

**EP**

United Nations Environment Programme



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ENGLISH



MEDITERRANEAN ACTION PLAN

Seventh Meeting on Reporting under
the Barcelona Convention and its Protocols

Istanbul, Turkey, 21-22 May 2007

MONITORING REPORTING FORMAT

I. SUMMARY TABLE OF MONITORING PROGRAMME (AREAS) (Art. 13.(b) Data resulting from monitoring)

AREA		NUMBER OF STATIONS								
Area Code	Location/ Area Name	Compliance Monitoring				(State and) Trend Monitoring				Total
		Effluents	Hot Spot Areas	Bathing Waters	Other Health Related Conditions	Coastal Zone and Reference	Hot Spots	Loads	Biological Effects	

* Two stations are geographically identical i.e., there is one station for each area

G.1b

I. SUMMARY TABLE OF STATIONS (other than for Bathing Waters)

[illegible]

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II. COLLABORATING INSTITUTES

Instit. No	Institute Name	Address Tel., Fax., E-mail	Responsible Investigator	Main Monitoring Activity	Higher Body
1					
2					
3					

II. COLLABORATING INSTITUTES

Instit. No	Institute Name	Address Tel., Fax., E-mail	Responsible Investigator	Main Monitoring Activity*	Higher Body
4					
5					
6					

III. COMPLIANCE MONITORING

HEALTH-RELATED CONDITIONS

SANITARY QUALITY OF BATHING WATERS

Monitoring of bathing waters (Institute of Public Health)

& Objective: to verify whether the sanitary quality of bathing areas comply with relevant national regulations (.....) and the Common Measure adopted by the Contracting Parties (MAP/TRS No. 95)

Area Code	Station Code	Parameter/Group*	Sampling Frequency	Sampling Period		Monitoring Institute
				Begin	End	

* see appendix for parameter/group codes

IV. (STATE AND) TRENDS MONITORING

COASTAL AND REFERENCE AREAS

Monitoring in Coastal and Reference Areas

Objective: to provide assessment of the state and trends of the levels of chemicals contaminants as well as level of nutrients and eutrophication and of the overall status of the marine environment

Area Code	Station Code	Location and Station Description	Station Type	Matrix and Species*		Parameter/ Group*	Sampling Frequency	Sampling Depth Information	Monitoring Institute
				Matrix	Species				

* see appendix for matrix/species and parameter group codes

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IV. (STATE AND) TRENDS MONITORING

HOT SPOT AREAS CONTAMINANTS MONITORING

Monitoring of Contaminants in Hot Spot Areas

Objective: to provide assessment of the (state and) trends of the levels of contaminants in biota, sediments and water as well as level of nutrients in water and of eutrophication in hot spot areas

Area Code	Station Code	Location and Station Description	Matrix and Species*		Parameter/ Group*	Sampling Frequency	Sampling Depth Information	Monitoring Institute
			Matrix	Species				

* See appendix for codes

IV. (STATE AND) TRENDS MONITORING

BIOLOGICAL EFFECTS MONITORING

Biological effects monitoring (form not applicable to behavioural community or ecosystem monitoring)

Objective: to establish an early warning system for general and specific stress of pollution on ecosystem

Area Code	Station Code	Location and Station Description	Type of indices	Method (biomarker)	Species and Tissue*		Sampling Frequency	Monitoring Institute
					Species	Tissue		

* See appendix for codes

V. STATION CHARACTERISTICS

COMPLIANCE MONITORING OF HEALTH-RELATED CONDITIONS SANITARY QUALITY OF BATHING WATERS

Bathing Waters Stations (Institute of Public Health)

[illegible]

V. STATION CHARACTERISTICS

**TREND MONITORING
COASTAL AND REFERENCE AREAS**

Coastal and Reference Stations

[illegible]

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V. STATION CHARACTERISTICS

TREND MONITORING IN HOT SPOTS

Contaminants in biota, sediments, and water as well as nutrients in water and state of eutrophication

Area Code	Station Code	Station Location and Description	Source Type ¹	Latitude (DD,MM,SS,P)	Longitude (DD,MM,SS,P)	Bottom Depth (m)	Distance from Shore (m)

¹ Municipal, Industrial (including type of industry), other (please specify)

V. STATION CHARACTERISTICS

BIOLOGICAL EFFECTS MONITORING

Biological Effects Stations

[illegible]

APPENDIX

LIST OF CODES OF SPECIES

Species	Species Code
<i>Boops boops</i>	BB
<i>Dicentrarchus labrax</i>	DL
<i>Donax trunculus</i>	DT
<i>Mactra corralina</i>	MC
<i>Mullus barbatus</i>	MB
<i>Mullus surmuletus</i>	MS
<i>Mytilus galloprovincialis</i>	MG
<i>Octopus vulgaris</i>	OP
<i>Parapenaeus longirostris</i>	PL
<i>Penaeus kerathurus</i>	PK
<i>Sepia officinalis</i>	SO
<i>Sardina pilchardus</i>	SP
<i>Scomber scomber</i>	SS
<i>Tapes decussatus</i>	TD

LIST OF CODES OF TISSUE

Tissue	Code
Digestive gland	DG
Fillet (fish)	FI
Liver	LI
Whole soft tissue	WST

LIST OF CODES OF PARAMETER GROUPS

Description	Parameter Group Code
Microbiological Indicators	MB
Basic Geochemical Measurements	BGM
Basic Oceanographic Parameters	BOP
Halogenated Hydrocarbons	HH
Heavy Metals	HM
Basic Meteorological Parameters	MET
Nutrients	NUT
Polyaromatic Hydrocarbons	PAH
Standard Parameters	SP
Radionuclides	RD
Water flow rate	Q

Microbiological Indicators (code MB)

Parameter	Code
Faecal Coliforms	FC
Faecal Streptococci	FS
Total Coliforms	TC

MATRICES TO BE MONITORED

The most common matrices that could be included in Monitoring Programmes are:

Matrix	Code	Description
Effluents	EFF	Effluents reaching the marine environment from industrial plants, municipal sewerage systems and agricultural drainage channels
Waters, Sediments, Biota	WAT SED BIO	Waters, sediments and biota (which also include individuals, populations and communities of marine mammals and birds) of marine coastal zones and estuaries which are, or are likely to be, under direct impact of identifiable point or non-point source(s) of pollution.
Atmosphere	ATM	Atmosphere through which pollutants may enter the marine environment and thus affect its quality.
Humans	HUM	Humans who may be affected by pollutants through direct or indirect exposure to polluted marine media, or products (e.g. food) derived from such media.

