

Appendix 6.1 - Summary of Chemical Screening Result and Disposal Options

Sampling ID	Sampling Date	Sub-sample Depth (mPD)		Sub-sample Depth (m bgl)		LMW PAHs ¹	HMW PAHs ²	Total PCB ³	Cd	Cr	Cu	Ni	Pb	Zn	Hg	As	Ag	TBT	Overall Classification	Sample require Biological Test?	Biological Test Pass?	Disposal Option ⁴
		From	To	From	To	µg/kg	µg/kg	µg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg				
LCEL						550	1700	23	1.5	80	65	40	75	200	0.5	12	1	0.15				
UCEL						3160	9600	180	4	160	110	40	110	270	1	42	2	0.15				
MBS02#1	3/12/2018	-3.94	-4.84	0.00	0.90	<55	<75	<23	<0.2	30	27	19	40	96	0.12	<u>14</u>	0.3	<0.015	Category M	Yes	Pass	Type 1*
MBS02#3	3/12/2018	-4.84	-5.84	0.90	1.90	<55	<75	<23	<0.2	31	26	20	39	92	0.10	<u>13</u>	0.3	<0.015	Category M	Yes	Pass	Type 1*
MBS02#5	3/12/2018	-5.84	-6.84	1.90	2.90	<55	<75	<23	<0.2	28	12	19	27	73	<0.05	7	<0.1	<0.015	Category L	No	NA	Type 1
MBS02#7	3/12/2018	-6.84	-7.84	2.90	3.90	<55	<75	<23	<0.2	30	13	20	28	75	<0.05	7	0.1	<0.015	Category L	No	NA	Type 1
MBS02#13	3/12/2018	-9.94	-10.84	6.00	6.90	<55	<75	<23	<0.2	27	11	18	29	69	<0.05	7	<0.1	<0.015	Category L	No	NA	Type 1
MBS02#19	3/12/2018	-12.84	-13.84	8.90	9.90	<55	<75	<23	<0.2	30	12	19	29	70	<0.05	7	<0.1	<0.015	Category L	No	NA	Type 1
MBS02#25	3/12/2018	-15.94	-16.84	12.00	12.90	<55	<75	<23	<0.2	27	14	16	34	63	<0.05	12	0.1	<0.015	Category L	No	NA	Type 1
MBS02#31	3/12/2018	-18.84	-19.84	14.90	15.90	<55	<75	<23	<0.2	26	13	14	38	65	<0.05	<u>14</u>	0.1	<0.015	Category M	Yes	Pass	Type 1*
MBS01#1	3/13/2018	-4.55	-5.45	0.00	0.90	<55	<75	<23	<0.2	35	34	22	47	107	0.14	<u>14</u>	0.5	<0.015	Category M	Yes	Pass	Type 1*
MBS01#3	3/13/2018	-5.45	-6.45	0.90	1.90	<55	<75	<23	<0.2	29	21	18	37	76	0.06	12	0.2	<0.015	Category L	No	NA	Type 1
MBS01#5	3/13/2018	-6.45	-7.45	1.90	2.90	<55	<75	<23	<0.2	30	13	19	28	73	<0.05	9	<0.1	<0.015	Category L	No	NA	Type 1
MBS01#7	3/13/2018	-7.45	-8.45	2.90	3.90	<55	<75	<23	<0.2	28	12	19	28	71	<0.05	8	<0.1	<0.015	Category L	No	NA	Type 1
MBS01#13	3/13/2018	-10.55	-11.45	6.00	6.90	<55	<75	<23	<0.2	29	12	19	29	71	<0.05	7	<0.1	<0.015	Category L	No	NA	Type 1
MBS01#19	3/13/2018	-13.45	-14.45	8.90	9.90	<55	<75	<23	<0.2	29	12	19	29	70	<0.05	8	<0.1	<0.015	Category L	No	NA	Type 1
MBS01#25	3/13/2018	-16.55	-17.45	12.00	12.90	<55	<75	<23	<0.2	15	7	8	31	36	<0.05	7	<0.1	<0.015	Category L	No	NA	Type 1
Reference Sample	3/19/2017	Surface		Surface		<55	<75	<23	<0.2	29	14	19	34	74	<0.05	7	0.7	<0.015	Category L	No	NA	Type 1

Notes:

1. LMW PAHs - Low molecular weight PAHs included acenaphthene, acenaphthylene, anthracene, fluorene, naphthalene and phenanthrene.

2. HMW PAHs - High molecular weight PAHs included benzo[a]anthracene, benzo[a]pyrene, chrysene, dibenzo[a,h]anthracene, flouranthene, pyrene, benzo[b]fluoranthene, benzo[k]fluoranthene, indeno[1,2,3-c,d]pyrene and benzo[g,h,i]perylene.

3. Total PCBs includes 2,4' diCB, 2,2',5' triCB, 2,4,4' triCB, 2,2',3,5' tetraCB, 2,2',5,5' tetraCB, 2,3',4,4' tetraCB, 3,3',4,4' tetraCB, 2,2',4,5,5' pentaCB, 2,3,3',4,4' pentaCB, 2,3',4,4',5 pentaCB, 3,3',4,4',5 pentaCB, 2,2',3,3',4,4' hexaCB, 2,2',3,4,4',5' hexaCB, 2,2',4,4',5,5' hexaCB, 3,3',4,4',5,5' hexaCB, 2,2',3,3',4,4',5 heptaCB, 2,2',3,4,4',5,5' heptaCB, 2,2',3,4',5,5',6 heptaCBpyrene, benzo[b]fluoranthene, benzo[k]fluoranthene, indeno[1,2,3-c,d]pyrene and benzo[g,h,i]perylene.

4. Type 1: Open Sea Disposal

Type 1*: Open Sea Disposal (Dedicated Site)

Type 2: Confined Marine Disposal

Type 3: Special Treatment / Disposal

^ Underlined value indicates exceedance of LCEL.

Bolded value indicates exceedance of UCEL.

Bolded and underlined value indicates that the value exceeds 10 times of LCEL.

NA: Not Applicable