3	0.0065	0.0086	0.0063	0.0064	0.0068	0.0068	0.0051	0.0047	0.0068	0.0063	0.0064	0.0063	0.0064	44
NO0042G	BDE_153	air+aerosol	pg/m^3	0.0048	0.0064	0.0047	0.0047	0.0051	0.005	0.0036	0.0033	0.005	0.0047	0.0047	0.0047	0.0047	44
NO0042G	BDE_154	air+aerosol	pg/m^3	0.0033	0.0045	0.0033	0.0033	0.0035	0.0037	0.0039	0.0039	0.0038	0.0033	0.0033	0.0033	0.0036	44
NO0042G	BDE_183	air+aerosol	pg/m^3	0.004	0.0063	0.0039	0.004	0.0042	0.0059	0.0157	0.0193	0.0073	0.0039	0.004	0.0045	0.0071	44
NO0042G	BDE_196	air+aerosol	pg/m^3	0.0223	0.0351	0.0191	0.0194	0.0207	0.0206	0.0166	0.0159	0.0184	0.0193	0.0194	0.0192	0.02	40
NO0042G	BDE_206	air+aerosol	pg/m^3	0.0245	0.1677	0.0209	0.016	0.0171	0.0744	0.2388	0.2992	0.0725	0.0175	0.0403	0.0295	0.093	38
NO0042G	BDE_209	air+aerosol	pg/m^3	0.4269	2.3979	0.3994	0.3235	0.3216	0.6564	0.2468	0.083	0.2758	0.3636	1.0364	0.5716	0.5378	39
NO0042G	BDE_28	air+aerosol	pg/m^3	0.006	0.009	0.0071	0.0127	0.0066	0.0121	0.0391	0.0418	0.0131	0.0046	0.0249	0.0055	0.0156	44
NO0042G	BDE_47	air+aerosol	pg/m^3	0.0581	0.141	0.1851	0.4853	0.2228	0.2736	1.1882	0.0676	0.2459	0.0821	1.8115	0.0666	0.3971	44
NO0042G	BDE_49	air+aerosol	pg/m^3	0.0053	0.0081	0.0098	0.0177	0.0083	0.0098	0.0271	0.0044	0.0073	0.0055	0.0368	0.0062	0.0121	44
NO0042G	BDE_66	air+aerosol	pg/m^3	0.0045	0.0059	0.006	0.01	0.0059	0.0066	0.0136	0.0056	0.0057	0.0044	0.0139	0.0044	0.0072	44
NO0042G	BDE_71	air+aerosol	pg/m^3	0.032	0.0076	0.0188	0.0057	0.0061	0.0057	0.0027	0.0011	0.0055	0.0056	0.0067	0.0056	0.0086	44
NO0042G	BDE_77	air+aerosol	pg/m^3	0.0011	0.0014	0.0011	0.0011	0.0012	0.0013	0.0018	0.002	0.0014	0.0011	0.0011	0.0011	0.0013	44
NO0042G	BDE_85	air+aerosol	pg/m^3	0.0021	0.0028	0.002	0.0021	0.0022	0.0034	0.0108	0.0134	0.0044	0.002	0.0021	0.002	0.0043	44
NO0042G	BDE_99	air+aerosol	pg/m^3	0.0136	0.0298	0.0177	0.0259	0.017	0.0198	0.0808	0.0089	0.015	0.0173	0.0511	0.0182	0.0259	44
NO0042G	FTS_6-2	air+aerosol	pg/m^3	0.016	0.016	0.016	0.016	0.0223	0.016	0.016	0.016	0.016	0.016	0.016	0.016	0.0164	25
NO0042G	PFBS	air+aerosol	pg/m^3	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	32
NO0042G	PFDcA	air+aerosol	pg/m^3	0.032	0.032	0.0331	0.035	0.032	0.032	0.0358	0.032	0.032	0.032	0.032	0.032	0.0328	28
NO0042G	PFDcS	air+aerosol	pg/m^3	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	0.048	32
NO0042G	PFHpA	air+aerosol	pg/m^3	0.0607	0.032	0.032	0.0586	0.032	0.0355	0.0428	0.032	0.032	0.032	0.032	0.032	0.0374	29
NO0042G	PFHxA	air+aerosol	pg/m^3	0.062	0.0487	0.0496	0.0538	0.052	0.054	0.0672	0.062	0.048	0.048	0.048	0.048	0.0527	29
NO0042G	PFHxS	air+aerosol	pg/m^3	0.008	0.0119	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.0083	27
NO0042G	PFNA	air+aerosol	pg/m^3	0.131	0.032	0.0697	0.0353	0.032	0.032	0.035	0.0427	0.032	0.032	0.032	0.032	0.0431	24
NO0042G	PFOA	air+aerosol	pg/m^3	0.2165	0.1331	0.1427	0.1246	0.1208	0.1013	0.146	0.058	0.0252	0.0684	0.0983	0.086	0.112	30
NO0042G	PFOS	air+aerosol	pg/m^3	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	27
NO0042G	PFOSA	air+aerosol	pg/m^3	0.032	0.032	0.0367	0.032	0.032	0.032	0.0598	0.032	0.032	0.032	0.032	0.032	0.035	29
NO0042G	PFUnA	air+aerosol	pg/m^3	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	28
NO0042G	TBA	air+aerosol	pg/m^3	5.1548	3.404	2.5291	1.793	2.9551	5.3362	7.0415	6.5318	8.0695	11.3269	15.3355	15.917	6.6783	44
NO0042G	a_HBCD	air+aerosol	pg/m^3	0.0329	0.0302	0.0175	0.0287	0.0131	0.0273	0.0241	0.0235	0.0783	0.1788	0.0721	0.0517	0.0471	41
NO0042G	b_HBCD	air+aerosol	pg/m^3	0.0359	0	0.0454	0.0355	0.0295	0.0181	0.0183	0.015	0.0211	0.0398	0.0468	0.1272	0.0366	37
NO0042G	g_HBCD	air+aerosol	pg/m^3	0.0365	0.041	0.0239	0.0337	0.0197	0.0135	0.0114	0.0485	0.0174	0.0317	0.03	0.0631	0.0279	37
NO0042G	1-methylnaphthalene	air+aerosol	ng/m3	0.1676	0.2682	0.081	0.0391	0.0459	0.0313	0.0366	0.022	0.0181	0.0314	0.1334	0.2088	0.0879	29
NO0042G	1-methylphenanthrene	air+aerosol	ng/m3	0.0061	0.0088	0.004	0.0036	0.0015	0.0029	0.0043	0.0028	0.004	0.0032	0.0041	0.0033	0.004	29
NO0042G	2-methylanthracene	air+aerosol	ng/m3	0.0018	0.0026	0.0013	0.001	0.001	0.001	0.0015	0.001	0.0023	0.001	0.0011	0.0017	0.0015	24
NO0042G	2-methylnaphthalene	air+aerosol	ng/m3	0.1877	0.2638	0.1216	0.0728	0.1132	0.0821	0.0846	0.0448	0.0379	0.053	0.177	0.2432	0.1211	29
NO0042G	2-methylphenanthrene	air+aerosol	ng/m3	0.0084	0.0119	0.0038	0.0041	0.0024	0.0045	0.0056	0.0043	0.0053	0.0037	0.0074	0.0058	0.0056	29
NO0042G	3-methylphenanthrene	air+aerosol	ng/m3	0.0069	0.0117	0.0037	0.0035	0.0025	0.0038	0.0046	0.0034	0.0048	0.0037	0.0055	0.0042	0.0049	29

