

# Bathing water data reporting 2020



XX March 2020– Bathing water reporting 2020  
, ETC/ICM – TC Vode  
Peter Kristensen, EEA

European Environment Agency



- 1) Data call for 2020 bathing season: revised data model;
- 2) Specific issues related to bathing water data reporting
  - Prohibited, inaccessible, and delisted bathing waters
  - Short Term Pollution events
  - Bathing waters in groups
- 3) Assessment principles
- 4) Discussion (10 mins)

- 1. Data call for 2020 bathing season:  
revised reporting**



## 2020 data call – BWD 2019 (revised)

- EEA's future developments on improvements in reporting, Quality Controls (QC) and feedback information (dashboards) are concentrated on **BWD 2019** and **Reportnet 3.0**.
- In 2019, EEA launched **BWD 2019** reporting model, which will replace **Old BWD** reporting in 2020.
- **BWD 2019** has a similar structure to **Old BWD**, improved performance, better options for feedback and (in the future) automatic calculation of status.
- The revised **BWD 2019** reporting model requires some details on seasonal events e.g. short term pollution events that not all countries have reported under the Old Bathing water reporting.
- In 2020, it will also be possible to report via **Reportnet 3.0** using the **BWD 2019** reporting model. EEA plans in the coming months to arrange a Webinar to demonstrate Reportnet 3.0 functionality.

# Terminology we use:

ROD 531

reporting obligation

ROD 787

„Old BWD“ reporting

process

„BWD 2019“ reporting



Old BWD data model

Revised BWD data model



Old BWD templates

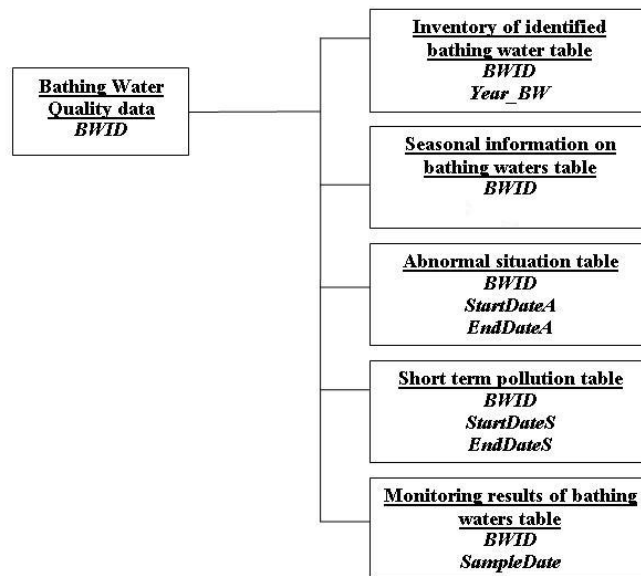
Revised BWD templates

## 3.a: Old (existing) and revised BWD data model

### Old (existing) data model

- **Five** relational tables;
- Management periods (bathing season, STP, abnormal situation) reported in **three** distinct tables (seasonal info, abnormal situations, short term pollution).

WISE: Bathing Water Quality Data Model. Directive 2006/7/EC

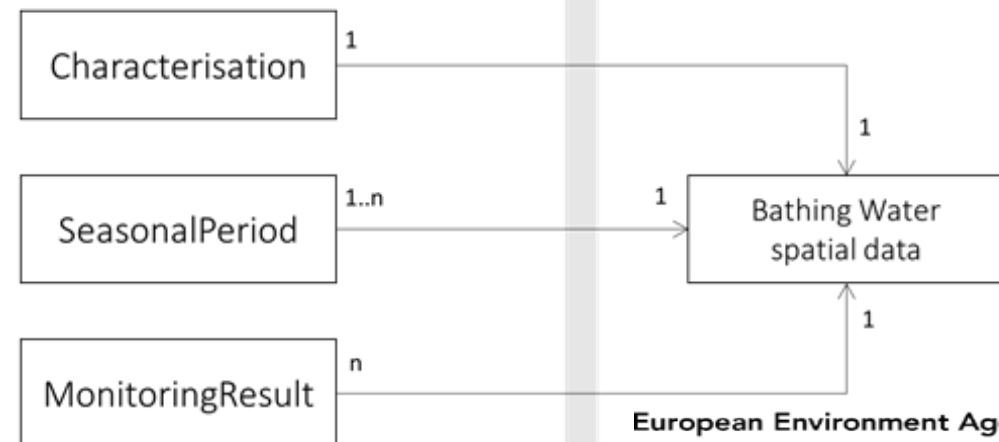


### BWD 2019 (revised) data model

- **Three** relational tables (xls) + **one** spatial table (gml);
- Management periods (bathing season, STP, abnormal situation, **cyanobacteria, inaccessible, bathingProhibition, delisted**) reported in **one** table (SeasonalPeriod)
- Spatial table: Reporting done **only once** – after that, only changes are reported (e.g. new BWs, change in coordinates ).

Monitoring and Classification of Bathing Waters - 2019

Identification of Bathing Areas - 2019



European Environment Agency



# BWD monitoring and classification – differences between old and new reporting

ROD	New table	New attribute	Old (existing) table	Old (existing) attribute
ROD 787 - Monitoring and Classification	Characterisation	season	Identified	Year_BW
		bathingWaterIdentifier	Identified	BWID
		groupIdentifier	Identified	GroupID
		qualityClass	SeasonalInfo	Class
		geographicalConstraint	Identified	SpecGeoCon
		link		
		remarks		
	SeasonalPeriod	season		
		bathingWaterIdentifier	SeasonalInfo	BWID
		periodType		
		startDate	SeasonalInfo	StartDate
		endDate	SeasonalInfo	EndDate
		managementMeasures	SeasonalInfo	ManMeas
		remarks		
	MonitoringResult	season		
		bathingWaterIdentifier	MonitoringResults	BWID
		sampleDate	MonitoringResults	SampleDate
		intestinalEnterococciValue	MonitoringResults	ConcIE
		escherichiaColiValue	MonitoringResults	ConcEC
		sampleStatus		
		intestinalEnterococciStatus		
		escherichiaColiStatus		
		Remarks	MonitoringResults	



