# marinescotland



# Pre-disposal Sampling Results Form

Version 2 - June 2017

This form should be used to submit the results from your pre-disposal sampling plan.

Full information must be provided in all relevant sheets of this workbook. The blue cells in each worksheet indicate where information can be entered.

Where information cannot be provided, or where there are more than 30 samples required, please contact the Marine Scotland - Licensing Operations Team (MS-LOT) using the contact details below.

Once you have completed this form, send it (including any reference number for the dredging and sea disposal marine licence application in the subject header of your email) to the following email address: <a href="mailto:ms.marinelicensing@gov.scot">ms.marinelicensing@gov.scot</a>

If you have any questions in relation to this form contact MS-LOT:

Marine Scotland - Licensing Operations Team Marine Laboratory 375 Victoria Road Aberdeen, AB11 9DB

01224 295579 ms.marinelicensing@gov.scot

#### **Applicant Information**

Applicant:
Description of dredging:
Total amount to be dredged (wet tonnes)

### Sample Details & Physical Properties

Explanatory Notes:
An example of a 'Dredge area' is: 'Dock A, Harbour X'
Provide description of the dredge area and the latitude and longitude co-oridnates (WGS84) for each sample location. Co-ordinates taken from GPS equipment should be set to WGS84.
Note for sample depth that the seabed is 0 metres.

Gravel is defined as >2mm, Sand is defined as >63um<2mm, Silt is deinfed as <63um).

#### Sample information:

Sample info	i i i ation.																Type of	Sample depth	Total solids	Gravel	Sand	Silt	TOC		
Sample ID	Dredge area				Lati	tude							ongitu	ıde			sample	(m)	(%)	(%)	(%)	(%)	(%)	Specific gravity	Asbestos
	West side of West Finger	r 5	7	° 4		. (	6 3	3 3	'N C	0	4		2	. 1		2 'W		0-2cm	63.15	0.05	62.71	37.23	1.01		No
S2	South Quay (West)	5	7	° 4	1 1	. [	6 3	5 5	'N C	0	4	° 0	) 2	. 0	0 0	1 'W	V Grab	0-2cm	60.33	0.34	51.83	47.83	1.08		No
S3 S4	South Quay (East) Inner Dock (North)	5 5	7	° 4	1 1 1 1		0 2	5	'N 0	0 0	4	° 0				9 'W		0-2cm 0-2cm	64.64 43.76	0.03 0.16	57.24 25.22	42.73 74.62	0.88 2.16		No No
S5	Inner Dock (North) Inner Dock (South)	5	7	° 4		•   •	0   1 7   2	) 6	'N C	1 0	4	° 0		. 6	)   U	3 'W	V Grab	0-2cm	44.92	0.16	27.69	72.31	1.98		No
S6	East Quay (North)	5	7	° 4			6 4	3	'N C	) 0	4		) 1	. 1		2 'W		0-2cm	74.88	0.00	73.94	26.06	0.52		No
S7	Dock Approach	5		° 4					'N C				1	. 6		5 'W		0-2cm	73.93	0.05	86.11	13.84	0.24		No
S8	East Quay (South)	5	7	° 4			5 4	- 2	'N C	0	4		) 1			1 'W		0-2cm	73.27	0.02	85.88	14.10	0.34		No
S3-NW	South Quay (East)	5	7	° 4	1 1	. (	6 3	3 5	'N C	0	4		1	. 7		7 'W		0-2cm							No
S3-SW	South Quay (East)	5		° 4					'N C				1	. 7		6 'W		0-2cm							No
S3-NE	South Quay (East)			° 4		. (	6 3	3 6	'N C	0	4	° 0				7 'W		0-2cm							No
S3-SE	South Quay (East)	5	7	° 4	1 1	. [	6 1	4	'N C	0		° 0	) 1	. 7	1 1	6 'W		0-2cm							No
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#### **Trace Metals & Organotins**

**Explanatory Notes:** 

Results above Action Level 1 will be highlighted in blue and above Action Level 2 in red.

