

Subject: An approach for PAH for Sligo

From: margot.cronin@marine.ie
Sent: 09 January 2019 11:37
To: Ciara Maxwell <c.maxwell@epa.ie>
Subject: An approach for PAH for Sligo

Hi Ciara,

I had a look at the ecotoxicology data for PAH in sediment. There are ERM (effects range median) and AETH (apparent effects threshold – high) data available for all but two of the US EPA PAH compounds. These ERM & AETH data indicate concentrations above which biological effects are likely, and are often used as a proxy for an upper action level in many states, in the absence of their own specific data. There are a variety of values for the individual PAH compounds.

The total ERM/AETH for (USEPA) sum of 16 PAH is 29040 ug kg⁻¹. As you can see, none of the values at Sligo exceed or approach that.

PAH Acenaphthene ug kg ⁻¹	PAH Acenaphthylene ug kg ⁻¹	PAH Anthracene ug kg ⁻¹	PAH Benzo (a) anthracene ug kg ⁻¹	PAH Benzo (a) pyrene ug kg ⁻¹	PAH Benzo (b) fluoranthene ug kg ⁻¹	PAH Benzo (ghi) perylene ug kg ⁻¹	PAH Benzo (k) fluoranthene ug kg ⁻¹	PAH Chrysene ug kg ⁻¹
23.2	4.18	68.7	132	112	107	71.3	60.7	99.1
185	12.3	437	624	585	468	315	256	448
139	16	322	489	416	389	269	201	439
231	20.4	531	803	689	590	383	327	480
500.00	640.00	1100.00	1600.00	1600.00	1880.00	2600.00	1620.00	2800.00

Hope this helps you.

All the best, Margot

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