## BWD Bathing water spatial data – differences between old and new reporting

ROD	New table	New attribute	Old (Existing) table	Old (Existing) attribute
ROD 788 - Identification of Bathing Waters	SPATIAL_ProtectedArea	geometry	Identified	Longitude_BW Latitude_BW
		inspireIdLocalId		
		inspireIdNamespace		
		inspireIdVersionId		
		thematicIdIdentifier	Identified	BWID
		thematicIdIdentifierScheme		
		beginLifespanVersion		
		endLifespanVersion		
		predecessorsIdentifier		
		predecessorsIdentifierScheme		
		successorsIdentifier		
		successorsIdentifierScheme		
		wiseEvolutionType		
		nameTextInternational		
		nameText	Identified	BWName
		nameLanguage		
		designationPeriodBegin		
		designationPeriodEnd		
zoneType				
specialisedZoneType	Identified	BWCat		
legalBasisName				

- Bathing waters are protected areas under the [WFD](#). The register of WFD protected areas identifiers is kept in the [WISE WFDProtectedArea](#) vocabulary.
- Follows the requirements of the [INSPIRE](#).
- Enables more systematic reporting of changes in bathing water IDs (successors, predecessors).
- Reporting of bathing water spatial data (ROD 788) will be enabled in summer 2020. Until then, new bathing waters (e.g. or changes in BW location, identifier...) can be reported within ROD 531.





# Three datasets – Characterization – Bathing Season – Monitoring results

	A	B	C	D	E	F	G
1	season	bathingWaterIdentifier	groupIdentifier	qualityClass	geographicalConstraint	link	Remarks
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
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17							
18							

Characterisation of the bathing water

Description of the bathing water season and other applicable periods

Monitoring results on intestinal Enterococci and Escherichia coli



# Dataset: Characterisation – Season (year of bathing season)

	A	B	C	D	E	F	G
1	season	bathingWaterIdentifier	groupIdentifier	qualityClass	geographicalConstraint	link	Remarks
2	2019	MS1010		1		0 <a href="http://www.bathingwater.ms/profiles/ms1010.pdf">http://www.bathingwater.ms/profiles/ms1010.pdf</a>	
3	2019	MS1011		1		0 <a href="http://www.bathingwater.ms/profiles/ms1011.pdf">http://www.bathingwater.ms/profiles/ms1011.pdf</a>	
4	2019	MS1012		2		0 <a href="http://www.bathingwater.ms/profiles/ms1012.pdf">http://www.bathingwater.ms/profiles/ms1012.pdf</a>	
5	2019	MS1013		1		1 <a href="http://www.bathingwater.ms/profiles/ms1013.pdf">http://www.bathingwater.ms/profiles/ms1013.pdf</a>	High-altitude BW
6	2019	MS1014		4		0 <a href="http://www.bathingwater.ms/profiles/ms1014.pdf">http://www.bathingwater.ms/profiles/ms1014.pdf</a>	
7	2019	MS1015	MSG4	1		0 <a href="http://www.bathingwater.ms/profiles/ms1015.pdf">http://www.bathingwater.ms/profiles/ms1015.pdf</a>	
8	2019	MS1016	MSG4	1		0 <a href="http://www.bathingwater.ms/profiles/ms1016.pdf">http://www.bathingwater.ms/profiles/ms1016.pdf</a>	
9	2019	MS1017		1		0 <a href="http://www.bathingwater.ms/profiles/ms1017.pdf">http://www.bathingwater.ms/profiles/ms1017.pdf</a>	
10	2019	MS1018		3		0 <a href="http://www.bathingwater.ms/profiles/ms1018.pdf">http://www.bathingwater.ms/profiles/ms1018.pdf</a>	
11	2019	MS1019		0		0 <a href="http://www.bathingwater.ms/profiles/ms1019.pdf">http://www.bathingwater.ms/profiles/ms1019.pdf</a>	
12							
13							
14							
15							
16							
17							
18							

**Definition:** year of the bathing season

**Type:** integer (gYear)

# Dataset: Characterisation – BathingWaterIdentifier

	A	B	C	D	E	F	G
1	season	bathingWaterIdentifier	groupIdentifier	qualityClass	geographicalConstraint	link	Remarks
2	2019	MS1010			1	0 <a href="http://www.bathingwater.ms/profiles/ms1010.pdf">http://www.bathingwater.ms/profiles/ms1010.pdf</a>	
3	2019	MS1011			1	0 <a href="http://www.bathingwater.ms/profiles/ms1011.pdf">http://www.bathingwater.ms/profiles/ms1011.pdf</a>	
4	2019	MS1012			2	0 <a href="http://www.bathingwater.ms/profiles/ms1012.pdf">http://www.bathingwater.ms/profiles/ms1012.pdf</a>	
5	2019	MS1013			1	1 <a href="http://www.bathingwater.ms/profiles/ms1013.pdf">http://www.bathingwater.ms/profiles/ms1013.pdf</a>	High-altitude BW
6	2019	MS1014			4	0 <a href="http://www.bathingwater.ms/profiles/ms1014.pdf">http://www.bathingwater.ms/profiles/ms1014.pdf</a>	
7	2019	MS1015	MSG4		1	0 <a href="http://www.bathingwater.ms/profiles/ms1015.pdf">http://www.bathingwater.ms/profiles/ms1015.pdf</a>	
8	2019	MS1016	MSG4		1	0 <a href="http://www.bathingwater.ms/profiles/ms1016.pdf">http://www.bathingwater.ms/profiles/ms1016.pdf</a>	
9	2019	MS1017			1	0 <a href="http://www.bathingwater.ms/profiles/ms1017.pdf">http://www.bathingwater.ms/profiles/ms1017.pdf</a>	
10	2019	MS1018			3	0 <a href="http://www.bathingwater.ms/profiles/ms1018.pdf">http://www.bathingwater.ms/profiles/ms1018.pdf</a>	
11	2019	MS1019			0	0 <a href="http://www.bathingwater.ms/profiles/ms1019.pdf">http://www.bathingwater.ms/profiles/ms1019.pdf</a>	
12							
13							
14							
15							
16							
17							
18							

**Definition:** unique identifier of the bathing water. Must be a valid bathing water identifier in the "WFDProtectedArea" registry.

