Reference	Element	Specification	Description	Requirement	Cardinality	Comments for requirement	Art.	Existing reporting obligation	INSPIRE Element	new element
(A)Commondatatypes										
A.1	Datatype "Contact Detail"									
A.1.1	Name of the responsible authority, institution or body	Text	The official and complete name of the relevant body (institution, company ...) in charge for a specific reporting obligation	M	1			Dir. 2008/50/EC Art. 3 In Art.3 of DIR 2008/50/EC are called "competent authorities"		
A.1.2	Web address	URL		C	1	M when available				
A.1.3	Name of responsible person	Text		M	1			2004/461/EC Form 1		
A.1.4	Address	Text	Postal address: Unambiguous and complete address including ZIP code	M	1			2004/461/EC Form 1		
A.1.5	Telephone number	Text	Complete numbers including country and area codes.	M	1			2004/461/EC Form 1		
A.1.6	E-mail	Text		M	1			2004/461/EC Form 1		
A.2	Data type "Exceedance Situation"									
A.2.1	Exceedance Situation ID	Identifier	Unique identifier for this exceedance situation. Exceedance Situation could involve more then one Zone or be only part of one. The "Exceedance situation ID" shall comprise at least the following information: · MS (2-letter Member State code as defined by ISO-3166-1) · zone · pollutant	M	1			Indirectly Dir. 2008/50/EC Art. 23 Dec. 2004/224/EC Sheet 2		
A.8.1	localID	Text	A unique identifier for the element. A description of what is to go in the localID will be given where the identifier datatype is used.	M	1					
A.8.2	namespace	Text	Namespace of the reporting organisation. This will be provided by the Commission.	M	1					
A.8.3	versionID	Text		C	0..1	M if the dataset being referred to by localID has changed				
A.2.2	Exceeded environmental objective	Environmental Objective	Data type *Environmental Objective*	M	1..*			Dir. 2008/50/EC Art. 13 and Annex XI Dec. 2004/224/EC Sheet 10		
A.3.1	Environmental Objective type	Menu	See codelist *Environmental Objective Type*	M	1					
A.3.2	Reporting metric	Menu	See codelist *Reporting metric*	M	1					
A.3.3	Protection target	Menu	See codelist *Protection Target*	M	1					
A.2.3	Adjustments	Menu	See codelit *Exceedance Adjustment*	C	0..*	M if Art. 20 or 21 of Directive 2008/50/EC is applied		2004/461/EC Sheet 23 & 24		
A.2.4	Deduction Assessment Method		Source of the fraction to be deducted (for example, the NaCl measurements used to deduct WSS)	M	0..1			Not explicitly covered by 2004/461/EC, indirectly addressed by Forms 23 & 24		
A.2.4.1	Assessment Type	Menu	See codelist "*Assessment Type*" *The assessment methods is a multiple entries possible:* *1. Fixed Measurement* *2. Indicativemeasurement* *3. Modelling* *4. Objective Estimation*	M	1			Not explicitly covered by 2004/461/EC, indirectly addressed by Forms 24		
A.2.4.2	Assessment type: Description	Text	Short description of assessment	M	1			2004/461/EC Forms 20		
A.2.4.3	Individual assessment metadata sampling point	Link	Link to assessment metadata, depends on assessment type. Fixed Measurement: Link to D.5.1 Indicative Measurement: Link to D.6 Modelling: Link to D.7 Objective Estimation: Link to D.8	C	0..*	M if assessment type is fixed or indicative measurement				
A.2.4.4	Individual assessment metadata model	Link	Link to assessment metadata, depends on assessment type. Modelling: Link to D.7 Objective Estimation: Link to D.8	C	0..*	M if assessment type is modelling or objective estimation				
A.2.5	Area of the exceedance situation			M	1			Indirectly Dir. 2008/50/EC Art. 23 Dec. 2004/224/EC Sheet 2 Dec. 2004/461/EC Sheet 19		
A.2.5.1	Classification of the area	Menu	see codelist "area classification"	M	1..*					
A.2.5.2	Administrative units	Menu	List of LAU-codes of all administrative units which are at least partly covered by the exceedance area.	V	0..*					
A.2.5.3	Area Geographic delimitation of the exceedance situation	Spatial Extent	Data type *Spatial Extent* *Exceedance area delimitation. GIS description of the exceedance area.*	X	1					
A.2.5.4	Estimate of the surface area where the level was above the environmental objective	Area	area in km^2	C	0..1	M if the exceedance is not only linked to the road network				
A.9.1	Surface area numerical	Number		M	1					
A.9.2	Unit of surface area	Menu	see codelist "units of measurement"	M	1					
A.2.5.5	Estimate of the length of road where the level was above the environmental objective	Length	length of affected roads in km	C	0..1	M if exceedance area linked to the road network				
A.10.1	Length numerical	Number		M	1					
A.10.2	Unit of length	Menu	see codelist "units of measurement"	M	1					
A.2.5.6	Monitoring station in exceedance area	Link	List of the monitoring stations in the exceedance area Link to D.5.1	C	0..*	M if assessment type is "fixed measurement"				

Reference	Element	Specification	Description	Requirement	Cardinality	Comments for requirement	Art.	Existing reporting obligation	INSPIRE Element	new element
A.2.5.7	Modelled exceedance	Link	Reference to model meta-information Link to D.7	C	0..*	M if assessment type is "modelling"				
A.2.6	Information about the population and the exposed ecosystem and vegetation within the area of exceedance							Dir. 2008/50/EC Art. 23		
A.2.6.1	Estimate of the total resident population in the exceedance area	Number	Number of resident population within the area of exceedance. This information is required if the Environmental Objective refers to human health protection.	C	0..1	X if Protection Target is "Health" or "Health and vegetation/ecosystem"				
A.2.6.2	Estimate of the ecosystem/vegetation area exposed above the environmental objective	Area	Area in km² of ecosystems or vegetation within the area of exceedance, e.g. retrieved from Corine Landcover data. This information is required if the Environmental Objective refers to ecosystem/vegetation protection.	C	0..1	M if Protection Target is "Vegetation/ecosystem" or "Health and vegetation/ecosystem"				
A.9.1	Surface area numerical	Number		M	1					
A.9.2	Unit of surface area	Menu	see codelist "*units of measurement*"	M	1					
A.2.6.3	Sensitive resident population	Number	Percentage of sensitive population in the exceedance area, defined as sum of percentage under 18 and over 60 years of age	X	1					
A.2.6.4	Infrastructure relevant for sensitive population	Number	Total number of infrastructure services for sensitive population groups in the exceedance area (hospitals, kindergardens, schools etc.)	X	1					
A.2.6.5	Reference year	year	Reference year for the population/exposure data if different from reporting year	C	0..1	M if different from AQ reporting year				
A.2.7	Exceedance duration			V	0..1			Dir. 2008/50/EC Art. 23		
A.2.7.1	Start date	date	Start date of the period the exceedance situation applies. This is usually the 1. Jan. of the first year the exceedance was observed (or the measurement or modelling started).	M	1					
A.2.7.2	End date	date	End date of the period the exceedance situation applies. This is usually the end of the last year in with the exceedance was observed .	C	0..1	M if finished				
A.2.8	Exceedance reason		*Provide information of the reason for the exceedance*	C	0..1	M if exceedance is being reported				
A.2.8.1	Natural Source Contribution	Menu	See codelist NaturalSourceType This code list reference allows for the declaration of reason(s) for the observed exceedance using codes prescribed by the AQD.	C	0..*	M if natural sources are being claimed		Dir. 2008/50/EC Art. 20		
A.2.8.2	Reason	Menu	See codelist Reason This code list reference allows for the declaration of reason(s) for the observed exceedance using codes prescribed by the AQD.	C	0..*	M if exceedance is being reported				
A.2.8.3	Other Reason	Text	Textual description of reasons not available from codelist	V	0..1					
A.2.9	Comment for clarification	Text	Provides further information of relevance on the exceedance	V	0..1					
A.3	Data type "Environmental Objective"									
A.3.1	Environmental Objective type	Menu	See codelist *Environmental Objective Type*	M	1					
A.3.2	Reporting metric	Menu	See codelist *Reporting metric*	M	1					
A.3.3	Protection target	Menu	See codelist *Protection Target*	M	1					
A.4	Data type "Spatial Extent"	GM_Object	*Spatial information related to a spatial object, which is an abstract representation of a real world phenomenon related to a specific location or geographical area. The object has a spatial extent encoded in GML (GM_Object). GM_Object is the basic class for encoding INSPIRE spatial objects in GML. The spatial object can be represented as point, line and single polygon or aggregated polygons. Each feature is defined as a set of coordinates in a specified Coordinate Reference System (CRS).*							
A.5	Data type "Spatial Observation"	Model results	*Spatial assessment data based on modelling. This type of result is based on various types of grids e.g. regular grids, irregular grids or linear features. The results are provided as values on the spatial features used for modelling.*							
A.6	Data type "Publication"									
A.6.1	Publication	Text	Short description of the publication. ISBN number should be provided if available.	M	1					
A.6.2	Title	Text	Title as written in the publication.	M	1					
A.6.3	Author(s)	Text	If there are multiple authors, please provide in one field separated by commas	V	0..1					
A.6.4	Publication date	year	year of publication YYYY ISO Format, described under "1. STRUCTURE OF THE TABLES "DATATYPES" AND "DATASETS""	M	1	only whren pubblication is to be reported				
A.6.5	Publisher	Text	Publishing institution, academic journal, etc.	M	1	only when pubblication is to be reported				
A.6.6	Web link	URL	If not publicly available in Internet, publication should be uploaded to the appropriate location on the Air Qualuty portal.	V	0..1					
A.7	Data type "Documentation of change"									
A.7.1	Change	Boolean	"true" if changes to previous submission, otherwise "false"	M	1					
A.7.2	Description of change	Text	Description of changes [in the context of the Dataset]	C	0..1	M if change = "true"				
A.8	Data type "Identifier"									
A.8.1	localID	Text	A unique identifier for the element. A description of what is to go in the localID will be given where the identifier datatype is used.	M	1				x	
A.8.2	namespace	Text	Namespace of the reporting organisation. This will be provided by the Commission.	M	1				x	

Reference	Element	Specification	Description	Requirement	Cardinality	Comments for requirement	Art.	Existing reporting obligation	INSPIRE Element	new element
A.8.3	versionID	Text		C	0..1	M if the dataset being referred to by localID has changed			x	
A.9	Data type "Area"									
A.9.1	Surface area numerical	Number		M	1					
A.9.2	Unit of surface area	Menu	see codelist "units of measurement"	M	1					
A.10	Data type "Length"									
A.10.1	Length numerical	Number		M	1					
A.10.2	Unit of length	Menu	see codelist "units of measurement"	M	1					
A.11	Data type "Distance"									
A.11.1	Distance numerical	Number		M	1					
A.11.2	Unit of distance	Menu	see codelist "units of measurement"	M	1					
A.12	Data type "Quantification"									
A.12.1	Quantification numerical	Number		M	1					
A.12.2	Unit of quantification	Menu	see codelist "units of measurement"	M	1					
(B)Dataset"Zonesandagglomerations"										
B.1	Zones report identifier	Identifier	Unique identifier for the zones report	M	1			2004/461/EC Form 2		x
A.8.1	localID	Text	A unique identifier for the element. A description of what is to go in the localID will be given where the identifier datatype is used.	M	1				x	x
A.8.2	namespace	Text	Namespace of the reporting organisation. This will be provided by the Commission.	M	1				x	x
A.8.3	versionID	Text		C	0..1	M if the dataset being referred to by localID has changed			x	x
B.2	Provider	Contact Details	Specifies the authority which supplies the information Data type Contact Details	M	1		6	2004/461/EC Form 1	x	
A.1.1	Name of the responsible authority, institution or body	Text	The official and complete name of the body (institution, company ...) in charge for a specific reporting obligation	M	1			2004/461/EC Form 1	x	
A.1.2	Web address	URL		C	1	M when available			x	
A.1.3	Name of responsible person	Text		M	1			2004/461/EC Form 1	x	
A.1.4	Address	Text	Postal address: Unambiguous and complete address including ZIP code	M	1			2004/461/EC Form 1	x	
A.1.5	Telephone number	Text	Complete numbers including country and area codes.	M	1			2004/461/EC Form 1	x	
A.1.6	E-mail	Text		M	1			2004/461/EC Form 1	x	
B.3	Change documentation	Documentation of change	States if information has changed related to the previous year; required for resubmissions. If change="false", the information below can be skipped. Data type Documentation of change	M	1		6	2004/461/EC Sheet 0		
A.7.1	Change	Boolean	"true" if changes to previous submission, otherwise "false"	M	1					x
A.7.2	Description of change	Text	Description of changes [in the context of the Dataset]	C	0..1	M if change = "true"				x
B.4	Information on zone			C	0..*	M if change = "true"	6			
B.4.1	Zone Identifier	Identifier	Unique identifier for the Zone Could actually be the ZoneCode in the localID. Namespace will always be reporting organisation	M	1		6			x
A.8.1	localID	Text	A unique identifier for the element. A description of what is to go in the localID will be given where the identifier datatype is used.	M	1				x	x
A.8.2	namespace	Text	Namespace of the reporting organisation. This will be provided by the Commission.	M	1				x	x
A.8.3	versionID	Text		C	0..1	M if the dataset being referred to by localID has changed			x	x
B.4.2	Zone code	Text	Unique Text code following specification CCXXXX, where CC represents 2-letter Member State code as defined by ISO-3166-1 and XXXX represents a unique code for the zone In case of zone modification new codes shall be issued; old codes must not be re-used	M	1		6	2004/461/EC Form 2		x
B.4.3	Zone name	Text		M	1		6	2004/461/EC Form 2	x	
B.4.4	Zone type	Menu	see codelist Zone type.	M	1		6	2004/461/EC Form 2		x

Reference	Element	Specification	Description	Requirement	Cardinality	Comments for requirement	Art.	Existing reporting obligation	INSPIRE Element	new element
B.4.5	Zone delimitation	Spatial Extent	Data type *Spatial Extent* Single or aggregated Polygons. The latter should be used only in case of disjoint air quality zones.	M	1		6	2004/461/EC Form 2	x	
B.4.6	Administrative units covered	Link	Provides all relevant LAU-codes parts of which are covered by the zone. Please note that always the lowest level must be used for the delimitation of a zone.	X	0..*		6			x
B.4.7	INSPIRE Zone Type	Menu	High level classification defining the type of management, restriction or regulation zone.	M	1					
B.5	Zone history			C	0..1	M if change = "true"	6		x	
B.5.1	Application start date	Timestamp	Start of application of zone delimitation	M	1		6		x	
B.5.2	Application end date	Timestamp	End of application of zone delimitation	C	0..1	M if zone no more applies	6		x	
B.5.3	Predecessors	Link	Link to zone codes for all zones this zone is replacing at least in part. If further territory is covered for which no zone has been attributed as yet, this has to be documented in B.5.4	M	1..*		6			x
B.5.4	Documentation of predecessors	Text	Description of predecessors, especially in case that further territory is covered for which no zone has been attributed as yet	V	0..1		6			x
B.6	Information on population and area			X	1		6			
B.6.1	Resident population	Number	The total number of residents in the zone.	X	1		6	2004/461/EC Form 2		x
B.6.2	Resident population reference year	Year	If reference year is different from reporting year	X	1		6			x
B.6.3	Area of zone	Area	Area of zone in km² (can be calculated from B.4.5).	G	1		6	2004/461/EC Form 2		x
B.7.	Pollutants:		Specification for which pollutant(s) the zone has been designated (see codelist pollutants). If the zone is defined for more than one pollutant, the respective pollutant must be provided for each pollutant.	C	1..*	M if change = "true"	6	2004/461/EC Form 2		
B.7.1	Designated Pollutant	Menu	See codelist *Pollutants*	M	1		6	2004/461/EC Form 2		x
B.7.2	Protection Target	Menu	See codelist *Protection Target*	M	1		6			x
B.8	Exemption or postponement according to Art. 22 of Dir. 2008/50/EC	Menu	statement of exemption or time extension for attainment according to Art. 22 of Air Quality Directive. See codelist *Time Extension Exemption*	M	1..*		6			x
B.9	Zone Delimitation Shapefile	URL	This external file reference may be used to provide a link to the shapefile of the zone if the MS cannot provide the geometry information as a posList. The element provides support for EEA's user interface (UI) during a 2-year interim period from January 2014 when the UI may be used to report this data flow B on AQ Zones.	X	0..1					
B.10	environmentalDomain	Menu	For AQD will always contain the value "air"		1					x
B.11	competentAuthority	Contact Details	CI_ResponsibleParty		1			Directive 2008/50/Ec Article 3 2004/461/EC Form 1		x
A.1.1	Name of the responsible authority, institution or body	Text	The official and complete name of the body (institution, company ...) in charge for a specific reporting obligation	M	1			2004/461/EC Form 1	x	
A.1.2	Web address	URL		C	1	M when available			x	
A.1.3	Name of responsible person	Text		M	1			2004/461/EC Form 1	x	
A.1.4	Address	Text	Postal address: Unambiguous and complete address including ZIP code	M	1			2004/461/EC Form 1	x	
A.1.5	Telephone number	Text	Complete numbers including country and area codes.	M	1			2004/461/EC Form 1	x	
A.1.6	E-mail	Text		M	1			2004/461/EC Form 1	x	
(C)Dataset"Assessmentregime"										
C.1	Assessment regime report identifier	Identifier	Unique identifier for the assessment regime report	M	1		7	2004/461/EC Form 2		x
A.8.1	localID	Text	A unique identifier for the element. A description of what is to go in the localID will be given where the identifier datatype is used.	M	1				x	x
A.8.2	namespace	Text	Namespace of the reporting organisation. This will be provided by the Commission.	M	1				x	x
A.8.3	versionID	Text		C	0..1	M if the dataset being referred to by localID has changed			x	x
C.2	Provider	Contact Details	specifies the authority which supplies the information. Data type Contact Details	M	1		7	2004/461/EC Form 1		