Halogenated Hydrocarbons (code: HH+)

Class of contaminants	Parameter / Contaminant	Code
DDT and metabolites	op-DDE	DDEO
	op-DDD	DDDO
	op-DDT	DDTO
	pp-DDE	DDEP
	pp-DDD	DDDP
	pp-DDT	DDTP
	sum of DDTs (op-DDE op-DDD op-DDT pp-DDE pp-DDD pp-DDT	DDTS
Chlorobiphenyls	individual chlorobiphenyl 28	CB28
	individual chlorobiphenyl 52	CB52
	individual chlorobiphenyl 101	CB101
	individual chlorobiphenyl 138	CB138
	individual chlorobiphenyl 153	CB153
	individual chlorobiphenyl 180	CB180
	sum of CBs 28 52 101 138 153 180	CBS
Drins	Aldrin	ALD
	Dieldrin	DIE
	Endrin	END
	sum of Aldrin, Dieldrin, Endrin	DSRI
Hexachlorocyclohexane	α	HCHA
	β	HCHB
	δ	HCHD
	γ (lindane)	LIND
Others	Hexachlorobenzene	HCB
	Heptachlor epoxide	HEP

Part V Implementation of Monitoring Programme

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Table 1
BIOTA (TRACE METALS) DATA REPORTING TABLE for MEDPOL Phase III

Fields	Requisit	Description	Format	Units
SAMPLE_ID	Mandatory	Sample reference code given by the laboratory		
YEAR	Mandatory	Monitoring Year	NUM (4)	
COUNTRY	Mandatory	Country Code (MED POL Codes)	CHAR (3)	
AREA	Mandatory	Area Code (as used in Phase III Agreement)	CHAR (6)	
STATION	Mandatory	Station Code (as used in Phase III Agreement)	CHAR (6)	
STATION_TYPE	Mandatory	for Hot Spots (H), Coastal (C), Reference (R)	CHAR (2)	
SAMP_DATE	Mandatory	Date of Sampling	DATE	
LON_DEG	Mandatory	Longitude in degrees	NUM (2)	
LON_MIN	Mandatory	Longitude minute, seconds (In case of GPS application use this field for minutes and seconds in decimals, otherwise use only for minutes)	NUM (5,2)	
LON_SEC	Mandatory	Longitude seconds (Use this field only when GPS is not used for positioning)	NUM (2)	
LON_HEMIS	Mandatory	Longitude hemisphere (codes: W=west, E=east)	CHAR (1)	
LAT_DEG	Mandatory	Latitude degree	NUM (2)	
LAT_MIN	Mandatory	Latitude minute, seconds (In case of GPS application use this field for minutes and seconds in decimals, otherwise use only for minutes)	NUM (5,2)	
LAT_SEC	Mandatory	Latitude seconds (Use this field only when GPS is not used for positioning)	NUM (2)	
BOT_DEPTH	Mandatory	Bottom depth of the sampling station	NUM (5,1)	m
SAM_DEPTH	Mandatory	Sampling depth	NUM (5,1)	m
SAM_TEMP	Mandatory	Temperature at the sampling station and depth	NUM (5,2)	Deg C
SAM_SALIN	Mandatory	Salinity at the sampling station and depth	NUM (5,2)	
SAM_DO	Additional	Dissolved oxygen at the sampling station and depth	NUM (5,2)	mg/L
SPECY	Mandatory	Selected Specie for analysis (MED POL codes)	CHAR (2)	
TISSUE	Mandatory	Selected Tissue for analysis (MED POL codes)	CHAR (2)	
SAM_NO	Mandatory	Sample no. (1,...n) ("n"as used in trend objectives of the programme)	NUM (2)	
NS	Mandatory	Number of specimens (=num.Of pooled organisms in a sample)	NUM (2)	
LENGTH_AVG	Mandatory	Average length of specimens in a pool (Important: Use "fork length" for fish and "shell length" for mussels)	NUM (7,2)	cm
LENGTH_STD	Mandatory	Standard deviation of average length of specimens in a pool	NUM (6,2)	cm
LENGTH_UNIT	Mandatory	Unit given for length of organisms	CHAR (5)	
WEIGHT_AVG	Mandatory	Average weight of specimens in a pool	NUM (8,1)	grams
WEIGHT_STD	Mandatory	Standard deviation of average weight of specimens in a pool	NUM (7,1)	grams
WEIGHT_UNIT	Mandatory	Unit given for weight of organisms	CHAR (5)	
EOM	Additional	Extractable Organic Matter	NUM (5,2)	mg/g
EOM_UNIT		Unit for EOM	CHAR (5)	
DW / FW	Additional	Ratio of dry weight to fresh weight (dried to constant temperature)	NUM (5,2)	%
INST_CODE_TM	Mandatory	Trace Metal Institute code (Country code+institute no. given in the MEDPOL Phase III Agreement)	CHAR(5)	
ANALY_DATE_TM	Mandatory	TM Analysis Date	DATE	
ANALY_METH_TM	Mandatory	TM Analysis method (MED POL codes)	CHAR (5)	
FW_DW	Mandatory	Mention if concentrations are based on fresh or dry weight (code as "F" for fresh weight and "D" for dry weight)	CHAR (1)	

Fields	Requisit	Description	Format	Units
AS_CONC	Additional	Arsenic concentration	NUM (7,3)	ug/kg
AS_BDL	Additional	enter BL if As conc. Is below detection limit or level of determination	CHAR (2)	
AS_DL	Additional	Detection limit value	NUM (7,3)	ug/kg
AS_UNIT	Additional	Unit for As_conc	CHAR (5)	
CD_CONC	Mandatory	Cadmium Concentration	NUM (7,3)	ug/kg
CD_BDL	Mandatory	Enter BL if Cd conc. is below detection limit or level of determination	CHAR (2)	
CD_DL	Mandatory	Detection limit value	NUM (7,3)	ug/kg
CD_UNIT	Mandatory	Unit for Cd_conc	CHAR (5)	
CR_CONC	Additional	Chromium Concentration	NUM (7,3)	ug/kg
CR_BDL	Additional	enter BL if Cr conc. Is below detection limit or level of determination	CHAR (2)	
CR_DL	Additional	Detection limit value	NUM (7,3)	ug/kg
CR_UNIT	Additional	Unit for Cr_conc	CHAR (5)	
CU_CONC	Additional	Copper concentration	NUM (7,3)	ug/kg
CU_BDL	Additional	Enter BL if Cu conc. Is below the detection limit or level of determination	CHAR (2)	
CU_DL	Additional	Detection limit value	NUM (7,3)	ug/kg
CU_UNIT	Additional	Unit for Cu_conc	CHAR (5)	
HGT_CONC	Mandatory	Total Hg concentration	NUM (7,3)	ug/kg
HGT_BDL	Mandatory	enter BL if HgT conc. is below detection limit or level of determination	CHAR (2)	
HGT_DL	Mandatory	Detection limit value	NUM (7,3)	ug/kg
HGT_UNIT	Mandatory	Unit for Hgt_conc	CHAR (5)	
PB_CONC	Additional	Lead Concentration	NUM (7,3)	ug/kg
PB_BDL	Additional	enter BL if Pb conc. Is below detection limit or level of determination	CHAR (2)	
PB_DL	Additional	Detection limit value	NUM (7,3)	ug/kg
PB_UNIT	Additional	Unit for Pb_conc	CHAR (5)	
ZN_CONC	Additional	Zinc concentration	NUM (7,3)	ug/kg
ZN_BDL	Additional	Enter BL if Zn conc. Is below the detection limit or level of determination	CHAR (2)	
ZN_DL	Additional	Detection limit value	NUM (7,3)	ug/kg
ZN_UNIT	Additional	Unit for Zn_conc	CHAR (5)	
Other Trace Metals	Additional	to be included by the laboratories depending on the country agreements		

