



Ocean Ecology

Marine Surveys, Analysis & Consultancy

Fish Holm SLICE Compliance Survey 2024

REF: OEL_SSFFHO0724_SLICE_V02



Details

Version	Date	Description	Author(s)	Reviewed By
V02	30/09/2024	Client Submission		

Updates

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V02	TOC and SLICE Update	3,5

1. SLICE

Table 1 Results of SLICE analysis.

Slice™	(µg/kg Wet weight)											
REPLICATE	B1	B2	B3	B4	B5	B6	C1	C2	C3	C4	C5	C6
Replicate 1	<0.01	<0.01	0.02	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	0.01	0.01	0.01
Replicate 2	0.01	<0.01	0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	0.01	0.01	0.01
Replicate 3	<0.01	<0.01	0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	0.01	0.01	0.01

Table 2 Raw data SLICE analysis.

		Units	%	µg/kg	µg/kg (Dry Weight)
		Limit of Detection	0.2	0.01	0.01
OEL Reference	Matrix	Total Moisture @ 120°C	Emamectin Benzoate	Emamectin Benzoate	
Fish Holm B1 - Slice 1 of 3 S1	Sediment	30.40	<0.01	<0.01	
Fish Holm B1 - Slice 2 of 3 S2	Sediment	32.30	0.010	0.015	
Fish Holm B1 - Slice 3 of 3 S3	Sediment	28.50	<0.01	<0.01	
Fish Holm B2 - Slice 1 of 3 S1	Sediment	34.40	<0.01	<0.01	
Fish Holm B2 - slice 2 of 3 S2	Sediment	33.20	<0.01	<0.01	
Fish Holm B2 - Slice 3 of 3 S3	Sediment	32.60	<0.01	<0.01	
Fish Holm B3 - Slice 1 of 3 S1	Sediment	36.90	0.020	0.032	
Fish Holm B3 - Slice 2 of 3 S2	Sediment	36.40	0.010	0.016	
Fish Holm B3 - Slice 3 of 3 S3	Sediment	33.90	0.010	0.015	
Fish Holm B4 - Slice 1 of 3 S1	Sediment	33.80	<0.01	<0.01	
Fish Holm B4 - Slice 2 of 3 S2	Sediment	34.90	<0.01	<0.01	
Fish Holm B4 - Slice 3 of 3 S3	Sediment	33.80	<0.01	<0.01	
Fish Holm B5 - Slice 1 of 3 S1	Sediment	34.00	<0.01	<0.01	
Fish Holm B5 - Slice 2 of 3 S2	Sediment	32.10	<0.01	<0.01	

Fish Holm B5 - Slice 3 of 3 S3	Sediment	33.50	<0.01	<0.01
Fish Holm B6 - Slice 1 of 3 S1	Sediment	35.20	0.010	0.015
Fish Holm B6 - Slice 2 of 3 S2	Sediment	35.70	0.010	0.016
Fish Holm B6 - Slice 3 of 3 S3	Sediment	33.80	0.010	0.015
Fish Holm C1 - Slice 1 of 3 S1	Sediment	32.80	<0.01	<0.01
Fish Holm C1 - Slice 2 of 3 S2	Sediment	33.00	<0.01	<0.01
Fish Holm C1 - Slice 3 of 3 S3	Sediment	30.80	<0.01	<0.01
Fish Holm C2 - Slice 1 of 3 S1	Sediment	34.00	<0.01	<0.01
Fish Holm C2 - Slice 2 of 3 S2	Sediment	25.00	<0.01	<0.01
Fish Holm C2 - Slice 3 of 3 S3	Sediment	34.30	<0.01	<0.01
Fish Holm C3 - Slice 1 of 3 S1	Sediment	31.10	<0.01	<0.01
Fish Holm C3 - Slice 2 of 3 S2	Sediment	35.80	<0.01	<0.01
Fish Holm C3 - Slice 3 of 3 S3	Sediment	33.50	<0.01	<0.01
Fish Holm C4 - Slice 1 of 3 S1	Sediment	36.90	0.010	0.016
Fish Holm C4 - Slice 2 of 3 S2	Sediment	33.60	0.010	0.015
Fish Holm C4 - Slice 3 of 3 S3	Sediment	37.80	0.010	0.016
Fish Holm C5 - Slice 1 of 3 S1	Sediment	35.30	0.010	0.015
Fish Holm C5 - Slice 2 of 3 S2	Sediment	34.50	0.010	0.015
Fish Holm C5 - Slice 3 of 3 S3	Sediment	38.60	0.010	0.016
Fish Holm C6 - Slice 1 of 3 S1	Sediment	35.10	0.010	0.015
Fish Holm C6 - Slice 2 of 3 S2	Sediment	36.00	0.010	0.016
Fish Holm C6 - Slice 3 of 3 S3	Sediment	38.00	0.010	0.016
Reference Material (% Recovery)		–	56	-

2. TOC

Table 3 Total Organic Carbon.