**Type:** string, 3-43 characters



# Dataset : Characterisation – Group identifier

	A	B	C	D	E	F	G
1	season	bathingWaterIdentifier	groupIdentifier	qualityClass	geographicalConstraint	link	Remarks
2	2019	MS1010		1	0	<a href="http://www.bathingwater.ms/profiles/ms1010.pdf">http://www.bathingwater.ms/profiles/ms1010.pdf</a>	
3	2019	MS1011		1	0	<a href="http://www.bathingwater.ms/profiles/ms1011.pdf">http://www.bathingwater.ms/profiles/ms1011.pdf</a>	
4	2019	MS1012		2	0	<a href="http://www.bathingwater.ms/profiles/ms1012.pdf">http://www.bathingwater.ms/profiles/ms1012.pdf</a>	
5	2019	MS1013		1	1	<a href="http://www.bathingwater.ms/profiles/ms1013.pdf">http://www.bathingwater.ms/profiles/ms1013.pdf</a>	High-altitude BW
6	2019	MS1014		4	0	<a href="http://www.bathingwater.ms/profiles/ms1014.pdf">http://www.bathingwater.ms/profiles/ms1014.pdf</a>	
7	2019	MS1015	MSG4	1	0	<a href="http://www.bathingwater.ms/profiles/ms1015.pdf">http://www.bathingwater.ms/profiles/ms1015.pdf</a>	
8	2019	MS1016	MSG4	1	0	<a href="http://www.bathingwater.ms/profiles/ms1016.pdf">http://www.bathingwater.ms/profiles/ms1016.pdf</a>	
9	2019	MS1017		1	0	<a href="http://www.bathingwater.ms/profiles/ms1017.pdf">http://www.bathingwater.ms/profiles/ms1017.pdf</a>	
10	2019	MS1018		3	0	<a href="http://www.bathingwater.ms/profiles/ms1018.pdf">http://www.bathingwater.ms/profiles/ms1018.pdf</a>	
11	2019	MS1019		0	0	<a href="http://www.bathingwater.ms/profiles/ms1019.pdf">http://www.bathingwater.ms/profiles/ms1019.pdf</a>	
12							
13							
14							
15							
16							
17							
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**Definition:** unique identifier of the group of bathing waters. The identifier must follow the syntax rules set for the WISE identifiers.

**Type:** string, 3-43 characters



# Dataset : Characterisation – qualityClass (national bathing water quality classification)

	A	B	C	D	E	F	G
1	season	bathingWaterIdentifier	groupIdentifier	qualityClass	geographicalConstraint	link	Remarks
2	2019	MS1010		1		0 <a href="http://www.bathingwater.ms/profiles/ms1010.pdf">http://www.bathingwater.ms/profiles/ms1010.pdf</a>	
3	2019	MS1011		1		0 <a href="http://www.bathingwater.ms/profiles/ms1011.pdf">http://www.bathingwater.ms/profiles/ms1011.pdf</a>	
4	2019	MS1012		2		0 <a href="http://www.bathingwater.ms/profiles/ms1012.pdf">http://www.bathingwater.ms/profiles/ms1012.pdf</a>	
5	2019	MS1013		1		1 <a href="http://www.bathingwater.ms/profiles/ms1013.pdf">http://www.bathingwater.ms/profiles/ms1013.pdf</a>	High-altitude BW
6	2019	MS1014		4		0 <a href="http://www.bathingwater.ms/profiles/ms1014.pdf">http://www.bathingwater.ms/profiles/ms1014.pdf</a>	
7	2019	MS1015	MSG4	1		0 <a href="http://www.bathingwater.ms/profiles/ms1015.pdf">http://www.bathingwater.ms/profiles/ms1015.pdf</a>	
8	2019	MS1016	MSG4	1		0 <a href="http://www.bathingwater.ms/profiles/ms1016.pdf">http://www.bathingwater.ms/profiles/ms1016.pdf</a>	
9	2019	MS1017		1		0 <a href="http://www.bathingwater.ms/profiles/ms1017.pdf">http://www.bathingwater.ms/profiles/ms1017.pdf</a>	
10	2019	MS1018		3		0 <a href="http://www.bathingwater.ms/profiles/ms1018.pdf">http://www.bathingwater.ms/profiles/ms1018.pdf</a>	
11	2019	MS1019		0		0 <a href="http://www.bathingwater.ms/profiles/ms1019.pdf">http://www.bathingwater.ms/profiles/ms1019.pdf</a>	
12							
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**Definition:** national bathing water quality classification.

**Type:** integer

- Codes:**
- 0 – not classified
  - 1 – excellent
  - 2 – good
  - 3 – sufficient
  - 4 – poor



# Dataset : Characterisation – Geographical constraints

	A	B	C	D	E	F	G
1	season	bathingWaterIdentifier	groupIdentifier	qualityClass	geographicalConstraint	link	Remarks
2	2019	MS1010		1	0	<a href="http://www.bathingwater.ms/profiles/ms1010.pdf">http://www.bathingwater.ms/profiles/ms1010.pdf</a>	
3	2019	MS1011		1	0	<a href="http://www.bathingwater.ms/profiles/ms1011.pdf">http://www.bathingwater.ms/profiles/ms1011.pdf</a>	
4	2019	MS1012		2	0	<a href="http://www.bathingwater.ms/profiles/ms1012.pdf">http://www.bathingwater.ms/profiles/ms1012.pdf</a>	
5	2019	MS1013		1	1	<a href="http://www.bathingwater.ms/profiles/ms1013.pdf">http://www.bathingwater.ms/profiles/ms1013.pdf</a>	High-altitude BW
6	2019	MS1014		4	0	<a href="http://www.bathingwater.ms/profiles/ms1014.pdf">http://www.bathingwater.ms/profiles/ms1014.pdf</a>	
7	2019	MS1015	MSG4	1	0	<a href="http://www.bathingwater.ms/profiles/ms1015.pdf">http://www.bathingwater.ms/profiles/ms1015.pdf</a>	
8	2019	MS1016	MSG4	1	0	<a href="http://www.bathingwater.ms/profiles/ms1016.pdf">http://www.bathingwater.ms/profiles/ms1016.pdf</a>	
9	2019	MS1017		1	0	<a href="http://www.bathingwater.ms/profiles/ms1017.pdf">http://www.bathingwater.ms/profiles/ms1017.pdf</a>	
10	2019	MS1018		3	0	<a href="http://www.bathingwater.ms/profiles/ms1018.pdf">http://www.bathingwater.ms/profiles/ms1018.pdf</a>	
11	2019	MS1019		0	0	<a href="http://www.bathingwater.ms/profiles/ms1019.pdf">http://www.bathingwater.ms/profiles/ms1019.pdf</a>	
12							
13							
14							
15							
16							
17							
18							

