

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:
ms.marinelicensing@gov.scot

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

Polyaromatic Hydrocarbons (PAH)

Explanatory Notes:

Results above Action Level 1 will be highlighted in blue

Definitions:

ACENAPTH	Acenaphthene
ACENAPHY	Acenaphthylene
ANTHRACN	Anthracene
BAA	Benzo(a)anthracene
BAP	Benzo(a)pyrene
BBF	Benzo(b)fluoranthene
BEP	Benzo(e)pyrene
BENZGHP	Benzo(ghi)perylene
BKF	Benzo(k)fluoranthene
C1N	C1-naphthalenes
C1PHEN	C1-phenanthrenes
C2N	C2-naphthalenes
C3N	C3-naphthalenes
CHRYSENE	Chrysene
DBENZAH	Dibenz(a,h)anthracene
FLUORANT	Fluoranthene
FLUORENE	Fluorene
INDPYR	Indeno(1,2,3-cd)pyrene
NAPHTH	Naphthalene
PERYLENE	Perylene
PHENANTH	Phenanthrene
PYRENE	Pyrene
THC	Total Hydrocarbon Content

Sample Information:

Sample ID	Dredge area	Type of sample	Sample depth (m)	µg/g																									
				ACENAPTH	ACENAPHY	ANTHRACN	BAA	BAP	BBF	BEP	BENZGHP	BKF	C1N	C1PHEN	C2N	C3N	CHRYSENE	DBENZAH	FLUORANT	FLUORENE	INDPYR	NAPHTH	PERYLENE	PHENANTH	PYRENE	THC			
MAR01969.001	SL01	Grab	0	43.1	15.9	76.9	166	206	194										43.8	147	26.6								
MAR01969.002	SL02	Grab	0	2.19	15.9	6.79	47	64.9	48.9						35.9	43.9			46.9	6.98	70.8	7.99	36.6	14.7		18.6	56.1	32400	
MAR01969.003	SL04	Grab	0	<1	<1	2.04	4.75	5.85	9.54						9.27	1.18	16		8.13	8.37			<1	<1	4.3	8.41	20.9	14900	
MAR01969.004	SL05	Grab	0	1.27	<1	2.01	3.25	5.05	6.26						4.94	5.89			4.94	5.89			2.11	3.79	1.47	3.65	9.99	13600	
MAR01969.005	SL06	Grab	0	<1	<1	1.01	2.12	4.21	9.06						3.76	<1	4.29	<1		4.83	5.75			<1	<1	3.16	2.3	7.98	19400
MAR01969.006	SL07	Grab	0	33	4.82	25	130	91.3	25						154	13.8	243			16.2	34.1	16.9			138	269	92500		
MAR01969.007	SL08	Grab	0	<1	<1	1.98	5.35	7.47	10.5						7.33	6.34							1.19	5.25	1.31	7.33	17.3	17100	
MAR01969.009	SL10	Grab	0	5.19	1.95	11.4	25.9	28.9	35.6						22.6	23.6			36.1	3.64	65.6	9.44	12.9	10.5	51.6	97.3	33000		
MAR01969.010	SL11	Grab	0	2.51	1.26	6.78	10.5	12.3	15.7						10	14			15.1	1.66	29.3	4.87	7.02	4.77	16.9	43.4	22200		
MAR01969.011	SL12	Grab	0	7.16	3.14	12.5	40.7	53.4	61.2						63.3	44.4			51.9	7.99	74.7	12.5	27	10.9	77.8	117	60300		
MAR01969.012	SL13	Grab	0	11.1	4.13	14.4	96.8	93	88						165	13.8	286			174	25.6	23.9			224	173	116900		
MAR01969.013	SL14	Grab	0	29.4	20	39.3	182	136	117						114	16.6	248			25	95.5	19			83.9	300	161000		
MAR01969.014	SL15	Grab	0	6.83	6.73	16.1	45.3	58.4	41.9						56.7	52.4			59.5	7.86	85.7	9.79	37.4	11.3	57.1	111	108300		
MAR01969.015	SL16	Grab	0	21.9	11.7	66	136	154	157						110	118			146	16.5	245	27.1	85.9	22.5	117	253	161000		
MAR01969.016	SL17	Grab	0	16.6	9.08	31.6	74	81.9	85.1						68.1	78.9			78.7	8.28	186	22	46.7	28.1	87.5	186	130000		
MAR01969.017	SL18	Grab	0	9.79	5.8	20.6	30.4	30.1	28.9						25.7	28.5			34.1	3.56	56.6	20.9	16.5	20.9	146	77	75300		
MAR01969.018	SL19	Grab	0	7.63	7.84	25.1	47.2	61.9	52.5						47.8	58.7			55.9	7.65	95	14.1	35.3	15.1	57.3	122	101000		
MAR01969.019	SL20	Grab	0	18.5	39.5	49.6	99.9	155	169						115	153			119	21.2	224	31	90.8	35	105	256	191000		
MAR01969.020	SL21	Grab	0	9.78	10.7	27.4	99.4	70.3	63.2						64.4	78.4				10	128	16.7	40	20.2	54.7	150	130000		
MAR01969.021	SL22	Grab	0	19.9	12.6	44.3	77.2	116	93.8						77.6	105			89.9	13.3	195	27.7	63.8	41.5	97.6	225	130000		
MAR01969.022	SL23	Grab	0	12.9	5.87	34.9	118	127	116						72.7	108			133	14	267	14.9	66.3	12.4	109	281	114000		