ample information:  Type of Sample depth mg/kg dry weight													
Sample ID	Dredge area	Type of sample	Sample depth (m)	Arsenic (As)	Cadmium (Cd)	Chromium (Cr)	Copper (Cu)	mg/kg d Mercury (Hg)	ry weight Nickel (Ni)	Lead (Pb)	Zinc (Zn)	Dibutyltin (DBT)	Tributyltin (TBT)
S1	West side of West Finge		0-2cm	8.20	0.10	27.2	6.90	0.03	10.4	14.2	36.4	Disatyllin (BB1)	< 0.0004
S2	South Quay (West)	Grab	0-2cm	6.50	< 0.10	39.1	11.5	0.06	14.7	19.9	50.5		0.00064
S3 S4	South Quay (East)	Grab	0-2cm	6.00	< 0.10	29.0	402	0.03	11.4	15.7	42.8		0.000536
S4 S5	Inner Dock (North) Inner Dock (South)	Grab Grab	0-2cm 0-2cm	26.8 10.3	0.60 0.20	67.0 49.0	160 13.3	0.08 0.07	28.9 20.6	50.4 23.0	266 63.1		0.00111 0.00111
S6	East Quay (North)	Grab	0-2cm	3.70	< 0.10	22.9	5.70	0.01	8.90	12.8	26.0		0.000404
S7	Dock Approach	Grab	0-2cm	3.00	< 0.10	15.7	2.90	0.02	5.40	8.90	17.2		< 0.0004
S8	East Quay (South)	Grab	0-2cm	3.10	< 0.10	13.5	3.40	0.02	5.10	8.60	16.2		0.00252
S3-NW S3-SW	South Quay (East) South Quay (East)	Grab Grab	0-2cm 0-2cm				5.25 1.62						
S3-NE	South Quay (East)	Grab	0-2cm				4.54						
S3-SE	South Quay (East)	Grab	0-2cm				2.22						
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Polyaromatic Hydrocarbons (PAH)

Explanatory Notes:
Results above Action Level 1 will be highlighted in blue

Definitions:	
ACENAPTH	Acenaphthene
ACENAPHY	Acenaphthylene
ANTHRACN	Anthracene
BAA	Benz(a)anthracene
BAP	Benzo(a)pyrene
BBF	Benzo(b)fluoranthene
BEP	Benzo(e)pyrene
BENZGHIP	Benzo(ghi)perylene
BKF	Benzo(K)fluoranthene
C1N	C1-naphthalenes
C1PHEN	C1-phenanthrene
C2N	C2-naphthalenes
C3N	C3-naphthalenes
CHRYSENE	Chrysene
DBENZAH	Diben(ah)anthracene
FLUORANT	Fluoranthene
FLUORENE	Fluorene
INDPYR	Indeno(1,2,3-cd)pyrene
NAPTH	Naphthalene
PERYLENE	Perylene
PHENANT	Phenanthrene
PYRENE	Pyrene

Total Hydrocarbon Content

Sample informa	tion:	T et 1	Camanda danda	_																		
Sample ID	Dredge area	sample	Sample depth (m)	ACENAPTH	ACENAPHY	ANTHRACN	BAA	BAP	BBF BEP	BENZGHIP	BKF	C1N C1F	PHEN	μg/kg C2N C3N	CHRYSENE	DBENZAH FLUORANT	FLUORENE	INDPYR NA	PTH PERYLEN	E PHENANT	PYRENE	THC
	West side of West Finger		0-2cm	1.4	0.4		17.6	21.1	36.1	14.7	11.5	011	TILIN	0214	15.8	0.8 29.9	1.7		.9	12.0	27.7	16900
S2	South Quay (West)	Grab	0-2cm	27.4	1.1		30.3	37.7	77.7	25.4	25.6				46.3	5.8 102	22.6		1.5	86.8	78.0	23200
S3	South Quay (East)	Grab	0-2cm	2.1	0.5		13.5	14.8	26.5	12.0	8.3				11.5	0.7 26.8	2.0		.1	11.3	23.6	20600
S4	Inner Dock (North)	Grab	0-2cm	1.5	0.5		12.7	15.2	33.9	15.1	9.9				10.6	1.0 27.3	2.2		.9	11.9	24.1	34600
S5	Inner Dock (South)	Grab	0-2cm	1.8	0.5	2.6	12.2	13.7	29.7	13.2	8.8				10.6	0.9 24.6	2.1		.7	11.3	21.8	30200
S6 S7	East Quay (North)	Grab Grab	0-2cm 0-2cm	1.5 2.0	0.2	1.4 2.0	6.1 8.1	7.0 9.4	13.4 15.7	5.8 7.6	4.1 4.8				5.1 7.2	0.5 12.6 0.6 16.6	1.4 1.7		.2 .1	6.4	11.5 14.9	18400 13700
\$7 \$8	Dock Approach East Quay (South)	Grab	0-2cm	0.7	0.3		4.7	4.9	10.0	4.5	3.0				4.0	0.6 16.6	0.7		.8	9.4	8.6	17200
S3-NW	South Quay (East)	Grab	0-2cm	0.7	0.2	0.9	4.7	4.8	10.0	4.5	3.0				4.0	0.5 9.4	0.7	3.4	.0	3.9	0.0	17200
S3-SW	South Quay (East)	Grab	0-2cm																			
S3-NE	South Quay (East)	Grab	0-2cm																			
S3-SE	South Quay (East)	Grab	0-2cm																			
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<u>Organohalogens</u>