**Definition:** whether the bathing water is situated in a region subject to special geographical constraints in accordance with Annex IV of BWD.

**Type:** boolean (yes/no)

**Codes:**

- 0 – false
- 1 – true

# Dataset : Characterisation – Link (URL to bathing water profile)

	A	B	C	D	E	F	G
1	season	bathingWaterIdentifier	groupIdentifier	qualityClass	geographicalConstraint	link	Remarks
2	2019	MS1010		1		0 <a href="http://www.bathingwater.ms/profiles/ms1010.pdf">http://www.bathingwater.ms/profiles/ms1010.pdf</a>	
3	2019	MS1011		1		0 <a href="http://www.bathingwater.ms/profiles/ms1011.pdf">http://www.bathingwater.ms/profiles/ms1011.pdf</a>	
4	2019	MS1012		2		0 <a href="http://www.bathingwater.ms/profiles/ms1012.pdf">http://www.bathingwater.ms/profiles/ms1012.pdf</a>	
5	2019	MS1013		1		1 <a href="http://www.bathingwater.ms/profiles/ms1013.pdf">http://www.bathingwater.ms/profiles/ms1013.pdf</a>	High-altitude BW
6	2019	MS1014		4		0 <a href="http://www.bathingwater.ms/profiles/ms1014.pdf">http://www.bathingwater.ms/profiles/ms1014.pdf</a>	
7	2019	MS1015	MSG4	1		0 <a href="http://www.bathingwater.ms/profiles/ms1015.pdf">http://www.bathingwater.ms/profiles/ms1015.pdf</a>	
8	2019	MS1016	MSG4	1		0 <a href="http://www.bathingwater.ms/profiles/ms1016.pdf">http://www.bathingwater.ms/profiles/ms1016.pdf</a>	
9	2019	MS1017		1		0 <a href="http://www.bathingwater.ms/profiles/ms1017.pdf">http://www.bathingwater.ms/profiles/ms1017.pdf</a>	
10	2019	MS1018		3		0 <a href="http://www.bathingwater.ms/profiles/ms1018.pdf">http://www.bathingwater.ms/profiles/ms1018.pdf</a>	
11	2019	MS1019		0		0 <a href="http://www.bathingwater.ms/profiles/ms1019.pdf">http://www.bathingwater.ms/profiles/ms1019.pdf</a>	
12							
13							
14							
15							
16							
17							
18							

**Definition:** hyperlink to document or web pages with the bathing water profile established in accordance with Article 6 and Annex III of BWD.

**Type:** string, 0-2083 characters

# Dataset : Characterisation – Remarks

	A	B	C	D	E	F	G
1	season	bathingWaterIdentifier	groupIdentifier	qualityClass	geographicalConstraint	link	Remarks
2	2019	MS1010		1	0	<a href="http://www.bathingwater.ms/profiles/ms1010.pdf">http://www.bathingwater.ms/profiles/ms1010.pdf</a>	
3	2019	MS1011		1	0	<a href="http://www.bathingwater.ms/profiles/ms1011.pdf">http://www.bathingwater.ms/profiles/ms1011.pdf</a>	
4	2019	MS1012		2	0	<a href="http://www.bathingwater.ms/profiles/ms1012.pdf">http://www.bathingwater.ms/profiles/ms1012.pdf</a>	
5	2019	MS1013		1	1	<a href="http://www.bathingwater.ms/profiles/ms1013.pdf">http://www.bathingwater.ms/profiles/ms1013.pdf</a>	High-altitude BW
6	2019	MS1014		4	0	<a href="http://www.bathingwater.ms/profiles/ms1014.pdf">http://www.bathingwater.ms/profiles/ms1014.pdf</a>	
7	2019	MS1015	MSG4	1	0	<a href="http://www.bathingwater.ms/profiles/ms1015.pdf">http://www.bathingwater.ms/profiles/ms1015.pdf</a>	
8	2019	MS1016	MSG4	1	0	<a href="http://www.bathingwater.ms/profiles/ms1016.pdf">http://www.bathingwater.ms/profiles/ms1016.pdf</a>	
9	2019	MS1017		1	0	<a href="http://www.bathingwater.ms/profiles/ms1017.pdf">http://www.bathingwater.ms/profiles/ms1017.pdf</a>	
10	2019	MS1018		3	0	<a href="http://www.bathingwater.ms/profiles/ms1018.pdf">http://www.bathingwater.ms/profiles/ms1018.pdf</a>	
11	2019	MS1019		0	0	<a href="http://www.bathingwater.ms/profiles/ms1019.pdf">http://www.bathingwater.ms/profiles/ms1019.pdf</a>	
12							
13							
14							
15							
16							
17							
18							

**Definition:** Remarks, comments or explanatory notes.  
**Type:** string, 0-1000 characters



# Dataset: seasonalPeriod

	A	B	C	D	E	F	G
1	season	bathingWaterIdentifier	periodType	startDate	endDate	managementMeasures	Remarks
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							