Table 2
BIOTA (ORGANIC CONTAMINANTS) DATA REPORTING TABLE for MEDPOL Phase III

Fields	Requisit	Description	Format	Units
SAMPLE_ID	Mandatory	Sample reference code given by the laboratory		
YEAR	Mandatory	Monitoring Year	NUM (4)	
COUNTRY	Mandatory	Country Code (MED POL Codes)	CHAR (3)	
AREA	Mandatory	Area Code (as used in Phase III Agreement)	CHAR (6)	
STATION	Mandatory	Station Code (as used in Phase III Agreement)	CHAR (6)	
STATION_TYPE	Mandatory	for Hot Spots (H), Coastal (C), Reference (R)	CHAR (2)	
SAMP_DATE	Mandatory	Date of Sampling	DATE	
LON_DEG	Mandatory	Longitude in degrees	NUM (2)	
LON_MIN	Mandatory	Longitude minute, seconds (In case of GPS application use this field for minutes and seconds in decimals, otherwise use only for minutes)	NUM (5,2)	
LON_SEC	Mandatory	Longitude seconds (Use this field only when GPS is not used for positioning)	NUM (2)	
LON_HEMIS	Mandatory	Longitude hemisphere (codes: W=west, E=east)	CHAR (1)	
LAT_DEG	Mandatory	Latitude degree	NUM (2)	
LAT_MIN	Mandatory	Latitude minute, seconds (In case of GPS application use this field for minutes and seconds in decimals, otherwise use only for minutes)	NUM (5,2)	
LAT_SEC	Mandatory	Latitude seconds (Use this field only when GPS is not used for positioning)	NUM (2)	
BOT_DEPTH	Mandatory	Bottom depth of the sampling station	NUM (5,1)	m
SAM_DEPTH	Mandatory	Sampling depth	NUM (5,1)	m
SAM_TEMP	Mandatory	Temperature at the sampling station and depth	NUM (5,2)	Deg C
SAM_SALIN	Mandatory	Salinity at the sampling station and depth	NUM (5,2)	
SAM_DO	Additional	Dissolved oxygen at the sampling station and depth	NUM (5,2)	mg/L
SPECY	Mandatory	Selected Specie for analysis (MED POL codes)	CHAR (2)	
TISSUE	Mandatory	Selected Tissue for analysis (MED POL codes)	CHAR (2)	
SAM_NO	Mandatory	Sample no. (1,...n) ("n"as used in trend objectives of the programme)	NUM (2)	
NS	Mandatory	Number of specimens (=num.Of pooled organisms in a sample)	NUM (2)	
LENGTH_AVG	Mandatory	Average length of specimens in a pool (Important: Use "fork length" for fish and "shell length" for mussels)	NUM (7,2)	cm
LENGTH_STD	Mandatory	Standard deviation of average length of specimens in a pool	NUM (6,2)	cm
LENGTH_UNIT	Mandatory	Unit given for length of organisms	CHAR (5)	
WEIGHT_AVG	Mandatory	Average weight of specimens in a pool	NUM (8,1)	grams
WEIGHT_STD	Mandatory	Standard deviation of average weight of specimens in a pool	NUM (7,1)	grams
WEIGHT_UNIT	Mandatory	Unit given for weight of organisms	CHAR (5)	
EOM	Mandatory	Extractable Organic Matter	NUM (5,2)	mg/g
EOM_UNIT		Unit for EOM	CHAR (5)	
DW / FW	Additional	Ratio of dry weight to fresh weight (dried to constant temperature)	NUM (5,2)	%
INST_CODE_OC	Mandatory	Institute code for organic contaminant analysis (Country code+institute no. given in the MEDPOL Phase III Agreement)	CHAR(5)	
FW_DW	Mandatory	Mention if concentrations are based on fresh or dry weight (code as "F" for fresh weight and "D" for dry weight)	CHAR (1)	
ANALY_DATE_PAH	Additional	Analysis Date	DATE	
ANALY_METH_PAH	Additional	Analysis method(s) for PAH (MED POL codes)	CHAR (5)	
PAH_CONC	Additional	PAH+ concentration	NUM (7,3)	ug/g
PAH_BDL	Additional	enter BL if PAH conc. is below detection limit or level of determination	CHAR (2)	
PAH_DL	Additional	Detection limit value	NUM (7,3)	ug/kg

Fields	Requisit	Description	Format	Units
PAH_UNIT	Additional	Unit for PAH_conc	CHAR (5)	
ANALY_DATE_HH	Additional	Analysis Date	DATE	
ANALY_METH_HH	Additional	Analysis method(s) for halogenated hydrocarbons (MED POL codes)	CHAR (5)	
HH_CONC	Additional	HH+ concentration	NUM (7,3)	ug/g
HH_BDL	Additional	enter BL if HH+ conc. is below detection limit or level of determination	CHAR (2)	
HH_DL	Additional	Detection limit value	NUM (7,3)	ug/kg
HH_UNIT	Additional	Unit for HH_conc	CHAR (5)	
Other Organics	Additional	to be included by the laboratories depending on the country agreements		

Table 3
BIO-MONITORING DATA REPORTING TABLE for MED POL PHASE III

Fields	Description	Format	Units
SAMPLE_ID	Sample reference code given by the laboratory		
YEAR	Monitoring Year	NUM (4)	
COUNTRY	Country Code (existing coding)	CHAR (3)	
AREA	Area Code (as used in Phase III Agreement)	CHAR (6)	
STATION	Station Code (as used in Phase III Agreement)	CHAR (6)	
STATION_TYPE	for Hot Spots (H), Coastal (C), Reference (R)	CHAR (2)	
SAMP_DATE	Date of Sampling	DATE	
LON_DEG	Longitude in degrees	NUM (2)	
LON_MIN	Longitude minute, seconds (In case of GPS application use this field for minutes and seconds in decimals, otherwise use only for	NUM (5,2)	
LON_SEC	Longitude seconds (Use this field only when GPS is not used for positioning)	NUM (2)	
LON_HEMIS	Longitude hemisphere (codes: W=west, E=east)	CHAR (1)	
LAT_DEG	Latitude degree	NUM (2)	
LAT_MIN	Latitude minute, seconds (In case of GPS application use this field for minutes and seconds in decimals, otherwise use only for	NUM (5,2)	
LAT_SEC	Latitude seconds (Use this field only when GPS is not used for positioning)	NUM (2)	
BOT_DEPTH	Bottom depth of the sampling station	NUM (5,1)	m
SAMP_DEPTH	Sampling depth	NUM (5,1)	m
SAM_TEMP	Temperature at the sampling station and depth	NUM (5,2)	Deg C
SAM_SALIN	Salinity at the sampling station and depth	NUM (5,2)	
SAM_DO	Dissolved oxygen at the sampling station and depth	NUM (5,2)	mg/L
SPECY	Species Name (MEDPOL code list)	CHAR (2)	
TISSUE	Selected Tissue (MEDPOL code list)	CHAR (2)	
WILD/CAGED	If the selected organism is wild enter 'w', if caged use 'c'	CHAR (1)	
CAGE_DUR	Caging duration	NUM (2)	Days
INS_CODE_BIOMON	Institute Code for bio-monitoring (Country code+institute no. given in the MEDPOL Phase III Agreement)	CHAR (5)	
SAMPLE_NO	Sample no. (1,...)	NUM (2)	
ANALY_DATE_DNAx	Analysis Date	DATE	
ANALY_METH_DNAx	DNAx Analysis Methods (MEDPOL Code list)	CHAR (7)	
DNAx_ELUTION RATE_VOL	Fraction of DNA retained / volume	NUM (5,3)	Arbitrary units
DNAx_ELUTION RATE_TIME	Fraction of DNA retained / time	NUM (5,3)	Arbitrary units
DNAx_SSF	Strand Scission Factor	NUM (5,3)	unitless
DNAx_MICRONUCLEI	Micronuclei Frequency	NUM (5,1)	%
ANALY_DATE_EROD	Analysis Date	DATE	
ANALY_METH_EROD	EROD Analysis Method (MEDPOL code list)	CHAR (7)	
EROD_ACT	EROD Activity = pmol resofurin per mg-protein per minute	NUM ()	
ANALY_DATE_LMS	Analysis Date	DATE	
ANALY_METH_LMS	Methods of LMS Analysis (MEDPOL code list)	CHAR (7)	
LMS_LP	The average Labilization Period	NUM (2)	min