Reference	Element	Specification	Description	Requirement	Cardinality	Comments for requirement	Art.	Existing reporting obligation	INSPIRE Element	new element
A.1.1	Name of the responsible authority, institution or body	Text	The official and complete name of the body (institution, company ...) in charge for a specific reporting obligation	M	1			2004/461/EC Form 1	x	
A.1.2	Web address	URL		C	1	M when available			x	
A.1.3	Name of responsible person	Text		M	1			2004/461/EC Form 1	x	
A.1.4	Address	Text	Postal address: Unambiguous and complete address including ZIP code	M	1			2004/461/EC Form 1	x	
A.1.5	Telephone number	Text	Complete numbers including country and area codes.	M	1			2004/461/EC Form 1	x	
A.1.6	E-mail	Text		M	1			2004/461/EC Form 1	x	
C.3	Change documentation	Documentation of change	States if information has changed related to the previous year. If change="false", the information below can be skipped. Data type Documentation of change	M	1		7	2004/461/EC Sheet 0		
A.7.1	Change	Boolean	"true" if changes to previous submission, otherwise "false"	M	1					x
A.7.2	Description of change	Text	Description of changes [in the context of the Dataset]	C	0..1	M if change = "true"				x
C.4	Assessment regime (by zone and pollutant)			C	0..*	M if change = "true"	7	2004/461/EC Forms 10		
C.4.1	Assessment regime identifier	Identifier	Unique identifier for each individual assessment regime	M	1		7		x	x
A.8.1	localID	Text	A unique identifier for the element. A description of what is to go in the localID will be given where the identifier datatype is used.	M	1				x	x
A.8.2	namespace	Text	Namespace of the reporting organisation. This will be provided by the Commission.	M	1				x	x
A.8.3	versionID	Text		C	0..1	M if the dataset being referred to by localID has changed			x	x
C.4.2	Information on Zone	Link	Links the Assessment Regime to a specific zone - *link to B.4* *Multiple zones are provided by repeating all of C.4*	M	1..*		7	2004/461/EC by Forms 2, 3, 4, 19, 20		x
C.4.3	Pollutant	Menu	See codelist *Pollutants*	M	1		7	2004/461/EC Forms 10		x
C.4.4	Classification of pollution levels in relation to the Assessment thresholds(by environmental objective)			M	1..*		7			
C.4.4.1	Environmental objective	Environmental Objective	Data type *Environmental Objective* *Contains the objective, the Reporting metric and the protection target.*	M	1		7	2004/461/EC Forms 10		x
A.3.1	Environmental Objective type	Menu	See codelist *Environmental Objective Type*	M	1					
A.3.2	Reporting metric	Menu	See codelist *Reporting metric*	M	1					
A.3.3	Protection target	Menu	See codelist *Protection Target*	M	1					
C.4.4.2	Attainment of assessment threshold	Menu	Specifies the pollution level in relation to the Assessment Thresholds for the specified zone and pollutant. See codelist Assessment Threshold Exceedance	M	1		7	2004/461/EC Forms 10		x
C.4.4.3	Assessment threshold classification year	Year	Year of the last assessment of the pollution level in the zone in relation to the assessment thresholds	M	1		7			x
C.4.4.4	Documentation of the classification	URL	M if change = "true"	M	1		7			x
C.4.5	Assessment methods		This is the identification of the assessment type, a short description text of the assessment, and the link to the respective assessment meta-data (see dataset D)	M	1..*		7			
C.4.5.1	Assessment Type	Menu	See codelist Assessment Type	M	1..*		7	Not explicitly covered by 2004/461/EC, indirectly addressed by Forms 3, 4, 19, 20		x
C.4.5.2	Assessment type: Description	Text	Short description of assessment	M	1		7	2004/461/EC Forms 20		x
C.4.5.3	Individual assessment metadata sampling point	Link	Link to assessment metadata, depends on assessment type. Fixed Measurement: Link to D.5.1 Indicative Measurement: Link to D.6	C	0..*	M if assessment type is fixed or indicative measurement	7			x
C.4.5.4	Individual assessment metadata model	Link	Link to assessment metadata, depends on assessment type. Modelling: Link to D.7 Objective Estimation: Link to D.8	C	0..*	M if assessment type is fixed or indicative measurement	7			x
C.4.6	Validity Period			M	1					
C.4.6.1	Validity Period	Timestamp	start of validity of the assessment regime	M	1					
C.4.6.2	Validity Period	Timestamp	end of validity of the assessment regime	M	1					

Reference	Element	Specification	Description	Requirement	Cardinality	Comments for requirement	Art.	Existing reporting obligation	INSPIRE Element	new element
C.5	Information about designated competent authorities and bodies responsible for different aspects of quality assurance.		The data block C.5 requests information about competent authorities on various tasks related to AQ Assessment, according to Article 3 of Dir. 2008/50EC. The format of this information is specified in the datatype Contact Details.	C	0..1	M if change = "true"	7	Directive 2008/50/Ec Article 3		
C.5.1	Authority responsible for the assessment of air quality	Contact Details	Data type *Contact Details*. *National authority responsible for coordination of all tasks related to AQ assessment and reporting.*	M	1..*		7			
A.1.1	Name of the responsible authority, institution or body	Text	The official and complete name of the body (institution, company ...) in charge for a specific reporting obligation	M	1			2004/461/EC Form 1	x	
A.1.2	Web address	URL		C	1	M when available			x	
A.1.3	Name of responsible person	Text		M	1			2004/461/EC Form 1	x	
A.1.4	Address	Text	Postal address: Unambiguous and complete address including ZIP code	M	1			2004/461/EC Form 1	x	
A.1.5	Telephone number	Text	Complete numbers including country and area codes.	M	1			2004/461/EC Form 1	x	
A.1.6	E-mail	Text		M	1			2004/461/EC Form 1	x	
C.5.2	Authority responsible for the approval of measurement systems	Contact Details	Data type *Contact Details* *Background information see http://ies.jrc.ec.europa.eu/aquila-project/role-and-tasks-of-national-reference-laboratories.html*	M	1..*		7			
A.1.1	Name of the responsible authority, institution or body	Text	The official and complete name of the body (institution, company ...) in charge for a specific reporting obligation	M	1			2004/461/EC Form 1	x	
A.1.2	Web address	URL		C	1	M when available			x	
A.1.3	Name of responsible person	Text		M	1			2004/461/EC Form 1	x	
A.1.4	Address	Text	Postal address: Unambiguous and complete address including ZIP code	M	1			2004/461/EC Form 1	x	
A.1.5	Telephone number	Text	Complete numbers including country and area codes.	M	1			2004/461/EC Form 1	x	
A.1.6	E-mail	Text		M	1			2004/461/EC Form 1	x	
C.5.3	Authority responsible for ensuring the accuracy of measurements	Contact Details	Data type *Contact Details* *Background information see http://ies.jrc.ec.europa.eu/aquila-project/role-and-tasks-of-national-reference-laboratories.html*	M	1..*		7			
A.1.1	Name of the responsible authority, institution or body	Text	The official and complete name of the body (institution, company ...) in charge for a specific reporting obligation	M	1			2004/461/EC Form 1	x	
A.1.2	Web address	URL		C	1	M when available			x	
A.1.3	Name of responsible person	Text		M	1			2004/461/EC Form 1	x	
A.1.4	Address	Text	Postal address: Unambiguous and complete address including ZIP code	M	1			2004/461/EC Form 1	x	
A.1.5	Telephone number	Text	Complete numbers including country and area codes.	M	1			2004/461/EC Form 1	x	
A.1.6	E-mail	Text		M	1			2004/461/EC Form 1	x	
C.5.4	Authority responsible for the analysis of assessment method	Contact Details	Data type *Contact Details* *Background information see http://ies.jrc.ec.europa.eu/aquila-project/role-and-tasks-of-national-reference-laboratories.html*	M	1..*		7			
A.1.1	Name of the responsible authority, institution or body	Text	The official and complete name of the body (institution, company ...) in charge for a specific reporting obligation	M	1			2004/461/EC Form 1	x	
A.1.2	Web address	URL		C	1	M when available			x	
A.1.3	Name of responsible person	Text		M	1			2004/461/EC Form 1	x	
A.1.4	Address	Text	Postal address: Unambiguous and complete address including ZIP code	M	1			2004/461/EC Form 1	x	
A.1.5	Telephone number	Text	Complete numbers including country and area codes.	M	1			2004/461/EC Form 1	x	
A.1.6	E-mail	Text		M	1			2004/461/EC Form 1	x	
C.5.5	Authority responsible for the coordination of nation-wide quality assurance	Contact Details	Data type *Contact Details* *Background information see http://ies.jrc.ec.europa.eu/aquila-project/role-and-tasks-of-national-reference-laboratories.html*	M	1..*		7			
A.1.1	Name of the responsible authority, institution or body	Text	The official and complete name of the body (institution, company ...) in charge for a specific reporting obligation	M	1			2004/461/EC Form 1	x	
A.1.2	Web address	URL		C	1	M when available			x	
A.1.3	Name of responsible person	Text		M	1			2004/461/EC Form 1	x	
A.1.4	Address	Text	Postal address: Unambiguous and complete address including ZIP code	M	1			2004/461/EC Form 1	x	
A.1.5	Telephone number	Text	Complete numbers including country and area codes.	M	1			2004/461/EC Form 1	x	
A.1.6	E-mail	Text		M	1			2004/461/EC Form 1	x	
C.5.6	Authority responsible for the cooperation with other Member States and with the Commission	Contact Details	Data type *Contact Details*	M	1..*	When cooperation is ictivate.	7			
A.1.1	Name of the responsible authority, institution or body	Text	The official and complete name of the body (institution, company ...) in charge for a specific reporting obligation	M	1			2004/461/EC Form 1	x	
A.1.2	Web address	URL		C	1	M when available			x	
A.1.3	Name of responsible person	Text		M	1			2004/461/EC Form 1	x	
A.1.4	Address	Text	Postal address: Unambiguous and complete address including ZIP code	M	1			2004/461/EC Form 1	x	
A.1.5	Telephone number	Text	Complete numbers including country and area codes.	M	1			2004/461/EC Form 1	x	
A.1.6	E-mail	Text		M	1			2004/461/EC Form 1	x	

Reference	Element	Specification	Description	Requirement	Cardinality	Comments for requirement	Art.	Existing reporting obligation	INSPIRE Element	new element
(D)Dataset"InformationaboutAssessmentMethods"										
D.1	Assessment metadata report identifier	Identifier	Unique identifier for the assessment metadata report	M	1					x
A.8.1	localID	Text	A unique identifier for the element. A description of what is to go in the localID will be given where the identifier datatype is used.	M	1				x	x
A.8.2	namespace	Text	Namespace of the reporting organisation. This will be provided by the Commission.	M	1				x	x
A.8.3	versionID	Text		C	0..1	M if the dataset being referred to by localID has changed			x	x
D.2	Provider	Contact Details	Data type *Contact Details*	M	1					
A.1.1	Name of the responsible authority, institution or body	Text	The official and complete name of the body (institution, company ...) in charge for a specific reporting obligation	M	1			2004/461/EC Form 1	x	
A.1.2	Web address	URL		C	1	M when available			x	
A.1.3	Name of responsible person	Text		M	1			2004/461/EC Form 1	x	
A.1.4	Address	Text	Postal address: Unambiguous and complete address including ZIP code	M	1			2004/461/EC Form 1	x	
A.1.5	Telephone number	Text	Complete numbers including country and area codes.	M	1			2004/461/EC Form 1	x	
A.1.6	E-mail	Text		M	1			2004/461/EC Form 1	x	
D.3	Change documentation	Documentation of change	States if information has changed related to the previous year. If change="false", the information below can be skipped. Data type Documentation of change	M	1			2004/461/EC Sheet 0		
A.7.1	Change	Boolean	"true" if changes to previous submission, otherwise "false"	M	1					x
A.7.2	Description of change	Text	Description of changes [in the context of the Dataset]	C	0..1	M if change = "true"				x
D.4	General assessment metadata		To be provided for each assessment for each zone and pollutant. All assessment data must be able to be linked to the assessment metadata	C	0..*	M if change="true"				
D.4.1	Provider	Contact Details	Data type *Contact Details*	C M if different from D.2	0..1					
A.1.1	Name of the responsible authority, institution or body	Text	The official and complete name of the body (institution, company ...) in charge for a specific reporting obligation	M	1			2004/461/EC Form 1	x	
A.1.2	Web address	URL		C	1	M when available			x	
A.1.3	Name of responsible person	Text		M	1			2004/461/EC Form 1	x	
A.1.4	Address	Text	Postal address: Unambiguous and complete address including ZIP code	M	1			2004/461/EC Form 1	x	
A.1.5	Telephone number	Text	Complete numbers including country and area codes.	M	1			2004/461/EC Form 1	x	
A.1.6	E-mail	Text		M	1			2004/461/EC Form 1	x	
D.4.2	Assessment Type	Menu	See codelist *Assessment Type*	M	1					x
D.4.3	Information on Zone	Link	Link to zone *Link to B.4*	C	1	M if used for AQD assessment				x
D.4.4	Pollutant	Menu	See codelist *Pollutants*	M	1					x
D.5	The dataset describing Fixed Measurements		The dataset describing Fixed Measurements comprises meta-information on three hierarchical levels: • Measurement Configuration • Station • Network	C	0..1	M if fixed measurement is applied				
D.5.1	Information concerning measurement configuration by pollutant.		*Information concerning measurement configuration by pollutant (sampling point), to be provided for each measurement configuration for which data is to be reported.* *According to Art. 2 (3), a 'Measurement Configuration' means the technical facilities used for the measurement of one pollutant or one of its compounds at a specific station. For a pollutant, more than one Measurement Configurations at a single station can be in operation.*	*M*	*1..**			Dec 2004/461/EC Form 3 & 4		
D.5.1.1	Measurement configuration ID	Identifier	Unique identifier for this measurement configuration. In case of existing measurement configuration the localID should be the Existing code. In case of new measurement configuration the localID is to be defined by data provider, comprising station code, pollutant AirBase code and a number.	M	1				x	
A.8.1	localID	Text	A unique identifier for the element. A description of what is to go in the localID will be given where the identifier datatype is used.	M	1				x	x
A.8.2	namespace	Text	Namespace of the reporting organisation. This will be provided by the Commission.	M	1				x	x
A.8.3	versionID	Text		C	0..1	M if the dataset being referred to by localID has changed			x	x
D.5.1.2	European station ID	Link	Selection only from existing codes that identify stations for which metadata is provided. Link to D.5.2	M	1				x	

Reference	Element	Specification	Description	Requirement	Cardinality	Comments for requirement	Art.	Existing reporting obligation	INSPIRE Element	new element
D.5.1.3	Network ID	Link	Network which manages the sampling point. Link to D.5.3	M	1				x	
D.5.1.4	Measurement time references			M	1				x	
D.5.1.4.1	Measurement start date	Timestamp	Start of the measurement configuration (measurement of a pollutant at a monitoring station)	M	1				x	
D.5.1.4.2	Measurement end date	Timestamp	End of the measurement configuration (measurement of a pollutant at a monitoring station)	C	0..1	M if the measurement configuration is closed			x	
D.5.1.5	Emissions with predominant influence		For each measurement configuration, the type of source is to be given which is responsible for the largest (relative) contribution to the observed concentration. Describes emissions influencing the monitoring station for the specific pollutant. This information is relevant for the interpretation of the measured data and the assessment of the representativeness of the site.	C	0..1	M if available				
D.5.1.5.1	Classification of station	Menu	See codelist Station Classification More info in the first part of this Guidance	M	1					x
D.5.1.5.2	Main emission sources	Menu	See codelist *Main emission sources* The main emission source(s) (D.5.1.5.2) can be selected from the Codelist Main Emission Sources. In addition to the CRF emission categories, two "source" types have been introduced which represent contributions not originating from identifiyble sources: "Secondary" and "Long-range transport", for which neither a sectoral nor a spatial source attribution is possible. Further guidance is provided in chapter 19.	C	0..1	M if available				x
D.5.1.5.3	Emissions from traffic (t/km.year)	Quantification	Emissions from road traffic per street length, related to a section of at least 100 m, unit t/km.year.	V	0..1					
A.12.1	Quantification numerical	Number		M	1					
A.12.2	Unit of quantification	Menu	see codelist "observation unit"	M	1					
D.5.1.5.4	Emissions from domestic heating (t/km².year)	Quantification	Emissions from domestic heating, referring to a surrounding of about 1 km², unit t/m².year.	V	0..1					x
A.12.1	Quantification numerical	Number		M	1					
A.12.2	Unit of quantification	Menu	see codelist "observation unit"	M	1					
D.5.1.5.5	Emissions from industrial sources (t/year)	Quantification	In t/year	C	0..1	M for industrial stations				x
A.12.1	Quantification numerical	Number		M	1					
A.12.2	Unit of quantification	Menu	see codelist "observation unit"	M	1					
D.5.1.5.6	Distance from predominant industrial source or source area	Distance	In case of industrial sources, the distance from the source or source area has to be given. The distance refers to the stack in case of point sources or to the nearest edge of a source area in case of spatially distributed emissions. Unit metres.	C	0..1	M for industrial stations				x
A.11.1	Distance numerical	Number		M	1					
A.11.2	Unit of distance	Menu	see codelist "units of measurement"	M	1					
D.5.1.6	*Measurement Procedure*			M	1					
D.5.1.6.1	Measurement Procedure Identifier	Identifier	A unique ID for each type of measurement procedure. Thus, it is possible to reuse one measurement procedure at multiple sampling points, and with multiple observation datasets	M	1				x	
A.8.1	localID	Text	A unique identifier for the element. A description of what is to go in the localID will be given where the identifier datatype is used.	M	1				x	x
A.8.2	namespace	Text	Namespace of the reporting organisation. This will be provided by the Commission.	M	1				x	x
A.8.3	versionID	Text		C	0..1	M if the dataset being referred to by localID has changed			x	x
D.5.1.6.2	Body responsible for measurement	Contact Details	Data type *Contact Details*	M	1				x	
A.1.1	Name of the responsible authority, institution or body	Text	The official and complete name of the body (institution, company ...) in charge for a specific reporting obligation	M	1			2004/461/EC Form 1	x	
A.1.2	Web address	URL		C	1	M when available			x	
A.1.3	Name of responsible person	Text		M	1			2004/461/EC Form 1	x	