MAR01969.023	SL24	Grab	0	12.2	6.87	36.9	77.8	91.3	96.8						70.3	76.5			93.5	19.9	177	18.6	50.9	21.9	86.8	213	117000		
MAR01969.024	SL25	Grab	0	14	6.41	39	122.6	89	70.6						54.8	73.7			73.4	7.53	105	22.3	35.4	21.4	68.6	190	112900		
MAR01969.025	SL26	Grab	0	39.3	19.4	73.9	145	178	147						159	167			167	21.5	318	46.8	197	49.5	230	333	289000		
MAR01969.026	SL27	Grab	0	48.4	10.1	113	172	184	159						122	157			193	23.1	477	50.6	158	25	343	436	210000		
MAR01969.027	SL28	Grab	0	26	12.1	57.7	154	192	172						151	174			11	26.4	354	38.7	122	31.6	162	265	414000		
MAR01969.028	SL29	Grab	0	8.37	4.46	22.1	48.3	68.6	55.1						50.2	53			52.3	7.71	88.6	11.8	33.5	25.8	47.7	123	164000		
MAR01969.029	SL30	Grab	0	25.4	28.2	102	249	330	297						297	303			226	41.9	578	51	297	55.2	139	659	952000		
MAR01969.030	SL31	Grab	0	19.5	7.86	39	64.4	77.4	63.8						71.7	12.2	148		71.7	12.2	148	23.4	48.7	26.2	73.5	162	219000		
MAR01969.031	SL32	Grab	0	40.2	18.3	104	222	229	212						183	191			237	33.1	697	57.8	140	37	287	624	504000		
MAR01969.032	SL33	Grab	0	74.6	31.6	107	245	318	300						263	260			269	51.4	499	96.7	222	96	314	594	924000		
MAR01969.033	SL34	Grab	0	62.6	84	269	789	830	740						620	716			866	115	1670	133	882	85.3	740	1510	1000000		
MAR01969.034	SL35	Grab	0	15.6	10.7	40.7	97.8	116	111						107	102			69	19.3	184	31.1	79.6	37.6	113	221	349000		
MAR01969.035	SL36	Grab	0	25.6	21.5	59.3	189	261	237						190	220			190	37	393	42.3	199	46.3	140	384	1010000		
MAR01969.036	SL37	Grab	0	37.3	23.9	86.5	223	285	250						232	248			249	44.9	466	63.3	209	52.9	206	451	1220000		
MAR01969.037	SL38	Grab	0	8.33	26.3	21.7	86.4	146	124						120	114			93.7	21.5	191	18.7	199	19.5	64	169	212000		
MAR01969.038	SL39	Grab	0	7.27	9.48	14.1	36	71.4	71.1						69.2	62.1			44	11.8	72.5	14.1	47.9	21.9	60.5	166	134000		
MAR01969.039	SL40	Grab	0	12.1	18.2	26.8	58.7	120	111						117	98.3			70	20.4	118	20.2	97.6	24.8	82	159	198000		
MAR01969.040	SL41	Grab	0	32.2	22.1	72.8	164	297	239						221	222			216	37.9	395	46.3	189	55	225	490	165000		
MAR01969.041	SL42	Grab	0	31.9	21.7	82.8	193	278	252						216	201			216	45.1	386	46.7	211	51.6	202	392	1970000		
MAR01969.042	SL43	Grab	0	31.9	23	72.9	175	248	216						205	210			193	36.8	371	48.3	190	46.3	205	359	1950000		
MAR01969.043	SL44	Grab	0	27.9	22.2	78.1	197	295	255						224	239			221	42.8	394	52.1	215	48.7	202	424	1640000		
MAR01969.044	SL45	Grab	0	24.5	19.6	65.9	175	250	227						211	208			197	41.3	352	44.8	176	46	176	348	1760000		
MAR01969.045	SL46	Grab	0	24.9	17.2	69.4	182	256	233						216	215			192	37.9	383	43.5	181	41.6	162	362	1990000		
MAR01969.046	SL47	Grab	0	86.9	62.6	292	705	1030	948						827	915			629	153	1460	178	743	261	743	1530	1790000		
MAR01969.047	SL48	Grab	0	37	115	268	698	1030	1010						913	927			794	172	1350	148	699	187	657	1450	1900000		
MAR01969.048	SL49	Grab	0	101	74	251	629	884	852						754	757			695	141	1329	174	638	155	609	1300	1830000		
MAR01969.049	SL50	Grab	0	110	189	351	891	1040	950						895	859			767	155	1400	201	797	182	666	1460	1950000		
MAR01969.050	SL51	Grab	0	126	106	221	593	961	872						772	825			689	148	1200	149	719	174	628	1240	1930000		
MAR01969.051	SL52	Grab	0	332	247	1130	1800	2090	2090						1650	1870			2090	313	4140	435	1710	349	872	3630	7060000		
MAR01969.052	SL53	Grab	0	96.4	98.3	234	596	884	819						726	769			688	125	1150	163	667	172	598	1160	2080000		