Explanatory Notes:

Results above Action Level 1 will be highlighted in blue and above Action Level 2 in red. ICES7 is the sum of PCB 28,52,101,138,153,180 and 118.

Definitions:

AHCH alpha-Hexachlorcyclohexane
BHCH beta-Hexachlorcyclohexane
GHCH gamma-Hexachlorcyclohexane
DIELDRIN Dieldrin
HCB Hexachlorobenzene
PPDDE p,p'-Dichorodiphenyldicloroethylene

ICD	i lexaci iloiobelizelle
PPDDE	p,p'-Dichorodiphenyldicloroethy
PPDDT	p,p'-Dichorodiphenyltrichloroeth
PPTDE	p,p'-Dichorodiphenyldicloroetha

Sample info	rmation:																										
Sample ID	Dreda	Tyl	pe of Sample depth	PCB28	PCR52 PCR101	PCB118   PCB138	3 PCB153 PCB18	PCB105   PCB110	PCB128   PCB141	PCB149 PCB151	PCB156   PCB158	PCB170   PCB180	PCR183 PCR187	PCB194 PCB31	μ <u>ο</u> PCB44 PCB47	/kg PCB49 PCB66	ICES7 AHCH	BHCH GHCH	DIELDRIN HCB	DDF DDT	TDE BDE100	BDE138   BDE153	RDE154   RDE17	BDE183   BDE209	BDE28 BDE47	RDE66 RDE85	RDE99
S1	West side of	of West Finger G	Grab 0-2cm	0.194	0.093 0.167	0.107 0.123	0.150	1 05100 1 05110	1 05120 1 05141	1 05140	1 02100	0.053	1 00 100	1 05104	1 0547	1 0540	0.887	Brieff Grieff	DIEEDINIA 1100	DDL DD1	152 552100	BBE 100	BBE104 BBE17	BBE 100 BBE 200	BBEZO BBEHI	BBE00 BBE00	BBE00
S2 S3	South Qu South Qu	uay (West) G	Grab 0-2cm Grab 0-2cm	0.142 0.179	0.076	0.124 0.196 0.105 0.136	0.162					0.062					0.912 0.858										
S4 S5	Inner Doo Inner Doo	ck (North) G	Grab 0-2cm Grab 0-2cm	0.417 2.51	0.160     0.368       0.675     1.02       0.030     0.061       0.046     0.049       0.022     0.029	0.210 0.362 0.263 0.267	0.281 0.306					0.162 0.128					1.96 5.16										
S6	East Qua	ay (North) G	Grab 0-2cm	0.044	0.030 0.061	0.045 0.056	0.068					0.033					0.337										
S8	Dock A East Qua South Qu South Qu South Qu	ay (South) G	Grab 0-2cm Grab 0-2cm	0.063	0.046 0.049 0.029	0.031 0.042 0.028	0.043					< 0.020 < 0.020					0.337 < 0.294 < 0.173										
S3-NW	South Qu	uay (East) G	Grab         0-2cm           Grab         0-2cm																								
S3-SW S3-NE	South Qu	uay (East) G	Grab 0-2cm																								
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#### PR Details

Total amount to be dredged (wet tonnes)

#### **Explanatory Notes:**

The values entered for each determinand should be an average wet weight concentration from all the samples representing the material to be disposed to sea. They should be entered in the units stated in the Unit of measurement column in the table below.