Reference	Element	Specification	Description	Requirement	Cardinality	Comments for requirement	Art.	Existing reporting obligation	INSPIRE Element	new element
A.1.4	Address	Text	Postal address: Unambiguous and complete address including ZIP code	M	1			2004/461/EC Form 1	x	
A.1.5	Telephone number	Text	Complete numbers including country and area codes.	M	1			2004/461/EC Form 1	x	
A.1.6	E-mail	Text		M	1			2004/461/EC Form 1	x	
D.5.1.6.3	Measurement description		Four types of Measurement Types can be specified (see codelist Measurement Type): 1. Automatic analyzer 2. Remote sensor 3. Active sampling 4. Passive sampling *If the Measurement Type is "Automatic analyzer" or "Remote sensor", the Measurement Method from the Codelist has to be selected. If the Codelist Measurement Method does not cover the actual measurement method, "other" has to be selected.* *If the Measurement Type is ""Active or passive Sampling", the Sampling method from the Codelist has to be selected. If the Codelist Sampling Method does not cover the actual sampling method, "other" has to be selected.* *The Analytical Technique from the Codelist has to be selected. If the Codelist Analytical Technique does not cover the actual analytical technique, "other" has to be selected*	M	1			Dec 2004/461/EC Form 7		
D.5.1.6.3.1	Measurement Type	Menu	See codelist *Measurement Type*.	M	1					x
D.5.1.6.3.2	*Measurement method description*		*Information about the measurement method when Measurement Type is "Automatic analyzer" or "Remote sensor"*	*C*	*0..1*	M if measurement type is "automatic analyzer" or "remote sensor"				x
D.5.1.6.3.2.1	Measurement method	Menu	See codelist *Measurement Method*. Should the measurement or sampling method being used not be available from the list, please select "other please specify" and enter the actual method in the Text field below	M	1					x
D.5.1.6.3.2.2	Other Measurement method	Text		C	0..1	M if non-standardized measurement/sampling method used				x
D.5.1.6.3.3	Measurement equipment description			C	0..1	M if available				
D.5.1.6.3.3.1	Measurement equipment	Menu	See codelist Measurement Equipment	C	0..1	M if available				x
D.5.1.6.3.3.2	Other Measurement equipment	Text	Please specify if equipment not entailed in Airbase list.	C	0..1	M if equipment is "other"				x
D.5.1.6.3.4	*Sampling method description*		Information about the Sampling method when Measurement Type is "Active or passive sampling"	*C*	*0..1*	M if measurement type is "active or passive sampling"				x
D.5.1.6.3.4.1	Sampling method	Menu	See codelist *Sampling Method* *Should the measurement or sampling method being used not be available from the list, please select "other please specify" and enter the actual method in the Text field below*	M	1					x
D.5.1.6.3.4.2	Other sampling method	Text		C	0..1	M if non-standardized sampling method used				x
D.5.1.6.3.5	Sampling equipment description			C	0..1	M if available				
D.5.1.6.3.5.1	Sampling equipment	Menu	See codelist Sampling Equipment Name or short description of equipment used.	C	0..1	M if available				x
D.5.1.6.3.5.2	Other sampling equipment	Text	Please specify if equipment not entailed in Airbase list.	C	0..1	M if equipment is "other"				x
D.5.1.6.3.6	*Analytical technique description*		*Information about the Analytical technique when Measurement Type is "Active or passive sampling"*	*C*	*0..1*	M if measurement type is "active or passive sampling"				x
D.5.1.6.3.6.1	Analytical technique	Menu	See codelist *Analytical Technique* *Should the analytical technique being used not be available from the list, please select "other please specify" and enter the actual technique in the Text field below*	M	1					x
D.5.1.6.3.6.2	Other Analytical technique	Text		C	0..1	M if non-standardized Analytical technique used				x
D.5.1.6.4	Demonstration of equivalence			M	1			Annex VI.B of Dir 2008/50/EC		
D.5.1.6.4.1	Demonstration of Equivalence with reference method	Menu	See codelist *Equivalence Demonstrated*. *• equivalent with the reference method and this is documented* *• not equivalent with the reference method* *• the reference method* *• or no reference method is defined, therefore equivalence cannot be demonstrated.* *The demonstration of equivalence according to Annex VI.B of Dir. 2008/50EC and Annex V of Dir. 2004/107EC has to be provided as an URL in D.5.1.7.2*	C	0..1	M if used for AQD assessment		Annex VI.B of Dir 2008/50/EC		x
D.5.1.6.4.2	Link to demonstration of equivalence report	URL	Link to report which documents the demonstration of equivalence with the reference method.	C	0..1	M if used for AQD assessment				x
D.5.1.6.5	Data quality information			M	1					

Reference	Element	Specification	Description	Requirement	Cardinality	Comments for requirement	Art.	Existing reporting obligation	INSPIRE Element	new element
D.5.1.6.5.1	Detection limit	Quantification	Specific for each monitoring equipment.	C	0..1	M if available		not directly but Dir 2008/50/EC Annex VI		x
A.12.1	Quantification numerical	Number		M	1					
A.12.2	Unit of quantification	Menu	see codelist "observation unit"	M	1					
D.5.1.6.5.2	Documentation of Traceability and Uncertainty Estimation	Text	Brief description of documentation of traceability and uncertainty estimation according to Annex I.C of Dir. 2008/50/EC and Annex IV.I of Dir. 2004/107EC.	C	0..1	M if used for AQD		Annex I.C of Dir. 2008/50/EC and Annex IV.I of Dir. 2004/107EC.		x
D.5.1.6.5.3	Documentation of QA/QC	URL	Web link to documentation of QA/QC	C	0..1	M if used for AQD assessment				x
D.5.1.6.6	Time references			M	1					
D.5.1.6.6.1	Sampling time		The "Sampling time" is the duration of one sample (in case of continuous measurement: 1 hour). It is required as a combination of a time unit, to be selected from the Codelist Time Unit, and the number of the selected time units. The sampling time may vary slightly in case of discontinuous or of passive sampling. Here, an average or common sampling time is to be given. The actual sampling time for each value is provided with the primary assessment data.	M	1					
D.5.1.6.6.1.1	Sampling duration unit	Menu	See codelist *Time Unit*	M	1					x
D.5.1.6.6.1.2	Number of duration units	Number	Number of time units	M	1					x
D.5.1.6.6.2	Sampling interval:		Time interval between the start of two consecutive samplings. D.5.1.10.2 requires the "Sampling interval" as the time between the start of two consecutive samples. In case of sampling with continuous time coverage, the sampling interval is identical with the sampling time. The sampling interval may vary slightly in case of discontinuous or of passive sampling. Here, an average or common sampling interval is to be given.	M	1					
D.5.1.6.6.2.1	Sampling cadence unit	Menu	See codelist *Time Unit*	M	1					x
D.5.1.6.6.2.2	Number of cadence units	Number	Number of time units	M	1					x
D.5.1.6.7	Validity Period			M	1					
D.5.1.6.7.1	Start of validity	Timestamp	start of validity of the measurement procedure	M	1					
D.5.1.6.7.2	End of validity	Timestamp	end of validity of the measurement procedure	M	1					
D.5.1.7	Spatial Information			M	1				x	
D.5.1.7.1	Sampling point location		D.5.1.11.4 covers information about the location of the air inlet. This information is relevant for the interpretation of local dispersion situations and the assessment of the microscale siting criteria laid down in Annex III.C of Dir. 2008/50/EC and Annex III.I of Dir. 2004/107EC.	M	1			Annex III.C of Dir 2008/50/EC	x	
D.5.1.7.1.1	Sampling Location Identifier	Identifier		M	1					
A.8.1	localID	Text	A unique identifier for the element. A description of what is to go in the localID will be given where the identifier datatype is used.	M	1				x	
A.8.2	namespace	Text	Namespace of the reporting organisation. This will be provided by the Commission.	M	1				x	
A.8.3	versionID	Text		C	0..1	M if the dataset being referred to by localID has changed			x	
D.5.1.7.1.2	Height of air inlet above ground	Length	In metres	M	1			Annex III.C of Dir 2008/50/EC		x
A.10.1	Length numerical	Number		M	1					
A.10.2	Unit of length	Menu	see codelist "units of measurement"	M	1					
D.5.1.7.1.3	Horizontal distance of air inlet from the next building	Distance	Horizontal distance from the next building in metres. This value considers buildings with a height of the air inlet or larger. The distance refers to the nearest point of the building.	C	0..1	M for traffic stations		Annex III.C of Dir 2008/50/EC		x
A.11.1	Distance numerical	Number		M	1					
A.11.2	Unit of distance	Menu	see codelist "units of measurement"	M	1					
D.5.1.7.1.4	Distance of air inlet from nearest lane	Distance	Distance from nearest lane (kerb) in metres. This value refers to the edge of the nearest lane with motorized traffic (excluding cycling tracks and parking areas).	C	0..1	M for traffic stations		Annex III.C of Dir 2008/50/EC		x
A.11.1	Distance numerical	Number		M	1					

Reference	Element	Specification	Description	Requirement	Cardinality	Comments for requirement	Art.	Existing reporting obligation	INSPIRE Element	new element
A.11.2	Unit of distance	Menu	see codelist "units of measurement"	M	1					
D.5.1.7.1.5	Validity Period			M	1					
D.5.1.7.1.5.1	Validity Period	Timestamp	start of validity of sample	M	1					
D.5.1.7.1.5.2	Validity Period	Timestamp	end of validity of sample	M	1					
D.5.1.7.2	Information about representative area		Location of the representative area Information about the representative area of the monitoring site for the specified pollutant	C	0..1	M where available				
D.5.1.7.2.1	Representative Area Identifier	Identifier		M	1					
A.8.1	localID	Text	A unique identifier for the element. A description of what is to go in the localID will be given where the identifier datatype is used.	M	1				x	x
A.8.2	namespace	Text	Namespace of the reporting organisation. This will be provided by the Commission.	M	1				x	x
A.8.3	versionID	Text		C	0..1	M if the dataset being referred to by localID has changed			x	x
D.5.1.7.2.2	Area (Spatial Extent) of representative area	Spatial Extent	information about the representative area of the monitoring site for the specified pollutant Data type Spatial Extent Geometric description of the representative area. Can be a simple single polygon or - in case of disjoint representativeness area – an aggregated polygons Methods to assess the representative area are described e.g. in the report "Representativeness and classification of air quality monitoring stations"[1]	C	0..1	M where available				
D.5.1.7.2.3	Evaluation of Representativeneness	Text	Interprets the representativeness area and constraints for use of this information	C	0..1	M where available				x
D.5.1.7.2.4	Link to documentation of representativeness	URL		C	0..1	M where available				x
D.5.1.7.2.5	Validity Period			M	1					
D.5.1.7.2.5.1	Validity Period	Timestamp	start of validity of representative area	M	1					
D.5.1.7.2.5.2	Validity Period	Timestamp	end of validity of representative area	M	1					
D.5.1.8	Declaration of used for AQD assessment	Boolean	Statement if the measurement is used for assessment under EC legislation. This flag discriminates measurement data used for "official" AQ assessment for compliance checking under EC legislation from measurement data used for other purposes. *This flag is essential especially in cases where more than one measurement configuration for one pollutant is operated at a station.*	M	1			Dec 2004/461/EC Form 3 & 4		x
D.5.1.9	Environmental Objective	Environmental Objective	see Dataset Environmental Objective (A.3). Describes if the measurement is used for health of ecosystem protection and for AEI measurement.	C	0..*	M if used for AQD assessment				x
A.3.1	Environmental Objective type	Menu	See codelist *Environmental Objective Type*	M	1					x
A.3.2	Reporting metric	Menu	See codelist *Reporting metric*	M	1					x
A.3.3	Protection target	Menu	See codelist *Protection Target*	M	1					x
D.5.1.10	Change of AEI monitoring stations	Text	Documentation and justification of changes in monitoring stations used for the AEI	C	0..1	M if AEI stations have been relocated				x
D.5.1.11	Media Monitored	Menu	Required for INSPIRE. Value should be "air". Codelist http://inspire.ec.europa.eu/codeList/MediaValue	M	1				x	
D.5.1.12	Measurement Regime	Menu	Required for INSPIRE Codelist: http://inspire.ec.europa.eu/codeList/MeasurementRegimeValue Possible values: - continuousDataCollection - demandDrivenDataCollection - onceOffDataCollection - periodicDataCollection	M	1				x	
D.5.1.13	Mobile	Boolean	Required for INSPIRE True if data is from a mobile station, false otherwise	M	1				x	

Reference	Element	Specification	Description	Requirement	Cardinality	Comments for requirement	Art.	Existing reporting obligation	INSPIRE Element	new element
D.5.2	***Monitoring station***		Monitoring station: to be provided for each monitoring station. (note: there may be several measurement configurations at the same monitoring station) According to Art. 2 (1) 'Station' means a location where measurements and/or samples are taken at one or more sampling points at the same site within an area of some 100 m².	*M*	1..*			Dec 2004/461/EC Form 3 & 4	x	
D.5.2.1	Station Identifier	Identifier	Unique identifier for this station. The localID should be the European station code	M	1			Dec 2004/461/EC Form 3 & 4	x	
A.8.1	localID	Text	A unique identifier for the element. A description of what is to go in the localID will be given where the identifier datatype is used.	M	1			Dec 2004/461/EC Form 3 & 4	x	x
A.8.2	namespace	Text	Namespace of the reporting organisation. This will be provided by the Commission.	M	1				x	x
A.8.3	versionID	Text		C	0..1	M if the dataset being referred to by localID has changed			x	x
D.5.2.2	National station code	Text		M	1			Dec 2004/461/EC Form 3 & 4		x
D.5.2.3	Name of the monitoring station	Text	Guidance on station names is provided in chapter 19.	M	1			Dec 2004/461/EC Form 3 & 4	x	
D.5.2.4	Name of the municipality	Text	Name of the municipality where the monitoring station is located. Name of municipality can be derived from external data sources based on the geographical coordinates.	X	1					x
D.5.2.5	European station code	Text	The EU station code should be the "EoI code" used in the past for EoI reporting. The EU station code comprises the two-digit national code, as defined by ISO-3166-1, and five additional alphanumeric digits. These may be directly related to the national station code if the national station code adheres to these rules and the format is appropriate and unambiguous.	M	1			Dec 2004/461/EC Form 3 & 4		x
D.5.2.6	Station time references			M	1			Indirectly from Dec 2004/461/EC Form 3 & 4	x	
D.5.2.6.1	Station start date	Timestamp	Start of operation of measurement station.	M	1				x	
D.5.2.6.2	Station end date	Timestamp	End of operation of measurement station.	C	0..1	M If the station is closed			x	
D.5.2.7	Geographical coordinates (geographical longitude and latitude)			M	1				x	
D.5.2.7.1	Geographical longitude	Number	Geographical longitude in ETRS89. If a different CRS is used this must be provided with the locational data	M	1				x	
D.5.2.7.2	Geographical latitude	Number	Geographical latitude in ETRS89. If a different CRS is used this must be provided with the locational data	M	1				x	
D.5.2.7.3	Geodetic altitude	Distance	In metres	M	1				x	
A.11.1	Distance numerical	Distance		M	1					
A.11.2	Unit of distance	Menu	see codelist "units of measurement"	M	1					
D.5.2.7.4	Reference geodetic coordinate system	Text	The default CRS for reporting is ETRS89. Should a different CRS be used by the MS this must be provided for proper interpretation of the data. INSPIRE always requires the provision of the CRS, so this field must be provided in all cases.	M	1				x	
D.5.2.8	Meteorological parameters measured	Menu	See codelist *Meteo Parameters*	V	0..*					x
D.5.2.9	Documentation of station information, including Maps and photographs	URL	Web link to photographs of the station and maps showing the location of the station	C	0..1	M if available				x
D.5.2.10	Classification of the area	Menu	See codelist *Area classification* *Classification of the Area describes the location with respect to population distribution. The Codelist – which is identical with the Exchange of Information - comprises* *• urban* *• suburban* *• rural* *and allows subcategories for rural* *o near city* *o regional* *o remote* *Further Guidance is provided in chapter 19.*	M	1			Dir 2008/50/EC Annex III & VIII		x
D.5.2.11	Description – Local and regional dispersion situation		Describes the local dispersion situation on a spatial scale of some 10m. D.5.2.11 comprises information about the surroundings of the station with respect to dispersion conditions. This information is relevant for the interpretation of the measured data, and to assess the location with respect to the siting criteria laid down in Annex III of Dir. 2008/0/EC and Annex III.II of Dir. 2004/107EC.	C	0..1	M if one of the contained elements is M based on the station type				
D.5.2.11.1	Local dispersion situation	Menu	See codelist *Dispersion Local* Local Dispersion Situation: Describes the location in relation to nearby buildings Further guidance is provided in chapter 19.	V	0..1					x

Reference	Element	Specification	Description	Requirement	Cardinality	Comments for requirement	Art.	Existing reporting obligation	INSPIRE Element	new element
D.5.2.11.2	Distance to major junction	Distance	Distance to major junction is mandatory for traffic sites (related to the station classification D.5.1.5.1) and refers to the microscale siting criteria. A "major junction" to be considered here is a junction which interrupts the traffic flow and causes different emissions (stop&go) from the rest of the road. Unit: metres.	C	0..1	M if "Type of station in relation to major emission sources" = "Traffic" for at least one measurement configuration		Dir 2008/50/EC Art. 7(4) & Annex III		x
A.11.1	Distance numerical	Number		M	1					
A.11.2	Unit of distance	Menu	see codelist "units of measurement"	M	1					
D.5.2.11.3	Assessed traffic volume	Quantification	Traffic volume is mandatory for traffic sites (related to the station classification D.5.1.5.1) and useful for the assessment of emissions (see D.5.1.5.3). Unit: annual average daily traffic	C	0..1	M if "Type of station in relation to major emission sources" = "Traffic" for at least one measurement configuration				x
A.12.1	Quantification numerical	Number		M	1					
A.12.2	Unit of quantification	Menu	see codelist "observation unit"	M	1					
D.5.2.11.4	Heavy-duty fraction of traffic	Quantification	to be given in percent of total vehicles	C	0..1	M if "Type of station in relation to major emission sources" = "Traffic" for at least one measurement configuration if available				x
A.12.1	Quantification numerical	Number		M	1					
A.12.2	Unit of quantification	Menu	see codelist "observation unit"	M	1					
D.5.2.11.5	Traffic speed	Quantification	In km/h	C	0..1	M if "Type of station in relation to major emission sources" = "Traffic" for at least one measurement configuration whifere available				x
A.12.1	Quantification numerical	Number		M	1					
A.12.2	Unit of quantification	Menu	see codelist "observation unit"	M	1					
D.5.2.11.6	Street canyon - width of street	Length	In metres	C	0..1	M if "Type of station in relation to major emission sources" = "traffic" for at least one measurement configuration and "Local dispersion situation" = "Street canyon" if available				x
A.10.1	Length numerical	Number		M	1					
A.10.2	Unit of length	Menu	see codelist "units of measurement"	M	1					
D.5.2.11.7	Street canyon - mean height of building facades	Length	In metres	C	0..1	M if "Type of station in relation to major emission sources" = "Traffic" for at least one measurement configuration and "Local dispersion situation" = "Street canyon" if available				x
A.10.1	Length numerical	Number		M	1					
A.10.2	Unit of length	Menu	see codelist "units of measurement"	M	1					
D.5.2.11.8	Regional dispersion situation	Menu	Describes the topographic situation on a scale of several kilometres. See codelist Dispersion Regional	V	0..1					x
D.5.2.12	Media Monitored	Menu	Required for INSPIRE. Value should be "air". Codelist http://inspire.ec.europa.eu/codeList/MediaValue	M	1				x	
D.5.2.13	Measurement Regime	Menu	Required for INSPIRE Codelist: http://inspire.ec.europa.eu/codeList/MeasurementRegimeValue Possible values: - continuousDataCollection - demandDrivenDataCollection - onceOffDataCollection - periodicDataCollection	M	1				x	
D.5.2.14	Mobile	Boolean	Required for INSPIRE True if data is from a mobile station, false otherwise	M	1				x	
D.5.3	Information concerning networks		Information concerning networks (include for each network that has been identified by the Sampling point or monitoring station) Monitoring networks represent the organizational structure of monitoring stations, responsible for station maintenance and QA/QC.	M	1				x	
D.5.3.1	Network ID	Identifier	The official, commonly used and unambiguous name of the network should be put in the localID. Ideally it is expected to remain consistent in the future.	M	1				x	
A.8.1	localID	Text	A unique identifier for the element. A description of what is to go in the localID will be given where the identifier datatype is used.	M	1				x	x