Site	Comp	matrix	unit	jan	febr	mar	apr	may	june	july	aug	sept	oct	nov	dec	year	capture
NO0042G	9-methylphenanthrene	air+aerosol	ng/m3	0.0042	0.0083	0.0037	0.0033	0.0016	0.0031	0.0044	0.003	0.0042	0.0031	0.0028	0.0023	0.0037	28
NO0042G	acenaphthene	air+aerosol	ng/m3	0.0134	0.0066	0.0078	0.0075	0.0045	0.0025	0.0082	0.0035	0.0051	0.0023	0.0166	0.01	0.0071	29
NO0042G	acenaphthylene	air+aerosol	ng/m3	0.0048	0.0086	0.0066	0.003	0.004	0.0032	0.0041	0.0018	0.0038	0.002	0.0015	0.0022	0.0038	29
NO0042G	anthanthrene	air+aerosol	ng/m3	0.0014	0.0018	0.002	0.0015	0.0014	0.0012	0.001	0.001	0.0018	0.0013	0.001	0.001	0.0014	29
NO0042G	anthracene	air+aerosol	ng/m3	0.0024	0.0025	0.0026	0.0017	0.0016	0.0022	0.003	0.0022	0.0039	0.0022	0.0012	0.0017	0.0023	29
NO0042G	benz_a_anthracene	air+aerosol	ng/m3	0.007	0.0066	0.0013	0.0013	0.001	0.001	0.001	0.001	0.0012	0.001	0.0013	0.0034	0.0021	29
NO0042G	benzo_a_fluoranthene	air+aerosol	ng/m3	0.0018	0.0016	0.0015	0.001	0.0012	0.001	0.001	0.001	0.0015	0.0012	0.001	0.0012	0.0012	29
NO0042G	benzo_a_fluorene	air+aerosol	ng/m3	0.0043	0.0033	0.001	0.001	0.001	0.001	0.001	0.001	0.0012	0.0012	0.0014	0.0017	0.0015	29
NO0042G	benzo_a_pyrene	air+aerosol	ng/m3	0.006	0.0056	0.0013	0.0014	0.001	0.001	0.001	0.001	0.0013	0.001	0.0011	0.0021	0.0019	29
NO0042G	benzo_b_fluoranthene	air+aerosol	ng/m3	0.0277	0.0222	0.0058	0.0038	0.001	0.001	0.001	0.001	0.0012	0.0012	0.0027	0.0065	0.0056	29
NO0042G	benzo_b_fluorene	air+aerosol	ng/m3	0.0027	0.002	0.0012	0.001	0.001	0.001	0.001	0.001	0.0012	0.0012	0.001	0.0015	0.0013	29
NO0042G	benzo_e_pyrene	air+aerosol	ng/m3	0.0154	0.0121	0.003	0.0024	0.001	0.001	0.001	0.001	0.0013	0.001	0.0018	0.004	0.0034	29
NO0042G	benzo_ghi_fluoranthene	air+aerosol	ng/m3	-	-	-	0.001	0.001	0.001	0.001	0.001	0.0012	0.001	0.001	0.001	0.001	17
NO0042G	benzo_ghi_perylene	air+aerosol	ng/m3	0.0118	0.0111	0.0028	0.0032	0.002	0.002	0.002	0.002	0.002	0.002	0.0022	0.0046	0.0038	29
NO0042G	benzo_k_fluoranthene	air+aerosol	ng/m3	0.0098	0.0086	0.0018	0.0011	0.0012	0.001	0.001	0.001	0.0013	0.001	0.0013	0.0026	0.0025	28
NO0042G	biphenyl	air+aerosol	ng/m3	1.0985	0.9699	0.6576	0.165	0.0356	0.0209	0.0198	0.0167	0.0225	0.0911	0.4918	0.7963	0.3353	29
NO0042G	chrysene	air+aerosol	ng/m3	0.0243	0.0245	0.0044	0.0038	0.001	0.001	0.001	0.001	0.0012	0.0013	0.0035	0.0066	0.0056	29
NO0042G	coronene	air+aerosol	ng/m3	0.0055	0.0064	0.0023	0.0023	0.0021	0.0019	0.0019	0.0018	0.0025	0.0022	0.0018	0.0026	0.0027	29
NO0042G	cyclopenta_cd_pyrene	air+aerosol	ng/m3	0.001	-	0.001	0.001	0.001	0.001	0.001	0.001	0.0012	0.001	0.001	0.0013	0.001	23
NO0042G	dibenzo_ae_pyrene	air+aerosol	ng/m3	0.0043	0.0038	0.0032	0.0021	0.002	0.0018	0.002	0.0017	0.0031	0.0026	0.001	0.0012	0.0024	29
NO0042G	dibenzo_ah_anthracene	air+aerosol	ng/m3	0.002	0.0016	0.0014	0.0016	0.0016	0.0014	0.0013	0.001	0.0021	0.001	0.001	0.001	0.0014	29
NO0042G	dibenzo_ah_pyrene	air+aerosol	ng/m3	0.0054	0.0054	0.006	0.0034	0.0026	0.0024	0.003	0.0022	0.0042	0.0033	0.0011	0.0016	0.0033	29
NO0042G	dibenzo_ai_pyrene	air+aerosol	ng/m3	0.0054	0.0052	0.0053	0.0028	0.0024	0.0021	0.0026	0.002	0.0038	0.003	0.001	0.0016	0.003	29
NO0042G	dibenzofuran	air+aerosol	ng/m3	1.6025	1.2857	0.9185	0.3044	0.0429	0.0293	0.033	0.0409	0.0565	0.1246	0.6505	1.034	0.4658	29
NO0042G	dibenzothiophene	air+aerosol	ng/m3	0.0042	0.0047	0.0028	0.0018	0.0012	0.0012	0.0018	0.0012	0.0023	0.0017	0.0048	0.0053	0.0027	29
NO0042G	fluoranthene	air+aerosol	ng/m3	0.0753	0.0731	0.0178	0.0151	0.0054	0.0049	0.0055	0.005	0.0046	0.0061	0.039	0.0436	0.0231	29
NO0042G	fluorene	air+aerosol	ng/m3	0.7457	0.4891	0.1927	0.0468	0.0181	0.0139	0.0182	0.019	0.0212	0.0377	0.2947	0.5373	0.1853	29
NO0042G	inden_123cd_pyrene	air+aerosol	ng/m3	0.012	0.0119	0.0029	0.0026	0.0012	0.001	0.001	0.001	0.0016	0.001	0.0015	0.0038	0.0033	29
NO0042G	naphthalene	air+aerosol	ng/m3	1.1123	1.6504	0.9347	0.6108	1.6205	0.9445	0.6831	0.2294	0.4771	0.3205	0.7509	1.0211	0.8677	29
NO0042G	perylene	air+aerosol	ng/m3	0.0013	0.0013	0.001	0.001	0.001	0.001	0.001	0.001	0.0013	0.0012	0.001	0.001	0.0011	29
NO0042G	phenanthrene	air+aerosol	ng/m3	0.1094	0.1477	0.044	0.0252	0.0135	0.0189	0.027	0.0199	0.022	0.0174	0.1138	0.0895	0.0523	29
NO0042G	pyrene	air+aerosol	ng/m3	0.0334	0.0361	0.0072	0.0081	0.0041	0.004	0.004	0.004	0.0036	0.0042	0.0108	0.0149	0.0106	29
NO0042G	retene	air+aerosol	ng/m3	0.0055	0.0045	0.003	0.003	0.0027	0.0026	0.0033	0.0027	0.0025	0.0035	0.0032	0.0035	0.0033	29
NO0042G	HCB	air+aerosol	pg/m^3	81.5235	75.6327	76.6778	89.1913	91.1165	90.2865	93.0255	85.0742	91.1049	89.3224	85.2138	80.7922	86.09	28
NO0042G	PCB_101	air+aerosol	pg/m^3	0.3049	0.3069	0.2855	0.3222	0.2528	0.2579	0.2894	0.2414	0.2717	0.1684	0.1468	0.3412	0.2669	28
NO0042G	PCB_105	air+aerosol	pg/m^3	0.0283	0.0311	0.0312	0.0391	0.0143	0.0138	0.0178	0.0117	0.0128	0.0098	0.0165	0.0289	0.0212	28
NO0042G	PCB_114	air+aerosol	pg/m^3	0.002	0.0041	0.0044	0.0045	0.0014	0.0051	0.0068	0.0015	0.0014	0.0014	0.0015	0.0025	0.003	28
NO0042G	PCB_118	air+aerosol	pg/m^3	0.104	0.107	0.1005	0.1156	0.0546	0.0552	0.0703	0.0457	0.0628	0.0414	0.0434	0.0952	0.0743	28
NO0042G	PCB_122	air+aerosol	pg/m^3	0.002	0.0037	0.0034	0.0034	0.001	0.0051	0.0068	0.0018	0.0014	0.0023	0.0017	0.0012	0.0028	28
NO0042G	PCB_123	air+aerosol	pg/m^3	0.0059	0.0041	0.0039	0.0042	0.0012	0.0054	0.0072	0.0015	0.0014	0.0012	0.0013	0.0013	0.0032	28
NO0042G	PCB_128	air+aerosol	pg/m^3	0.0099	0.0113	0.0043	0.012	0.0064	0.0051	0.0175	0.0095	0.0152	0.0085	0.0033	0.0119	0.01	26
NO0042G	PCB_138	air+aerosol	pg/m^3	0.0806	0.0601	0.0245	0.0602	0.0467	0.0991	0.1005	0.0814	0.1286	0.0729	0.0275	0.1138	0.0775	28
NO0042G	PCB_141	air+aerosol	pg/m^3	0.0179	0.0145	0.0063	0.0104	0.0127	0.0263	0.013	0.0243	0.0412	0.0208	0.0042	0.0228	0.0185	28
NO0042G	PCB_149	air+aerosol	pg/m^3	0.1336	0.112	0.064	0.1079	0.1031	0.1658	0.1629	0.1181	0.2071	0.1084	0.0533	0.1871	0.131	28
NO0042G	PCB_153	air+aerosol	pg/m^3	0.1321	0.1017	0.046	0.0901	0.0753	0.1465	0.1587	0.1189	0.1871	0.1061	0.0343	0.1511	0.1162	28
NO0042G	PCB_156	air+aerosol	pg/m^3	0.0048	0.0043	0.0025	0.0034	0.002	0.0058	0.004	0.0044	0.0072	0.0045	0.0017	0.0088	0.0046	28
NO0042G	PCB_157	air+aerosol	pg/m^3	0.001	0.0017	0.0018	0.0021	0.001	0.0024	0.0024	0.001	0.001	0.001	0.0011	0.0014	0.0015	28
NO0042G	PCB_167	air+aerosol	pg/m^3	0.0012	0.003	0.0021	0.0024	0.0011	0.0024	0.0029	0.0029	0.0035	0.0022	0.0016	0.0073	0.0028	26
NO0042G	PCB_170	air+aerosol	pg/m^3	0.006	0.0047	0.004	0.0053	0.0033	0.007	0.0116	0.0104	0.0138	0.0086	0.0028	0.0106	0.0077	25
NO0042G	PCB_18	air+aerosol	pg/m^3	2.0876	2.3451	2.0319	2.1721	2.9447	1.7403	2.3914	2.7502	0.9102	1.6056	2.1917	1.5717	2.0274	28
NO0042G	PCB_180	air+aerosol	pg/m^3	0.0175	0.0139	0.0059	0.0101	0.0111	0.0338	0.036	0.0268	0.0421	0.0216	0.0053	0.0291	0.0221	28
NO0042G	PCB_183	air+aerosol	pg/m^3	0.0077	0.0062	0.0039	0.006	0.0051	0.0087	0.0107	0.0084	0.0145	0.0069	0.0027	0.0157	0.0083	28
NO0042G	PCB_187	air+aerosol	pg/m^3	0.0248	0.0181	0.0099	0.0185	0.0153	0.0268	0.0333	0.0199	0.0348	0.0165	0.0077	0.0469	0.0234	28
NO0042G	PCB_189	air+aerosol	pg/m^3	0.001	0.0017	0.0031	0.0024	0.001	0.0053	0.0044	0.001	0.001	0.001	0.001	0.0011	0.002	28
NO0042G	PCB_194	air+aerosol	pg/m^3	0.0012	0.0017	0.0023	0.0019	0.001	0.0029	0.0031	0.0016	0.0017	0.0014	0.0012	0.003	0.002	27
NO0042G	PCB_206	air+aerosol	pg/m^3	0.0017	0.0015	0.0029	0.0027	0.001	0.0037	0.0028	0.0012	0.0012	0.0012	0.0015	0.0012	0.0018	28
NO0042G	PCB_209	air+aerosol	pg/m^3	0.0032	0.0046	0.0034	0.0049	0.003	0.0031	0.003	0.003	0.0027	0.003	0.0031	0.0031	0.0033	28
NO0042G	PCB_28	air+aerosol	pg/m^3	1.2754	1.405	1.1841	1.4574	2.8243	1.4351	1.9411	2.2477	0.8629	1.2053	1.5361	1.0292	1.5169	28
NO0042G	PCB_31	air+aerosol	pg/m^3	1.1418	1.3124	1.0929	1.3048	2.6256	1.3337	1.7941	2.06	0.7619	1.0916	1.4308	0.9599	1.3931	28