# Dataset: seasonalPeriod - PeriodType

	A	B	C	D	E	F	G
1	season	bathingWaterIdentifier	periodType	startDate	endDate	managementMeasures	Remarks
2	2019	MS1010	bathingSeason	2019-06-15	2019-08-31		
3	2019	MS1011	bathingSeason	2019-06-15	2019-08-31		
4	2019	MS1012	bathingSeason	2019-06-15	2019-08-31		
5	2019	MS1013	bathingSeason	2019-06-15	2019-08-31		
6	2019	MS1014	bathingSeason	2019-06-15	2019-08-31		
7	2019	MS1015	bathingSeason	2019-06-15	2019-08-31		
8	2019	MS1016	bathingSeason	2019-06-15	2019-08-31		
9	2019	MS1016	shortTermPollution	2019-07-18	2019-07-20	Malfunctioning sewage system resulted in water pollution.	
10	2019	MS1016	qualityChanges	2019-03-11	2019-05-13	Implementing UWWTD with construction of new UWWT plants	
11	2019	MS1019	delisted	2019-06-15	2019-08-31		
12							
13							
14							
15							
16							
17							
18							

**Definition:** specifies the type of seasonal period.

**Type:** string

**Codes:**

- bathingSeason
- bathingProhibition
- shortTermPollution
- abnormalSituation
- inaccessible
- qualityChanges
- cyanobacteriaBloom
- delisted
- other



# Dataset: seasonalPeriod

	A	B	C	D	E	F	G
1	season	bathingWaterIdentifier	periodType	startDate	endDate	managementMeasures	Remarks
2	2019	MS1010	bathingSeason	2019-06-15	2019-08-31		
3	2019	MS1011	bathingSeason	2019-06-15	2019-08-31		
4	2019	MS1012	bathingSeason	2019-06-15	2019-08-31		
5	2019	MS1013	bathingSeason	2019-06-15	2019-08-31		
6	2019	MS1014	bathingSeason	2019-06-15	2019-08-31		
7	2019	MS1015	bathingSeason	2019-06-15	2019-08-31		
8	2019	MS1016	bathingSeason	2019-06-15	2019-08-31		
9	2019	MS1016	shortTermPollution	2019-07-18	2019-07-20	Malfunctioning sewage system resulted in water pollution.	
10	2019	MS1016	qualityChanges	2019-03-11	2019-05-13	Implementing UWWTD with construction of new UWWT plants	
11	2019	MS1019	delisted	2019-06-15	2019-08-31		
12							
13							
14							
15							
16							
17							
18							

**Definition:** start date (YYYY-MM-DD) of the seasonal period. For some period types if the startDate is unknown or is yet undetermined, the conventional value '9999-12-31' should be reported.

**Type:** date

\* The actual national data (including quality class) were changed manually for presentation purposes.

# Dataset: seasonalPeriod - managementMeasures

	A	B	C	D	E	F	G
1	season	bathingWaterIdentifier	periodType	startDate	endDate	managementMeasures	Remarks
2	2019	MS1010	bathingSeason	2019-06-15	2019-08-31		
3	2019	MS1011	bathingSeason	2019-06-15	2019-08-31		
4	2019	MS1012	bathingSeason	2019-06-15	2019-08-31		
5	2019	MS1013	bathingSeason	2019-06-15	2019-08-31		
6	2019	MS1014	bathingSeason	2019-06-15	2019-08-31		
7	2019	MS1015	bathingSeason	2019-06-15	2019-08-31		
8	2019	MS1016	bathingSeason	2019-06-15	2019-08-31		
9	2019	MS1016	shortTermPollution	2019-07-18	2019-07-20	Malfunctioning sewage system resulted in water pollution.	
10	2019	MS1016	qualityChanges	2019-03-11	2019-05-13	Implementing UWWTD with construction of new UWWT plants	
11	2019	MS1019	delisted	2019-06-15	2019-08-31		
12							
13							
14							
15							
16							
17							
18							

**Definition:** Description of significant management measures taken in the scope of reported seasonal period. Additional information must be reported in the managementMeasures element for all period types except 'bathingPeriod'.

**Type:** string, 0-5000 characters

\* The actual national data (including quality class) were changed manually for presentation purposes.

# Dataset: monitoringResult

	A	B	C	D	E	F	G	H	I
1	season	bathingWaterIdentifier	sampleDate	intestinalEnterococciValue	escherichiaColiValue	sampleStatus	intestinalEnterococciStatus	escherichiaColiStatus	Remarks
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									

Characterisation SeasonalPeriod MonitoringResult DO\_NOT\_DELETE\_THIS\_SHEET

# Dataset: monitoringResult -sampleDate

	A	B	C	D	E	F	G	H	I
1	season	bathingWaterIdentifier	sampleDate	intestinalEnterococciValue	escherichiaColiValue	sampleStatus	intestinalEnterococciStatus	escherichiaColiStatus	Remarks
2	2019	MS1015	2019-06-04	675	15	preSeasonSample	confirmedValue		
3	2019	MS1015	2019-06-18	15	0			missingValue	
4	2019	MS1015	2019-07-09	15	15				
5	2019	MS1015	2019-07-30	15	15				
6	2019	MS1015	2019-08-20	15	15				
7	2019	MS1016	2019-06-04	30	30	preSeasonSample			
8	2019	MS1016	2019-06-18	346	197		confirmedValue		
9	2019	MS1016	2019-07-02	618	988	shortTermPollutionSample			
10	2019	MS1016	2019-07-04	15	15	confirmationSample			
11	2019	MS1016	2019-07-09	15	15	replacementSample			
12	2019	MS1016	2019-07-23	109	46				
13									
14									
15									
16									
17									
18									

**Definition:** sampling date (YYYY-MM-DD).  
**Type:** date

# Dataset: monitoringResult – Measured concentrations

	A	B	C	D	E	F	G	H	I
1	season	bathingWaterIdentifier	sampleDate	intestinalEnterococciValue	escherichiaColiValue	sampleStatus	intestinalEnterococciStatus	escherichiaColiStatus	Remarks
2	2019	MS1015	2019-06-04	675	15	preSeasonSample	confirmedValue		
3	2019	MS1015	2019-06-18	15	0			missingValue	
4	2019	MS1015	2019-07-09	15	15				
5	2019	MS1015	2019-07-30	15	15				
6	2019	MS1015	2019-08-20	15	15				
7	2019	MS1016	2019-06-04	30	30	preSeasonSample			
8	2019	MS1016	2019-06-18	346	197		confirmedValue		
9	2019	MS1016	2019-07-02	618	988	shortTermPollutionSample			
10	2019	MS1016	2019-07-04	15	15	confirmationSample			
11	2019	MS1016	2019-07-09	15	15	replacementSample			
12	2019	MS1016	2019-07-23	109	46				
13									
14									
15									
16									
17									
18									