Fields	Description	Format	Units
LMS_NRR	Neutral Red Retention	NUM (2)	min
ANALY_DATE_MT	Analysis Date	DATE	
ANALY_METH_MT	MT Analysis Method (MEDPOL code list)	CHAR (7)	
MT_LEVEL	MT Level in wet Tissue (w/w)	NUM (7,2)	ug/g

Table 4
SEDIMENT (TRACE METALS) DATA REPORTING TABLE for MED POL PHASE III

Fields	Requisit	Description	Format	Unit
SAMPLE_ID	Mandatory	Sample reference code given by the laboratory		
YEAR	Mandatory	Monitoring Year	NUM (4)	
COUNTRY	Mandatory	Country Code (MED POL codes)	CHAR (3)	
AREA	Mandatory	Area Code (as used in Phase III Agreement)	CHAR (6)	
STATION	Mandatory	Station Code (as used in Phase III Agreement)	CHAR (6)	
STATION_TYPE	Mandatory	for Hot Spots (H), Coastal (C), Reference (R)	CHAR (2)	
SAMP_NO	Mandatory	Sample no.(1,...) (as used in trend objectives of the programme)	NUM (2)	
SAMP_DATE	Mandatory	Date of Sampling	DATE	
LON_DEG	Mandatory	Longitude in degrees	NUM (2)	
LON_MIN	Mandatory	Longitude minute, seconds (In case of GPS application use this field for minutes and seconds in decimals, otherwise use only for minutes)	NUM (5,2)	
LON_SEC	Mandatory	Longitude seconds (Use this field only when GPS is not used for positioning)	NUM (2)	
LON_HEMIS	Mandatory	Longitude hemisphere (codes: W=west, E=east)	CHAR (1)	
LAT_DEG	Mandatory	Latitude degree	NUM (2)	
LAT_MIN	Mandatory	Latitude minute, seconds (In case of GPS application use this field for minutes and seconds in decimals, otherwise use only for minutes)	NUM (5,2)	
LAT_SEC	Mandatory	Latitude seconds (Use this field only when GPS is not used for positioning)	NUM (2)	
BOT_DEPTH	Mandatory	Bottom depth of the sampling station	NUM (5,1)	m
BOT_TEMP	Mandatory	Temperature value at the bottom of the sediment sampling station	NUM (5,2)	Deg C
BOT_SALIN	Mandatory	Salinity value at the bottom of the sediment sampling station	NUM (5,2)	
BOT_DO	Additional	Dissolved Oxygen value at the bottom of the sampling station	NUM (5,2)	mg/L
SAMP_LAYER	Mandatory	Sampling layer to be provided (e.g. 0-2 cm, 1 cm etc.)		cm
SAMP_FRAC	Mandatory	Sample size fraction to be provided (e.g. >60 µm etc.)		µm
DW / WW	Additional	Ratio of dry weight to wet weight (dried to constant temperature)	NUM (5,2)	%
INST_CODE_TM	Mandatory	Trace Metal Institute code (Country code+institute no. given in the MEDPOL Phase III Agreement)	CHAR(5)	
ANALY_DATE_TM	Mandatory	TM Analysis Date	DATE	
ANALY_METH_TM	Mandatory	TM Analysis method (MED POL codes)	CHAR (5)	
WW_DW	Mandatory	Mention if concentrations are based on wet or dry weight (code as "W" for wet weight and "D" for dry weight)	CHAR (1)	
AS_CONC	Additional	Arsenic concentration	NUM (7,3)	ug/kg
AS_BDL	Additional	enter BL if As conc. Is below detection limit or level of determination	CHAR (2)	
AS_DL	Additional	Detection limit value	NUM (7,3)	ug/kg
AS_UNIT	Additional	Unit for As_conc	CHAR (5)	
CD_CONC	Mandatory	Cadmium concentration	NUM (7,3)	ug/kg
CD_BDL	Mandatory	enter BL if Cd conc. is below detection limit or level of determination	CHAR (2)	
CD_DL	Mandatory	Detection limit value	NUM (7,3)	ug/kg
CD_UNIT	Additional	Unit for Cd_conc	CHAR (5)	
CR_CONC	Additional	Chromium Concentration	NUM (7,3)	ug/kg
CR_BDL	Additional	enter BL if Cr conc. Is below detection limit or level of determination	CHAR (2)	
CR_DL	Additional	Detection limit value	NUM (7,3)	ug/kg

Fields	Requisit	Description	Format	Unit
CR_UNIT	Additional	Unit for Cr_conc	CHAR (5)	
CU_CONC	Additional	Copper concentration	NUM (7,3)	ug/kg
CU_BDL	Additional	Enter BL if Cu conc. Is below the detection limit or level of determination	CHAR (2)	
CU_DL	Additional	Detection limit value	NUM (7,3)	ug/kg
CU_UNIT	Additional	Unit for Cu_conc	CHAR (5)	
HGT_CONC	Mandatory	Total Hg concentration	NUM (7,3)	ug/kg
HGT_BDL	Mandatory	enter BL if HgT conc. is below detection limit or level of determination	CHAR (2)	
HGT_DL	Mandatory	Detection limit value	NUM (7,3)	ug/kg
HGT_UNIT	Additional	Unit for HgT_conc	CHAR (5)	
PB_CONC	Additional	Lead Concentration	NUM (7,3)	ug/kg
PB_BDL	Additional	enter BL if Pb conc. Is below detection limit or level of determination	CHAR (2)	
PB_DL	Additional	Detection limit value	NUM (7,3)	ug/kg
PB_UNIT	Additional	Unit for Pb_conc	CHAR (5)	
ZN_CONC	Additional	Zinc concentration	NUM (7,3)	ug/kg
ZN_BDL	Additional	Enter BL if Zn conc. Is below the detection limit or level of determination	CHAR (2)	
ZN_DL	Additional	Detection limit value	NUM (7,3)	ug/kg
ZN_UNIT	Additional	Unit for Zn_conc	CHAR (5)	
Other Trace Metals	Additional	to be included by the countries depending on their parameter settings		