Site	Comp	matrix	unit	jan	febr	mar	apr	may	june	july	aug	sept	oct	nov	dec	year	capture
NO0042G	PCB_33	air+aerosol	pg/m³	0.8148	0.9293	0.7922	0.9547	2.1488	1.1241	1.5036	1.7367	0.5746	0.8691	1.1126	0.6506	1.0888	28
NO0042G	PCB_37	air+aerosol	pg/m³	0.0929	0.103	0.0896	0.1107	0.36	0.185	0.2121	0.1972	0.0797	0.0904	0.1263	0.0996	0.1443	27
NO0042G	PCB_47	air+aerosol	pg/m³	0.2999	0.3349	0.3155	0.3296	1.1224	0.2892	0.3182	0.3497	0.1673	0.2292	0.3436	0.2951	0.3578	28
NO0042G	PCB_52	air+aerosol	pg/m³	0.7434	0.8108	0.7698	0.8202	0.8366	0.5265	0.6713	0.7821	0.4255	0.4988	0.6963	0.6475	0.6767	28
NO0042G	PCB_66	air+aerosol	pg/m³	0.1755	0.1865	0.1667	0.2117	0.2573	0.1566	0.1778	0.1721	0.0979	0.101	0.1537	0.1568	0.1657	28
NO0042G	PCB_74	air+aerosol	pg/m³	0.1105	0.1226	0.1165	0.1469	0.1587	0.0741	0.1015	0.1049	0.0629	0.0675	0.1029	0.1106	0.1053	28
NO0042G	PCB_99	air+aerosol	pg/m³	0.1344	0.1585	0.1721	0.1811	0.0883	0.0638	0.0729	0.073	0.0607	0.067	0.104	0.1353	0.107	28
NO0042G	alpha_HCH	air+aerosol	pg/m³	3.6136	3.299	3.3117	5.0119	4.0554	4.0305	5.2489	5.6729	6.1806	5.5409	4.5395	3.2462	4.5278	29
NO0042G	cis_CD	air+aerosol	pg/m³	0.4096	0.2985	0.3288	0.3695	0.3141	0.2752	0.2925	0.3423	0.3145	0.3273	0.3601	0.3533	0.3325	27
NO0042G	cis_NO	air+aerosol	pg/m³	0.0201	0.0111	0.0254	0.0281	0.0341	0.0389	0.0401	0.0443	0.0467	0.0327	0.0299	0.0344	0.0324	27
NO0042G	gamma_HCH	air+aerosol	pg/m³	0.6649	0.5568	0.6156	0.7927	0.6043	0.4437	0.5868	0.838	0.6527	0.6867	0.719	0.569	0.6433	29
NO0042G	op_DDD	air+aerosol	pg/m³	0.0154	0.0111	0.0125	0.0102	0.0078	0.0078	0.0076	0.0078	0.0068	0.008	0.0137	0.0158	0.0102	28
NO0042G	op_DDE	air+aerosol	pg/m³	0.1127	0.0908	0.0739	0.0597	0.0141	0.0111	0.011	0.0108	0.0126	0.0175	0.0514	0.086	0.045	29
NO0042G	op_DDT	air+aerosol	pg/m³	0.1665	0.1429	0.1539	0.1306	0.0253	0.0177	0.0254	0.0228	0.0332	0.0488	0.0963	0.1556	0.0851	28
NO0042G	pp_DDD	air+aerosol	pg/m³	0.0082	0.0074	0.0094	0.0082	0.0081	0.0081	0.0079	0.0081	0.007	0.008	0.0097	0.012	0.0085	29
NO0042G	pp_DDE	air+aerosol	pg/m³	0.8425	0.5219	0.4663	0.3163	0.0602	0.044	0.0567	0.065	0.0833	0.1156	0.4723	0.885	0.323	29
NO0042G	pp_DDT	air+aerosol	pg/m³	0.0965	0.066	0.0581	0.0528	0.015	0.014	0.0173	0.0166	0.0205	0.0268	0.0762	0.109	0.047	29
NO0042G	sum_DDT	air+aerosol	pg/m³	1.2419	0.8401	0.774	0.5777	0.1304	0.1027	0.1242	0.131	0.1634	0.2248	0.7195	1.2656	0.5178	29
NO0042G	sum_PCB	air+aerosol	pg/m³	9.7334	11.7998	12.2013	13.3608	19.0915	11.7987	17.1173	16.8265	7.7095	9.7455	12.6121	12.3055	12.6964	28
NO0042G	sum_heptachlor_PCB	air+aerosol	pg/m³	0.0551	0.0446	0.0271	0.0344	0.0378	0.0695	0.0909	0.0939	0.1465	0.0836	0.0358	0.1419	0.0756	28
NO0042G	sum_hexachlor_PCB	air+aerosol	pg/m³	0.3811	0.367	0.3354	0.432	0.2736	0.5147	0.5788	0.5066	0.8756	0.472	0.1906	2.5292	0.6524	28
NO0042G	sum_pentachlor_PCB	air+aerosol	pg/m³	0.5767	0.6585	0.8564	1.0408	0.4657	0.404	0.5936	0.588	0.6642	0.439	0.4865	0.966	0.6485	28
NO0042G	sum_tetrachlor_PCB	air+aerosol	pg/m³	1.5073	2.1136	2.7454	2.8329	3.0682	2.0095	2.8804	2.9858	1.5907	1.8928	2.8157	2.5294	2.4035	28
NO0042G	sum_trichlor_PCB	air+aerosol	pg/m³	7.2071	8.6083	7.8112	9.0112	15.2411	8.7913	12.0416	12.6462	4.427	6.8525	9.0778	6.1317	8.8818	28
NO0042G	trans_CD	air+aerosol	pg/m³	0.2252	0.2025	0.1773	0.1439	0.0903	0.0506	0.0493	0.0666	0.0563	0.075	0.1498	0.2003	0.1219	29
NO0042G	trans_NO	air+aerosol	pg/m³	0.3714	0.3062	0.3183	0.3574	0.3236	0.2467	0.2504	0.2586	0.2495	0.2598	0.3255	0.3693	0.3015	29
NO0090R	FTS_6-2	air+aerosol	pg/m³	-	0.014	0.0143	0.014	0.014	0.014	0.014	0.0165	0.014	0.0231	0.0387	0.014	0.0175	20
NO0090R	PFBS	air+aerosol	pg/m³	0.007	0.0083	0.0073	0.007	0.007	0.0082	0.007	0.007	0.007	0.007	0.007	0.007	0.0072	29
NO0090R	PFDcA	air+aerosol	pg/m³	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.0443	0.028	0.028	0.028	0.028	0.03	18
NO0090R	PFDcS	air+aerosol	pg/m³	0.043	0.043	0.0435	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	29
NO0090R	PFHpA	air+aerosol	pg/m³	0.028	0.028	0.0285	0.028	0.028	0.028	0.028	0.028	0.0284	0.031	0.028	0.028	0.0284	24