**Definition:** Measured concentration of bacteria per sample in "colony forming unit" per 100 ml (cfu/100ml).

**Type:** integer



# Dataset: monitoringResult - sampleStatus

	A	B	C	D	E	F	G	H	I
1	season	bathingWaterIdentifier	sampleDate	intestinalEnterococciValue	escherichiaColiValue	sampleStatus	intestinalEnterococciStatus	escherichiaColiStatus	Remarks
2	2019	MS1015	2019-06-04	675	15	preSeasonSample	confirmedValue		
3	2019	MS1015	2019-06-18	15	0			missingValue	
4	2019	MS1015	2019-07-09	15	15				
5	2019	MS1015	2019-07-30	15	15				
6	2019	MS1015	2019-08-20	15	15				
7	2019	MS1016	2019-06-04	30	30	preSeasonSample			
8	2019	MS1016	2019-06-18	346	197		confirmedValue		
9	2019	MS1016	2019-07-02	618	988	shortTermPollutionSample			
10	2019	MS1016	2019-07-04	15	15	confirmationSample			
11	2019	MS1016	2019-07-09	15	15	replacementSample			
12	2019	MS1016	2019-07-23	109	46				
13									
14									
15									
16									
17									
18									

**Definition:** information regarding missing samples, STP, specific circumstances of samples etc.

**Type:** string

- Codes:**
- missingSample
  - shortTermPollutionSample
  - confirmationSample
  - replacementSample
  - preSeasonSample





# Dataset: monitoringResult – information related to bacteria values

	A	B	C	D	E	F	G	H	I
1	season	bathingWaterIdentifier	sampleDate	intestinalEnterococciValue	escherichiaColiValue	sampleStatus	intestinalEnterococciStatus	escherichiaColiStatus	Remarks
2	2019	MS1015	2019-06-04	675	15	preSeasonSample	confirmedValue		
3	2019	MS1015	2019-06-18	15	0			missingValue	
4	2019	MS1015	2019-07-09	15	15				
5	2019	MS1015	2019-07-30	15	15				
6	2019	MS1015	2019-08-20	15	15				
7	2019	MS1016	2019-06-04	30	30	preSeasonSample			
8	2019	MS1016	2019-06-18	346	197		confirmedValue		
9	2019	MS1016	2019-07-02	618	988	shortTermPollutionSample			
10	2019	MS1016	2019-07-04	15	15	confirmationSample			
11	2019	MS1016	2019-07-09	15	15	replacementSample			
12	2019	MS1016	2019-07-23	109	46				
13									
14									
15									
16									
17									
18									

**Definition:** information regarding specific bacteria value.

**Type:** string

- Codes:**
- confirmedValue
  - limitOfDetectionValue
  - missingValue



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## Account Services

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## Bathing Water Directive



### Helpdesk

All enquiries can be directed to [bwd.helpdesk@eionet.europa.eu](mailto:bwd.helpdesk@eionet.europa.eu)

The following material is intended for national reporters of Bathing Water Directive data. It shows how to use Reportnet tools during the reporting process and how to improve the quality of deliveries. Reporting under the old data flow (ROD 531) and the new data flow (ROD 787 and 788) are described under respective subsections.

### BWD dataflow 787 and 788 (new reporting template)

This section covers composition and delivery of the dataset under the new BWD dataflow. Reporting of the *monitoring data* in this dataflow is registered under [reporting obligation 787](#) and based on respective [Data Dictionary](#). Reporting of the *spatial identification data* in this dataflow is registered under [reporting obligation 788](#) and will be available in 2020.

- [BWD Reporting Guidance - ROD 787](#) - composition of the dataset, description of tables and fields
- [How to use Reportnet for BWD reporting - ROD 787](#) - tutorial for delivery of the dataset to the CDR
- [Pre-filled reporting templates with transformed BWD 2018 data by country](#) - enter the national folder and download the file

*BW\_{countryCode}\_2018.zip*. The EEA uses a revised data model of the BWD database, to which all the legacy data were transformed. For reference and learning purposes, the dataset of the season 2018 by country was pre-filled to the new reporting template and is available at the linked "WISE restricted access area". The access to each national folder is limited to respective nominated [national reporters for BWD](#).



# Reportnet 3.0 – further information

## Reportnet 3.0

Our approach to develop the modernised e-Reporting system for streamlining environmental reporting

In 2018, the EEA has initiated Reportnet 3.0 project to promote and modernise eReporting with the latest IT solutions. This modern reporting infrastructure will stepwise integrate data flows under the EU environmental legislation, take into account national capabilities and provide a platform that supports new types of data (e.g. Copernicus, citizen science) and data from an extended group of stakeholders. To achieve this initiative, the EEA is working closely with the nominated experts from the EEA Member Countries and the Commission Services (DG ENV, DG CLIMA, DG ENER and JRC).

Reportnet 3.0 will act as a central hub through which all e-Reporting activities handled by the EEA with Eionet and other partners will be performed.

The system stepwise replaces the current Reportnet system and is foreseen as a one-stop-shop for all involved stakeholders. It will effectively address the issues faced by the reporters so far and employ modern approaches in software development (i.e. with regards to security, scalability, architecture, interoperability, etc.). Reportnet 3.0 will be designed to work seamlessly across organisations and supports existing legal obligations (e.g. INSPIRE) and standards to assure the reuse and interoperability of data.

Reportnet 3.0 project is initiated in 2018 to be finalised at the end of 2020. The migration of the reported data will start during this time and continue together with further system development beyond the duration of this project.

## Reportnet 3.0 documents

### Business Vision

For the other public documents, please visit our [project page](#).