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:

Sample ID	Unit of measurement		
Total Solids	%	56.8	
Gravel	%	5.91	
Sand	%	59.42	
Silt	%	34.67	
Arsenic (As)	mg/kg	8	
Cadmium (Cd)		0.19	
Chromium (Cr)		43.9	
Copper (Cu)		21.1	
Mercury (Hg)		0.14	
Nickel (Ni)		18.2	
Lead (Pb)		34.8	
Zinc (Zn)		90.5	
Dibutyltin (DBT)		0.003	
Tributyltin (TBT)		0.001	
Acenaphth		µg/kg	38.4
Acenaphthylene			29.5
Anthracn			98.4
BAA			242
BAP	321		
BBF	289		
BEP			
Benzghip	259		
BKF	270		
C1N			
C1PHEN			
C2N			
C3N			
Chrysene	267		
Debenzah	46.7		
Flurant	518		
Fluorene	60.8		
Indypr	228		
naph	58.2		
perylene			
phenant	253		
pyrene	523		
THC	263658		
PCB28	0.82		
PCB52	1.55		
PCB101	1.16		
PCB118	1.24		
PCB138	1.05		
PCB153	1.2		
PCB18			
PCB105			
PCB110			
PCB128			
PCB141			
PCB149			
PCB151			
PCB156			
PCB158			
PCB170			
PCB180	0.65		
PCB183			
PCB187			
PCB194			
PCB31			
PCB44			
PCB47			
PCB49			
PCB66			
ICES7	7.67		
AHCH			
BHCH			
GHCH			
DIELDRIN			
HCB			
DDE			
DDT			
TDE			
BDE100			
BDE138			
BDE153			
BDE154			
BDE17			
BDE183			
BDE209			
BDE28			
BDE47			
BDE66			
BDE85			
BDE99			

Comments:

Laboratory Details

Explanatory Notes:
Please complete a separate worksheet for each laboratory (e.g. complete 'Laboratory_1' worksheet for 1 laboratory and complete 'Laboratory_2' worksheet for a second laboratory). If there are more than 3 laboratories then please contact MS-LOT.

Laboratory 1 Details:
Laboratory name: SOCOTEC UK
Year: 2023

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 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	Q4	Does the laboratory carrying out the analyses undertake periodic participation in interlaboratory comparison exercises, including, where possible, international comparison exercises?	Yes
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.	<63µm(metals)
GranMeth	Q10	PSA method	Distribution by wet & dry sieving and laser diffraction
OCMeth	Q11	Organic Carbon method	Carbonate removal and sulfurous acid/combustion at 1600°C/NDIR,
MetExtrType	Q12	Method of extraction used for metal analysis	Aquaregia
MethOfDetMetals	Q13	Method of detection used for metal analysis	ICP-MS
PAHExtrType	Q14	Method of extraction used for poly aromatic hydrocarbon analysis	Methano/DCM solvent extraction with silica clean up and copper clean up stages
MethOfDetPAH	Q15	Method of detection used for poly aromatic hydrocarbons analysis	GCMS
OHExtrType	Q16	Method of extraction used for organohalogens inc PCBs, pesticides, flame retardants etc analysis	Ultrasonic acetone/hexane solvent extraction
MethOfDetOH	Q17	Method of detection used for organohalogens inc PCBs, pesticides, flame retardants etc analysis	GCMSMS
OTExtrType	Q18	Method of extraction used for organotin analysis	Derivatisation and solvent extraction
MethOfDetOT	Q19	Method of detection used for organotin analysis	GCMS