NO0090R	PFHxA	air+aerosol	pg/m³	-	0.043	0.0435	0.043	0.0445	0.0478	0.0592	0.1107	0.0441	0.043	0.043	0.043	0.0521	23
NO0090R	PFHxS	air+aerosol	pg/m³	-	0.007	0.0073	0.007	0.007	0.0078	0.0168	0.007	0.007	0.0077	0.007	0.007	0.0084	23
NO0090R	PFNA	air+aerosol	pg/m³	-	-	0.093	0.028	0.037	0.028	0.034	0.1155	0.028	0.028	0.028	0.028	0.0472	11
NO0090R	PFOA	air+aerosol	pg/m³	0.021	0.0465	0.07	0.0887	0.0762	0.1194	0.1918	0.1948	0.0513	0.0701	0.0247	0.021	0.0952	23
NO0090R	PFOS	air+aerosol	pg/m³	0.021	0.021	0.0215	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.0211	20
NO0090R	PFOSA	air+aerosol	pg/m³	-	-	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	0.028	11
NO0090R	PFUnA	air+aerosol	pg/m³	0.028	0.028	0.028	0.028	-	0.028	-	0.028	0.028	0.028	0.028	0.028	0.028	14
NO0090R	alpha_HCH	air+aerosol	pg/m³	3.2033	2.7963	2.9436	3.5151	3.3878	3.3683	2.9064	3.6071	4.4537	4.5735	4.0538	3.61	3.5436	39
NO0090R	gamma_HCH	air+aerosol	pg/m³	0.709	0.6117	0.5664	0.6342	0.7028	0.4007	0.5632	2.3088	1.4057	0.7341	0.6476	0.4876	0.8177	39
NO0090R	op_DDD	air+aerosol	pg/m³	0.0179	0.018	0.0116	0.0189	0.0097	0.0054	0.0076	0.0178	0.0125	0.016	0.0125	0.0148	0.0136	39
NO0090R	op_DDE	air+aerosol	pg/m³	0.0947	0.0813	0.0812	0.064	0.025	0.0102	0.01	0.0327	0.0394	0.0268	0.0496	0.0773	0.0496	39
NO0090R	op_DDT	air+aerosol	pg/m³	0.1549	0.1251	0.1202	0.0929	0.0575	0.0163	0.0332	0.3603	0.1669	0.0708	0.0968	0.134	0.1198	37
NO0090R	pp_DDD	air+aerosol	pg/m³	0.0886	0.062	0.0501	0.0424	0.0286	0.0093	0.0297	0.1776	0.1028	0.0504	0.0558	0.0528	0.0632	38
NO0090R	pp_DDE	air+aerosol	pg/m³	0.8172	0.5674	0.5194	0.386	0.1513	0.0638	0.0835	0.3214	0.4449	0.2492	0.423	0.648	0.3961	39
NO0090R	pp_DDT	air+aerosol	pg/m³	0.0108	0.0074	0.0081	0.0104	0.0053	0.0048	0.0058	0.0132	0.0071	0.0117	0.0069	0.0089	0.0084	37
NO0090R	sum_DDT	air+aerosol	pg/m³	1.184	0.9156	0.791	0.62	0.2707	0.1099	0.1699	0.9157	0.7736	0.4248	0.6447	0.9358	0.642	37
NO0090R	BDE_100	air+aerosol	pg/m³	0.0068	0.0147	0.0067	0.0072	0.0065	0.0064	0.0065	0.0166	0.0107	0.0064	0.0064	0.0073	0.0086	41
NO0090R	BDE_119	air+aerosol	pg/m³	0.0016	0.0014	0.0014	0.0015	0.0014	0.0014	0.0014	0.0014	0.0014	0.0014	0.0014	0.0016	0.0014	41
NO0090R	BDE_138	air+aerosol	pg/m³	0.0053	0.0046	0.0047	0.0052	0.0046	0.0045	0.0046	0.0047	0.0046	0.0046	0.0046	0.0052	0.0047	41
NO0090R	BDE_153	air+aerosol	pg/m³	0.0043	0.0102	0.0035	0.0038	0.0034	0.0034	0.0034	0.0036	0.0034	0.0034	0.0034	0.0038	0.0041	41
NO0090R	BDE_154	air+aerosol	pg/m³	0.0033	0.0077	0.0025	0.0027	0.0024	0.0023	0.0024	0.0044	0.0028	0.0024	0.0024	0.0027	0.0032	41
NO0090R	BDE_183	air+aerosol	pg/m³	0.0052	0.0056	0.0032	0.0038	0.0029	0.0028	0.0029	0.0029	0.0028	0.0033	0.0032	0.0032	0.0035	40
NO0090R	BDE_196	air+aerosol	pg/m³	0.0153	0.0104	0.0143	0.0209	0.014	0.0138	0.014	0.0141	0.0139	0.0138	0.0139	0.0157	0.014	40
NO0090R	BDE_206	air+aerosol	pg/m³	0.0183	0.0177	0.0298	0.0362	0.0116	0.013	0.0167	0.0214	0.0139	0.016	0.0155	0.0173	0.0176	35
NO0090R	BDE_209	air+aerosol	pg/m³	0.3834	0.4103	1.1542	0.66	0.2175	0.3088	0.2353	0.5861	0.3991	0.2668	0.277	0.4202	0.43	36
NO0090R	BDE_28	air+aerosol	pg/m³	0.0069	0.0058	0.004	0.0039	0.0045	0.0043	0.005	0.0064	0.0056	0.0036	0.0039	0.0038	0.0049	40
NO0090R	BDE_47	air+aerosol	pg/m³	0.0354	0.0722	0.0331	0.0362	0.035	0.0299	0.031	0.0906	0.1069	0.0358	0.0311	0.0413	0.0467	39
NO0090R	BDE_49	air+aerosol	pg/m³	0.0044	0.0065	0.004	0.0045	0.0054	0.0037	0.0043	0.007	0.0048	0.0046	0.0045	0.0043	0.0048	39
NO0090R	BDE_66	air+aerosol	pg/m³	0.0075	0.0054	0.0033	0.0038	0.0032	0.0031	0.0033	0.0046	0.0037	0.0031	0.0032	0.0036	0.004	39
NO0090R	BDE_71	air+aerosol	pg/m³	0.0044	0.0041	0.0042	0.0049	0.0041	0.004	0.0071	0.0197	0.0041	0.004	0.0289	0.0046	0.0077	39
NO0090R	BDE_77	air+aerosol	pg/m³	0.001	0.001	0.001	0.0011	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	39
NO0090R	BDE_85	air+aerosol	pg/m³	0.0019	0.0031	0.0015	0.0017	0.0015	0.0015	0.0015	0.0021	0.0017	0.0015	0.0015	0.0017	0.0018	40