Results above Action Level 1 will be highlighted in blue and above Action Level 2 in red.

Average for the total	dredge area: Unit of	1
Sample ID		
Sample ID Total Solids	measurement %	62.36
Gravel	%	0.08
Sand	%	58.83
Silt	%	41.09
Arsenic (As)	70	5.27
Cadmium (Cd)	┪	0.11
Chromium (Cr)	┪	20.5
Copper (Cu)	┪	47.2
Mercury (Hg)	┥	0.02
Nickel (Ni)	mg/kg	8.22
Lead (Pb)	┪	12.0
Zinc (Zn)	┥	40.4
Dibutyltin (DBT)	┪	
Tributyltin (TBT)	┪	0.000555
Acenapth		3.0
Acenapthylene	7	0.3
Anthracn	$\dashv$	1.4
BAA	┪	8.2
BAP	┪	9.7
BBF	┪	18.9
BEP	┪	
Benzghip	┪	7.7
BKF	7	5.9
C1N	7	0.0
C1PHEN	7	
C2N	7	
C3N	7	
Chrysene	7	8.7
Debenzah	7	0.8
Flurant	7	19.4
Fluorene	1	2.7
Indypr	7	9.8
napth	7	4.6
perylene	┑	
phenant	┑	11.9
pyrene	┑	16.4
THC	7	13600
PCB28	7	0.279
PCB52	٦	0.091
PCB101	٦	0.157
PCB118	٦	0.071
PCB138	٦	0.094
PCB153	7	0.091
PCB18	٦	
PCB105		
PCB110		
PCB128		
PCB141		
PCB149	μg/kg	
PCB151		
PCB156		
PCB158		
PCB170		
PCB180		0.042
PCB183		
PCB187		
PCB194		
PCB31	_	
PCB44		
PCB47	_	
PCB49	_	
PCB66	_	0.005
ICES7	_	0.825
AHCH	_	
BHCH GHCH	-	
DIELDRIN	-	
HCB	-	
DDE	-	
	-	
DDT TDE	$\dashv$	
BDE100	$\dashv$	
BDE138	$\dashv$	
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BDE17 BDE183 BDE209 BDE28 BDE47		

Comments:

# **Laboratory Details**

Explanatory Notes:

Please complete a separate worksheet for each laboratory (e.g. complete 'Laboartory\_1' worksheet for 1 laboratory and complete 'Laboartory\_2' worksheet for a second laboratory). If there are more than 3 laboratories then please contact MS-LOT.

Laboratory 1 Details:

Laboratory name: Fugro Year: 2022

		Does the laboratory carrying out the analyses undertake the analysis of blank samples and	
LabRefMat	Q1	laboratory reference materials with each batch of samples of waste and other material dumped	
		in the maritime area that is analysed by that laboratory?	Yes
		Does the laboratory carrying out the analyses undertake periodic comparative analysis of	