		LOD/LOQ	Precision (%)	Recovery (%)
mg/kg	Hg	0.01	4.2	87
	As	0.5	2.7	94
	Cd	0.04	3.6	95
	Cu	0.5	2.9	95
	Pb	0.5	3	84
	Zn	2	2.6	101
	Cr	0.5	3.1	96
	Ni	0.5	3.6	119
	TBT	0.001	12.62	57
	DBT	0.001	12.62	75
	PCB28	0.08	12.56	67
	µg/kg	PCB31		
PCB44				
PCB47				
PCB49				
PCB52		0.08	6.999	101
PCB66				
PCB101		0.08	8.43	92
PCB105				
PCB110				
PCB118		0.08	14.61	99
PCB128				
PCB138+163		0.08	12.93	109
PCB141				
PCB149				
PCB151				
PCB153		0.08	7.41	88
PCB156				
PCB158				
PCB170				
PCB180		0.08	9.85	91
PCB183				
PCB187				
PCB194				
DDE				
DDT				
DDD				
Dieldrin				
Lindane				
HCB				
BDE17				
BDE28				
BDE47				
BDE66				
BDE85				
BDE99				
BDE100				
BDE138				
BDE153				
BDE154				
BDE183				
BDE209				
ACENAPTH		1	6.68	65
ACENAPHY		1	7.74	114
ANTHRACN		1	4.95	66
BAA		1	9.8	66
BAP		1	9.07	58
BBF		1	8.44	85
BENZGHIP		1	13.46	66
BEP				
BKF		1	8.9	76
C1N				
C1PHEN				
C2N				
C3N				
CHRYSENE	1	7.87	86	
DBENZAH	1	19.23	101	
FLUORENE	1	5.25	57	
FLUORANT	1	4.36	79	
INDPYR	1	17.1	67	
NAPTH	1	3.02	61	
PERYLENE				
PHENANT	1	5.41	79	
PYRENE	1	4.29	70	
THC	100	N/A	89	

Laboratory Details

Explanatory Notes:
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Laboratory 2 Details:

Laboratory name:	
Year:	

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?	
CompAnal	Q2	Does the laboratory carrying out the analyses undertake periodic comparative analysis of laboratory reference materials and certified reference materials?	
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?	
InterlabCaleb	Q4	Does the laboratory carrying out the analyses undertake periodic participation in interlaboratory comparison exercises, including, where possible, international comparison exercises?	
InternatCaleb	Q5	Does the laboratory carrying out the analyses undertake periodic participation in national and, where possible, international laboratory proficiency schemes?	
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?	
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?	
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?	
FracAnal	Q9	Enter the size fraction that is analysed i.e. Whole or less than 63µm etc.	
GranMeth	Q10	PSA method	
OCMeth	Q11	Organic Carbon method	
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	
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	

		LOD/LOQ	Precision (%)	Recovery (%)
mg/kg	Hg			
	As			
	Cd			
	Cu			
	Pb			
	Zn			
	Cr			
	Ni			
	TBT			
	DBT			
	PCB28			
	PCB31			
µg/kg	PCB44			
	PCB47			
	PCB49			
	PCB52			
	PCB66			
	PCB101			
	PCB105			
	PCB110			
	PCB118			
	PCB128			
	PCB138+163			
	PCB141			
	PCB149			
	PCB151			
	PCB153			
	PCB156			
	PCB158			
	PCB170			
	PCB180			
	PCB183			
	PCB187			
	PCB194			
	DDE			
	DDT			
	DDD			
	Dieldrin			
	Lindane			
	HCB			
	BDE17			
	BDE28			
	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				
PERYLENE				
PHENANT				
PYRENE				
THC				

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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?	
FracAnal	Q9	Enter the size fraction that is analysed i.e. Whole or less than 63µm etc.	
GranMeth	Q10	PSA method	
OCMeth	Q11	Organic Carbon method	
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	
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	

		LOD/LOQ	Precision (%)	Recovery (%)
mg/kg	Hg			
	As			
	Cd			
	Cu			
	Pb			
	Zn			
	Cr			
	Ni			
	TBT			
	DBT			
	µg/kg	PCB28		
PCB31				
PCB44				
PCB47				
PCB49				
PCB52				
PCB66				
PCB101				
PCB105				
PCB110				
PCB118				
PCB128				
PCB138+163				
PCB141				
PCB149				
PCB151				
PCB153				
PCB156				
PCB158				
PCB170				
PCB180				
PCB183				
PCB187				
PCB194				
DDE				
DDT				
DDD				
Dieldrin				
Lindane				
HCB				
BDE17				
BDE28				
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				
PERYLENE				
PHENANT				
PYRENE				
THC				

Grab	Yes
Core	No