Site	Comp	matrix	unit	jan	febr	mar	apr	may	june	july	aug	sept	oct	nov	dec	year	capture
NO0090R	BDE_99	air+aerosol	pg/m^3	0.0154	0.0628	0.0127	0.0108	0.0106	0.0111	0.013	0.1028	0.0396	0.0115	0.0099	0.0135	0.0261	40
NO0090R	TBA	air+aerosol	pg/m^3	4.2107	3.0717	2.6711	3.0332	3.4693	2.9604	8.4661	4.0552	7.9693	4.2112	6.3563	5.4922	4.6188	42
NO0090R	PCB_187	air+aerosol	pg/m^3	0.0279	0.0231	0.0286	0.0216	0.0284	0.0071	0.017	0.064	0.043	0.0157	0.0204	0.0433	0.0287	40
NO0090R	HCB	air+aerosol	pg/m^3	45.2781	35.5507	28.9571	43.8002	26.1425	21.8379	16.6981	14.4176	17.4898	22.0842	28.3911	40.4749	27.5049	40
NO0090R	PCB_141	air+aerosol	pg/m^3	0.0151	0.017	0.0165	0.0403	0.018	0.0049	0.0047	0.0449	0.0282	0.0036	0.0078	0.0429	0.0199	40
NO0090R	PCB_99	air+aerosol	pg/m^3	0.1437	0.1197	0.1143	0.121	0.087	0.0339	0.0605	0.1316	0.1596	0.0671	0.0785	0.1028	0.1014	40
NO0090R	PCB_105	air+aerosol	pg/m^3	0.0276	0.0173	0.0183	0.0222	0.0138	0.0057	0.0083	0.0248	0.0306	0.0092	0.015	0.0188	0.018	41
NO0090R	PCB_138	air+aerosol	pg/m^3	0.1681	0.08	0.0732	0.1708	0.0565	0.0248	0.0406	0.151	0.096	0.0355	0.0444	0.1382	0.0907	41
NO0090R	PCB_157	air+aerosol	pg/m^3	0.0017	0.0024	0.001	0.0014	0.0011	0.0013	0.0027	0.0018	0.0018	0.0011	0.0011	0.0013	0.0016	41
NO0090R	PCB_74	air+aerosol	pg/m^3	0.1167	0.0793	0.0737	0.0904	0.0602	0.022	0.0365	0.102	0.122	0.0456	0.0555	0.0706	0.0731	41
NO0090R	PCB_156	air+aerosol	pg/m^3	0.0053	0.0045	0.0036	0.0117	0.0047	0.0019	0.0027	0.005	0.0033	0.0027	0.0018	0.0101	0.0046	41
NO0090R	PCB_128	air+aerosol	pg/m^3	0.0094	0.0099	0.01	0.0245	0.0093	0.003	0.003	0.0198	0.0135	0.0053	0.002	0.016	0.0103	41
NO0090R	PCB_118	air+aerosol	pg/m^3	0.1518	0.073	0.0699	0.1121	0.0518	0.0186	0.0429	0.0935	0.1094	0.0382	0.0467	0.0801	0.0756	41
NO0090R	PCB_183	air+aerosol	pg/m^3	0.0088	0.0082	0.0079	0.0083	0.0097	0.0022	0.0059	0.0213	0.0124	0.0033	0.0069	0.0149	0.0091	41
NO0090R	PCB_101	air+aerosol	pg/m^3	0.3016	0.2674	0.2596	0.4661	0.2212	0.0823	0.1575	0.4065	0.3682	0.1514	0.1718	0.2991	0.256	41
NO0090R	PCB_114	air+aerosol	pg/m^3	0.0055	0.0064	0.0022	0.0022	0.0017	0.0022	0.0051	0.0049	0.0046	0.0023	0.0024	0.0021	0.0036	42
NO0090R	PCB_122	air+aerosol	pg/m^3	0.0047	0.0055	0.0016	0.0073	0.001	0.0025	0.0051	0.0049	0.0043	0.0022	0.0022	0.0012	0.0036	42
NO0090R	PCB_123	air+aerosol	pg/m^3	0.0048	0.0057	0.0017	0.001	0.0011	0.0022	0.0051	0.0049	0.0064	0.0022	0.0022	0.0012	0.0033	42
NO0090R	PCB_149	air+aerosol	pg/m^3	0.1672	0.1394	0.1427	0.2173	0.131	0.0535	0.1025	0.2941	0.2309	0.094	0.0945	0.2145	0.155	42
NO0090R	PCB_153	air+aerosol	pg/m^3	0.1736	0.1404	0.1283	0.2666	0.1021	0.0409	0.0752	0.2501	0.1756	0.0665	0.073	0.2103	0.1391	42
NO0090R	PCB_167	air+aerosol	pg/m^3	0.0026	0.0028	0.0018	0.0073	0.0039	0.0015	0.0027	0.0019	0.0032	0.0024	0.0022	0.0064	0.003	42
NO0090R	PCB_170	air+aerosol	pg/m^3	0.0073	0.0076	0.0057	0.0165	0.0072	0.0021	0.0044	0.0136	0.0043	0.0038	0.0035	0.015	0.0073	42
NO0090R	PCB_18	air+aerosol	pg/m^3	1.3783	1.2326	0.8884	0.8489	0.5006	0.2357	0.2832	0.4574	0.9977	0.4522	0.7258	0.8382	0.7391	42
NO0090R	PCB_180	air+aerosol	pg/m^3	0.0206	0.0179	0.0198	0.0664	0.0225	0.0058	0.0105	0.0479	0.0278	0.007	0.0096	0.0482	0.0241	42
NO0090R	PCB_189	air+aerosol	pg/m^3	0.0017	0.0033	0.0012	0.0013	0.001	0.0017	0.0044	0.003	0.0033	0.0018	0.0018	0.001	0.0021	42
NO0090R	PCB_194	air+aerosol	pg/m^3	0.0018	0.0024	0.0015	0.0026	0.0017	0.0017	0.0039	0.0028	0.0028	0.0015	0.0018	0.0027	0.0022	42
NO0090R	PCB_206	air+aerosol	pg/m^3	0.0014	0.0022	0.0013	0.0013	0.001	0.0015	0.0031	0.0018	0.0021	0.0016	0.0014	0.001	0.0017	42
NO0090R	PCB_209	air+aerosol	pg/m^3	0.0026	0.0037	0.0028	0.0022	0.0018	0.0018	0.0022	0.0018	0.0019	0.0018	0.0023	0.0028	0.0023	42
NO0090R	PCB_28	air+aerosol	pg/m^3	0.7722	0.5751	0.4708	0.4958	0.3544	0.1346	0.2157	0.4741	0.7711	0.2724	0.3918	0.4747	0.4537	42
NO0090R	PCB_31	air+aerosol	pg/m^3	0.6976	0.5645	0.4535	0.4709	0.3476	0.1427	0.2013	0.4388	0.6523	0.2565	0.3588	0.4394	0.4217	42
NO0090R	PCB_33	air+aerosol	pg/m^3	0.4565	0.3453	0.2491	0.2757	0.1819	0.0718	0.1142	0.2544	0.3901	0.1477	0.2094	0.2427	0.248	42
NO0090R	PCB_37	air+aerosol	pg/m^3	0.0726	0.0322	0.025	0.0334	0.0225	0.007	0.0135	0.0381	0.0598	0.017	0.0238	0.029	0.032	42
NO0090R	PCB_47	air+aerosol	pg/m^3	0.5367	0.4533	0.4755	0.4337	0.7461	0.4387	0.622	1.3247	0.7953	0.5221	0.3869	0.2958	0.6035	42
NO0090R	PCB_52	air+aerosol	pg/m^3	0.6502	0.5665	0.5204	0.5781	0.4121	0.1833	0.262	0.5995	0.6592	0.3172	0.3999	0.4731	0.4706	42
NO0090R	PCB_66	air+aerosol	pg/m^3	0.177	0.1164	0.1031	0.1351	0.0821	0.0351	0.0647	0.1683	0.181	0.0705	0.0818	0.0972	0.1109	42
NO0090R	sum_PCB	air+aerosol	pg/m^3	7.2674	5.998	5.0862	9.445	6.4828	2.2085	3.556	9.3652	10.3898	4.7385	5.944	8.0179	6.4313	41
NO0090R	sum_pentachlor_PCB	air+aerosol	pg/m^3	0.6087	0.4775	0.4645	1.1278	0.6315	0.1998	0.3798	1.2193	1.1697	0.4288	0.5394	0.8038	0.6533	41
NO0090R	sum_heptachlor_PCB	air+aerosol	pg/m^3	0.0638	0.0522	0.0618	0.1725	0.1002	0.0172	0.0282	0.2128	0.1129	0.0295	0.0493	0.1842	0.0869	42
NO0090R	sum_hexachlor_PCB	air+aerosol	pg/m^3	0.5339	0.3832	0.3764	2.423	1.6795	0.1647	0.2647	1.2418	1.1508	0.9026	0.9495	2.3358	0.9776	42
NO0090R	sum_tetrachlor_PCB	air+aerosol	pg/m^3	1.4756	1.279	1.292	2.2676	2.123	0.9771	1.611	4.0175	3.516	1.6996	1.8075	1.8205	1.9971	42
NO0090R	sum_trichlor_PCB	air+aerosol	pg/m^3	4.5349	3.7977	2.8858	2.9422	1.9441	0.8447	1.263	2.6673	4.4336	1.6732	2.5929	2.8671	2.7188	42
SE0014R	BDE_209	air+aerosol	pg/m^3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	92
SE0014R	PFOA	air+aerosol	pg/m^3	2.4	2.4	2.5016	2.5375	2.1	2.2633	1.7	1.6855	1.0395	0.44	1.0225	4.7	2.0125	92
SE0014R	PFOS	air+aerosol	pg/m^3	1.2	1.2	0.9471	1.2	1.2	1.585	1.3019	0.7585	0.6872	0.56	1.1025	2.1	1.1392	92
SE0014R	BDE_100	air+aerosol	pg/m^3	0.02	0.02	0.0203	0.0244	0.02	0.0247	0.02	0.0201	0.0245	0.02	0.0204	0.035	0.0223	99
SE0014R	BDE_153	air+aerosol	pg/m^3	0.025	0.025	0.025	0.025	0.025	0.0297	0.025	0.0252	0.0341	0.025	0.0255	0.045	0.0277	99
SE0014R	BDE_154	air+aerosol	pg/m^3	0.025	0.025	0.025	0.025	0.025	0.0297	0.025	0.0252	0.0341	0.025	0.0255	0.045	0.0277	99
SE0014R	BDE_47	air+aerosol	pg/m^3	0.1093	0.15	0.2494	0.1525	0.17	0.1764	0.1307	0.1885	0.1282	0.11	0.1491	0.18	0.1577	99
SE0014R	BDE_85	air+aerosol	pg/m^3	0.025	0.025	0.025	0.025	0.025	0.0297	0.025	0.0252	0.0341	0.025	0.0255	0.045	0.0277	99
SE0014R	BDE_99	air+aerosol	pg/m^3	0.02	0.02	0.1377	0.0323	0.083	0.0252	0.0384	0.1372	0.0245	0.02	0.0204	0.035	0.0501	99
SE0014R	HCB	air+aerosol	pg/m^3	-	-	-	-	-	-	-	-	-	-	-	-	-	0
SE0014R	PCB_101	air+aerosol	pg/m^3	0.7823	0.88	0.9669	1.2612	0.99	1.7699	3.0919	3.5831	2.7808	1.6	1.32	1.6	1.7263	99
SE0014R	PCB_118	air+aerosol	pg/m^3	0.2093	0.25	0.3279	0.3488	0.34	0.5687	1.6694	1.4862	0.8924	0.52	0.3495	0.42	0.6211	99
SE0014R	PCB_138	air+aerosol	pg/m^3	0.4519	0.46	0.4741	0.685	0.51	1.3634	2.4081	1.9121	2.29	1.2	0.6774	0.83	1.1117	99
SE0014R	PCB_153	air+aerosol	pg/m^3	0.6167	0.69	0.7527	0.9725	0.78	1.5582	2.6766	3.0927	2.69	1.6	0.9553	1.2	1.4737	99
SE0014R	PCB_180	air+aerosol	pg/m^3	0.1381	0.13	0.1927	0.2663	0.17	0.4162	0.7115	0.7212	0.7416	0.46	0.1979	0.055	0.3543	99
SE0014R	PCB_28	air+aerosol	pg/m^3	0.5619	0.79	0.9735	0.7113	0.93	0.9312	1.3068	1.5088	1.4362	1.2	0.9598	1.3	1.0508	99
SE0014R	PCB_52	air+aerosol	pg/m^3	0.8578	0.98	1.1911	1.2	1.2	1.5383	2.154	1.9121	2.3175	1.5	1.3158	1.6	1.4822	99

