Dorset Council

4 MAY 2023

[1] LYME REGIS MARINE SEDIMENT ANALYSIS: PESTICIDES								
SUBSTANCE		SAMPLE					[2] BENCHMARK LIMITS	
		Z1LR	Z2LR	Z3LR	Z4LR	Z5LR	[3] TEL	[4] PEL
Lindane								
alpha - Hexachlorcyclohexane	µg/Kg (Dry Weight)	<0.10	<0.10	<0.10	<0.10	<0.10	0.32	0.99
beta - Hexachlorcyclohexane	µg/Kg (Dry Weight)	<0.10	<0.10	<0.10	<0.10	<0.10	0.32	0.99
gamma - Hexachlorcyclohexane	µg/Kg (Dry Weight)	<0.10	<0.10	<0.10	<0.10	<0.10	0.32	0.99
Dieldrin	µg/Kg (Dry Weight)	<0.10	<0.10	<0.10	<0.10	<0.10	0.71	4.3
DDT's								
Dichloro diphenyl dichloroethane	µg/Kg (Dry Weight)	<0.10	<0.10	<0.10	<0.10	<0.10	1.22	7.81
Dichloro diphenyl dichloroethylene	µg/Kg (Dry Weight)	<0.10	<0.10	0.16	<0.10	<0.10	2.07	374
Dichloro diphenyl trichloroethane	µg/Kg (Dry Weight)	<0.10	<0.10	<0.10	<0.10	<0.10	1.19	4.77

Colour Key	
	Range where adverse effects rarely occur
	Range where adverse effects occasionally occur
	Range where adverse effects frequently occur

Notes:	
(1)	Analysis was done by a laboratory accredited by the *United Kingdom Accrediation Servic* e. No sample deviations which could compromise the integrity of the results were reported.
(2)	***Table 2. Interim marine sediment quality guidelines (ISQGs: dry weight), probable effect levels (PEL's; dry weight), and incidence (%) of adverse biological effects in concentration ranges defined by these values*** of the ***Canadian Sediment Quality Guidelines for the Protection of Aquatic Life*** . *The guidance* uses Threshold Effect Levels (TEL) and Probable Effect Levels (PEL). The levels are used to used to identify the three ranges of chemical concentrations, with regard to biological effects. *The first very adverse effects rarely occur, the second where adverse effects may occasionally occur and the third where adverse effects frequently occur.*
(3)	Threshold Effect Level. The minimal effect range within which adverse effects rarely occur.
(4)	Probable Effect Level - The probable effect range within which adverse effects frequently occur.