Table 5
SEDIMENT (ORGANIC CONTAMINANTS) DATA REPORTING TABLE for MED POL
PHASE III

Fields	Requisit	Description	Format	Unit
SAMPLE_ID	Mandatory	Sample reference code given by the laboratory		
YEAR	Mandatory	Monitoring Year	NUM (4)	
COUNTRY	Mandatory	Country Code (MED POL codes)	CHAR (3)	
AREA	Mandatory	Area Code (as used in Phase III Agreement)	CHAR (6)	
STATION	Mandatory	Station Code (as used in Phase III Agreement)	CHAR (6)	
STATION_TYPE	Mandatory	for Hot Spots (H), Coastal (C), Reference (R)	CHAR (2)	
SAMP_NO	Mandatory	Sample no.(1,...) (as used in trend objectives of the programme)	NUM (2)	
SAMP_DATE	Mandatory	Date of Sampling	DATE	
LON_DEG	Mandatory	Longitude in degrees	NUM (2)	
LON_MIN	Mandatory	Longitude minute, seconds (In case of GPS application use this field for minutes and seconds in decimals, otherwise use only for minutes)	NUM (5,2)	
LON_SEC	Mandatory	Longitude seconds (Use this field only when GPS is not used for positioning)	NUM (2)	
LON_HEMIS	Mandatory	Longitude hemisphere (codes: W=west, E=east)	CHAR (1)	
LAT_DEG	Mandatory	Latitude degree	NUM (2)	
LAT_MIN	Mandatory	Latitude minute, seconds (In case of GPS application use this field for minutes and seconds in decimals, otherwise use only for minutes)	NUM (5,2)	
LAT_SEC	Mandatory	Latitude seconds (Use this field only when GPS is not used for positioning)	NUM (2)	
BOT_DEPTH	Mandatory	Bottom depth of the sampling station	NUM (5,1)	m
BOT_TEMP	Mandatory	Temperature value at the bottom of the sediment sampling station	NUM (5,2)	Deg C
BOT_SALIN	Mandatory	Salinity value at the bottom of the sediment sampling station	NUM (5,2)	
BOT_DO	Additional	Dissolved Oxygen value at the bottom of the sampling station	NUM (5,2)	mg/L
SAMP_LAYER	Mandatory	Sampling layer to be provided (e.g. 0-2 cm, 1 cm etc.)		cm
SAMP_FRAC	Mandatory	Sample size fraction to be provided (e.g. >60 µm etc.)		µm
DW / WW	Additional	Ratio of dry weight to wet weight (dried to constant temperature)	NUM (5,2)	%
INST_CODE_OC	Mandatory	Institute code for organic contaminant analysis (Country code+institute no. given in the MEDPOL Phase III Agreement)	CHAR(5)	
WW_DW	Mandatory	Mention if concentrations are based on wet or dry weight (code as "W" for wet weight and "D" for dry weight)	CHAR (1)	
ANALY_DATE_PAH	Additional	PAH+ Analysis Date	DATE	
ANALY_METH_PAH	Additional	PAH+ Analysis method (MED POL codes)	CHAR (5)	
PAH_CONC	Additional	PAH+ concentration	NUM (7,3)	ug/g
PAH_BDL	Additional	enter BL if PAH+ conc. is below detection limit or level of determination	CHAR (2)	
PAH_DL	Additional	Detection limit value	NUM (7,3)	ug/kg
PAH_UNIT	Additional	Unit for PAH_conc	CHAR (5)	
ANALY_DATE_HH	Additional	HH+ Analysis Date	DATE	
ANALY_METH_HH	Additional	HH+ Analysis method (MED POL codes)	CHAR (5)	
HH_CONC	Additional	HH+ concentration	NUM (7,3)	ug/g
HH_BDL	Additional	Enter BL if HH+ conc. is below detection limit or level of determination	CHAR (2)	

Fields	Requisit	Description	Format	Unit
HH_DL	Additional	Detection limit value	NUM (7,3)	ug/kg
HH_UNIT	Additional	Unit for HH_conc	CHAR (5)	
Other Organics	Additional	to be included by the countries depending on their parameter settings		

Table 6
LOADS (point sources of pollution) DATA REPORTING TABLE for MED POL PHASE III

Fields	Requisite	Description	Format	Units
SAMPLE_ID	Mandatory	Sample reference code given by the laboratory		
YEAR	Mandatory	Monitoring Year	NUM (4)	
COUNTRY	Mandatory	Country Code	CHAR (3)	
AREA	Mandatory	Area Code (as used in Phase III Agreement)	CHAR (6)	
STATION	Mandatory	Station Code (as used in Phase III Agreement)	CHAR (6)	
STATION_TYPE	Mandatory	Station Type (EFF=Effluent, OUT=Outfall, RIV=River)	CHAR (3)	
SOURCE_TYPE	Mandatory	Effluent Source (MIX=Mixed, IND=Industrial, MUN=Municipal)	CHAR (3)	
SAMP_DATE	Mandatory	Date of Sampling	DATE	
SAMP_TIME	Mandatory	Sampling Time	TIME	
LON_DEG		Longitude in degrees	NUM (2)	
LON_MIN		Longitude minute	NUM (5,2)	
LON_SEC		Longitude seconds	NUM (2)	
LON_HEMIS		Longitude hemisphere (codes: W=west, E=east)	CHAR(1)	
LAT_DEG		Latitude degree	NUM (2)	
LAT_MIN		Latitude minute	NUM (5,2)	
LAT_SEC		Latitude seconds	NUM (2)	
SAMP_DEPTH		Sampling depth	NUM (5,1)	m
SAMP_TEMP		Water temperature at the sampling point	NUM (4,1)	°C
SAMP_DO		Dissolved Oxygen concentration at the sampling point	NUM (5,2)	mg/L
SAMP_PH		PH value at the sampling point	NUM (5,2)	
DISCHARGE_MIN	Mandatory	Minimum discharge value in the sampling year	NUM ()	m3/day
DISCHARGE_AVE	Mandatory	Average discharge value in the sampling year	NUM ()	m3/day
DISCHARGE_MAX	Mandatory	Maximum discharge value in the sampling year	NUM ()	m3/day
DISCHARGE_UNIT	Mandatory	Unit for discharge values	CHAR (5)	
INST_CODE_TM	Mandatory	Trace Metal Institute code (Country code+institute no. given in the MEDPOL Phase III Agreement)	CHAR(5)	
ANALY_DATE_TM	Mandatory	TM Analysis Date	DATE	
ANALY_METH_TM	Mandatory	TM Analysis method	CHAR (5)	
CD_CONC	Mandatory	Total Cadmium concentration	NUM (7,3)	ug/L
CD_BL	Mandatory	Enter ' BL ' if Cd concentration is below the detection limit or level of determination		
CD_DL	Mandatory	Detection limit value	NUM (7,3)	ug/kg
CD_UNIT	Mandatory	Unit for the Cd_conc	CHAR (5)	
CR_CONC	Additional	Total Chromium concentration	NUM (7,3)	ug/L
CR_BL		Enter ' BL ' if Cr concentration is below the detection limit or level of determination		
CR_DL	Additional	Detection limit value	NUM (7,3)	ug/kg
CR_UNIT	Additional	Unit for Cr_conc	CHAR (5)	
CU_CONC	Additional	Total Copper concentration	NUM (7,3)	ug/L
CU_BL		Enter ' BL ' if Cu concentration is below the detection limit or level of determination		
CU_DL	Additional	Detection limit value	NUM (7,3)	ug/kg
CU_UNIT	Additional	Unit for Cu_conc	CHAR (5)	
HG_CONC	Mandatory	Total mercury concentration	NUM (7,3)	ug/L