LabRefMat	Q1	Does the laboratory carrying out the analyses undertake the analysis of blank samples and laboratory reference materials with each batch of samples of waste and other material dumped in the maritime area that is analysed by that laboratory?	Yes	
CompAnal	Q2	Does the laboratory carrying out the analyses undertake periodic comparative analysis of laboratory reference materials and certified reference materials?	Yes	
QAQC	Q3	Does the laboratory carrying out the analyses undertake the compilation of quality control charts based upon the data resulting from the analyses of the laboratory reference materials and	Yes	
InterlabCaleb	Q4	Does the laboratory carrying out the analyses undertake periodic participation in interlaboratory comparison exercises, including, where possible, international comparison exercises?	No	
InternatCaleb	Q5	Does the laboratory carrying out the analyses undertake periodic participation in national and, where possible, international laboratory proficiency schemes?	Yes	
SpikedSamples	Q6	If the answer to questions 4 or 5 is 'Yes' then does the laboratory analyse samples of substances which are provided by the organisers of the scheme?	Yes	
BlindSamples	Q7	If the answer to questions 4 or 5 is 'Yes' then does the laboratory confirm that the composition of those samples is not disclosed in advance?	Yes	
Ranking	Q8	If the answer to questions 4 or 5 is 'Yes' then does the laboratory confirm that the results of the scheme for each participating laboratory are made available to all participating laboratories?	Yes	
FracAnal	Q9	Enter the size fraction that is analysed i.e. Whole or less than 63µm etc.	Whole	
GranMeth	Q10	PSA method	Sieving and laser d	iffraction
OCMeth	Q11	Organic Carbon method 1		
MetExtrType	Q12	Method of extraction used for metal analysis		
MethOfDetMetals	Q13	Method of detection used for metal analysis		
PAHExtrType	Q14	Method of extraction used for poly aromatic hydrocarbon analysis	Ultrasonic extraction	n
MethOfDetPAH	Q15	Method of detection used for poly aromatic hydrocarbons analysis	GC-MS	
OHExtrType	Q16	Method of extraction used for organohalogens inc PCBs, pesticides, flame retardants etc analysis	Accelerated solven	t extraction
MethOfDetOH	Q17	Method of detection used for organohalogens inc PCBs, pesticides, flame retardants etc analysis	GC-µECD	
OTExtrType	Q18	Method of extraction used for organotin analysis	Ultrasonic extractio	n
MethOfDetOT	Q19	Method of detection used for organotin analysis	GC-MS	

		LOD/LOQ	Precision (%)	Recovery (%)
	Hg	LODILOQ	T Tecision (70)	recovery (70)
	As			
	Cd			
	Cu			
mg/kg	Pb			
9,9	Zn			
	Cr			
	Ni			
	TBT DBT			
	PCB28			
	PCB26			
	PCB44			
	PCB47			
	PCB49			
	PCB52			
	PCB66			
	PCB101			
	PCB105			
	PCB110			
	PCB118			
	PCB128			
	PCB138+163			
	PCB141			
	PCB149 PCB151			
	PCB151 PCB153			
	PCB156			
	PCB158			
	PCB170			
	PCB180			
	PCB183			
	PCB187			
	PCB194			
	DDE			
	DDT			
	DDD			
	Dieldrin			
	Lindane HCB			
	BDE17			
	BDE17			
μg/kg	BDE47			
µg/Ng	BDE66			
	BDE85			
	BDE99			
	BDE100			
	BDE138			
	BDE153			
	BDE154			
	BDE183			
	BDE209			
	ACENAPTH			
	ANTHRACN			
	ANTHRACN			
	BAA BAP			
	BBF			
	BENZGHIP			
	BEP			
	BKF			
	C1N			
	C1PHEN			
	C2N			
	C3N			
	CHRYSENE		_	_
	DBENZAH			
	FLUORENE			
	FLUORANT			
	INDPYR			
	NAPTH			
	PERYLENE			
	PHENANT PYRENE			
	THC			

# **Laboratory Details**

Explanatory Notes:

Please complete a separate worksheet for each laboratory (e.g. complete 'Laboartory\_1' worksheet for 1 laboratory and complete 'Laboartory\_2' worksheet for a second laboratory). If there are more than 3 laboratories then please contact MS-LOT.

Laboratory 2 Details:

Laboratory name: RPS

Year: 2022

LabRefMat	Q1	Does the laboratory carrying out the analyses undertake the analysis of blank samples and laboratory reference materials with each batch of samples of waste and other material dumped in the maritime area that is analysed by that laboratory?	Yes	
CompAnal	Q2	Does the laboratory carrying out the analyses undertake periodic comparative analysis of	Yes	
QAQC	Q3	Does the laboratory carrying out the analyses undertake the compilation of quality control charts based upon the data resulting from the analyses of the laboratory reference materials and certified reference materials, and the use of those quality control charts to monitor analytical performance in relation to all samples of dumped wastes or other materials?	Yes	
InterlabCaleb		Does the laboratory carrying out the analyses undertake periodic participation in interlaboratory comparison exercises, including, where possible, international comparison exercises?	No	
InternatCaleb	Q5	Does the laboratory carrying out the analyses undertake periodic participation in national and, where possible, international laboratory proficiency schemes?	Yes	
SpikedSamples	Q6	substances which are provided by the organisers of the scheme?	Yes	
BlindSamples	Q7	If the answer to questions 4 or 5 is 'Yes' then does the laboratory confirm that the composition of those samples is not disclosed in advance?	Yes	
Ranking		If the answer to questions 4 or 5 is 'Yes' then does the laboratory confirm that the results of the scheme for each participating laboratory are made available to all participating laboratories?	Yes	
FracAnal	Q9	Enter the size fraction that is analysed i.e. Whole or less than 63µm etc.	Whole	
GranMeth	Q10	PSA method		
OCMeth	Q11	Organic Carbon method		
MetExtrType	Q12	Method of extraction used for metal analysis	Aqua regia dige	st
MethOfDetMetals	Q13	Method of detection used for metal analysis	ICP-MS. Hg by	AFS
PAHExtrType	Q14	Method of extraction used for poly aromatic hydrocarbon analysis		
MethOfDetPAH	Q15	Method of detection used for poly aromatic hydrocarbons analysis		
OHExtrType	Q16	Method of extraction used for organohalogens inc PCBs, pesticides, flame retardants etc analysis		
MethOfDetOH	Q17	Method of detection used for organohalogens inc PCBs, pesticides, flame retardants etc analysis		
OTExtrType	Q18	Method of extraction used for organotin analysis		
MethOfDetOT	Q19	Method of detection used for organotin analysis		

	<u>.                                    </u>			
	1	LOD/LOQ	Precision (%)	Recovery (%)
	Hg	203/200	1 100101011 (70)	1100010.13 (70)
	As			
	Cd			
	Cu			
mg/kg	Pb			
mg/kg	Zn			
	Cr			
	Ni			
	TBT			
	DBT			
	PCB28			
	PCB31			
	PCB44			
	PCB47			
	PCB49			
	PCB52			
	PCB66			
	PCB101			
	PCB105			
	PCB110			
	PCB118			
	PCB128			
	PCB138+163			
	PCB141			
	PCB149			
	PCB151			
	PCB153 PCB156			
	PCB156 PCB158			
	PCB158 PCB170			
	PCB170 PCB180			
	PCB180 PCB183			
	PCB183 PCB187			
	PCB187 PCB194			
	DDE PCB194			
	DDT		-	
	DDD			
	Dieldrin			
	Lindane			
	HCB			
	BDE17			
n	BDE28			
μg/kg	BDE47			
	BDE66			
	BDE85			
	BDE99			
	BDE100			
	BDE138			
	BDE153			
	BDE154			
	BDE183			
	BDE209			
	ACENAPTH			
	ACENAPHY			
	ANTHRACN			
	BAA			
	BAP			
	BBF			
	BENZGHIP			
	BEP			
	BKF			
	C1N			
	C1PHEN			
	C2N			
	C3N			
	CHRYSENE			
	DBENZAH			
	FLUORENE			
	FLUORANT			
	INDPYR			
	NAPTH DEEN # EN E			
	PERYLENE			
	PHENANT			
	PYRENE			
	THC			

# **Laboratory Details**

Explanatory Notes:

Please complete a separate worksheet for each laboratory (e.g. complete 'Laboartory\_1' worksheet for 1 laboratory and complete 'Laboartory\_2' worksheet for a second laboratory). If there are more than 3 laboratories then please contact MS-LOT.