Site	Comp	matrix	unit	jan	febr	mar	apr	may	june	july	aug	sept	oct	nov	dec	year	capture
SE0014R	aldrin	air+aerosol	ng/m3	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	99
SE0014R	alpha_HCH	air+aerosol	ng/m3	2.2927	2.7	3.6427	3.5	4.2	4.9875	5.3137	7.5637	5.9167	4.1	3.4642	4.8	4.3819	99
SE0014R	alpha_endosulfan	air+aerosol	ng/m3	0.4074	0.44	0.4761	0.51	1	0.9802	1.4379	2.1806	1.3725	1.1	1.7351	0.37	1.0104	99
SE0014R	anthracene	air+aerosol	ng/m3	0.0178	0.017	0.0138	0.0081	0.002	0.002	0.0022	0.0031	0.0081	0.019	0.0143	0.018	0.0103	99
SE0014R	benz_a_anthracene	air+aerosol	ng/m3	0.0388	0.051	0.0446	0.0304	0.005	0.03	0.002	0.0021	0.0074	0.021	0.0419	0.034	0.0254	99
SE0014R	benzo_a_pyrene	air+aerosol	ng/m3	0.043	0.074	0.0511	0.0192	0.007	0.004	0.0046	0.0082	0.0191	0.06	0.0472	0.072	0.0335	99
SE0014R	benzo_b_fluoranthene	air+aerosol	ng/m3	0.0889	0.15	0.1081	0.0445	0.02	0.017	0.0166	0.0204	0.0428	0.12	0.0937	0.15	0.0715	99
SE0014R	benzo_ghi_perylene	air+aerosol	ng/m3	0.053	0.088	0.0829	0.0274	0.009	0.006	0.0066	0.0102	0.0253	0.078	0.0577	0.086	0.0435	99
SE0014R	benzo_k_fluoranthene	air+aerosol	ng/m3	0.0339	0.064	0.0451	0.0166	0.007	0.005	0.0055	0.0081	0.0171	0.048	0.0377	0.047	0.0275	99
SE0014R	beta_endosulfan	air+aerosol	ng/m3	0.01	0.01	0.0245	0.0134	0.037	0.0405	0.0782	0.0624	0.0386	0.035	0.0661	0.01	0.0359	99
SE0014R	chrysene	air+aerosol	ng/m3	0.113	0.17	0.1316	0.1234	0.077	0.124	0.0465	0.1107	0.1483	0.23	0.1743	0.24	0.1394	99
SE0014R	dibenzo_ah_anthracene	air+aerosol	ng/m3	0.0067	0.014	0.0098	0.0027	0.001	0.001	0.001	0.001	0.0026	0.009	0.0072	0.011	0.0055	99
SE0014R	fluoranthene	air+aerosol	ng/m3	0.4745	0.67	0.3906	0.1862	0.09	0.0702	0.0731	0.0915	0.1738	0.41	0.3946	0.54	0.2924	99
SE0014R	gamma_HCH	air+aerosol	pg/m^3	1.5556	1.8	2.3702	2.4	3.1	3.8117	5.6387	5.375	7.9692	3.7	3.0392	3.4	3.6916	99
SE0014R	inden_123cd_pyrene	air+aerosol	ng/m3	0.0568	0.1	0.0907	0.0283	0.009	0.0061	0.0075	0.0103	0.0281	0.089	0.0664	0.081	0.0472	99
SE0014R	phenanthrene	air+aerosol	ng/m3	1.3742	1.7	1.0164	0.7338	0.34	0.3196	0.3207	0.3831	0.5733	1.2	1.2958	1.3	0.8702	99
SE0014R	pp_DDD	air+aerosol	pg/m^3	0.0274	0.06	0.0685	0.0775	0.27	0.1609	0.1462	0.0748	0.2535	0.09	0.0758	0.27	0.1303	99
SE0014R	pp_DDE	air+aerosol	pg/m^3	2.2782	3.5	1.9306	1.3375	1.6	0.8522	1.054	0.8218	2.0025	5	4.7383	2	2.2523	99
SE0014R	pp_DDT	air+aerosol	pg/m^3	0.2675	0.52	0.5313	0.25	0.32	0.3422	0.6258	1.094	0.8197	0.52	0.5288	0.87	0.5553	99
SE0014R	pyrene	air+aerosol	ng/m3	0.2985	0.38	0.2756	0.12	0.05	0.0494	0.0415	0.0512	0.1174	0.29	0.2728	0.35	0.1887	99
PT0004R	acenaphthene	pm10	ng/m3	0.0125	0.01	0.01	0.01	0.0133	0.0115	0.011	0.012	0.0155	0.0104	0.0113	0.013	0.0114	11
PT0004R	acenaphthylene	pm10	ng/m3	0.01	0.01	0.01	0.01	0.0107	0.011	0.011	0.011	0.0105	0.01	0.01	0.01	0.0103	11
PT0004R	anthracene	pm10	ng/m3	0.01	0.01	0.01	0.01	0.0107	0.011	0.011	0.011	0.0105	0.01	0.01	0.011	0.0104	11
PT0004R	benz_a_anthracene	pm10	ng/m3	0.0497	0.01	0.01	0.01	0.0107	0.011	0.011	0.011	0.0105	0.01	0.0287	0.0675	0.0188	11
PT0004R	benzo_a_pyrene	pm10	ng/m3	0.0927	0.01	0.0136	0.01	0.0107	0.011	0.011	0.011	0.0145	0.0174	0.049	0.1145	0.0288	11
PT0004R	benzo_b_fluoranthene	pm10	ng/m3	0.177	0.0113	0.0206	0.01	0.017	0.0145	0.018	0.011	0.0175	0.029	0.1427	0.28	0.0571	11
PT0004R	benzo_ghi_perylene	pm10	ng/m3	0.12	0.01	0.019	0.01	0.0133	0.012	0.0137	0.011	0.022	0.0284	0.1007	0.225	0.0442	11
PT0004R	benzo_k_fluoranthene	pm10	ng/m3	0.0777	0.01	0.0132	0.01	0.0107	0.011	0.011	0.011	0.0105	0.0154	0.063	0.123	0.0282	11
PT0004R	chrysene	pm10	ng/m3	0.0825	0.01	0.0162	0.01	0.012	0.011	0.011	0.011	0.0155	0.017	0.0783	0.13	0.0312	11
PT0004R	dibenzo_ah_anthracene	pm10	ng/m3	0.01	0.01	0.01	0.01	0.0107	0.011	0.011	0.011	0.0105	0.01	0.01	0.01	0.0103	11
PT0004R	fluoranthene	pm10	ng/m3	0.04	0.01	0.0214	0.01	0.0133	0.013	0.0143	0.011	0.0305	0.0312	0.104	0.225	0.0375	11
PT0004R	fluorene	pm10	ng/m3	0.01	0.01	0.01	0.01	0.0107	0.011	0.011	0.011	0.0105	0.01	0.01	0.01	0.0103	11
PT0004R	inden_123cd_pyrene	pm10	ng/m3	0.163	0.012	0.0206	0.01	0.0127	0.012	0.0157	0.011	0.0165	0.0306	0.1113	0.255	0.0514	11
PT0004R	naphthalene	pm10	ng/m3	0.0495	0.04	0.033	0.0317	0.0247	0.0125	0.011	0.011	0.0155	0.01	0.0137	0.0165	0.0234	11
PT0004R	phenanthrene	pm10	ng/m3	0.023	0.01	0.0132	0.01	0.0113	0.011	0.011	0.011	0.022	0.0188	0.0377	0.0735	0.0192	11
PT0004R	pyrene	pm10	ng/m3	0.0415	0.01	0.0202	0.01	0.012	0.0115	0.0117	0.011	0.0355	0.0196	0.075	0.146	0.0295	11
PT0006R	acenaphthene	pm10	ng/m3	0.015	0.02	0.0215	0.0155	0.014	0.032	0.026	0.02	0.015	0.027	-	-	0.0203	5
PT0006R	acenaphthylene	pm10	ng/m3	0.012	0.012	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.027	-	-	0.0145	5
PT0006R	anthracene	pm10	ng/m3	0.012	0.019	0.0195	0.0155	0.014	0.014	0.017	0.0247	0.014	0.027	-	-	0.0178	5
PT0006R	benz_a_anthracene	pm10	ng/m3	0.012	0.22	0.12	0.0415	0.014	0.0285	0.014	0.0893	0.014	0.086	-	-	0.0609	5
PT0006R	benzo_a_pyrene	pm10	ng/m3	0.076	0.16	0.0785	0.0185	0.014	0.014	0.037	0.075	0.0353	0.027	-	-	0.051	5
PT0006R	benzo_b_fluoranthene	pm10	ng/m3	0.11	0.26	0.14	0.0535	0.014	0.155	0.1	0.135	0.0613	0.17	-	-	0.1141	5
PT0006R	benzo_ghi_perylene	pm10	ng/m3	0.1	0.22	0.14	0.049	0.023	0.067	0.063	0.1333	0.053	0.18	-	-	0.0975	5
PT0006R	benzo_k_fluoranthene	pm10	ng/m3	0.054	0.13	0.061	0.017	0.014	0.065	0.029	0.0523	0.025	0.086	-	-	0.0489	5
PT0006R	chrysene	pm10	ng/m3	0.12	0.31	0.17	0.062	0.014	0.17	0.078	0.102	0.045	0.14	-	-	0.1122	5
PT0006R	dibenzo_ah_anthracene	pm10	ng/m3	0.012	0.012	0.014	0.014	0.014	0.014	0.014	0.014	0.014	0.027	-	-	0.0145	5
PT0006R	fluoranthene	pm10	ng/m3	0.12	0.23	0.17	0.088	0.014	0.195	0.11	0.191	0.07	0.2	-	-	0.139	5
PT0006R	fluorene	pm10	ng/m3	0.012	0.014	0.014	0.014	0.014	0.0155	0.014	0.019	0.014	0.027	-	-	0.0157	5
PT0006R	inden_123cd_pyrene	pm10	ng/m3	0.093	0.22	0.102	0.0275	0.014	0.0925	0.043	0.088	0.0353	0.13	-	-	0.0773	5
PT0006R	naphthalene	pm10	ng/m3	0.012	0.086	0.13	0.0775	0.035	0.066	0.029	0.075	0.025	0.049	-	-	0.0622	5
PT0006R	phenanthrene	pm10	ng/m3	0.071	0.11	0.135	0.078	0.017	0.115	0.066	0.1323	0.049	0.12	-	-	0.0932	5
PT0006R	pyrene	pm10	ng/m3	0.12	0.22	0.17	0.1075	0.017	0.17	0.098	0.2157	0.066	0.18	-	-	0.1397	5