Fields	Requisite	Description	Format	Units
HG_BL	Mandatory	Enter ' BL ' if Hg concentration is below the detection limit or level of determination		
HG_DL	Mandatory	Detection limit value	NUM (7,3)	ug/kg
HG_UNIT	Mandatory	Unit for HgT_conc	CHAR (5)	
NI_CONC	Additional	Total Nickel concentration	NUM (7,3)	ug/L
NI_BL		Enter ' BL ' if Ni concentration is below the detection limit or level of determination		
NI_DL	Additional	Detection limit value	NUM (7,3)	ug/kg
NI_UNIT	Additional	Unit for Ni_conc	CHAR (5)	
PB_CONC	Additional	Total Lead concentration	NUM (7,3)	ug/L
PB_BL		Enter ' BL ' if Pb concentration is below the detection limit or level of determination		
PB_DL	Additional	Detection limit value	NUM (7,3)	ug/kg
PB_UNIT	Additional	Unit for Pb_conc	CHAR (5)	
ZN_CONC	Additional	Total Zinc concentration	NUM (7,3)	ug/L
ZN_BL		Enter ' BL ' if Zn concentration is below the detection limit or level of determination		
ZN_DL	Additional	Detection limit value	NUM (7,3)	ug/kg
ZN_UNIT	Additional	Unit for Zn_conc	CHAR (5)	
INST_CODE_OC	Additional	Organic Contaminant Institute code (Country code+institute no. given in the MEDPOL Phase III Agreement)	CHAR (5)	
ANALY_DATE_HH	Additional	HH+ Analysis Date	DATE	
ANALY_METH_HH	Additional	HH+ Analysis method (MED POL codes)	CHAR (5)	
HH_CONC	Additional	HH+ concentration	NUM (7,3)	ug/L
HH_BL		Enter ' BL ' if HH concentration is below the detection limit or level of determination		
HH_DL	Additional	Detection limit value	NUM (7,3)	ug/kg
HH_UNIT	Additional	Unit for HH_conc	CHAR (5)	
ANALY_DATE_PAH	Additional	PAH+ Analysis Date	DATE	
ANALY_METH_PAH	Additional	PAH+ Analysis method (MED POL codes)	CHAR (5)	
PAH_CONC	Additional	PAH+ concentration	NUM (7,3)	ug/L
PAH_BL		Enter ' BL ' if PAH concentration is below the detection limit or level of determination		
PAH_DL	Additional	Detection limit value	NUM (7,3)	ug/kg
PAH_UNIT	Additional	Unit for PAH_conc	CHAR (5)	
Other organics	Additional	DET, PHE etc. pls. Specify yours in the .XLS reporting tables		
INST_CODE_LOAD	Additional	Institute code for analysis of nutrients, TSS, COD, BOD etc. (Country code+institute no. given in the MEDPOL Phase III Agreement)	CHAR (5)	
PO4-P_CONC	Optional	PO4-P concentration	NUM (7,3)	mg/L
PO4-P_UNIT		Unit for PO4-P_conc	CHAR (5)	
TP_CONC	Additional	Total Phosphorus concentration	NUM (7,3)	mg/L
TP_UNIT		Unit for TP_conc	CHAR (5)	
NH3-N_CONC	Optional	NH3-N concentration	NUM (7,4)	mg/L
NH3-N_UNIT		Unit for NH3-N_conc	CHAR (5)	
NH4-N_CONC	Optional	NH4-N concentration	NUM (7,4)	mg/L

Fields	Requisite	Description	Format	Units
NH4-N_UNIT		Unit for NH4-N_conc		
NO2-N_CONC	Optional	NO2-N concentration	NUM (7,4)	mg/L
NO2-N_UNIT		Unit for NO2-N_conc		
NO3-N_CONC	Optional	NO3-N concentration	NUM (7,4)	mg/L
NO3-N_UNIT		Unit for NO3-N_conc		
TN_CONC	Additional	Total Nitrogen concentration	NUM (7,2)	mg/L
TN_UNIT		Unit for TN_conc		
SIO4_CONC	Additional	Silicic acid concentration	NUM (7,2)	mg/L
SIO4_UNIT		Unit for SIO4_conc		
TSS_CONC	Additional	Total Suspended Sediment concentration	NUM(7,2)	mg/L
TSS_UNIT		Unit for TSS_conc		
BOD_CONC	Additional	Biochemical Oxygen Demand (5 day)	NUM(7,2)	mg/L
BOD_UNIT		Unit for BOD5		
COD_CONC	Additional	Chemical Oxygen Demand	NUM(7,2)	mg/L
COD_UNIT		COD_conc		
FC	Additional	Number of Fecal Coliforms		no/ 100 ml
FC_UNIT		Unit for FC		

Table 7
SEA WATER DATA REPORTING TABLE for MED POL PHASE III

Fields	Requisite	Description	Format	Units
SAMPLE_ID	Additional	Sample reference code given by the laboratory		
YEAR	Additional	Monitoring Year	NUM (4)	
COUNTRY	Additional	Country Code (MED POL codes)	CHAR (3)	
AREA	Additional	Area Code (as used in Phase III Agreement)	CHAR (6)	
STATION	Additional	Station Code (as used in Phase III Agreement)	CHAR (6)	
STATION_TYPE	Additional	for Hot Spots (H), Coastal (C), Reference (R)	CHAR (2)	
SAMP_DATE	Additional	Date of Sampling	DATE	
SAMP_TIME	Additional	Sampling Time	TIME	
LON_DEG	Additional	Longitude in degrees	NUM (2)	
LON_MIN	Additional	Longitude minute, seconds (In case of GPS application use this field for minutes and seconds in decimals, otherwise use only for minutes)	NUM (5,2)	
LON_SEC	Additional	Longitude seconds (Use this field only when GPS is not used for positioning)	NUM (2)	
LON_HEMIS	Additional	Longitude hemisphere (codes: W=west, E=east)	CHAR(2)	
LAT_DEG	Additional	Latitude degree	NUM (2)	
LAT_MIN	Additional	Latitude minute, seconds (In case of GPS application use this field for minutes and seconds in decimals, otherwise use only for minutes)	NUM (5,2)	
LAT_SEC	Additional	Latitude seconds (Use this field only when GPS is not used for positioning)	NUM (2)	
BOT_DEPTH	Additional	Bottom depth of the sampling station	NUM (5,1)	m
SAMP_DEPTH	Additional	Sampling depth	NUM (5,1)	m
SAM_TEMP	Additional	Temperature at the sampling depth	NUM (5,2)	Deg C
SAM_SALIN	Additional	Salinity at the sampling depth	NUM (5,2)	
SAM_DO	Additional	Dissolved oxygen at the sampling depth	NUM (5,2)	mg/L
INST_CODE_SW	Additional	Institute code for analysis of nutrients, chlorophyll-a, TRIX etc (Country code+institute no. given in the MEDPOL Phase III Agreement)	CHAR (5)	
PO4-P_CONC	Additional	PO4-P concentration	NUM (6,2)	μmol/L
PO4-P_UNIT		Unit for PO4-P_conc	CHAR (6)	
TP_CONC	Optional	Total Phosphorus concentration	NUM (6,2)	μmol/L
TP_UNIT		Unit for TP_conc	CHAR (6)	
NH4-N_CONC	Additional	NH4-N concentration	NUM (6,2)	μmol/L
NH4-N_UNIT		Unit for NH4-N_conc	CHAR (6)	
NO2-N_CONC	Additional	NO2-N concentration	NUM (6,2)	μmol/L
NO2-N_UNIT		Unit for NO2-N_conc	CHAR (6)	
NO3-N_CONC	Additional	NO3-N concentration	NUM (6,2)	μmol/L
NO3-N_UNIT		Unit for NO3-N_conc	CHAR (6)	
NO3-2-N_CONC	Additional	NO3+NO2-N concentration	NUM (6,2)	μmol/L
TN_CONC	Optional	Total Nitrogen concentration	NUM (6,2)	μmol/L
TN_UNIT		Unit for TN_conc	CHAR (6)	
SIO4_CONC	Additional	Silicic acid concentration	NUM (6,2)	μmol/L

Fields	Requisite	Description	Format	Units
SIO4_UNIT		Nit for SIO4_conc	CHAR (6)	
CHL-A_CONC	Additional	Chlorophyll-a concentration	NUM (6,2)	ug/L
CHL-A_UNIT		Unit for Chl-a_conc	CHAR (6)	
TRIX	Additional	Trophic Index	NUM (5,2)	
Others		Other parameters could be included depending on the country agreements.		

