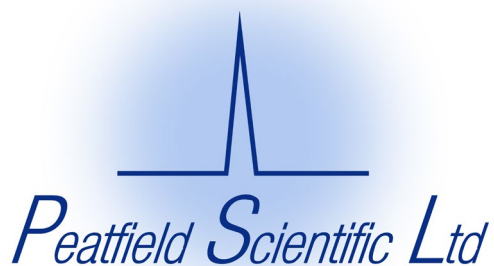


Report Number: 2023-0924ShapinsayC EMA


*ANALYTICAL LABORATORY SERVICES  
Chromatography Specialists*



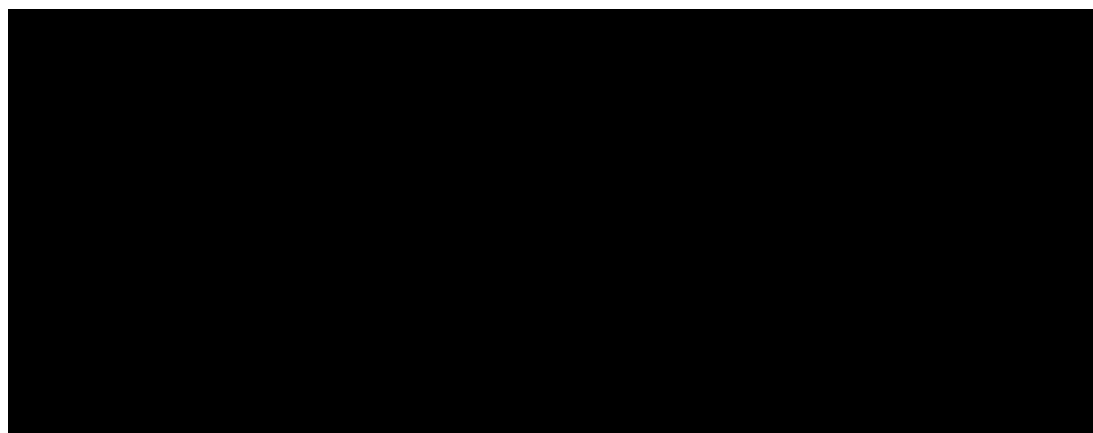
# Analytical Report

on Analysis of Marine Sediment Samples from Shapinsay C for  
Emamectin Benzoate

FOR:

  
Scottish Sea Farms  
Scapa Regional Office  
St Ola  
Orkney  
KW15 1SD

REPORT AUTHOR:



Job and Sample Information:	
Job No(s):	2023-0924
Client Order No/Reference:	SSF-069305
Date Sample(s) Received:	21 <sup>st</sup> September 2023
<b>Lab Code</b>	<b>Client Code</b>
See below	See below

<b>Methods</b>
Emamectin Benzoate by reversed phase HPLC

## Analytical Procedures

The samples were extracted and the emamectin benzoate was derivatized to give the *N*-trifluoroacetylated derivative. This was determined by reversed phase HPLC using fluorescence detection, and quantified using a series of external standards prepared from reference material. The limit of detection of the method used is typically about 0.1µg/kg wet weight. Quality control is achieved by monitoring recovery from standard addition to typical samples.

**Results**

The results are presented in the following table :

Sample Identity	Lab Code	Emamectin Benzoate B1a (µg/kg wet weight)
A1 #1	23/115830	ND
A1 #2	23/115831	ND
A1 #3	23/115832	ND
A2 #1	23/115833	ND
A2 #2	23/115834	ND
A2 #3	23/115835	ND
A3 #1	23/115836	ND
A3 #2	23/115837	ND
A3 #3	23/115838	ND
A4 #1	23/115839	ND
A4 #2	23/115840	ND
A4 #3	23/115841	ND
A5 #1	23/115842	ND
A5 #2	23/115843	ND
A5 #3	23/115844	ND
B1 #1	23/115845	ND
B1 #2	23/115846	ND
B1 #3	23/115847	ND
B2 #1	23/115848	ND
B2 #2	23/115849	ND
B2 #3	23/115850	ND
B3 #1	23/115851	ND
B3 #2	23/115852	ND
B3 #3	23/115853	ND
B4 #1	23/115854	ND
B4 #2	23/115855	ND
B4 #3	23/115856	ND
B5 #1	23/115857	ND
B5 #2	23/115858	ND
B5 #3	23/115859	ND

ND – Not detected (see above comment about limit of detection)