Reference	Element	Specification	Description	Requirement	Cardinality	Comments for requirement	Art.	Existing reporting obligation	INSPIRE Element	new element
A.8.2	namespace	Text	Namespace of the reporting organisation. This will be provided by the Commission.	M	1				x	x
A.8.3	versionID	Text		C	0..1	M if the dataset being referred to by localID has changed			x	x
D.5.3.2	Network name	Text		M	1				x	
D.5.3.3	Type of network	Menu	See codelist *Network Type* *Guidance is provided in chapter 19.*	V	0..1					x
D.5.3.4	Network operation period	Timestamp	Period of operation of the network.	M	1					
D.5.3.4.1	Network start date	Timestamp	Start of operation of the network.	M	1				x	
D.5.3.4.2	Network end date	Timestamp	End of operation of the network.	C	0..1	M is network is closed			x	
D.5.3.5	Aggregation Time Zone	Menu	Use this code list (Aggregation Time Zone) reference to declare the time zone used for aggregated data and statistics derived from observations made by sampling points and stations belonging to this network. It is recommended that local standard time (the time without correction for daylight saving time where this is applicable) is used for reporting of observations and aggregated data and derived statistics.	M	1					
D.5.3.6	Body responsible for network management	Contact Details	Data type *Contact Details*	M	1				x	
A.1.1	Name of the responsible authority, institution or body	Text	The official and complete name of the body (institution, company ...) in charge for a specific reporting obligation	M	1			2004/461/EC Form 1	x	
A.1.2	Web address	URL		C	1	M when available			x	
A.1.3	Name of responsible person	Text		M	1			2004/461/EC Form 1	x	
A.1.4	Address	Text	Postal address: Unambiguous and complete address including ZIP code	M	1			2004/461/EC Form 1	x	
A.1.5	Telephone number	Text	Complete numbers including country and area codes.	M	1			2004/461/EC Form 1	x	
A.1.6	E-mail	Text		M	1			2004/461/EC Form 1	x	
D.5.4	Data-bases or programmes to which data are reported		*Describes the end-use of the measured data; it comprises data-bases on national or international level to be selected from the codelist "Reporting Level".* *Additional data-bases can be added under D.5.4.2.* *All the bodies to which data from the station are transmitted should be indicated, from the local level and up to national and international level (e.g. European Commission, EEA, EMEP, OECD, GEMS, WHO,....). This information might be used by the Commission in the future to transfer the data to the concerned international bodies so discharging the Member States of doing it.* *This information refers to the monitoring network.*	V	0..1					
D.5.4.1	Standard Databases	Menu	See codelist *Reporting Level*, multiple entries accepted	V	0..1					x
D.5.4.2	Other Databases	Text	If data is provided to databases not in the list, please select "Other specify" and then enter this database in the Text field.	V	0..1					x
D.5.5	*Assessment methods for Art. 20 und 21 AQD*		*Short description of method for the identification of contributions from Natural sources (Art. 20) and Winter sanding & salting (Art. 21 of Dir. 2008/50/EC).* *This information refers to the monitoring network.*	C	0..1	M if Art. 20 or Art. 21 of Dir. 2008/50/EC apply				
D.5.5.1	Assessment method for winter sanding and salting	Text	Short description of method for the identification of contributions from Winter sanding & salting (Art. 21 of Dir. 2008/50/EC).	C	0..1	M if Dir. 2008/50/EC Art. 21 applies				x
D.5.5.2	Assessment method for natural contribution	Text	Short description of method for the identification of contributions from Natural Sources (according to Art. 20 of Dir. 2008/50/EC)	C	0..1	M if Dir. 2008/50/EC Art. 20 applies				x
D.6	Indicative measurement		Indicative measurement For each specific instance of indicative measurement	C	0..*	M if Indicative measurement is applied.		Dir 2008/50/EC Art. 6(3) & Annex I		
D.6.1	Indicative measurement ID	Identifier	The localID shall include pollutant AirBase code	M	1					
A.8.1	localID	Text	A unique identifier for the element. A description of what is to go in the localID will be given where the identifier datatype is used.	M	1				x	x
A.8.2	namespace	Text	Namespace of the reporting organisation. This will be provided by the Commission.	M	1				x	x
A.8.3	versionID	Text		C	0..1	M if the dataset being referred to by localID has changed			x	x
D.6.2	Description of measurement method	Text	Short description of measurement method	M	1					
D.6.3	Measurement Procedure			M	1					
D.6.3.1	Measurement Procedure Identifier	Identifier		M	1					
A.8.1	localID	Text	A unique identifier for the element. A description of what is to go in the localID will be given where the identifier datatype is used.	M	1				x	x
A.8.2	namespace	Text	Namespace of the reporting organisation. This will be provided by the Commission.	M	1				x	x

Reference	Element	Specification	Description	Requirement	Cardinality	Comments for requirement	Art.	Existing reporting obligation	INSPIRE Element	new element
A.8.3	versionID	Text		C	0..1	M if the dataset being referred to by localID has changed			x	x
D.6.3.2	Body responsible for measurement	Contact Details	Data type *Contact Details*	M	1				x	
A.1.1	Name of the responsible authority, institution or body	Text	The official and complete name of the body (institution, company ...) in charge for a specific reporting obligation	M	1			2004/461/EC Form 1	x	
A.1.2	Web address	URL		C	1	M when available			x	
A.1.3	Name of responsible person	Text		M	1			2004/461/EC Form 1	x	
A.1.4	Address	Text	Postal address: Unambiguous and complete address including ZIP code	M	1			2004/461/EC Form 1	x	
A.1.5	Telephone number	Text	Complete numbers including country and area codes.	M	1			2004/461/EC Form 1	x	
A.1.6	E-mail	Text		M	1			2004/461/EC Form 1	x	
D.6.3.3	Measurement description		Four types of Measurement Types can be specified (see codelist Measurement Type): 1. Automatic analyzer 2. Remote sensor 3. Active sampling 4. Passive sampling If the Measurement Type is "Automatic analyzer" or "Remote sensor", the Measurement Method from the Codelist has to be selected. If the Codelist Measurement Method does not cover the actual measurement method, "other" has to be selected. If the Measurement Type is ""Active or passive Sampling", the Sampling method from the Codelist has to be selected. If the Codelist Sampling Method does not cover the actual sampling method, "other" has to be selected. The Analytical Technique from the Codelist has to be selected. If the Codelist Analytical Technique does not	M	1			Dir 2008/50/EC Annex I & VI Dec 2004/461/EC Form 7		
D.6.3.3.1	Measurement type	Menu	See codelist *Measurement Type*.	M	1					
D.6.3.3.2	*Measurement method description*		*Information about the measurement method when Measurement Type is "Automatic analyzer" or "Remote sensor"*	*C*	*0..1*	M if measurement type is "automatic analyzer" or "remote sensor"				
D.6.3.3.2.1	Measurement method	Menu	See codelist *Measurement Method*. Should the measurement method being used not be available from the list, please select "other please specify" and enter the actual method in the Text field below.	M	1					
D.6.3.3.2.2	Other Measurement method	Text		C	0..1	M if non-standardized measurement/sampling method used				
D.6.3.3.3	*Measurement equipment description*			C	0..1	M if available				
D.6.3.3.3.1	Measurement equipment	Text	Name or short description of equipment used To be selected from a list for each pollutant (based on AirBase).	C	0..1	M if available				
D.6.3.3.3.2	Other Measurement equipment	Text	Please specify if equipment not entailed in Airbase list.	C	0..1	M if equipment is "other"				
D.6.3.3.4	*Sampling method description*		*Information about the Sampling method when Measurement Type is "Active or passive sampling"*	*C*	*0..1*	M if measurement type is "active or passive sampling"				
D.6.3.3.4.1	Sampling method	Menu	See codelist *Sampling Method* *Should the sampling method being used not be available from the list, please select "other please specify" and enter the actual method in the Text field below*	M	1					
D.6.3.3.4.2	Other sampling method	Text		C	0..1	M if non-standardized measurement/sampling method used				
D.6.3.3.5	*Sampling equipment description*			C	0..1	M if available				
D.6.3.3.5.1	Sampling equipment	Text	Name or short description of equipment used To be selected from a list for each pollutant (based on AirBase).	C	0..1	M if available				
D.6.3.3.5.2	Other sampling equipment	Text	Please specify if equipment not entailed in Airbase list.	C	0..1	M if equipment is "other"				
D.6.3.3.6	Analytical technique description		*Information about the Analytical technique when Measurement Type is "Active or passive sampling"*	*C*	*0..1*	M if measurement type is "active or passive sampling"				
D.6.3.3.6.1	Analytical technique	Menu	See codelist *Analytical technique* *Should the analytical technique being used not be available from the list, please select "other please specify" and enter the actual equipment in the Text field below.*	M	1					
D.6.3.3.6.2	Other Analytical technique	Text		C	0..1	M if non-standardized analytical technique used				

Reference	Element	Specification	Description	Requirement	Cardinality	Comments for requirement	Art.	Existing reporting obligation	INSPIRE Element	new element
D.6.3.4	Demonstration of equivalence			V	0..1			Dir 2008/50/EC Art. 6(3) & Annex I and VI Dir. 2004/107/EC Annex V		
D.6.3.4.1	Equivalence with reference method demonstrated	Menu	See codelist *Equivalence Demonstrated* • *equivalent with the reference method and this is documented* • *not equivalent with the reference method* • *the reference method* • *or no reference method is defined, therefore equivalence cannot be demonstrated* *The demonstration of equivalence according to Annex VI.B of Dir. 2008/50EC and Annex V of Dir. 2004/107EC has to be provided as an URL in D.6.3.4.2.*	V	0..1			Dir 2008/50/EC Art. 6(3) & Annex I and VI.B Dir. 2004/107/EC Annex V		
D.6.3.4.2	Link to demonstration of equivalence report	URL		V	0..1					
D.6.3.5	Data quality information			M	1			Dir 2008/50/EC Annex I		
D.6.3.5.1	Detection limit	Quantification	Specific for each monitoring equipment.	C	0..1	M if available				
A.12.1	Quantification numerical	Number		M	1					
A.12.2	Unit of quantification	Menu	see codelist "observation unit"	M	1					
D.6.35.2	Documentation of Traceability and Uncertainty Estimation	Text	Brief description of documentation of traceability and uncertainty estimation according to Annex I.C of Dir. 2008/50/EC and Annex IV.I of Dir. 2004/107EC.	C	0..1	M if used for AQD assessment				x
D.6.35.3	Documentation of QA/QC	URL	Web link to documentation of QA/QC	C	0..1	M if used for AQD assessment				x
D.6.3.6	Time references			M	1					
D.6.3.6.1	Sampling time		The "Sampling time" is the duration of one sample (in case of continuous measurement: 1 hour). It is required as a combination of a time unit, to be selected from the Codelist Time Unit, and the number of the selected time units. The sampling time may vary slightly in case of discontinuous or of passive sampling. Here, an average or common sampling time is to be given. The actual sampling time for each value is provided with the primary assessment data.	M	1					
D.6.3.6.1.1	Sampling duration unit	Menu	See codelist *Time Unit*	M	1					x
D.6.3.6.1.2	Number of duration units	Number	Number of time units selected	M	1					x
D.6.3.6.2	Sampling interval		Time interval between the start of two consecutive samplings. D.5.1.10.2 requires the "Sampling interval" as the time between the start of two consecutive samples. In case of sampling with continuous time coverage, the sampling interval is identical with the sampling time. The sampling interval may vary slightly in case of discontinuous or of passive sampling. Here, an average or common sampling interval is to be given.	M	1					
D.6.3.6.2.1	Sampling cadence unit	Menu	See codelist *Time Unit*	M	1					x
D.6.3.6.2.2	Number of cadence units	Number	Number of time units selected	M	1					x
D.6.4	Spatial Information			M	1			INSPIRE	x	
D.6.4.1	Sampling point location		D.5.1.11.4 covers information about the location of the air inlet. This information is relevant for the interpretation of local dispersion situations and the assessment of the microscale siting criteria laid down in Annex III.C of Dir. 2008/50/EC and Annex III.I of Dir. 2004/107EC.	M	1			INSPIRE Dir 2008/50/EC Annex III.C Dir. 2004/107/EC Annex III.I	x	
D.6.4.1.1	Sampling Location Identifier	Identifier		M	1					
A.8.1	localID	Text	A unique identifier for the element. A description of what is to go in the localID will be given where the identifier datatype is used.	M	1				x	
A.8.2	namespace	Text	Namespace of the reporting organisation. This will be provided by the Commission.	M	1				x	
A.8.3	versionID	Text		C	0..1	M if the dataset being referred to by localID has changed			x	
D.6.4.1.2	Indicative measurement Location description	Text	Description of location	V	0..1					
D.6.4.1.3	Geographical longitude	Number	Geographical longitude in ETRS89. If a different CRS is used this must be provided with the locational data	M	1					
D.6.4.1.4	Geographical latitude	Number	Geographical longitude in ETRS89. If a different CRS is used this must be provided with the locational data	M	1					
D.6.4.1.5	Altitude	Number	metres	M	1					
D.6.4.1.6	Reference geodetic coordinate system	Text	The default CRS for reporting is ETRS89. Should a different CRS be used by the MS this must be provided for proper interpretation of the data. INSPIRE always requires the provision of the CRS, so this field must be provided in all cases.	M	1					

Reference	Element	Specification	Description	Requirement	Cardinality	Comments for requirement	Art.	Existing reporting obligation	INSPIRE Element	new element
D.6.4.2	Representative Area Location		Location of the representative area information about the representative area of the monitoring site for the specified pollutant							
D.6.4.2.1	Representative Area Identifier	Identifier		M	1					
A.8.1	localID	Text	A unique identifier for the element. A description of what is to go in the localID will be given where the identifier datatype is used.	M	1				x	x
A.8.2	namespace	Text	Namespace of the reporting organisation. This will be provided by the Commission.	M	1				x	x
A.8.3	versionID	Text		C	0..1	M if the dataset being referred to by localID has changed			x	x
D.6.4.2.2	Information about representative area	Spatial Extent	information about the representative area of the monitoring site for the specified pollutant Data type Spatial Extent Geometric description of the representative area. Can be a simple single polygon or - in case of disjoint representativeness area – an aggregated polygons Methods to assess the representative area are described e.g. in the report "Representativeness and classification of air quality monitoring stations"[1]	C	0..1	M if available				
D.6.4.2.3	Evaluation of Representativeneness	Text	Interprets the representativeness area and constraints for use of this information	C	0..1	M if available				x
D.6.4.2.4	Link to documentation of representativeness	URL		C	0..1	M if available				x
D.6.5	Data-bases or programmes to which data are reported		Describes the end-use of the measured data; it comprises data-bases on national or international level to be selected from the codelist Reporting Level. Additional data-bases can be added under D.6.5.2. All the bodies to which data from the station are transmitted should be indicated, from the local level and up to national and international level (e.g. European Commission, EEA, EMEP, OECD, GEMS, WHO, ...). This information might be used by the Commission in the future to transfer the data to the concerned international bodies so discharging the Member States of doing it.	V	0..1					
D.6.5.1	Standard Databases	Menu	See codelist *Reporting Level*, multiple entries accepted	V	0..1					
D.6.5.2	Other Databases	Text	If data is provided to databases not in the list, please select "Other specify" and then enter this database in the Text field.	V	0..1					
D.6.6	*Assessment methods for Art. 20 und 21 AQD*		*Short description of method for the identification of contributions from Natural sources (Art. 20) or Winter sanding & salting (Art. 21 of Dir. 2008/50/EC).*	C	0..1	M if Art. 20 or Art. 21 of Dir. 2008/50/EC apply				
D.6.6.1	Assessment method for winter sanding and salting	Text	Short description of method for the identification of contributions from Winter sanding & salting (Art. 21 of Dir. 2008/50/EC).	C	0..1	M if Dir. 2008/50/EC Art. 21 applies				
D.6.6.2	Assessment method for natural contribution	Text	Short description of method for the identification of contributions from Natural Sources (according to Art. 20 of Dir. 2008/50/EC)	C	0..1	M if Dir. 2008/50/EC Art. 20 applies				
D.6.7	used for AQD assessment	Boolean	Statement if the measurement is used for compliance assessment under EC legislation. This flag discriminates measurement data used for "official" AQ assessment under EC legislation from measurement data used for any other purposes. This flag is essential especially in cases where more than one measurement configuration for one pollutant is operated at a station.	M	1					
D.6.8	Environmental Objective	Menu	see Datatype *Environmental Objective* (A.3). Describes if the measurement is used for health of ecosystem protection.	C	0..*	*M if used for AQD assessment*				
A.3.1	Environmental Objective type	Menu	See codelist *Environmental Objective Type*	M	1					x
A.3.2	Reporting metric	Menu	See codelist *Reporting metric*	M	1					x
A.3.3	Protection target	Menu	See codelist *Protection Target*	M	1					x
D.7	*Modelling: to be provided for each specific instance of modelling*		*Models are a totally different source of air quality information than measurement.* *Both meta-information as well as results are to be made available in formats different from measurement data, and have not been covered by the present Exchange of Information Decision.*	C	*0..1*	*M if Modelling is applied*		Dir 2008/50/EC Art. 6(3) & Annex I		
D.7.1	Modelling ID	Identifier	Modelling ID shall include country code and pollutant AirBase code	M	1				x	
A.8.1	localID	Text	A unique identifier for the element. A description of what is to go in the localID will be given where the identifier datatype is used.	M	1				x	
A.8.2	namespace	Text	Namespace of the reporting organisation. This will be provided by the Commission.	M	1				x	
A.8.3	versionID	Text		C	0..1	M if the dataset being referred to by localID has changed			x	
D.7.2	Modelling method			M	1					
D.7.2.1	Modelling method: name	Text		M	1				x	
D.7.2.2	Modelling method: description	Text		M	1				x	
D.7.2.3	Modelling method: documentation	URL		M	1				x	