Table 8
ATMOSPHERIC DRY DEPOSITION DATA REPORTING TABLE for MED POL (III)

Fields	Requisite	Description	Format	Units
SAMPLE_ID	Mandatory	Sample reference code given by the laboratory		
YEAR	Mandatory	Monitoring Year	NUM (4)	
COUNTRY	Mandatory	Country Code (MED POL codes)	CHAR (3)	
AREA	Mandatory	Area Code (as used in Phase III Agreement)	CHAR (6)	
STATION	Mandatory	Station Code (as used in Phase III Agreement)	CHAR (6)	
STATION_ID	Mandatory	Station identity ('R' for reference and 'I' for Impact=hot spot)	CHAR (1)	
HEIGHT	Mandatory	Height of station from the ground	NUM (5,1)	m
ALTITUDE	Mandatory	Altitude/Elevation of st. ground level above sea level	NUM (6,1)	m
DISTANCE_SHORE	Mandatory	Distance of atmospheric station to shore	NUM (7,1)	m
METEO_DIST	Mandatory	Distance to nearest meteorological station	NUM (7,1)	m
LAT_DEG	Mandatory	Latitude degree	NUM (2)	
LAT_MIN	Mandatory	Latitude minute	NUM (5,2)	
LAT_SEC	Mandatory	Latitude seconds	NUM (2)	
LON_DEG	Mandatory	Longitude in degrees	NUM (2)	
LON_MIN	Mandatory	Longitude minute	NUM (5,2)	
LON_SEC	Mandatory	Longitude seconds	NUM (2)	
SAMP_START_DATE	Mandatory	Start Date of Sampling	DATE	
SAMP_START_HOUR	Mandatory	Start Hour of Sampling	NUM (2)	
SAMP_END_DATE	Mandatory	End Date of Sampling	DATE	
SAMP_END_HOUR	Mandatory	End Hour of Sampling	NUM (2)	
SAMP_TIME-TOT	Mandatory	Total Sampling Hours	NUM (2)	
AIR_VOLUME	Mandatory	Total Air volume filtered during the total sampling time	NUM (7,2)	m3
SAMP_INST_CODE	Mandatory	Sampling Institute Code	NUM (9)	
INST_CODE_DUST		Institute code for dust analysis	CHAR(9)	
ANALY_DATE_DUST		Dust Analysis Date	DATE	
ANALY_METH_DUST		Dust Analysis method	CHAR (5)	
DUST_CONC		Dust Concentration	NUM ()	
DUST_UNIT		Unit for dust_conc	CHAR (5)	
INST_CODE_TM	Mandatory	Trace Metal Institute code	CHAR(9)	
ANALY_DATE_TM	Mandatory	TM Analysis Date	DATE	
ANALY_METH_TM	Mandatory	TM Analysis	CHAR (5)	
CD_CONC		Cadmium concentration	NUM (7,3)	
CD_BDL		enter BL if Cd conc. is below detection limit or level of determination	CHAR (2)	
CD_DL		Detection limit value	NUM (7,3)	ug/kg
CD_UNIT		Unit for Cd_conc	CHAR (5)	
Other Trace Metals	As specified in the programme			
Organic contaminants	As specified in the programme			

Table 9
ATMOSPHERIC WET DEPOSITION DATA REPORTING TABLE for MED POL (III)

Fields	Requisite	Description	Format	Units
YEAR	Mandatory	Monitoring Year	NUM (4)	
COUNTRY	Mandatory	Country Code (MED POL codes)	CHAR (3)	
AREA	Mandatory	Area Code (as used in Phase III Agreement)	CHAR (6)	
STATION	Mandatory	Station Code (as used in Phase III Agreement)	CHAR (6)	
STATION_ID	Mandatory	Station identity ('R' for reference and 'I' for Impact=hot spot)	CHAR (1)	
HEIGHT	Mandatory	Height of station from the ground	NUM (5,1)	m
ALTITUDE	Mandatory	Altitude/Elevation of station ground level above sea level	NUM (6,1)	m
DISTANCE_SHORE	Mandatory	Distance of atmospheric station to shore	NUM (7,1)	m
METEO_DIST		Distance to nearest meteorological station	NUM (7,1)	m
LAT_DEG	Mandatory	Latitude degree	NUM (2)	
LAT_MIN	Mandatory	Latitude minute	NUM (5,2)	
LAT_SEC	Mandatory	Latitude seconds	NUM (2)	
LON_DEG	Mandatory	Longitude in degrees	NUM (2)	
LON_MIN	Mandatory	Longitude minute	NUM (5,2)	
LON_SEC	Mandatory	Longitude seconds	NUM (2)	
SAMP_START_DATE		Start Date of Sampling	DATE	
SAMP_START_HOUR		Start Hour of Sampling	NUM (2)	
SAMP_END_DATE		End Date of Sampling	DATE	
SAMP_END_HOUR		End Hour of Sampling	NUM (2)	
SAMP_TIME-TOT		Total Sampling Hours	NUM (2)	
PRECIPITATION_NG		Precipitation (National gauge)	NUM (5)	mm
SAMP_INST_CODE		Sampling Institute Code	NUM (9)	
INST_CODE_TM		Trace Metal Institute code	CHAR(9)	
ANALY_DATE_TM		TM Analysis Date	DATE	
ANALY_METH_TM		TM Analysis method	CHAR (5)	
CD_CONC		Cadmium concentration	NUM (7,3)	ug/kg
CD_BDL		enter BL if Cd conc. is below detection limit or level of determination	CHAR (2)	
CD_DL		Detection limit value	NUM (7,3)	ug/kg
CD_UNIT		Unit for Cd_conc	CHAR (5)	
Other Trace Metals				
Other fields		organic contaminants		