Annex 3

Table A.3.1: Measurements methods for POPs.

Country	Precipitation		Air and aerosols		Laboratory method
	Sampling method	**Frequency**	**Sampling method**	**Frequency**	
Belgium	wet only (POP) total (wet+dry) deposition with funnel bottle (PAH)	4 weeks	Low vol. sampler (Leckel SEQ47/50) = 55m^3/day (PAH)	24h, once every 3 days (PAH)	UPLC with Fluorescence detection (PAH in deposition). ASE + GC-MS (PAH in air). Spedex Extraction(SPE) + GC-MSMS (POPs)
Germany	wet only	Monthly	High vol (filter + PU foam)	monthly	GC-MS
Spain	Bulk (precip + dry dep)	52 days	PM10, High vol	24h, once every 8 days	GC-MS
Great Britain			High Vol. Whatman GF filter + 2 PUR foams.5m^3/h	biweekly sampling, 3 monthly analysis	GC-MS
Iceland	bulk, (Steel funnel 1m2/PUF foam)	Biweekly	PUF-foam 1000m^3/15days	Biweekly	GC-MS
Netherlands	bulk	4 weekly	PM10 LVS, Whatman quartz filter	Sampled every other day, analysis is pooled 3 samples in winter, 5 in summer time	GC-MS
Norway	bulk, funnel and bottle of glass	Weekly	High Vol.Gelman AE filter + 2 PUR foams. 20m^3/h	NO01: 24h a week NO42: 48h a week	GC-MS
Portugal	wet only	2 week sampling			GC-HRMS,HPLC, GC-ECD
Sweden	Bulk (precip + dry dep)	monthly	High vol (filter + PU foam)	weekly sampling, monthly analyses	HPLC, GC-ECD

HPLC: High Performance Liquid Chromatography
GC -MS: Gas chromatograph with Mass Spectrometry
GC - ECD: Gas chromatograph with Electron Capture Detector
TLC: Thin Layer Chromatography
GC-HRMS: Gas chromatograph High Performance with Mass Spectrometry

Table A.3.2: Measurements methods for Heavy metals.

