



ANALYSIS REPORT

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Client:	Whangawehi Catchment Management Group	Lab No:	1496750	SPV1
Contact:	Nicolas Caviale-Delzescaux C/- Whangawehi Catchment Management Group 720 East Coast Road RD 8 MAHIA 4198	Date Registered:	04-Nov-2015	
		Date Reported:	27-Nov-2015	
		Quote No:	72163	
		Order No:	N42474	
		Client Reference:	Biota testing	
		Submitted By:	Nicolas Caviale-Delzescaux	

Sample Type: Shellfish						
Sample Name:		Cockles	Mud Snails			
Lab Number:		1496750.1	1496750.2			
Individual Tests						
Arsenic	mg/kg as rcvd	0.98	0.82	-	-	-
Cadmium	mg/kg as rcvd	0.0175	0.033	-	-	-
Chromium	mg/kg as rcvd	0.33	0.47	-	-	-
Copper	mg/kg as rcvd	1.15	16.4	-	-	-
Lead	mg/kg as rcvd	0.054	0.179	-	-	-
Nickel	mg/kg as rcvd	1.03	0.64	-	-	-
Zinc	mg/kg as rcvd	7.4	6.5	-	-	-
Polycyclic Aromatic Hydrocarbons in Biomatter						
Acenaphthene*	mg/kg as rcvd	< 0.0005	< 0.0005	-	-	-
Acenaphthylene*	mg/kg as rcvd	< 0.0005	< 0.0005	-	-	-
Anthracene*	mg/kg as rcvd	< 0.0003	< 0.0002	-	-	-
Benzo[a]anthracene*	mg/kg as rcvd	< 0.0003	< 0.0002	-	-	-
Benzo[a]pyrene (BAP)*	mg/kg as rcvd	< 0.0003	< 0.0002	-	-	-
Benzo[b]fluoranthene + Benzo[j]fluoranthene*	mg/kg as rcvd	< 0.0003	< 0.0002	-	-	-
Benzo[g,h,i]perylene*	mg/kg as rcvd	0.0005	0.0003	-	-	-
Benzo[k]fluoranthene*	mg/kg as rcvd	< 0.0003	< 0.0002	-	-	-
Chrysene*	mg/kg as rcvd	0.0002	< 0.0002	-	-	-
Dibenzo[a,h]anthracene*	mg/kg as rcvd	< 0.0003	< 0.0002	-	-	-
Fluoranthene*	mg/kg as rcvd	0.0007	0.0007	-	-	-
Fluorene*	mg/kg as rcvd	< 0.0007	0.0005	-	-	-
Indeno(1,2,3-c,d)pyrene*	mg/kg as rcvd	< 0.0003	< 0.0002	-	-	-
Naphthalene*	mg/kg as rcvd	< 0.005	< 0.005	-	-	-
Phenanthrene*	mg/kg as rcvd	< 0.0016	0.0023	-	-	-
Pyrene*	mg/kg as rcvd	0.0012	0.0018	-	-	-

SUMMARY OF METHODS

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively clean matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis.

Sample Type: Shellfish			
Test	Method Description	Default Detection Limit	Sample No
Homogenisation of Biological samples for Organics Tests*	Mincing, chopping, or blending of sample to form homogenous sample fraction.	-	1-2
Shucking of Shellfish*	Removal of tissue from shell. Analysis performed at Hill Laboratories - Food & Bioanalytical Division, Waikato Innovation Park, Ruakura Lane, Hamilton.	-	1-2
Homogenise*	Mincing, chopping, or blending of sample to form homogenous sample fraction. Analysis performed at Hill Laboratories - Food & Bioanalytical Division, Waikato Innovation Park, Ruakura Lane, Hamilton.	-	1-2



Sample Type: Shellfish			
Test	Method Description	Default Detection Limit	Sample No
Biological Materials Digestion	Nitric and hydrochloric acid micro digestion, filtration. Analysis performed at Hill Laboratories - Food & Bioanalytical Division, Waikato Innovation Park, Ruakura Lane, Hamilton.	-	1-2
Polycyclic Aromatic Hydrocarbons in Biomatter*		0.0002 - 0.005 mg/kg as rcvd	1-2
Arsenic	Biological materials digestion, ICP-MS.	0.02 mg/kg as rcvd	1-2
Cadmium	Biological materials digestion, ICP-MS.	0.0004 mg/kg as rcvd	1-2
Chromium	Biological materials digestion, ICP-MS with dynamic reaction cell.	0.006 mg/kg as rcvd	1-2
Copper	Biological materials digestion, ICP-MS.	0.010 mg/kg as rcvd	1-2
Lead	Biological materials digestion, ICP-MS.	0.002 mg/kg as rcvd	1-2
Nickel	Biological materials digestion, ICP-MS.	0.02 mg/kg as rcvd	1-2
Zinc	Biological materials digestion, ICP-MS.	0.2 mg/kg as rcvd	1-2

These samples were collected by yourselves (or your agent) and analysed as received at the laboratory.

Samples are held at the laboratory after reporting for a length of time depending on the preservation used and the stability of the analytes being tested. Once the storage period is completed the samples are discarded unless otherwise advised by the client.

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