Reference	Element	Specification	Description	Requirement	Cardinality	Comments for requirement	Art.	Existing reporting obligation	INSPIRE Element	new element
D.7.2.4	Body responsible for modelling	Contact Details	Data type *Contact Details* *Institution which is responsible for providing the Models data.* *Can either be the body responsible for the specific modelling assessment or the national competent body for modelling.*	M	1				x	
A.1.1	Name of the responsible authority, institution or body	Text	The official and complete name of the body (institution, company ...) in charge for a specific reporting obligation	M	1			2004/461/EC Form 1	x	
A.1.2	Web address	URL		C	1	M when available			x	
A.1.3	Name of responsible person	Text		M	1			2004/461/EC Form 1	x	
A.1.4	Address	Text	Postal address: Unambiguous and complete address including ZIP code	M	1			2004/461/EC Form 1	x	
A.1.5	Telephone number	Text	Complete numbers including country and area codes.	M	1			2004/461/EC Form 1	x	
A.1.6	E-mail	Text		M	1			2004/461/EC Form 1	x	
D.7.2.5	Environmental Objective	Environmental objective	see Datatype "Environmental Objective". Please note that the name "Environmental objective type" in the Decision 2011/850/EC is not correct. This element refers to the (whole) "Environmental Objective" as defined in A.3.	M	1..*					
A.3.1	Environmental Objective type	Menu	See codelist *Environmental Objective Type*	M	1					
A.3.2	Reporting metric	Menu	See codelist *Reporting metric*	M	1					
A.3.3	Protection target	Menu	See codelist *Protection Target*	M	1					
D.7.2.6	Area of modelling	Spatial extent	GIS Description of model domain	M	1				x	
D.7.3	*Time reference*			*M*	*1*				x	
D.7.3.1	*Model time resolution*			*V*	*0..1*				x	
D.7.3.1.1	Time unit	Menu	See codelist *Time Unit*	V	1				x	
D.7.3.1.2	Number of time units	Number	Gives the number of time units selected	V	1				x	
D.7.3.2	*Modelling period*		Description of the time period model data are provided for.	M	1				x	
D.7.3.2.1	Modelling start date	Timestamp	Start time of modelling period	M	1				x	
D.7.3.2.2	Modelling end date	Timestamp	End time of modelling period	M	1				x	
D.7.4	Spatial resolution	Text	Describes the spatial resolution of the model	M	1				x	
D.7.5	Data quality information related to Annex I of Dir. 2008/50/EC			*C*	*0..1*	M if used for AQD assessment		Dir 2008/50/EC Annex I Dir. 2004/107/EC Annex IV		
D.7.5.1	Data quality objectives: Documentation of traceability and uncertainty estimation	Text	Requires the uncertainty estimation according to Annex I.A of Dir. 2008/50EC and Annex IV.I of Dir. 2004/107EC and as relevant using the methodologies described in the appropriate CEN standards.	V	0..1				x	
D.7.5.2	Data quality objectives: Link to report which documents all QA/QC	URL		*C*	*0..1*	M if used for AQD assessment			x	
D.7.6	Validity Period			M	1					
D.7.6.1	Validity Period	Timestamp	start of validity of modeling	M	1					
D.7.6.2	Validity Period	Timestamp	end of validity of modeling	M	1					
D.7.7	Data-bases or programmes to which data are reported		*Specifies the end-use of the modelled data; it comprises data-bases on national or international level to be selected from the codelist Reporting Level.* *All the bodies to which data from the station are transmitted should be indicated, from the local level and up to national and international level (e.g. European Commission, EEA, EMEP, OECD, GEMS, WHO,....). This information might be used by the Commission in the future to transfer the data to the concerned international bodies so discharging the Member States of doing it.*	*V*	*0..1*					
D.7.7.1	Standard Databases	Menu	See codelist *Reporting Level*, multiple entries accepted	V	0..1					
D.7.7.2	Other Databases	Text	If data is provided to databases not in the list, please select "Other specify" and then enter this database in the Text field.	V	0..1					
D.7.8	Organisation Level	Menu	The organisational level this model covers. Values from the INSPIRE codelist LegislationLevelValue; possible values are international, european, national, sub-national	M	1				x	x
D.7.9	Media Monitored	Menu		M	1				x	
D.8	Objective Estimation		*In case of pollution levels below the Lower Assessment Threshold, Objective Estimation can be used for air quality assessment with low data quality.*	*C*	*0..1*	M if Objective estimation is applied				
D.8.1	Objective estimation ID	Identifier	ID shall include country code and pollutant AirBase code	*M*	*1*					
A.8.1	localID	Text	A unique identifier for the element. A description of what is to go in the localID will be given where the identifier datatype is used.	M	1				x	
A.8.2	namespace	Text	Namespace of the reporting organisation. This will be provided by the Commission.	M	1				x	
A.8.3	versionID	Text		C	0..1	M if the dataset being referred to by localID has changed			x	

Reference	Element	Specification	Description	Requirement	Cardinality	Comments for requirement	Art.	Existing reporting obligation	INSPIRE Element	new element
D.8.2	Description	Text		*M*	*1*					
D.8.3	Area of objective estimation	Spatial Extent	Data type *Spatial Extent.* *Describes the area where the objective estimation is applied. May be e.g. a whole zone.*	*M*	*1*					
D.8.4	*Data quality information about data quality related to Annex I of Dir. 2008/50/EC.*			*M*	*1*			Dir 2008/50/EC Annex I Dir. 2004/107/EC Annex IV		
D.8.4.1	Data quality objectives: Documentation of traceability and uncertainty estimation	Text	Requires the uncertainty estimation according to Annex I.A of Dir. 2008/50EC and Annex IV.I of Dir. 2004/107EC and as relevant using the methodologies described in the appropriate CEN standards.	*M*	*1*					
D.8.4.2	Data quality objectives: Link to report which documents all QA/QC	URL	Web link to documentation of QA/QC	*M*	*1*					
D.8.5	Environmental Objective	Menu	see Dataset Environmental Objective (A.3). Describes if the modelling is e.g. used for health of ecosystem protection.	*C*	*0..**	M if used for AQD assessment				
A.3.1	Environmental Objective type	Menu	See codelist *Environmental Objective Type*	M	1					
A.3.2	Reporting metric	Menu	See codelist *Reporting metric*	M	1					
A.3.3	Protection target	Menu	See codelist *Protection Target*	M	1					
(E)Dataset"Primarydata										
E.1	*Primary data report identifier*	Identifier	Unique identifier for the Primary data report, which includes the version number.	M	1					
A.8.1	localID	Text	A unique identifier for the element. A description of what is to go in the localID will be given where the identifier datatype is used.	M	1				x	x
A.8.2	namespace	Text	Namespace of the reporting organisation. This will be provided by the Commission.	M	1				x	x
A.8.3	versionID	Text	Version number	C	0..1	M if the dataset being referred to by localID has changed			x	x
E.2	*Provider*	Contact Details	Data type *Contact Details* Institution which is responsible for providing the primary assessment data	M	1					
A.1.1	Name of the responsible authority, institution or body	Text	The official and complete name of the body (institution, company ...) in charge for a specific reporting obligation	M	1			2004/461/EC Form 1	x	
A.1.2	Web address	URL		C	1	M when available			x	
A.1.3	Name of responsible person	Text		M	1			2004/461/EC Form 1	x	
A.1.4	Address	Text	Postal address: Unambiguous and complete address including ZIP code	M	1			2004/461/EC Form 1	x	
A.1.5	Telephone number	Text	Complete numbers including country and area codes.	M	1			2004/461/EC Form 1	x	
A.1.6	E-mail	Text		M	1			2004/461/EC Form 1	x	
E.3.	*Change description*	*Documentation of change*		*M*	*1*					
A.7.1	Change	Boolean	"true" if changes to previous submission, otherwise "false"	M	1					x
A.7.2	Description of change	Text	Description of changes [in the context of the Dataset]	C	0..1	M if change = "true"				x
E.4	*Assessment results – from measurement, modelling or objective estimation*			*M*	1..*			Dir 2008/50/EC Art. 6		
E.4.1	Assessment Result Identifier	Identifier	An identifier for the assessment results. In the case of final assessment data this should be a unique identifier used for only one submission. In the case of near real time data the identifier can be reused	M	1					x
E.4.2	Pollutant	Menu	See codelist *Pollutants*	M	1					
E.4.3	Assessment Type	Menu	See codelist Assessment Type	M	1					
E.4.4	Assessment method	Menu	Reference to the position in the relevant dataset where the assessment method is described, depends on assessment type. Fixed Measurement: Link to D.5 Indicative Measurement: Link to D.6 Modelling: Link to D.7 Objective Estimation: Link to D.8	M	1					
E.4.5	*Time period of dataset*		*Start and end timestamp of values covered by this dataset for this pollutant and assessment type*	M	1					
E.4.5.1	Start of dataset	Timestamp	Start of values covered by this dataset for this pollutant and assessment.	M	1					
E.4.5.2	End of dataset	Timestamp	End of values covered by this dataset for this pollutant and assessment.	M	1					
E.5	*Time reference of value*			M	1					

Reference	Element	Specification	Description	Requirement	Cardinality	Comments for requirement	Art.	Existing reporting obligation	INSPIRE Element	new element
E.5.1	Start of value	Timestamp	*start datetime of value*	M	1					
E.5.2	End of value	Timestamp	*end datetime of value*	M	1					
E.6	*Assessment Data*			M	1..*					
E.6.1	Unit of pollutant	Menu	see codelist *"observation unit"* Unit of assessment data.	M	1					
E.6.2	Measurement Value	Number	Measurement results from monitoring or indicative measurement	C	0..1	M If primary assessment data are scalar (monitoring or indicative measurement)				
E.6.3	Modelled Value	Spatial Observation	Data type Spatial observation	C	0..1	M If primary assessment data are not scalar (modelling, objective estimation)				
E.6.4	Validity	Menu	See codelist *Validity*	M	1					
E.6.5	Verification status	Menu	See codelist *Verification Status*	M	1					
E.7	Data Quality			M	1			Dir. 2008/50/EC Annex I Dir. 2004/107/EC Annex IV		
E.7.1	Data Quality Objective: Time Coverage	Boolean	Please state whether data quality objective time coverage is fulfilled. Fixed measurements have to cover the whole calendar year according to Annex I.A of Dir. 2008/50EC, except for Benzene, for which 90 % are required for industrial sites and 35 % for traffic sites, provided that measurement is distributed over the year to cover different representative weather and traffic situations. Annex IV.I of Dir. 2004/107/EC requires a minimum data coverage of 33 % for B(a)P and 50 % for Cd, As and Ni . More info in the first part of this Guidance	C	0..1	M If primary assessment data are scalar (monitoring or indicative measurement)				x
E.7.2	Data Quality Objective: Time Coverage Percentage	Text	Please provide the actual time coverage percentage value. Could also be something like "<12.5%".	C	0..1	M If primary assessment data are scalar (monitoring or indicative measurement)				x
E.7.3	Data Quality Objective: Data Capture	Boolean	Please state whether data quality objective data capture is fulfilled Annex I.A of Dir. 2008/50EC requires a minimum data capture of 90 % for fixed measurements, except for Ozone, for which 90 % is required during summer and 75 % during winter. The requirement for Ozone applies also for NO and NO2 measured only as Ozone precursors. Annex IV.I of Dir. 2004/107EC required 90% data capture for all pollutants regulated by this Directive. In case of random sampling for particles, Pb and Benzene (Footnote 1 to Annex I.A, Dir. 2008/50EC), the data capture refers to the time coverage of the samples. Annex I.A of Dir. 2008/50EC requires a minimum data capture of 90 % for fixed measurements, except for Ozone, for which 90 % is required during summer and 75 % during winter. The requirement for Ozone applies also for NO and NO2 measured only as Ozone precursors. Annex IV.I of Dir. 2004/107EC required 90% data capture for all pollutants regulated by this Directive. In case of random sampling for particles, Pb and Benzene (Footnote 1 to Annex I.A, Dir. 2008/50EC), the data capture refers to the time coverage of the samples. More info in the first part of this Guidance	C	0..1	M If primary assessment data are scalar (monitoring or indicative measurement)				x
E.7.4	Data Quality Objective: Data Capture Percentage	Text	Please provide the actual data capture percentage value. Could also be something like "<12.5%".	C	0..1	M If primary assessment data are scalar (monitoring or indicative measurement)				x
E.7.5	Data Quality Objective: Uncertainty Estimation	Text	Uncertainty estimation according to Annex I.A of Dir. 2008/50EC and Annex IV.I of Dir. 2004/107EC. The uncertainty (expressed at a 95 % confidence level) of the assessment methods will be evaluated in accordance with the principles of the CEN Guide to the Expression of Uncertainty in Measurement (ENV 13005-1999), the methodology of ISO 5725:1994 and the guidance provided in the CEN report 'Air Quality — Approach to Uncertainty Estimation for Ambient Air Reference Measurement Methods' (CR 14377:2002E). The percentages for uncertainty in the above table are given for individual measurements averaged over the period considered by the limit value (or target value in the case of ozone), for a 95 % confidence interval. The uncertainty for the fixed measurements shall be interpreted as being applicable in the region of the appropriate limit value (or target value in the case of ozone). For deposition of HM and PAH and Hg (total, gas, part.), no environmental objective is laid down. For PAH deposition, use provisions of DIN EN 15980. For Hg (total, gas, part., deposition) use provisions of FprEN15852 d and FprEN15853 d. For HM deposition, use provisions of prEN15841. To be given in percent. . More info in the first part of this Guidance	C	0..1	M If primary assessment data are scalar (monitoring or indicative measurement)and if available				x
E.8	Model Calibration and Verification			C	0..1	M If primary assessment data are not scalar (modelling, objective estimation)		Dir 2008/50/EC Art. 6		
E.8.1	*Modelling method calibration*		*Refers the validation of the model by measurement.* *Under D.7.3.1 the reference to monitoring stations used for EU reporting can be given by listing the respective EU codes of these stations. If other stations have been used for validation, these can be listed (as text) under D.7.3.2.*	*M*	*1*					

Reference	Element	Specification	Description	Requirement	Cardinality	Comments for requirement	Art.	Existing reporting obligation	INSPIRE Element	new element
E.8.1.1	Modelling method: calibration by measurement	Link	Link to description of measurement stations which are used for model calibration in dataset D. Link to D.5.1	C	0..*	M if used for AQD assessment				
E.8.1.2	Modelling method - calibration by measurement at sites not under AQD	Text	Documentation of monitoring sites used for model calibration not reported under the AQD	C	0..1	M if used for AQD assessment				
E.8.2	*Modelling method verificatio*		*Refers the verification of the model by measurement.* *Under D.7.4.1 the reference to monitoring stations used for EU reporting can be given by listing the respective EU codes of these stations. If other stations have been used for validation, these can be listed (as text) under D.7.4.2.*	*M*	*1*					
E.8.2.1	Modelling method: verification by measurement	Link	Link to description of measurement stations which are used for model verification in dataset D. Link to D.5.1	C	0..*	M if used for AQD assessment				
E.8.2.2	Modelling method - verification by measurement at sites not under AQD	Text	Documentation of monitoring sites used for model verification not reported under the AQD	C	0..1	M if used for AQD assessment				
(F)Generateddataset"Aggregateddata"										
F.1	Aggregated data report identifier	Identifier	Unique identifier for the Aggregated data report, which includes the version number.	M	1					
A.8.1	localID	Text	A unique identifier for the element. A description of what is to go in the localID will be given where the identifier datatype is used.	M	1				x	x
A.8.2	namespace	Text	Namespace of the reporting organisation. This will be provided by the Commission.	M	1				x	x
A.8.3	versionID	Text	Version number	C	0..1	M if the dataset being referred to by localID has changed			x	x
F.2	Provider	Contact Details	Data type *Contact Details* Institution which is responsible for providing the primary assessment data	M	1					
A.1.1	Name of the responsible authority, institution or body	Text	The official and complete name of the body (institution, company ...) in charge for a specific reporting obligation	M	1			2004/461/EC Form 1	x	
A.1.2	Web address	URL		C	1	M when available			x	
A.1.3	Name of responsible person	Text		M	1			2004/461/EC Form 1	x	
A.1.4	Address	Text	Postal address: Unambiguous and complete address including ZIP code	M	1			2004/461/EC Form 1	x	
A.1.5	Telephone number	Text	Complete numbers including country and area codes.	M	1			2004/461/EC Form 1	x	
A.1.6	E-mail	Text		M	1			2004/461/EC Form 1	x	
F.3.	*Change description*	*Documentation of change*		*M*	*1*					
A.7.1	Change	Boolean	"true" if changes to previous submission, otherwise "false"	M	1					x
A.7.2	Description of change	Text	Description of changes [in the context of the Dataset]	C	0..1	M if change = "true"				x
F.4	*Reference to Assessment*			G	1					
F.4.1	Assessment ID	Identifier	Unique ID for this Assessment, comprising country code and pollutant	G	1					x
F.4.2	Pollutant	Menu	See codelist *Pollutants*	G	1					
F.4.3	Environmental Objective	Environmental Objective	Data type *Environmental Objective*	G	1					
A.3.1	Environmental Objective type	Menu	See codelist *Environmental Objective Type*	M	1					
A.3.2	Reporting metric	Menu	See codelist *Reporting metric*	M	1					
A.3.3	Protection target	Menu	See codelist *Protection Target*	M	1					
F.4.4	Assessment Type	Menu	See codelist *Assessment Type*	G	1					
F.4.5	Assessment method	Menu	Reference to the position in the relevant dataset where the respective assessment method is described: Fixed Measurement: Link to D.5 Indicative Measurement: Link to D.6 Modelling: Link to D.7 Objective Estimation: Link to D.8	G	1					