Country	Precipitation		Air and aerosols		Laboratory method
	Field method	**Frequency**	**Field method**	**Frequency**	
Belgium	wet only	weekly	Low volume sampler	daily	ICP-MS
Hg	wet only	weekly			CV-AFS
Germany	wet only	Weekly	Low volume sampler	weekly	ICP-MS
Hg	wet only	Weekly	TGM : monitor (Tekran)	daily (reported)	
Denmark	Bulk	Monthly	Low volume sampler, Millipore RAWP 1.2 □m, 58 m³/day	daily	ICP-MS (aerosol) GF-AAS (precipitation)
Hg			TGM: monitor (Tekran)	continously	
Spain	wet only	Weekly	High-vol, PM10	24h a week	ICP-MS (aerosol) GF-AAS for precip
	Bulk	Monthly	TGM: monitor (Tekran)	continuously	
France	Bulk	Monthly			ICP-MS
Great Britain	Bulk	GB06,17: monthly GB13,91: weekly	PM10, low volume sampler	weekly	ICP-MS
Ireland	Bulk	Monthly	TGM: monitor (Tekran)	continuously	ICP-MS
Netherlands	Wet-only	weekly	Low volume sampler	24h every 2 days	ICP-MS
Hg	Wet-only	Weekly			CV-AFS
Norway	Bulk	Weekly	NO42: High Vol, 20 l/h, W41	48h a week	ICP-MS
			NO01: PM10 KFG 2.3 l/h, quartz	Weekly	
Hg	Bulk (Hg)	Monthly	TGM: monitor (Tekran)	continuously	CV-AFS
Portugal	wet only	2 week sampling			ICP-MS;CV-AFS (Hg)
Sweden	Bulk	Monthly	Low volume sampler, Teflon filter	monthly	ICP-MS
Hg	Bulk (Hg)	Bi-weekly	Hg: gold traps (TGM)	2 X 24 h a week	CV-AFS
			Hg: mini traps (TPM)	2 X 24 h a week	CV-AFS

GF-AAS: Graphic Furnace Atomic Absorption Spectroscopy
ICP-MS: Inductively Coupled Plasma - Mass Spectrometry
CV-AFS: Cold Vapour Atomic Fluorescence Spectroscopy

Table A.3.3: Measurement methods for nitrogen species.

Country	Precipitation		Air and aerosols		Laboratory method
	Field method	**Frequency**	**Field methods**	**Frequency**	
Belgium	wet only	biweekly	NO_2: Chemiluminisence monitor NH_3: passive sampler	half hourly 4 weeks	IC
Germany	wet only	weekly	NO_2: NaI imp. Glass filters, 0.7m^3/day NH_3: low-cost-denuder NO_3^-, NH_4^+: LVS, $PM_{2.5}$, quartz filter	daily weekly every 3rd day	NO2: FIA NH3: FIA IC
Denmark	wet only	biweekly	Monitor. Chemiluminisence sumNO_3: Millipore RAWP, 1.2 KOH-impregnated Whatman 41, 58 m^3/day (filterpack) sumNH_4. Millipore RAWP, 1.2 impregnated Whatman 41, 58 m^3/day (filterpack)	hourly daily	NO3: IC NH4: Spect. (CFA)
Spain	wet onlt	daily	NO_2: Chemiluminescence monitor sumNO_3: NaOH impregnated Whatman 40 filter, 35 m^3/day sumNH_4: Oxalic acid impregnated Whatman 40 filter, 35 m^3/day		NH4: AAS NO3: IC
Great Britain	bulk	biweekly	NO_2: Chemiluminescence monitor sumNO_3 and NH4: Delta sampler (low volume denuder and filter pack)		IC
Ireland	bulk	daily			IC
Iceland	bulk	daily			IC
Netherlands	wet only	NL09: daily NL91: biweekly	NO_2: Chemiluminescence monitor NH_3: Absorption in $NaHSO_4$, membrane separation NO_3 and NH4: Whatman QMA filter 47 mm, 55.2 m^3/day	hourly hourly dauly	NH3: conductivity NO3: IC, NH4: CFA
Norway	bulk	NO01 and NO39: daily NO554,NO572 NO655:weekly	NO_2: NaI imp. Glass filters, 0.7m^3/day sumNO_3. Teflon filter+ KOH-impregnated Whatman 40 filter, 25 m^3/day (Filterpack) sumNH_4: Teflon filter + Oxalic acid-impregnated Whatman 40 filter, 25 m^3/day (Filterpack)	daily daily	NO2: Spect., Griess method NH4,NO3: IC
Portugal	wet only	biweekly			
Sweden	wet only	daily	NO_2: NaI-impregnated glass sinters, ~0.7 m^3/day	daily	Spectr. FIA

Country	Precipitation		Air and aerosols		Laboratory method
	Field method	Frequency	Field methods	Frequency	
			$SumNO_3$: Mitex membrane + KOH-impregnated Whatman 40 filter, 20 m^3/day (filterpack)	daily	IC
			sum NH_4; Mitex membrane + Oxalic acid impregnated Whatman 40 filter, 20 m3/day (filterpack)	daily	Spectr. FIA

IC: ion chromatograph

CFA: continuous flow analysis

FIA. Flow injection analyisis

Annex 4

Detection limit

Limits of detection (LODs)

In precipitation	Unit	BE	DK	DE	NL	GB	IE	IS	NO	PT	SE
NO_3^-	mgN/L	0.02	0.08	0.02	0.06	0.01			0.01	0.2	0.002
NH_4^+	mgN/L	0.02	0.02	0.001	0.05	0.01			0.01	0.2	0.01
As	ug/L	0.015	0.03	0.004	0.15	0.008			0.09	0.4	0.03
Cd	ug/L	0.06	0.008	0.001	0.03	0.002			0.009	0.1	0.002
Cr	ug/L	0.14	0.04	0.01	0.5	0.04			0.09	0.4	0.02
Cu	ug/L	0.87	0.05	0.01	0.4	0.02			0.09	1	0.01
Ni	ug/L	0.16	0.07	0.002	0.4	0.01			0.02	0.4	0.015
Pb	ug/L	0.07	0.07	0.001	0.4	0.06			0.06	0.4	0.02
Zn	ug/L	1.55			4	1			0.12	1.4	0.5
Hg	ng/L	0.72		0.5	2	0.001	25		0.2 ng abs.	20	0.04
γ-HCH	ng/L	0.8		0.055 ng abs	0.4				0.01		0.01-0.04 ng/m^2, day
HCB, PCBs	ng/L	0.5-0.8							1-2		0.02-0.05 ng/m^2, day
PAHs	µg/m²/day	0.001-0.01			1 ng/L					10	0.0001 µg/m^2, day

In air and aerosols	Unit	BE	DK	DE	NL	GB	IE	IS	NO	PT	SE
NO_2	µgN/m^3	0.58	3.1	0.1/0.03	0.4ppb	0.3-0.7			0.03		0.09
Sum (NO_3+HNO_3)	µgN/m^3		0.1						0.01		0.01
Sum (NH_4+NH_3)	µgN/m^3								0.05		0.01
NH_3	µgN/m^3	2.39	0.1	0.08		0.01					
HNO_3	µgN/m^3					0.01					
NH_4	µgN/m^3		0.1	0.08		0.02					
NO_3	µgN/m^3			0.002		0.01					
As	ng/m^3	0.1	0.07	0.01	0.5	0.021			0.003	0.2	0.06
Cd	ng/m^3	0.02	0.1	0.003	0.2	0.009			0.0006	0.4	0.008
Cr	ng/m^3	1.9				1.7			0.07		0.24
Cu	ng/m^3	2.3				0.11			0.03		0.6
Ni	ng/m^3	1.6	0.7	0.2	0.2	0.06			0.2	0.4	1
Pb	ng/m^3	0.3	0.4	0.05	2	0.10			0.05	0.4	0.28
Zn	ng/m^3	4.2			21.7	0.52			0.08		3.2
Hg (g)	ng/m^3					0.08			0.2 ng abs.		0.01
HCB, PCBs, HCHs	pg/m^3								0.05-0.8		0.03-0.08
PAHs	ng/m^3	0.01-0.08			0.001-0.02	0.01-0.03			ca 0.001	ca 0.02	0.001-0,002

Victoria House
37-63 Southampton Row
London WC1B 4DA
United Kingdom

t: +44 (0)20 7430 5200
f: +44 (0)20 7242 3737
e: secretariat@ospar.org
www.ospar.org

OSPAR's vision is of a clean, healthy and biologically diverse North-East Atlantic used sustainably

ISBN 978-1-911458-37-1
Publication Number: 697/2017

© OSPAR Commission, 2017. Permission may be granted by the publishers for the report to be wholly or partly reproduced in publications provided that the source of the extract is clearly indicated.

© Commission OSPAR, 2017. La reproduction de tout ou partie de ce rapport dans une publication peut être autorisée par l'Editeur, sous réserve que l'origine de l'extrait soit clairement mentionnée.