DETERMINAND	B1	B2	B3	B4	B5	B6	C1	C2	C3	C4	C5	C6
carbon (%)	0.85	0.65	0.8	0.78	0.73	0.78	0.64	0.69	0.6	0.69	0.85	0.76
SEPA Action Level (%)	9	9	9	9	9	9	9	9	9	9	9	9

3. Particle Size Distribution (PSD)

Table 4 PSD summary statistics.

PARAMETER	B1	B2	B3	B4	B5	B6	C1	C2	C3	C4	C5	C6
% < 0.063 mm	8.67	1.26	3.54	1.53	2.07	1.11	0.77	3.45	2.90	2.33	2.68	2.72
% 0.125 - 0.063 mm	3.05	1.61	3.21	3.00	1.62	2.60	1.22	0.91	2.46	1.69	3.68	3.07
% 0.25 - 0.125 mm	10.26	7.47	16.34	16.86	8.98	12.82	7.12	1.63	11.03	4.99	14.99	13.93
% 0.5 - 0.25 mm	30.32	23.36	32.95	33.52	24.57	27.23	24.28	4.53	31.61	9.30	29.44	30.49
% 1 - 0.5 mm	20.49	18.56	20.66	20.25	19.69	21.04	21.23	3.76	25.91	7.15	21.19	26.33
% 2 - 1 mm	17.72	36.01	14.53	15.41	26.35	21.33	8.96	31.79	19.69	20.62	20.26	17.51
% 4 - 2 mm	9.31	11.22	4.61	6.84	10.75	8.50	4.37	30.62	5.58	10.21	5.39	5.64
% 8 - 4 mm	0.18	0.51	1.01	1.90	1.47	2.10	5.60	17.99	0.82	6.16	1.98	0.32
% > 8 mm	0.00	0.00	3.14	0.71	4.49	3.28	26.45	5.32	0.00	37.54	0.37	0.00
Degree of sorting	Poorly Sorted	Poorly Sorted	Poorly Sorted	Poorly Sorted	Poorly Sorted	Poorly Sorted	Very Poorly Sorted	Poorly Sorted	Poorly Sorted	Very Poorly Sorted	Poorly Sorted	Poorly Sorted
Degree of skewness	Symmetrical	Fine Skewed	Coarse Skewed	Coarse Skewed	Coarse Skewed	Coarse Skewed	Very Coarse Skewed	Symmetrical	Symmetrical	Symmetrical	Symmetrical	Symmetrical
Degree of kurtosis	Leptokurtic	Platykurtic	Leptokurtic	Mesokurtic	Mesokurtic	Mesokurtic	Very Platykurtic	Very Leptokurtic	Mesokurtic	Platykurtic	Mesokurtic	Mesokurtic
Folk Triangle	Coarse Sand	Coarse Sand	Medium Sand	Coarse Sand	Coarse Sand	Coarse Sand	Very Coarse Sand	Very Fine Gravel	Coarse Sand	Very Fine Gravel	Coarse Sand	Coarse Sand

Table 5 PSD Overview.

PARAMETER	B1	B2	B3	B4	B5	B6	C1	C2	C3	C4	C5	C6
> 2mm (%)	9.49	11.73	8.76	9.45	16.71	13.88	36.43	53.94	6.41	53.92	7.75	5.96
< 63 µm (%)	8.67	1.26	3.54	1.53	2.07	1.11	0.77	3.45	2.90	2.33	2.68	2.72
Mean (mm)	0.5111	0.7848	0.4890	0.5130	0.7365	0.6403	1.8085	2.3930	0.5556	2.4960	0.5226	0.5149
Std Dev (mm)	0.0035	0.0024	0.0027	0.0026	0.0029	0.0029	0.0063	0.0028	0.0024	0.0051	0.0026	0.0024
Phi	0.968	0.350	1.032	0.963	0.441	0.643	-0.855	-1.259	0.848	-1.320	0.936	0.958
Wentworth Classification	Coarse Sand	Coarse Sand	Medium Sand	Coarse Sand	Coarse Sand	Coarse Sand	Very Coarse Sand	Very Fine Gravel	Coarse Sand	Very Fine Gravel	Coarse Sand	Coarse Sand
Classification Description	Sand	Sand	Sand	Sand	Sand	Sand	Sand	Granules	Sand	Granules	Sand	Sand

Table 6 PSD raw data.

4. Appendix I