Reference	Element	Specification	Description	Requirement	Cardinality	Comments for requirement	Art.	Existing reporting obligation	INSPIRE Element	new element
F.4.6	*Assessment period*		Start and end date of the aggregation period, for example 1st January to 31st December 2011 for the annual mean 2011 31st October 2010 to 31st March 2011 for the Winter mean 2010/2011 1st January 2008 to 31st December 2010 for the AOT40-Vegetation related to the Ozone TV	G	1					
F.4.6.1	Start date	Timestamp	Start date of the aggregation period.	G	1					
F.4.6.2	End date	Timestamp	End date of the aggregation period.	G	1					
F.5	*Assessment Data*			G	1			Indirectly from Dec. 2004/461/EC Sheet 11, 13, 14 and 15		
F.5.1	*Aggregated measurement value and unit*		*Aggregated measurement value and unit*	G	1					
F.5.1.1	Aggregated Measurement Value	Number	Aggregated from valid measurements	G	1					
F.5.1.2	Unit of pollutant	Menu	See codelist *Observation Unit* Unit of aggregated assessment data.	G						
F.5.2	*Aggregated model value and unit*		*Aggregated model value and unit*	G	1					
F.5.2.1	Aggregated Modelled value	Spatial Observation	Data type *Spatial Observation* Information most appropriate to represent the spatial information provided by the assessment method.	G	1					
F.5.2.2	Unit	Menu	See codelist *Observation Unit*	G	1					
F.6	*Data quality information*			G	1			Dir. 2008/50/EC Annex I Dir. 2004/107/EC Annex IV		
F.6.1	Data Quality Objective: Time Coverage	Boolean	Refers to the time coverage specified in D.5.1.9.1, D.6.3.5.1.	G	1					
F.6.2	Data Quality Objective: Time Coverage Percentage	Text	Please provide the actual time coverage percentage value	G	1					
F.6.3	Data Quality Objective: Data Capture	Boolean	Data Quality Objective data capture: Calculated fraction of "valid" values used for the aggregation within the period specified in F.1.7 and F.1.18, taking into account the data coverage and data losses due to maintenance and calibration, and using the following validity flags as "valid" input: • Valid • Valid, number replaced by 0.5*DL	G	1					
F.6.4	Data Quality Objective: Data Capture Percentage	Text	Please provide the actual data capture percentage value	G	1					
F.6.5	Validity of aggregated data	Menu	See codelist *Validity of aggregated data*	G	1					
F.6.6	Verification status	Menu	See codelist *Verification Status*	G	1					
F.6.7	Data quality Objective: uncertainty estimation	Text	For AQD purposes the estimation has to be made in accordance with the provisions of Annex I of Directive 2008/50/EC and Annex IV of Dir. 2004/107/EC, and as relevant using the methodologies described in the appropriate CEN standards.	G	1					
F.7	Aggregation Process			G	1					
F.7.1	Aggregation Process ID	Identifier	Unique ID for this Aggregation Process	G	1					
A.8.1	localID	Text	A unique identifier for the element. A description of what is to go in the localID will be given where the identifier datatype is used.	M	1					
A.8.2	namespace	Text	Namespace of the reporting organisation. This will be provided by the Commission.	M	1					
A.8.3	versionID	Text		C	0..1	M if the dataset being referred to by localID has changed				
F.7.2	Aggregation Process Name	Text		G	1					
F.7.3	Aggregation Process Description	Text		G	1					
F.7.4	Aggregation Process ResponsibleParty	Contact Details		G	1					
A.1.1	Name of the responsible authority, institution or body	Text	The official and complete name of the body (institution, company ...) in charge for a specific reporting obligation	M	1			2004/461/EC Form 1	x	
A.1.2	Web address	URL		C	1	M when available			x	
A.1.3	Name of responsible person	Text		M	1			2004/461/EC Form 1	x	
A.1.4	Address	Text	Postal address: Unambiguous and complete address including ZIP code	M	1			2004/461/EC Form 1	x	
A.1.5	Telephone number	Text	Complete numbers including country and area codes.	M	1			2004/461/EC Form 1	x	
A.1.6	E-mail	Text		M	1			2004/461/EC Form 1	x	
F.7.5	Aggregation Process Type	Text		G	1					
F.7.6	Validity Period			M	1					

Reference	Element	Specification	Description	Requirement	Cardinality	Comments for requirement	Art.	Existing reporting obligation	INSPIRE Element	new element
D.7.6.1	Validity Period	Timestamp	start of validity of the aggregation process	M	1					
D.7.6.2	Validity Period	Timestamp	end of validity of the aggregation process	M	1					
(G)Dataset"Informationontheattainmentofenvironmentalobjectives"										
G.1	Attainment report identifier	Identifier	Unique identifier for the Attainment report	M	1			Dec. 2004/461/EC Sheet 0		
A.8.1	localID	Text	A unique identifier for the element. A description of what is to go in the localID will be given where the identifier datatype is used.	M	1				x	x
A.8.2	namespace	Text	Namespace of the reporting organisation. This will be provided by the Commission.	M	1				x	x
A.8.3	versionID	Text		C	0..1	M if the dataset being referred to by localID has changed			x	x
G.2	Provider	Contact Details	*Data type Contact Details*	M	1			Dec. 2004/461/EC Sheet 0		
A.1.1	Name of the responsible authority, institution or body	Text	The official and complete name of the body (institution, company ...) in charge for a specific reporting obligation	M	1			2004/461/EC Form 1	x	
A.1.2	Web address	URL		C	1	M when available			x	
A.1.3	Name of responsible person	Text		M	1			2004/461/EC Form 1	x	
A.1.4	Address	Text	Postal address: Unambiguous and complete address including ZIP code	M	1			2004/461/EC Form 1	x	
A.1.5	Telephone number	Text	Complete numbers including country and area codes.	M	1			2004/461/EC Form 1	x	
A.1.6	E-mail	Text		M	1			2004/461/EC Form 1	x	
G.3	Change documentation	Documentation of change	Data type *Documentation of change*	M	1			2004/461/EC Sheet 0		
A.7.1	Change	Boolean	"true" if changes to previous submission, otherwise "false"	M	1					x
A.7.2	Description of change	Text	Description of changes [in the context of the Dataset]	C	0..1	M if change = "true"				x
G.4	Reporting year	Timestamp	Calendar year to which the declaration applies	M	1			2004/461/EC Sheet 0		
G.4.1	Reporting start date	Timestamp	Start of the reporting	M	1				x	
G.4.2	Reporting end date	Timestamp	End of the reporting	M	1				x	
G.5	*Attainment:(for each zone and environmental objective)*			C	1..*	M if change=true		2004/461/EC Sheet 8		
G.5.1	Attainment identifier	Identifier	Unique identifier for each attainment element (so zone and environmental objective pair)	M	1					x
A.8.1	localID	Text	A unique identifier for the element. A description of what is to go in the localID will be given where the identifier datatype is used.	M	1				x	x
A.8.2	namespace	Text	Namespace of the reporting organisation. This will be provided by the Commission.	M	1				x	x
A.8.3	versionID	Text		C	0..1	M if the dataset being referred to by localID has changed			x	x
G.5.2	Information on Zone	Link	*Link to B.4*	M	1			Dec. 2004/461/EC Sheet 2		x
G.5.3	Pollutant	Menu	See codelist *Pollutants*	M	1			Dec. 2004/461/EC Sheet 2		x
G.5.4	Assessment information	Link	*Link to C.4*	M	1			Dec. 2004/461/EC Sheet 10		x
G.5.5	Environmental objective	Environmental Objective	See data type *Environmental Objective* *Specifies the environmental objective for the pollutant.*	V	1			Dec. 2004/461/EC Sheet 8		
A.3.1	Environmental Objective type	Menu	See codelist *Environmental Objective Type*	M	1					x
A.3.2	Reporting metric	Menu	See codelist *Reporting metric*	M	1					x
A.3.3	Protection target	Menu	See codelist *Protection Target*	M	1					x
G.5.6	Exceedance/attainment information of the Environmental Objective (Preliminary)		*Statement if the Environmental Objective (itself) is exceeded or complied with.* *In the following elements, either the numeric value which is checked against the Environmental Objective (e.g. annual mean value or AOT value), or the number of exceedances (e.g. daily mean values above 50 µg/m³ or 1 hour mean values above 200 µg/m ³) for which the Environmental Objective is defined, are given.*	M	0..*			Dir. 2008/50/EC Art. 23 Dec. 2004/461/EC Sheet 8		
G.5.6.1	Exceedance of the environmental objective	Boolean	If the environmental objective for this pollutant is exceeded in this zone (given as "yes"/"no")	M	1			Dec. 2004/461/EC Sheet 8		x

Reference	Element	Specification	Description	Requirement	Cardinality	Comments for requirement	Art.	Existing reporting obligation	INSPIRE Element	new element
G.5.6.2	Numerical exceedance of the Environmental objective	Number	refers to average, percentile or AOT	C	0..1	M if environmental objective is an average, percentile or AOT				x
G.5.6.3	Total Number of Exceedances of the environmental objective	Number	Exceedance number: number of daily or hourly exceedances in case an environmental objective given as a maximum number of daily or hourly values above a certain value.	C	0..1	M if environmental objective is given as a number of exceedances per year				x
G.5.6.4	Exceedance situation	Exceedance Situation	Data type *Exceedance Situation* *Description of the exceedance situation(s) related to the Environmental Objective.* *For each zone, one or more exceedance situations can be given.*	C	1..*	M before the end of second calendar year		Indirectly Dir. 2008/50/EC Art. 23 Dec. 2004/224/EC Sheet 2		
A.2.1	Exceedance Situation ID	Identifier	Unique identifier for this exceedance situation The "Exceedance situation ID" shall comprise at least the following information: · MS (2-letter Member State code as defined by ISO-3166-1) · zone · pollutant	M	1			Indirectly Dir. 2008/50/EC Art. 23 Dec. 2004/224/EC Sheet 2		
A.8.1	localID	Text	A unique identifier for the element. A description of what is to go in the localID will be given where the identifier datatype is used.	M	1				x	x
A.8.2	namespace	Text	Namespace of the reporting organisation. This will be provided by the Commission.	M	1				x	x
A.8.3	versionID	Text		C	0..1	M if the dataset being referred to by localID has changed			x	x
A.2.2	Exceeded environmental objective	Environmental Objective	Data type *Environmental Objective*	M	1..*			Dir. 2008/50/EC Art. 13 and Annex XI Dec. 2004/224/EC Sheet 10		
A.3.1	Environmental Objective type	Menu	See codelist *Environmental Objective Type*	M	1					x
A.3.2	Reporting metric	Menu	See codelist *Reporting metric*	M	1					x
A.3.3	Protection target	Menu	See codelist *Protection Target*	M	1					x
A.2.3	Adjustments	Menu	See codelit *Exceedance Adjustment*	C	0..*	M if Art. 20 or 21 of Directive 2008/50/EC is applied		2004/461/EC Sheet 23 & 24		
A.2.4	Deduction Assessment Method		Source of the fraction to be deducted (for example, the NaCl measurements used to deduct WSS)	M	0..1			Not explicitly covered by 2004/461/EC, indirectly addressed by Forms 23 & 24		
A.2.4.1	Assessment Type	Menu	See codelist Assessment Type	M	1		7	Not explicitly covered by 2004/461/EC, indirectly addressed by Forms 3, 4, 19, 20		x
A.2.4.2	Assessment type: Description	Text	Short description of assessment,	M	1		7	2004/461/EC Forms 20		x
A.2.4.3	Individual assessment metadata sampling point	Link	Link to assessment metadata, depends on assessment type. Fixed Measurement: Link to D.5.1 Indicative Measurement: Link to D.6 Modelling: Link to D.7 Objective Estimation: Link to D.8	C	0..*	M if assessment type is fixed or indicative measurement	7			x
A.2.4.4	Individual assessment metadata model	Link	Link to assessment metadata, depends on assessment type. Modelling: Link to D.7 Objective Estimation: Link to D.8	C	0..*	M if assessment type is modelling or objective estimation	7			x
A.2.5	Area of the exceedance situation			M	1			Indirectly Dir. 2008/50/EC Art. 23 Dec. 2004/224/EC Sheet 2 Dec. 2004/461/EC Sheet 19		
A.2.5.1	Classification of the area	Menu	see codelist "area classification"	M	1..*					x
A.2.5.2	Administrative units	Menu	List of LAU-codes of all administrative units which are at least partly covered by the exceedance area.	X	1..*					x
A.2.5.3	Area of the exceedance situation	Spatial Extent	Data type *Spatial Extent* *Exceedance area delimitation. GIS description of the exceedance area.*	x	1					x
A.2.5.4	Estimate of the surface area where the level was above the environmental objective	Area	area in km^2	C	0..1	M if the exceedance is not only linked to the road network				x
A.9.1	Surface area numerical	Number		M	1					
A.9.2	Unit of surface area	Menu	see codelist "units of measurement"	M	1					
A.2.5.5	Estimate of the length of road where the level was above the environmental objective	Length	length of affected roads in km	C	0..1	M if exceedance area linked to the road network				x
A.10.1	Length numerical	Number		M	1					
A.10.2	Unit of length	Menu	see codelist "units of measurement"	M	1					

Reference	Element	Specification	Description	Requirement	Cardinality	Comments for requirement	Art.	Existing reporting obligation	INSPIRE Element	new element
A.2.5.6	Monitoring stations in exceedance area	Link	List of the monitoring stations in the exceedance area Link to D.5.1	C	0..*	M if assessment type is "fixed measurement"				x
A.2.5.7	Modelled exceedance	Link	Reference to model meta-information Link to D.7	C	0..*	M if assessment type is "modelling"				x
A.2.6	Information about the population and the exposed ecosystem and vegetation within the area of exceedance			M	1			Dir. 2008/50/EC Art. 23		
A.2.6.1	Estimate of the total resident population in the exceedance area	Number	Number of resident population within the area of exceedance. This information is required if the Environmental Objective refers to human health protection.	C	0..1	X if Protection Target is "Health" or "Health and vegetation/ecosystem"				x
A.2.6.2	Estimate of the ecosystem/vegetation area exposed above the environmental objective	Area	Area in km² of ecosystems or vegetation within the area of exceedance, e.g. retrieved from Corine Landcover data. This information is required if the Environmental Objective refers to ecosystem/vegetation protection.	C	0..1	M if Protection Target is "Vegetation/ecosystem" or "Health and vegetation/ecosystem"				x
A.9.1	Surface area numerical	Number		M	1					
A.9.2	Unit of surface area	Menu	see codelist "units of measurement"	M	1					
A.2.6.3	Sensitive resident population	Number	Percentage of sensitive population in the exceedance area, defined as sum of percentage under 18 and over 60 years of age	X	1					x
A.2.6.4	Infrastructure relevant for sensitive population	Number	Total number of infrastructure services for sensitive population groups in the exceedance area (hospitals, kindergardens, schools etc.)	X	1					x
A.2.6.5	Reference year	year	Reference year for the population/exposure data if different from reporting year	C	0..1	M if different from AQ reporting year				x
A.2.7	Exceedance duration			V	0..1			Dir. 2008/50/EC Art. 23		
A.2.7.1	Start date	date	Start date of the period the exceedance situation applies. This is usually the 1. Jan. of the first year the exceedance was observed (or the measurement or modelling started).	M	1				x	
A.2.7.2	End date	date	End date of the period the exceedance situation applies. This is usually the end of the last year in with the exceedance was observed .	C	0..1	M if finished			x	
A.2.8	Exceedance reason		*Provide information of the reason for the exceedance*	C	0..1	M if exceedance is being reported				
A.2.8.1	Natural Source Contribution	Menu	See codelist NaturalSourceType This code list reference allows for the declaration of reason(s) for the observed exceedance using codes prescribed by the AQD.	C	0..*	M if natural sources are being claimed		Dir. 2008/50/EC Art. 20		
A.2.8.2	Reason	Menu	See codelist NaturalSourceType This code list reference allows for the declaration of reason(s) for the observed exceedance using codes prescribed by the AQD.	C	0..*	M if exceedance is being reported				
A.2.8.3	Reason other	Text	Textual description of reasons not available from codelist	V	0..1					
A.2.9	Comment for clarification	Text	Provides further information of relevance on the exceedance	V	0..1					x
G.5.7	*"Final" Exceedance of the Environmental Objective after considering natural sources and winter sanding/salting, or including MoT*		*Statement if the Environmental Objective is exceeded or complied with, after consideration of contributions from natural sources and winter sanding or salting, or, alternatively, application of MoT.* *In the following elements, either the numeric value which is checked against the Environmental Objective (e.g. annual mean value), or the number of exceedances (e.g. daily mean values above 50 µg/m³ or 1 hour mean values above 200 µg/m ³) for which the Environmental Objective is defined, are given.* *If no MoT applies and if neither contributions from winter sanding/salting nor from Natural sources are claimed, the final exceedance description is identical to G.5.6.*	*M*	*1*			Dir. 2008/50/EC Art. 23 Dec. 2004/461/EC Sheet 8		
G.5.7.1	Exceedance of the Environmental Objective after considering natural sources and winter sanding/salting, or including MoT	Boolean	Declaration related to the EO (EO+MOt if applicable), and after consideration of natural sources and winter sanding/salting (if Article 20 or 21 of Directive 2008/50/EC are applied). Exceedance in this zone: given as "yes"/"no"	M	1			Dec. 2004/461/EC Sheet 8		x
G.5.7.2	Total Numerical exceedance of the Environmental objective after considering natural sources and winter sanding/salting, or including MoT	Number	refers to annual or winter average	C	0..1	M if environmental objective is annual average		Dec. 2004/461/EC Sheet 8		x
G.5.7.3	Total Number of Exceedance of the environmental objective after considering natural sources and winter sanding/salting, or including MoT	Number	Exceedance number: number of daily or hourly exceedances in case an environmental objective given as a maximum number of daily or hourly values above a certain value.	C	0..1	M if environmental objective is given as a number of exceedances per year		Dec. 2004/461/EC Sheet 8		x
G.5.7.4	Exceedance situation description of the Exceedance of the Environmental Objective after considering natural sources and winter sanding/salting, or including MoT	Exceedance Situation	See data type *Exceedance Situation* Description of the exceedance situation(s) related to the EO (plus maximum margin of tolerance in zones and agglomerations where Article 22 of Directive 2008/50/EC is applied), considering contributions from winter sanding & salting, and from natural sources, if Art. 21 or 20 of Dir. 2008/50/EC are applied. For each zone, one or more exceedance situations can be given. The exceedance situations provide the link to AQ Plans (Dataset H), source apportionments (Dataset I) and Scenarios (Dataset J), Scenarios (Dataset I) and Measures (Dataset K).	C	1..*	M before the end of second calendar year		Dec. 2004/224/EC Sheet 2		