### Newsletters

Issue 1 (January 2019)

Issue 2 (April 2019)

Issue 3 (July 2019)

Issue 4 (October 2019)

### Leaflet

Reportnet 3.0 Leaflet



**EEA will in the coming months arrange a Webinar to demonstrate the Reportnet 3.0 functionality.**

**2020 Bathing Water can either be reported via Reportnet 2.0 (upload of files to CDR) or as a pilot test to Reportnet 3.0. Both reporting processes will use the BWD 2019 datamodel**

<https://www.eionet.europa.eu/reportnet/reportnet-3.0>

## **2. Specific issues related to bathing water data reporting**

**Prohibited, inaccessible, and delisted bathing waters**

**Short Term Pollution events**

**Bathing waters in groups**



# Issue: prohibited, inaccessible, and delisted bathing waters

- Bathing waters with disturbances in operation and management should be reported through different periods, namely: **bathingProhibition, inaccessible, delisted**.
- The term "**closed**" is not used any more!
- More than one period can be reported for describing the same situation/event.

periodType	Possible reasons	Connected to water quality	Still officially identified	Duration of the period
<b>bathingProhibition</b>	Short-term pollution, poor quality annual status, or expected pollution due to foreseen reasons	Yes	Yes	Temporary or permanent
<b>inaccessible</b>	Physical inaccessibility due to earthquake, eroded path, construction on the site; or legal reasons that impede bathing and monitoring	No	Yes	Temporary or permanent
<b>delisted</b>	Decreased number of bathers, implementation of protected area that does not allow bathing, long-term poor quality (more than four years)	Yes or no	No	Permanent - no identification planned for the future

# Issue: prohibited, inaccessible, and delisted bathing waters

- More than one period can be reported for describing the same situation/event.

Sheet „seasonalPeriod“:

	A	B	C	D	E	F	G
1	season	bathingWaterIdentifier	periodType	startDate	endDate	managementMeasures	Remarks
2	2019	MS1016	bathingSeason	2019-06-15	2019-08-31		
3	2019	MS1016	bathingProhibition	2019-07-18	2019-07-20	Malfunctioning sewage system resulted in water pollution. System repaired in 36 hours.	
4	2019	MS1016	shortTermPollution	2019-07-18	2019-07-20	Malfunctioning sewage system resulted in water pollution. System repaired in 36 hours.	
5	2019	MS1017	bathingSeason	2019-06-15	2019-08-31		
6	2019	MS1017	bathingProhibition	2019-06-15	2019-08-31	Bathing prohibited for the whole season due to poor water quality.	
7	2019	MS1023	bathingSeason	2019-06-15	2019-08-31		
8	2019	MS1023	inaccessible	2019-08-11	2019-09-13	The site was fenced-off due to road reconstruction.	
9	2019	MS1055	delisted	2019-08-31	9999-12-31	Bathers not using the site any more due to popularity of another location.	
10							

# Short-term pollution

## Short-term pollution:

- **SeasonalPeriod: One period reported**
- **monitoringResults: Three samples (Short Term Pollution sample, confirmation sample, replacement sample) to be reported**

Sheet „seasonalPeriod“:

	A	B	C	D	E	F	G
1	season	bathingWaterIdentifier	periodType	startDate	endDate	managementMeasures	Remarks
2	2019	MS1016	shortTermPollution	2019-07-02	2019-07-04	Malfunctioning sewage system resulted in water pollution.	

Sheet „monitoringResult“:

	A	B	C	D	E	F	G	H	I
1	season	bathingWaterIdentifier	sampleDate	intestinalEnterococciValue	escherichiaColiValue	sampleStatus	intestinalEnterococciStatus	escherichiaColiStatus	Remarks
2	2019	MS1016	2019-07-02	618	988	shortTermPollutionSample			
3	2019	MS1016	2019-07-04	15	15	confirmationSample			
4	2019	MS1016	2019-07-09	15	15	replacementSample			



# Issue: bathing waters in groups

**Do not replicate samples before reporting. Report only samples for the actual site of monitoring.**

Sheet „Characterisation“:

	A	B	C	D	E	F	G
1	season	bathingWaterIdentifier	groupIdentifier	qualityClass	geographicalConstraint	link	Remarks
2	2019	MS1018	MSG4	1		0 <a href="http://www.bathingwater.ms/profiles/ms1018.pdf">http://www.bathingwater.ms/profiles/ms1018.pdf</a>	
3	2019	MS1019	MSG4	1		0 <a href="http://www.bathingwater.ms/profiles/ms1019.pdf">http://www.bathingwater.ms/profiles/ms1019.pdf</a>	

Sheet „SeasonalPeriod“:

	A	B	C	D	E	F	G
1	season	bathingWaterIdentifier	periodType	startDate	endDate	managementMeasures	Remarks
2	2019	MS1018	bathingSeason	2019-06-15	2019-08-31		
3	2019	MS1019	bathingSeason	2019-06-15	2019-08-31		

Sheet „MonitoringResult“:

	A	B	C	D	E	F	G	H	I
1	season	bathingWaterIdentifier	sampleDate	intestinalEnterococciValue	escherichiaColiValue	sampleStatus	intestinalEnterococciStatus	escherichiaColiStatus	Remarks
2	2019	MS1018	2019-06-04	20	15				
3	2019	MS1018	2019-06-18	15	15				
4	2019	MS1018	2019-07-09	15	15				
5	2019	MS1018	2019-07-30	15	15				
6	2019	MS1018	2019-08-20	15	15				



## 3. Assessment principles



EEA/NSV/13/002 – ETC/ICM

European Environment Agency  
European Topic Centre on Inland,  
Coastal and Marine Waters



## Guidelines for assessment under the Bathing Water Directive

Prepared by:

ETC/ICM (Lidija Globevnik, Luka Snoj, Gašper Šubelj), October 2019

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Link:

<https://cdr.eionet.europa.eu/help/BWD/Guidelines%20for%20assessment%20under%20the%20BWD.pdf>