Table 10
CERTIFIED REFERENCE MATERIAL (CRM) ANALYSIS DATA REPORTING TABLE for
MEDPOL PHASE III

Fields	Description	Format	Units
CRM_SAMPLE_ID	Sample reference code given by the laboratory		
YEAR	Monitoring Year	NUM (4)	
COUNTRY	Country Code	CHAR (3)	
INST_CODE_TM_BIO	Institute code for trace metal analysis in biota (Country code+institute no. given in the MEDPOL Phase III Agreement)	CHAR (5)	
CRM_BIO_TM_CD	Name of the certified reference material used for Cadmium analysis in biota (will be coded)	CHAR (10)	
CRM_BIO_CD_VALUE	The expected concentration value for Cd in CRM	NUM (7,3)	ug/kg
CRM_BIO_CD_SAMPLE NO	Number of sample (1,...,n**)	NUM (2)	
CRM_BIO_CD_CONC	Concentration of cadmium measured in each CRM sample (1,...,n) * Pls don't submit average values	NUM (7,3)	ug/kg
CRM_BIO_CD_UNIT	Unit for both expected and measured Cd_conc in CRM	CHAR (5)	
ANALY_DATE_CD_BIO	Cd Analysis Date	DATE	
ANALY_METH_CD_BIO	Cd Analysis method (MED POL codes)	CHAR (5)	
CRM_BIO_TM_HGT	Name of the certified reference material used for total Mercury analysis in biota (will be coded)	CHAR (10)	
CRM_BIO_HGT_VALUE	The expected concentration value for total Hg in CRM	NUM (7,3)	ug/kg
CRM_BIO_HGT_SAMPLE NO	Number of sample (1,...,n**)	NUM (2)	
CRM_BIO_HGT_CONC	Concentration of total mercury in each CRM sample (1,...,n) * Pls don't submit average values	NUM (7,3)	ug/kg
CRM_BIO_HGT_UNIT	Unit for both expected and measured HgT_conc in CRM	CHAR (5)	
ANALY_DATE_HGT_BIO	Hgt Analysis Date	DATE	
ANALY_METH_HGT_BIO	Hgt Analysis method (MEDPOL codes)	CHAR (5)	
INST_CODE_TM_SED	Institute code for trace metal analysis in sediment (Country code+institute no. given in the MEDPOL Phase III Agreement)	CHAR (5)	
CRM_SED_TM_CD	Name of the certified reference material used for Cadmium analysis in sediment (will be coded)	CHAR (10)	
CRM_SED_CD_VALUE	The expected concentration value for Cd in CRM	NUM (7,3)	ug/kg
CRM_SED_CD_SAMPLE NO	Number of sample (1,...,n**)	NUM (2)	
CRM_SED_CD_CONC	Concentration of Cd in each CRM sample (1,...,n) * Pls don't submit average values	NUM (7,3)	ug/kg
CRM_SED_CD_UNIT	Unit for both expected and measured Cd_conc in CRM	CHAR (5)	
ANALY_DATE_CD_SED	Cd Analysis Date	DATE	
ANALY_METH_CD_SED	Cd Analysis method (MED POL codes)	CHAR (5)	
CRM_SED_TM_HGT	Name of the certified reference material used for t- Mercury analysis in sediment (will be coded)	CHAR (10)	
CRM_SED_HGT_VALUE	The expected concentration value for total Hg in CRM	NUM (7,3)	ug/kg
CRM_SED_HGT_SAMPLE NO	Number of sample (1,...,n)	NUM (2)	
CRM_SED_HGT_CONC	Concentration of Hg-T in each CRM sample (1,...,n) * Pls don't submit average values	NUM (7,3)	ug/kg
CRM_SED_HGT_UNIT	Unit for both expected and measured HgT_conc in CRM	CHAR (5)	

** n: number of individual runs of CRM during the analysis date of field samples

Fields	Description	Format	Units
ANALY_DATE_HGT_SED	Hgt Analysis Date	DATE	
ANALY_METH_HGT_SED	Hgt Analysis method (MED POL codes)	CHAR (5)	
INST_CODE_OC_BIO	Institute code for organic contaminants analysis in biota (Country code+institute no. given in the MEDPOL Phase III Agreement)	CHAR (5)	
CRM_BIO_HH	Name of the certified reference material for halogenated hydrocarbons in biota (will be coded)	CHAR (10)	
CRM_BIO_HH_VALUE	Expected concentration value of HH+ compound in CRM	NUM (7,3)	ug/kg
CRM_BIO_HH_SAMPLE NO	Number of sample (1,...,n**)	NUM (2)	
CRM_BIO_HH_CONC	Concentration of HH+ in each CRM sample (1,...,n) * Pls don't submit average values	NUM (7,3)	ug/kg
CRM_BIO_HH_UNIT	Unit for both expected and measured HH_conc in CRM	CHAR (5)	
ANALY_DATE_HH_BIO	HH+ Analysis Date	DATE	
ANALY_METH_HH_BIO	HH+ Analysis method (MED POL codes)	CHAR (5)	
CRM_BIO_OC_PAH	Name of the certified reference material for PAH in biota (will be coded)	CHAR (10)	
CRM_BIO_PAH_VALUE	Expected concentration value of PAH in CRM	NUM (7,3)	ug/kg
CRM_BIO_PAH_SAMPLE NO	Number of sample (1,...,n**)	NUM (2)	
CRM_BIO_PAH_CONC	Concentration of PAH in each CRM sample (1,...,n) * Pls don't submit average values	NUM (7,3)	ug/kg
CRM_BIO_PAH_UNIT	Unit for both expected and measured PAH_conc in CRM	CHAR (5)	
ANALY_DATE_PAH_BIO	PAH Analysis Date	DATE	
ANALY_METH_PAH_BIO	PAH Analysis method (MED POL codes)	CHAR (5)	
INST_CODE_OC_SED	Institute code for organic contaminant analysis in sediments (Country code+institute no. given in the MEDPOL Phase III Agreement)	CHAR (5)	
CRM_SED_HH	Name of the certified reference material used for the analysis of halogenated hydrocarbons in sediment (will be coded)	CHAR (10)	
CRM_SED_HH_VALUE	Expected concentration value of HH+ compound in CRM	NUM (7,3)	ug/kg
CRM_SED_HH_SAMPLE NO	Number of sample (1,...,n**)	NUM (2)	
CRM_SED_HH_CONC	Concentration of HH+ of each sample (1,...,n) * Pls don't submit average values	NUM (7,3)	ug/kg
CRM_SED_HH_UNIT	Unit for both expected and measured HH_conc in CRM		
ANALY_DATE_HH_SED	HH+ Analysis Date	DATE	
ANALY_METH_HH_SED	HH+ Analysis method (MED POL codes)	CHAR (5)	
CRM_SED_PAH	Name of the certified reference material used for PAH analysis in sediment (will be coded)	CHAR (10)	
CRM_SED_PAH_VALUE	Expected concentration value of PAH in CRM	NUM (7,3)	ug/kg
CRM_SED_PAH_SAMPLE NO	Number of sample (1,...,n**)	NUM (2)	
CRM_SED_PAH_CONC	Concentration of PAH of each sample (1,...,n) * Pls don't submit average values	NUM (7,3)	ug/kg
CRM_SED_PAH_UNIT	Unit for both expected and measured PAH_conc in CRM	CHAR (5)	
ANALY_DATE_PAH_SED	PAH Analysis Date	DATE	
ANALY_METH_PAH_SED	PAH Analysis method (MED POL codes)	CHAR (5)	

** n: number of individual runs of CRM during the analysis date of field samples

Table 11
COMPLIANCE MONITORING

Monitoring of bathing waters

Country Code	Area Code	Parameter/ Group	Number of stations monitored	Total Number of measurements	Frequency of measurements	Stations (%) Comply with interim WHO/UNEP criteria	Stations (%) Comply with the National Legislation *	Remark **

* Specify the national legislation applied as reference

** When appropriate, specify the reasons for non-compliance and the measures taken to ensure compliance National Report on the technical implementation of the Land-based Sources Protocol