Reference	Element	Specification	Description	Requirement	Cardinality	Comments for requirement	Art.	Existing reporting obligation	INSPIRE Element	new element
A.2.1	Exceedance Situation ID	Identifier	Unique identifier for this exceedance situation The "Exceedance situation ID" shall comprise at least the following information: · MS (2-letter Member State code as defined by ISO-3166-1) · zone · pollutant	M	1			Indirectly Dir. 2008/50/EC Art. 23 Dec. 2004/224/EC Sheet 2		
A.8.1	localID	Text	A unique identifier for the element. A description of what is to go in the localID will be given where the identifier datatype is used.	M	1					x
A.8.2	namespace	Text	Namespace of the reporting organisation. This will be provided by the Commission.	M	1					x
A.8.3	versionID	Text		C	0..1	M if the dataset being referred to by localID has changed				x
A.2.2	Exceeded environmental objective	Environmental Objective	Data type *Environmental Objective*	M	1..*			Dir. 2008/50/EC Art. 13 and Annex XI Dec. 2004/224/EC Sheet 10		x
A.3.1	Environmental Objective type	Menu	See codelist *Environmental Objective Type*	M	1					x
A.3.2	Reporting metric	Menu	See codelist *Reporting metric*	M	1					
A.3.3	Protection target	Menu	See codelist *Protection Target*	M	1					
A.2.3	Adjustments	Menu	See codelit *Exceedance Adjustment*	C	0..*	M if Art. 20 or 21 of Directive 2008/50/EC is applied		2004/461/EC Sheet 23 & 24		
A.2.4	Deduction Assessment Method		Source of the fraction to be deducted (for example, the NaCl measurements used to deduct WSS)	M	0..1			Not explicitly covered by 2004/461/EC, indirectly addressed by Forms 23 & 24		
A.2.4.1	Assessment Type	Menu	See codelist Assessment Type	M	1		7	Not explicitly covered by 2004/461/EC, indirectly addressed by Forms 3, 4, 19, 20		x
A.2.4.2	Assessment type: Description	Text	Short description of assessment,	M	1		7	2004/461/EC Forms 20		x
A.2.4.3	Individual assessment metadata sampling point	Link	Link to assessment metadata, depends on assessment type. Fixed Measurement: Link to D.5.1 Indicative Measurement: Link to D.6 Modelling: Link to D.7 Objective Estimation: Link to D.8	C	0..*	M if assessment type is fixed or indicative measurement	7			x
A.2.4.4	Individual assessment metadata model	Link	Link to assessment metadata, depends on assessment type. Modelling: Link to D.7 Objective Estimation: Link to D.8	C	0..*	M if assessment type is modelling or objective estimation	7			
A.2.5	Area of the exceedance situation			M	1			Indirectly Dir. 2008/50/EC Art. 23 Dec. 2004/224/EC Sheet 2 Dec. 2004/461/EC Sheet 19		
A.2.5.1	Classification of the area	Menu	see codelist "area classification"	M	1..*					
A.2.5.2	Administrative units	Menu	List of LAU-codes of all administrative units which are at least partly covered by the exceedance area.	X	1..*					
A.2.5.3	Area of the exceedance situation	Spatial Extent	Data type *Spatial Extent* *Exceedance area delimitation. GIS description of the exceedance area.*	M	1					
A.2.5.4	Estimate of the surface area where the level was above the environmental objective	Area	area in km^2	C	0..1	M if the exceedance is not only linked to the road network				
A.9.1	Surface area numerical	Number		M	1					
A.9.2	Unit of surface area	Menu	see codelist "units of measurement"	M	1					
A.2.5.5	Estimate of the length of road where the level was above the environmental objective	Length	length of affected roads in km	C	0..1	M if exceedance area linked to the road network				x
A.10.1	Length numerical	Number		M	1					
A.10.2	Unit of length	Menu	see codelist "units of measurement"	M	1					
A.2.5.6	Monitoring stations in exceedance area	Link	List of the monitoring stations in the exceedance area Link to D.5.1	C	0..*	M if assessment type is "fixed measurement"				x
A.2.5.7	Modelled exceedance	Link	Reference to model meta-information Link to D.7	C	0..*	M if assessment type is "modelling"				x
A.2.6	Information about the population and the exposed ecosystem and vegetation within the area of exceedance			M	1			Dir. 2008/50/EC Art. 23		
A.2.6.1	Estimate of the total resident population in the exceedance area	Number	Number of resident population within the area of exceedance. This information is required if the Environmental Objective refers to human health protection.	C	0..1	X if Protection Target is "Health" or "Health and vegetation/ecosystem"				x

Reference	Element	Specification	Description	Requirement	Cardinality	Comments for requirement	Art.	Existing reporting obligation	INSPIRE Element	new element
A.2.6.2	Estimate of the ecosystem/vegetation area exposed above the environmental objective	Number	Area in km² of ecosystems or vegetation within the area of exceedance, e.g. retrieved from Corine Landcover data. This information is required if the Environmental Objective refers to ecosystem/vegetation protection.	C	0..1	M if Protection Target is "Vegetation/ecosystem" or "Health and vegetation/ecosystem"				x
A.9.1	Surface area numerical	Number		M	1					
A.9.2	Unit of estimate of the ecosystem/vegetation area	Menu	see codelist "units of measurement"	C	0..1	M if Protection Target is "Vegetation/ecosystem" or "Health and vegetation/ecosystem"				
A.2.6.3	Sensitive resident population	Number	Percentage of sensitive population in the exceedance area, defined as sum of percentage under 18 and over 60 years of age	X	1					x
A.2.6.4	Infrastructure relevant for sensitive population	Number	Total number of infrastructure services for sensitive population groups in the exceedance area (hospitals, kindergardens, schools etc.)	X	1					x
A.2.6.5	Reference year	year	Reference year for the population/exposure data if different from reporting year	C	0..1	M if different from AQ reporting year				x
A.2.7	Exceedance duration			V	0..1			Dir. 2008/50/EC Art. 23		x
A.2.7.1	Start date	date	Start date of the period the exceedance situation applies. This is usually the 1. Jan. of the first year the exceedance was observed (or the measurement or modelling started).	M	1					
A.2.7.2	End date	date	End date of the period the exceedance situation applies. This is usually the end of the last year in with the exceedance was observed .	C	0..1	M if finished				
A.2.8	Exceedance reason		*Provide information of the reason for the exceedance*	C	0..1	M if exceedance is being reported				
A.2.8.1	Natural Source Contribution	Menu	See codelist NaturalSourceType This code list reference allows for the declaration of reason(s) for the observed exceedance using codes prescribed by the AQD.	C	0..*	M if natural sources are being claimed		Dir. 2008/50/EC Art. 20		
A.2.8.2	Reason	Menu	See codelist NaturalSourceType This code list reference allows for the declaration of reason(s) for the observed exceedance using codes prescribed by the AQD.	C	0..*	M if exceedance is being reported				
A.2.8.3	Reason other	Text	Textual description of reasons not available from codelist	V	0..1					
A.2.9	Comment for clarification	Text	Provides further information of relevance on the exceedance	V	0..1					x
G.5.8	Comment	Text	Comments for clarification	V	0..1					x
G.5.9	Validity Period			M	1					
G.5.10	Validity Period	Timestamp	start of validity of attainment	M	1					
G.5.11	Validity Period	Timestamp	end of validity of attainment	M	1					
(H)Dataset"Informationontheairqualityplan(s)"(Art.13)										
H.0	Air quality plan identifier	Identifier	Unique identifier for air quality plan	M				Dir. 2008/50/EC Art. 23 and 24 Dec. 2004/224/EC Dec. 2004/224/EC Form 1		
A.8.1	localID	Text	A unique identifier for the element. A description of what is to go in the localID will be given where the identifier datatype is used.	M	1				x	x
A.8.2	namespace	Text	Namespace of the reporting organisation. This will be provided by the Commission.	M	1				x	x
A.8.3	versionID	Text		C	0..1	M if the dataset being referred to by localID has changed			x	x
H.1	Provider	Contact Details	Data type *Contact Details*	M	1			Dec. 2004/224/EC Form 1		
A.1.1	Name of the responsible authority, institution or body	Text	The official and complete name of the body (institution, company ...) in charge for a specific reporting obligation	M	1			2004/461/EC Form 1	x	
A.1.2	Web address	URL		C	1	M when available			x	
A.1.3	Name of responsible person	Text		M	1			2004/461/EC Form 1	x	
A.1.4	Address	Text	Postal address: Unambiguous and complete address including ZIP code	M	1			2004/461/EC Form 1	x	
A.1.5	Telephone number	Text	Complete numbers including country and area codes.	M	1			2004/461/EC Form 1	x	
A.1.6	E-mail	Text		M	1			2004/461/EC Form 1	x	
H.2	Change documentation	Documentation of change	States if information has changed related to the previous year . If change="false", the information below can be skipped. Data type Documentation of change	M	1			2004/461/EC Sheet 0		
A.7.1	Change	Boolean	"true" if changes to previous submission, otherwise "false"	M	1					x
A.7.2	Description of change	Text	Description of changes [in the context of the Dataset]	C	0..1	M if change = "true"				x

Reference	Element	Specification	Description	Requirement	Cardinality	Comments for requirement	Art.	Existing reporting obligation	INSPIRE Element	new element
H.3	Date	Date	Date when dataset was made available	M	1					
H.3.1	Reporting start date	Timestamp	Start of the reporting	M	1				x	
H.3.2	Reporting end date	Timestamp	End of the reporting	M	1				x	
H.4	*General Information on air quality plan*			C	0..1	M if change = "true"		Dir. 2008/50/EC Art. 23 and 24 Dec. 2004/224/EC		
H.4.0	Plan Identifier	Identifier	Unique identifier for the Zone Could actually be the ZoneCode in the localID. Namespace will always be reporting organisation	M	1		6	Dec. 2004/224/EC Form 1		x
A.8.1	localID	Text	A unique identifier for the element. A description of what is to go in the localID will be given where the identifier datatype is used.	M	1				x	x
A.8.2	namespace	Text	Namespace of the reporting organisation. This will be provided by the Commission.	M	1				x	x
A.8.3	versionID	Text		C	0..1	M if the dataset being referred to by localID has changed			x	x
H.4.1	Air Quality plan: Code	Text	A unique reference to AQ plan provided by the Member States starting with the 2-digit country code according to ISO 3166-1	M	1					
H.4.2	Air Quality Plan: Name	Text	Original Name of AQ-plan (s)	M	1					
H.4.4	Competent authority	Contact Details	Data type *Contact Details*	M	1			Dec. 2004/224/EC Form 1		
A.1.1	Name of the responsible authority, institution or body	Text	The official and complete name of the body (institution, company ...) in charge for a specific reporting obligation	M	1				x	
A.1.2	Web address	URL		C	1	M when available			x	
A.1.3	Name of responsible person	Text		M	1			2004/461/EC Form 1	x	
A.1.4	Address	Text	Postal address: Unambiguous and complete address including ZIP code	M	1			2004/461/EC Form 1	x	
A.1.5	Telephone number	Text	Complete numbers including country and area codes.	M	1			2004/461/EC Form 1	x	
A.1.6	E-mail	Text		M	1			2004/461/EC Form 1	x	
H.4.5	Air Quality Plan: Reference year of first exceedance	Date	Year of the (first) exceedance of LV (+MoT) which triggered the implementation of the AQ Plan	M	1			2004/224/EC Form 1		
H.4.6	Air Quality Plan: Status	Menu	See codelist *Status AQ-Plan* • *in preparation* • *in formal adoption process* • *First year of implementation, adopted during reporting year* • *Implementation* • *Under revision* • *Ended, no revision foreseen.* *Under implementation minor modifications of the adopted plan may occur and do not need to be reported through the full information on AQ plan*	M	1					
H.4.7	Air Quality Plan: Pollutants covered	Menu	See codelist *Pollutants* *List of pollutants that the plan covers*	M	1..*					
H.4.7.1	Designated Pollutant	Menu	See codelist *Pollutants*	M	1		6	2004/224/EC Form 2		x
H.4.7.2	Protection Target	Menu	See codelist *Protection Target*	M	1		6			x
H.4.8	Air Quality Plan: Date of official adoption	Date	Can only be given if the status is not "in preparation" or "in formal adoption process".	C	1	M if AQ Plan has already been adopted				
H.4.9	Air Quality Plan: Timetable of implementation	Text	Short description of timetable for the implementation of the measures comprises in the AQ Plan.	M	1					
H.4.10	Reference to AQ Plan	URL	Website where the last version of full AQ plan can be accessed, and where information on the implementation of the AQ plan can be found.	M	1			Dec. 2004/224/EC Form 1		
H.4.11	Reference to implementation	URL	Website where information about the implementation of the AQ Plan can be found	M	1					
H.5	Relevant Publication	Publication	Data type *Publication* Documentation of the publication of the AQ Plan.	M	1..*					
A.6.1	Publication	Text	Short description of the publication. ISBN number should be provided if available.	M	1					
A.6.2	Title	Text	Title as written in the publication.	M	1					
A.6.3	Author(s)	Text	If there are multiple authors, please provide in one field separated by commas	V	0..1					
A.6.4	Publication date	year	YYYY ISO Format, described under "1. STRUCTURE OF THE TABLES "DATATYPES" AND "DATASETS""	M	1	only when pubblication is to be reported				
A.6.5	Publisher	Text	Publishing institution, academic journal, etc.	M	1	only when pubblication is to be reported				
A.6.6	Web link	URL	web link to documentation	V	0..1					

Reference	Element	Specification	Description	Requirement	Cardinality	Comments for requirement	Art.	Existing reporting obligation	INSPIRE Element	new element
H.6	Code of the relevant exceedance situation(s)	Link	Link to G.5 An AQ Plan is triggered by one or more exceedance situations. An exceedance situation describes the area where an environmental objective is exceeded and refers to a specified time period.	M	1..*			Dec. 2004/224/EC Form 2		
H.7	Comment	Text	Further clarification if necessary. If the plan is replacing some existing plans changing code due to change in governance, scope, spatial extent etc., their codes should be identified here	V	0..1					
(I)Quantitativesourceapportionment			*Where the exceedance situation covers a distinct geographical area (as opposed to a point exceedance at a monitoring site) the source apportionment in the exceedance area at the location of highest measured or modelled concentration should be given.*					Dec. 2004/224/EC Form 2		
I.0	Source apportionment identifier	Identifier	Unique identifier for air quality plan	M				Dec. 2004/224/EC Form 2		
A.8.1	localID	Text	A unique identifier for the element. A description of what is to go in the localID will be given where the identifier datatype is used.	M	1				x	x
A.8.2	namespace	Text	Namespace of the reporting organisation. This will be provided by the Commission.	M	1				x	x
A.8.3	versionID	Text		C	0..1	M if the dataset being referred to by localID has changed			x	x
I.1	Code(s) of exceedance situation	Link	Link to G.5 If the exceedance refers to a limit value or target value described as a number of values above a threshold, the quantitative source apportionment shall refer to the corresponding percentile.	M	1			Dir. 2008/50/EC Annex XV Dec. 2004/224/EC Sheet 3		
I.2	Reference year	Year	Reference year for which source apportionment has been applied A source apportionment referring to an NO2 exceedance has to be provided as NOx.	M	0..1			Dir. 2008/50/EC Annex XV Dec. 2004/224/EC Sheet 3		
I.3	*Regional background* - Split of total regional background in µg/m³		*The regional background level is the concentration of pollutants on a spatial scale of more than about 50 km. It comprises contributions from outside the exceedance area, but also from sources within the exceedance area. The regional background has to be split, if appropriate data are available, into domestic (from within the MS affected) and transboundary contributions.*	*M*	*1*			Dir. 2008/50/EC Annex XV Dec. 2004/224/EC Sheet 3		
I.3.1	Regional background: Total	Quantification	µg/m³	*M*	*1*			Dec. 2004/224/EC Sheet 3		
A.12.1	Quantification numerical	Number		M	1					
A.12.2	Unit of quantification	UoM		M	1					
I.3.2	Regional background: From within Member State	Quantification	µg/m³	M	1			Dec. 2004/224/EC Sheet 3		
A.12.1	Quantification numerical	Number		M	1					
A.12.2	Unit of quantification	UoM		M	1					
I.3.3	Regional background: Transboundary	Quantification	µg/m³	M	1			Dec. 2004/224/EC Sheet 3		
A.12.1	Quantification numerical	Number		M	1					
A.12.2	Unit of quantification	UoM		M	1					
I.3.4	Regional background: Natural	Quantification	For the purpose of this source apportionment, only those sources with natural origin which are strictly independent of human activity can be listed under "natural". E.g., dust resuspended from roads, even if having Saharan origin, must be listed under "traffic"; wind-blown dust from crop fields must be listed under "agriculture".	M	1			Dec. 2004/224/EC Sheet 3		
A.12.1	Quantification numerical	Number		M	1					
A.12.2	Unit of quantification	UoM	µg/m³	M	1					
I.4	*Estimate of split for urban increment in µg/m³*		*The urban background level represents the concentrations within towns or agglomerations, wich are determined by the total emissions of the town or agglomerations, but not directly by local emissions.*	M	1			Dir. 2008/50/EC Annex XV Dec. 2004/224/EC Sheet 3		
I.4.1	Urban background increment: Total	Quantification	µg/m³	M	1			Dec. 2004/224/EC Sheet 3		
A.12.1	Quantification numerical	Number		M	1					
A.12.2	Unit of quantification	UoM		M	1					
I.4.2	Urban background increment: Traffic	Quantification	Road traffic emissions only (excludes emissions from off road mobile machinery)	M	1			Dec. 2004/224/EC Sheet 3		
A.12.1	Quantification numerical	Number		M	1					