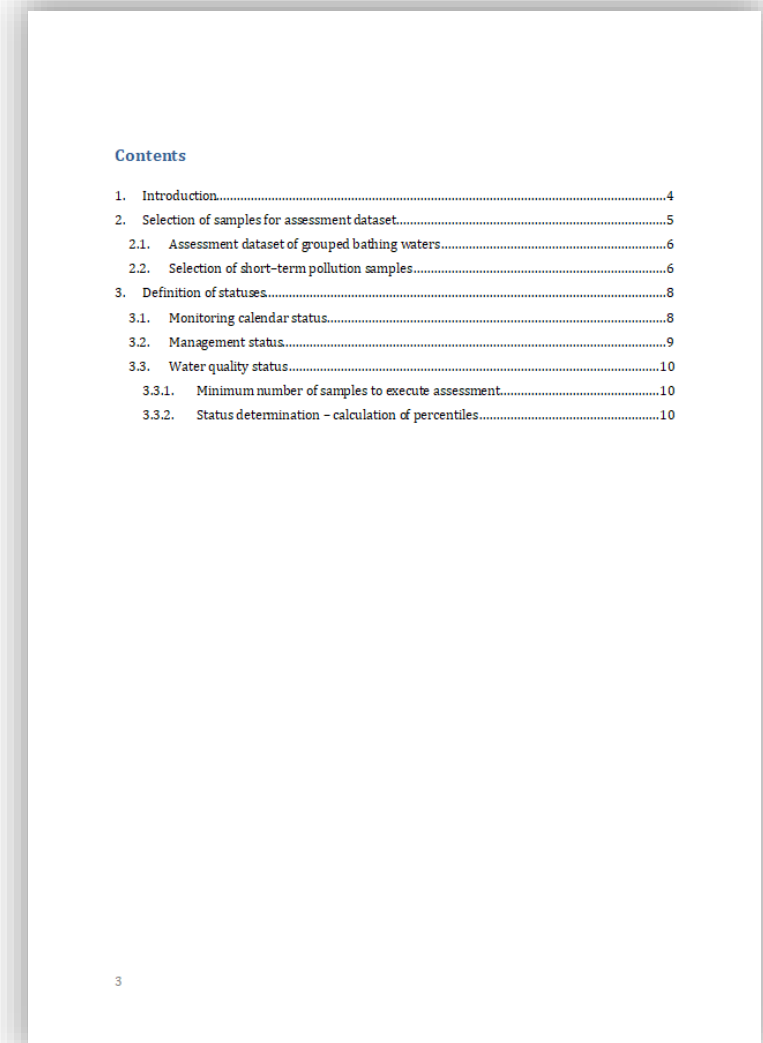
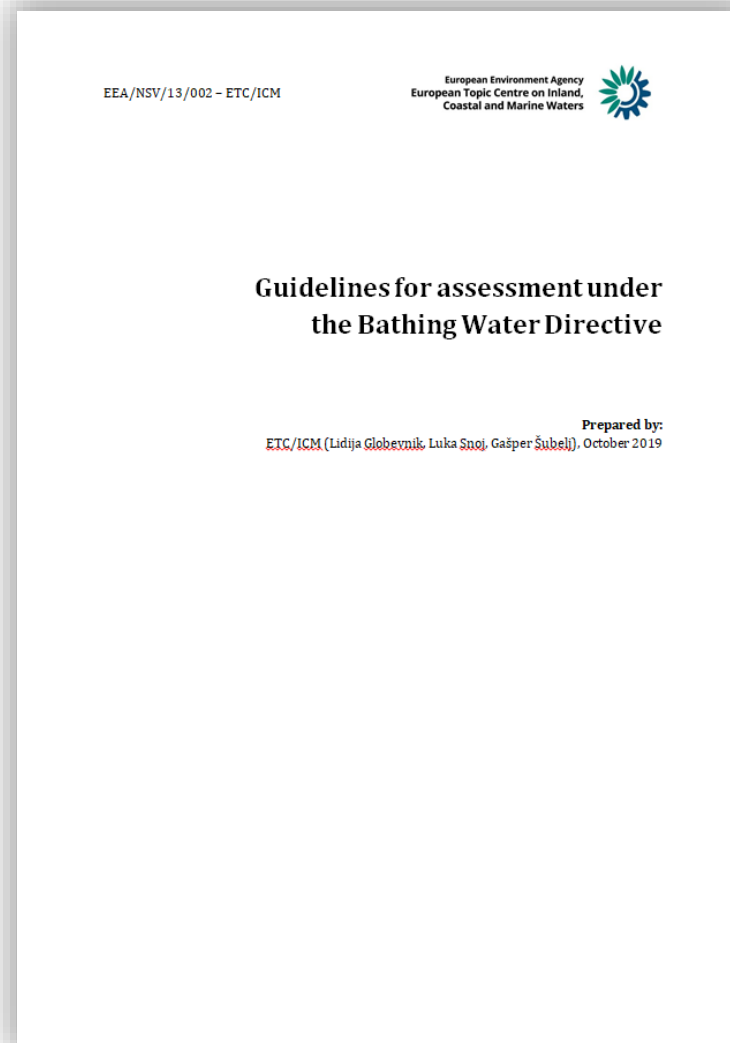
European Environment Agency



# Assessment procedures

Read [this document](https://cdr.eionet.europa.eu/help/BWD/), available at the CDR Help section:

<https://cdr.eionet.europa.eu/help/BWD/>



- **monitoring calendar status:**
  - 0 – Not implemented
  - 1 – Implemented
- **management status:**
  - 1 – Continuously monitored
  - 2 – Newly identified
  - 3 – Quality changes
  - 4 – Monitoring gap
- **bathing water quality status:**
  - 0 – Not classified
  - 1 – Excellent
  - 2 – Good
  - 3 – Sufficient
  - 4 – Poor

## Examples:

„At the bathing water site ‚Adriatic Sands East‘, the monitoring calendar was implemented in the season 2019. The bathing water has been ‚newly identified‘ and cannot be quality-classified yet.“

„At the bathing water site ‚Adriatic Sands West‘, the monitoring calendar was not implemented in the season 2019. The bathing water has been continuously monitored and is classified ‚excellent‘.“

## Sample selection

1. Select assessment period
2. Select all samples in the assessment period
3. Disregard short-term pollution (STP) samples (if conditions met)
4. Disregard multiple pre-season samples and post-season samples