Laboratory 3 Details:

Laboratory name: Element Materials Technology

Year: 2022

	1	<u> </u>		
LabRefMat		Does the laboratory carrying out the analyses undertake the analysis of blank samples and		
	Q1	laboratory reference materials with each batch of samples of waste and other material dumped		
		in the maritime area that is analysed by that laboratory?	Yes	
CompAnal	Q2	Does the laboratory carrying out the analyses undertake periodic comparative analysis of		
Compandi	٧.	laboratory reference materials and certified reference materials?	Yes	
		Does the laboratory carrying out the analyses undertake the compilation of quality control charts		
QAQC	Q3	based upon the data resulting from the analyses of the laboratory reference materials and		
QAQC	Ų3	certified reference materials, and the use of those quality control charts to monitor analytical		
		performance in relation to all samples of dumped wastes or other materials?	Yes	
		Does the laboratory carrying out the analyses undertake periodic participation in interlaboratory		
InterlabCaleb		comparison exercises, including, where possible, international comparison exercises?		
interiaboaicb	<b>Q</b> T	To simpario on oxor oxor oxor oxor oxor oxor oxor	No	
		Dogs the laboratory corruing out the applyone undertake periodic participation in national and	INO	
InternatCaleb	Q5	Does the laboratory carrying out the analyses undertake periodic participation in national and,		
		where possible, international laboratory proficiency schemes?	Yes	
ChileadCommiss	00	If the answer to questions 4 or 5 is 'Yes' then does the laboratory analyse samples of		
SpikedSamples	Q6	substances which are provided by the organisers of the scheme?	Yes	
		If the answer to questions 4 or 5 is 'Yes' then does the laboratory confirm that the composition		
BlindSamples		of those samples is not disclosed in advance?	Yes	
		If the answer to questions 4 or 5 is 'Yes' then does the laboratory confirm that the results of the	1 63	
DL.				
Ranking	US	scheme for each participating laboratory are made available to all participating laboratories?	V	
			Yes	
FracAnal		Enter the size fraction that is analysed i.e. Whole or less than 63µm etc.	Whole	
		PSA method		
GranMeth	Q10			
		Organic Carbon method	Carbon analyse	er following inorganic carbon removal
<b>OCMeth</b>	Q11	•	,	
	<b> </b>			
	1	Method of extraction used for metal analysis		
MotEvtrTvno	Q12	· ·		
MetExtrType	Q12			
	-			
		Method of detection used for metal analysis		
MethOfDetMetals	Q13			
		Method of extraction used for poly aromatic hydrocarbon analysis		
<b>PAHExtrType</b>	Q14			
		Method of detection used for poly aromatic hydrocarbons analysis		
MethOfDetPAH	Q15	· · · · · · · · · · · · · · · · · · ·		
		Method of extraction used for organohalogens inc PCBs, pesticides, flame retardants etc		
OHEVETURA		analysis		
OHExtrType	الا	anaryoro		
		Mathod of detection used for organizations in DODs, westigides flower veteral sets at		
MethOfDetOH		Method of detection used for organohalogens inc PCBs, pesticides, flame retardants etc		
	Q17	analysis		
OTExtrType		Method of extraction used for organotin analysis		
	Q18	şi İ		
		Method of detection used for organotin analysis		
MethOfDetOT	Q19	· · · · · · · · · · · · · · · · · · ·		
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	i			
	U	LOD/LOQ	Precision (%)	Recovery (%)
	Hg As			
	Cd			
	Cu			
ma/ka	Pb			
mg/kg	Zn			
	Cr			
	Ni TBT			
	DBT			
	PCB28			
	PCB31			
	PCB44			
	PCB47			
	PCB49 PCB52			
	PCB32 PCB66			
	PCB101			
	PCB105			
	PCB110			
	PCB118			
	PCB128			
	PCB138+163 PCB141			
	PCB141 PCB149			
	PCB151			
	PCB153			
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	PCB170 PCB180			
	PCB183			
	PCB187			
	PCB194			
	DDE			
	DDT			
	DDD Dieldrin			
	Lindane			
	HCB			
	BDE17			
	BDE28			
μg/kg	BDE47			
	BDE66 BDE85			
	BDE99			
	BDE100			
	BDE138			
	BDE153			
	BDE154			
	BDE183 BDE209			
	ACENAPTH			
	ACENAPHY			
	ANTHRACN			
	BAA			
	BAP			
	BBF			
	BENZGHIP BEP			
	BKF			
	C1N			
	C1PHEN			
	C2N			
	C3N			
	CHRYSENE			
	DBENZAH FLUORENE			
	FLUORENE			
	INDPYR			
	NAPTH			
	PERYLENE			
	PHENANT			
	PYRENE			
	THC			

Grab Yes Core No