Reference	Element	Specification	Description	Requirement	Cardinality	Comments for requirement	Art.	Existing reporting obligation	INSPIRE Element	new element
A.12.2	Unit of quantification	UoM	µg/m³	M	1					
I.4.3	Urban background increment: Industry including heat and power production	Quantification	Emissions arising directly from industrial processes and combustion (e.g. sinter plants, BOS furnaces). This excludes emissions from off road mobile machinery used in industry. Because industry is such a broad category, a page reference to where the relevant information about the relative contribution of different processes can be found in the full air quality plan should be given.	M	1			Dec. 2004/224/EC Sheet 3		
A.12.1	Quantification numerical	Number		M	1					
A.12.2	Unit of quantification	UoM	µg/m³	M	1					
I.4.4	Urban background increment: Agriculture	Quantification	Emissions arising directly from agricultural activities (e.g. chicken farming). This excludes emissions from off road mobile machinery used in agriculture	M	1			Dec. 2004/224/EC Sheet 3		
A.12.1	Quantification numerical	Number		M	1					
A.12.2	Unit of quantification	UoM	µg/m³	M	1					
I.4.5	Urban background increment: commercial and residential	Quantification	Emissions from commercial or residential heating (e.g. domestic boilers). This excludes emissions from off road mobile machinery used in commercial and residential sectors.	M	1			Dec. 2004/224/EC Sheet 3		
A.12.1	Quantification numerical	Number		M	1					
A.12.2	Unit of quantification	UoM	µg/m³	M	1					
I.4.6	Urban background increment: Shipping	Quantification	Emissions from shipping (excludes emissions from off road mobile machinery used at ports).	M	1			Dec. 2004/224/EC Sheet 3		
A.12.1	Quantification numerical	Number		M	1					
A.12.2	Unit of quantification	UoM	µg/m³	M	1					
I.4.7	Urban background increment: Off road mobile machinery	Quantification	This includes off road mobile machinery used in industry, agriculture, commercial and residential sectors and shipping.	M	1			Dec. 2004/224/EC Sheet 3		
A.12.1	Quantification numerical	Number		M	1					
A.12.2	Unit of quantification	UoM	µg/m³	M	1					
I.4.8	Urban background increment: Natural	Quantification	Sources which are not influenced by human activity, e.g., dust resuspended from roads, even if having Saharan origin, must be listed under "traffic"; wind-blown dust from crop fields must be listed under "agriculture".	M	1			Dec. 2004/224/EC Sheet 3		
A.12.1	Quantification numerical	Number		M	1					
A.12.2	Unit of quantification	UoM	µg/m³	M	1					
I.4.9	Urban background increment: Transboundary	Quantification	Transboundary (related to national boundaries) contributions to the urban background level	M	1			Dec. 2004/224/EC Sheet 3		
A.12.1	Quantification numerical	Number		M	1					
A.12.2	Unit of quantification	UoM	µg/m³	M	1					
I.4.10	Urban background increment: Other	Quantification		V	0..1			Dec. 2004/224/EC Sheet 3		
A.12.1	Quantification numerical	Number		M	1					
A.12.2	Unit of quantification	UoM	µg/m³	M	1					
I.5	*Estimate of split for local increment in µg/m³*		*The local increment identifies contributions from sources in the immediate vicinity. The local increment can be estimated as the difference between the concentration measured or modelled at the location of exceedance and the urban background level.*	M	1			Dir. 2008/50/EC Annex XV Dec. 2004/224/EC Sheet 3		
I.5.1	Local increment: Total	Quantification	µg/m³	M	1			Dec. 2004/224/EC Sheet 3		
A.12.1	Quantification numerical	Number		M	1					
A.12.2	Unit of quantification	UoM		M	1					
I.5.2	Local increment: Traffic	Quantification	Road traffic emissions only (excludes emissions from off road mobile machinery)	M	1			Dec. 2004/224/EC Sheet 3		
A.12.1	Quantification numerical	Number		M	1					

Reference	Element	Specification	Description	Requirement	Cardinality	Comments for requirement	Art.	Existing reporting obligation	INSPIRE Element	new element
A.12.2	Unit of quantification	UoM	µg/m³	M	1					
I.5.3	Local increment: Industry including heat and power production	Quantification	Emissions arising directly from industrial processes and combustion (e.g. sinter plants, BOS furnaces). This excludes emissions from off road mobile machinery used in industry. Because industry is such a broad category, a page reference to where the relevant information about the relative contribution of different processes can be found in the full air quality plan should be given.	M	1			Dec. 2004/224/EC Sheet 3		
A.12.1	Quantification numerical	Number		M	1					
A.12.2	Unit of quantification	UoM	µg/m³	M	1					
I.5.4	Local increment: Agriculture	Quantification	Emissions arising directly from agricultural activities (e.g. chicken farming). This excludes emissions from off road mobile machinery used in agriculture	M	1			Dec. 2004/224/EC Sheet 3		
A.12.1	Quantification numerical	Number		M	1					
A.12.2	Unit of quantification	UoM	µg/m³	M	1					
I.5.5	Local increment: Commercial and residential	Quantification	Emissions from commercial or residential heating (e.g. domestic boilers). This excludes emissions from off road mobile machinery used in commercial and residential sectors.	M	1			Dec. 2004/224/EC Sheet 3		
A.12.1	Quantification numerical	Number		M	1					
A.12.2	Unit of quantification	UoM	µg/m³	M	1					
I.5.6	Local increment: Shipping	Quantification	Emissions from shipping (excludes emissions from off road mobile machinery used at ports).	M	1			Dec. 2004/224/EC Sheet 3		
A.12.1	Quantification numerical	Number		M	1					
A.12.2	Unit of quantification	UoM	µg/m³	M	1					
I.5.7	Local increment: Off road mobile machinery	Quantification	This includes off road mobile machinery used in industry, agriculture, commercial and residential sectors and shipping.	M	1			Dec. 2004/224/EC Sheet 3		
A.12.1	Quantification numerical	Number		M	1					
A.12.2	Unit of quantification	UoM	µg/m³	M	1					
I.5.8	Local increment: Natural	Quantification	Sources which are not influenced by human activity, e.g. E.g., dust resuspended from roads, even if having Saharan origin, must be listed under "traffic"; wind-blown dust from crop fields must be listed under "agriculture".	M	1			Dec. 2004/224/EC Sheet 3		
A.12.1	Quantification numerical	Number		M	1					
A.12.2	Unit of quantification	UoM	µg/m³	M	1					
I.5.9	Local increment: Transboundary	Quantification	Transboundary (related to national boundaries) contributions to the local hot-spot level	M	1			Dec. 2004/224/EC Sheet 3		
A.12.1	Quantification numerical	Number		M	1					
A.12.2	Unit of quantification	UoM	µg/m³	M	1					
I.5.10	Local increment Other	Quantification	µg/m³	V	0..1			Dec. 2004/224/EC Sheet 3		
A.12.1	Quantification numerical	Number		M	1					
A.12.2	Unit of quantification	UoM		M	1					
I.6	Comments	Text	Comments on clarification, e.g. information on primary NO_2	V	0..1			Dec. 2004/224/EC Sheet 3		
(J) Dataset "Evaluation-Baseline and projection"								Dec. 2004/224/EC Sheet 4		
J.1	*General information*							Dec. 2004/224/EC Sheet 4		
J.1.0	Evaluaton Scenario identifier	Identifier	Unique identifier for air quality plan	M				Dec. 2004/224/EC Sheet 4		
A.8.1	localID	Text	A unique identifier for the element. A description of what is to go in the localID will be given where the identifier datatype is used.	M	1				x	x
A.8.2	namespace	Text	Namespace of the reporting organisation. This will be provided by the Commission.	M	1				x	x

Reference	Element	Specification	Description	Requirement	Cardinality	Comments for requirement	Art.	Existing reporting obligation	INSPIRE Element	new element
A.8.3	versionID	Text		C	0..1	M if the dataset being referred to by localID has changed			x	x
J.1.1	Code of exceedance situation	Link	Link to G.5	M	1			Dec. 2004/224/EC Sheet 4		
J.1.2	Code of Scenario	Text	Description of baseline scenario	M	1					
J.1.3	Code of AQ Plan	Link	Link to H	M	1					
J.1.4	Relevant publication	Publication	See data type *Publication* *Documentation of publication with documentation of the Scenario (can be identical with the AQ Plan referenced in J.1.3).*	M	1..*					
J.1.5	Attainment year for which the projection starts	Year	Year for which the projections are developed	M	1					
J.1.6	Start year	Year	Reference year from which the projections are started and for which the source apportionment is available	M	1					
J.1.7	Source apportionment	Link	Link to I Reference to source apportionment.	M	1					
J.2	*Baseline scenario*		*The baseline prognosis should represent the 'business as usual' scenario, which includes the effect of existing measures and of measures that have already been decided to reduce pollution, e.g. directives to reduce emissions per vehicle, and also the development in pollution activities, e.g. traffic growth.* *Typically, a prognosis of the baseline concentration at the location of the exceedance requires model calculations in which the future development of the regional background level, the total background level and the local source contributions are taken into account. For the future trend in the regional background, results of model calculations by EMEP [http://www.emep.int] could be used, although these results should not be copied blindly. It is not possible to make general recommendations about how best to estimate the developments in the contribution of nearby sources (within about 30 km). If feasible, model calculations could be done to calculate the contribution of these sources. In these calculations a high level of detail would be needed for the contribution of the sources that contribute strongly to the exceedance, e.g. a street model should be used for calculating the concentration at the kerb along a busy road. In this example, the changes in traffic intensities and emission factors need to be taken into account.*	*M*	*1*			Dec. 2004/224/EC Sheet 4		
J.2.1	Baseline: Included measures identified in the AQ-plan	Link	*Link to K.2* *Measures identified in the AQ-plan that are included in this baseline projection. Please specify measures explicitly identified in the AQ plan and introduced in the reported information that are included in this baseline projection*	M	1..*			Dec. 2004/224/EC Sheet 4		
J.2.2	Baseline: Description of the emission scenario	Text	Description of the emission scenario used for the baseline analysis. The description of the emission scenario is given in free text. In this text, the assumptions regarding the emission scenarios are described. Preferably a reference to background material is given.	M	1					
J.2.3	Baseline: Total emissions in the relevant area (kt/yr)	Quantification	Emissions in the area addressed by the AQ Plan, Short-term Action Plan, or single measure. Projected emission should not take into account reduction due to measures that are not in the baseline.	M	1					
A.12.1	Quantification numerical	Number		M	1					
A.12.2	Unit of quantification	UoM	kt/yr	M	1					
J.2.4	Baseline: Expected concentration levels in the projection	Quantification	Expected concentration levels in the projection year under baseline scenario. Annual mean value in µg/m³	C	0..1	M if environmental objective is an average, or percentile		Dec. 2004/224/EC Sheet 4		
A.12.1	Quantification numerical	Number		M	1					
A.12.2	Unit of quantification	UoM	µg/m³	M	1					
J.2.5	Baseline: Expected exceedances in the projection year	Number	Expected concentration levels in the projection year under baseline scenario. Number of exceedances (related to the environmental objective specified in the exceedance situation description) per calendar year	C	0..1	M if environmental objective is given as a number of exceedances per year		Dec. 2004/224/EC Sheet 4		
J.2.6	Comments for clarification	Text		V	0..1					
J.3	*Projection scenario for the attainment year (for each exceedance situation including only fully committed measures)*			*M*	*1*			Dir. 2008/50/EC Annex XV Dec. 2004/224/EC Sheet 5		
J.3.1	Included measures identified in the AQ-plan that are included in this projection	Menu	*Link to K.2* *Please specify measures explicitly identified in the AQ plan and introduced in the reported information that are included in this projection*	M	1..*					
J.3.2	Projection: Description of the emission scenario.	Text	Description of the emission scenario used for the projection. The description of the emission scenario is given in free text. In this text, the assumptions regarding the emission scenarios are described. Preferably a reference to background material is given.	M	1					
J.3.3	Projection: Total emissions in the relevant area (kt/yr)	Quantification	Projected emission should take into account reduction due to measures that are not in the baseline.	M	1			Dec. 2004/224/EC Sheet 5		
A.12.1	Quantification numerical	Number		M	1					

Reference	Element	Specification	Description	Requirement	Cardinality	Comments for requirement	Art.	Existing reporting obligation	INSPIRE Element	new element
A.12.2	Unit of quantification	UoM	kt/yr	M	1					
J.3.4	Projection: Expected levels in the projection year	Quantification	Expected levels in the projection year under projection scenario. Annual mean value in µg/m³	C	0..1	M if environmental objective is an average, or percentile		Dec. 2004/224/EC Sheet 5		
A.12.1	Quantification numerical	Number		M	1					
A.12.2	Unit of quantification	UoM	µg/m³	M	1					
J.3.5	Projection: Expected exceedances in the projection year	Number	Expected levels in the projection year under projection scenario. Number of exceedances (related to the environmental objective specified in the exceedance situation description) per calendar year	C	0..1	M if environmental objective is given as a number of exceedances per year		Dec. 2004/224/EC Sheet 5		
J.3.6	Comments for clarification	Text		V	0..1			Dec. 2004/224/EC Sheet 5		
(K)Dataset"Documentationofmeasures"								Dir. 2008/50/EC Annex XV Dec. 2004/224/EC Sheet 5 and 7		
K.0	Measure identifier	Identifier	Unique identifier for air quality plan	M				Dir. 2008/50/EC Annex XV Dec. 2004/224/EC Sheet 5 and 7		
A.8.1	localID	Text	A unique identifier for the element. A description of what is to go in the localID will be given where the identifier datatype is used.	M	1				x	x
A.8.2	namespace	Text	Namespace of the reporting organisation. This will be provided by the Commission.	M	1				x	x
A.8.3	versionID	Text		C	0..1	M if the dataset being referred to by localID has changed			x	x
K.1	*Link to exceedance situation*							Dec. 2004/224/EC Sheet 5		
K.1.1	Code of exceedance situation	Link	*Link to G.5*	M	1..*			Dec. 2004/224/EC Sheet 5		
K.1.2.	Code of Air Quality Plan	Link	*Link to H.4*	M	1..*			Dec. 2004/224/EC Sheet 5		
K.1.3	Code of Evaluation Scenario	Link	*Link to J.2*	V	0..*					
K.2	*Description of measures*			M	*1*			Dec. 2004/224/EC Sheet 7		
K.2.1	Measure: Code	Text	Unique code of the measure	M	1					
K.2.2	Measure: Name	Text	Descriptive Title of the measure	M	1					
K.2.3	Measure: Description	Text	Short description of the measure	M	1			Dec. 2004/224/EC Sheet 7		
K.2.4	Measure: classification	Menu	See *codelist Measure Classification*	M	1					
K.2.5	Measure: type	Menu	See codelist *Measure types*	M	1			Dec. 2004/224/EC Sheet 7		
K.2.6	Measure: Administrative level	Menu	See codelist *Administrative Level* *Administrative level responsible for implementation of the measure.*	M	1..*					
K.2.7	Measure: Time scale	Menu	See codelist *Time Scale* *Time scale for implementation of the measure.*	M	1					
K.2.8	*Costs*		*Estimated costs for the implementation of the measure over the whole implementation period.*	C	0..1	M if available		Dec. 2004/224/EC Sheet 7		
K.2.8.1	Estimated Implementation costs	Number	The estimated total costs include also the costs borne by the sector(s) affected	M	1					
K.2.8.2	Implementation costs final/updated	Number	The estimated total costs include also the costs borne by the sector(s) affected	V	0..1					
K.2.8.3	Currency	Menu	see codelist *currency of costs*	M	1					
K.2.9	Measure: Affected Source sector(s)	Menu	See codelist *Source Sectors* *Source sector(s) affected by the measure.*	M	1..*			Dec. 2004/224/EC Sheet 7		
K.2.10	Measure: Spatial scale	Menu	See codelist *Spatial Scale* *Spatial scale of the sources affected*	M	1..*					
K.2.11	*Planned Implementation*		Information about the time frame of the implementation of the measure.	M	1					
K.2.11.1	Implementation status	Menu	See codelist *Measure Implementation Status*	V	0..1					
K.2.11.2	Implementation planned start date	Date		M	1					
K.2.11.3	Implementation actual start date	Date		V	0..1					
K.2.11.4	Implementation planned end date	Date		M	1					
K.2.11.5	Implementation actual end date	Date		V	0..1					

Reference	Element	Specification	Description	Requirement	Cardinality	Comments for requirement	Art.	Existing reporting obligation	INSPIRE Element	new element
K.2.11.6	Date when the measure is planned to take full effect	Date		M	1			Dec. 2004/224/EC Sheet 4		
K.2.11.7	Other key implementation dates	Text	Key adoption/implementation dates with short description	M	1					
K.2.11.8	Indicator(s) for monitoring the progress	Text	For monitoring the effectiveness of a measure, it is usually not sufficient to just follow how concentration level changes, as the change may be due to other causes. Hence, it is important to follow the progress of the measures with suitable indicators that relate more directly to the measure Examples of indicators are: - have the planned parking fees been implemented [y/n] and to what extent [number of parking places affected]; - has the planned permit revision been implemented [y/n]; - how much has the traffic volume on a road gone down [% heavy duty vehicles].	M	1					
K.2.12	Reduction in emissions due to applied measure	Quantification	Reduction of total yearly emissions attributable to the measure; to be given in kt/yr	M	1					
A.12.1	Quantification numerical	Number		M	1					
A.12.2	Unit of quantification	UoM	kt/yr	M	1					
K.2.13	*Expected impact on ambient concentrations*			C	0..1	M if available				
K.2.13.1	Expected impact in level of concentrations in the Projection year	Quantification	A reduction in concentration level is to be given as a positive number. For annual mean metrics this reduction should be presented in µg/m³ at the monitoring site where the highest levels are recorded. Where there is an exceedance situation without a monitoring site, the point of highest modelled concentrations should be used. Deviation from this rule has to be indicated and explained. To be given in µg/m³.	C	0..1	M if available				
A.12.1	Quantification numerical	Number		M	1					
A.12.2	Unit of quantification	UoM	µg/m³.	M	1					
K.2.13.2	Expected impact in number of exceedances in the Projection year	Number	For short-term limit values this should be presented as the expected reduction in number of exceedences.	C	0..1	M if available		Dec. 2004/224/EC Sheet 4		
K.2.13.3	Speficiation of hours or days	Menu	see codelist Time unit This element specifies if the "Expected impact in number of exceedances in the Projection year" refers to hours or days	C	0..1	M if "Expected impact in number of exceedances in the Projection year" is given				
K.2.14	Comments for clarification	Text		V	0..1					