Hill Laboratories
BETTER TESTING BETTER RESULTS

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ANALYSIS REPORT

Client:	Greater Wellington	**Lab No:**	1694235	SPv1
Contact:	Dr John Drewry	**Date Received:**	09-Dec-2016	
	C/- Greater Wellington	**Date Reported:**	14-Dec-2016	
	The Regional Council	**Quote No:**	82561	
	PO Box 41	**Order No:**	228037	
	Masterton 5840	**Client Reference:**		
		Submitted By:	Dr John Drewry	

Sample Type: Soil

		Sample Name:	Composite of 1, 2, 3 and 4				
		Lab Number:	1694235.5				
Total Recoverable Arsenic	mg/kg dry wt		22	-	-	-	-
Total Recoverable Chromium	mg/kg dry wt		20	-	-	-	-
Total Recoverable Copper	mg/kg dry wt		55	-	-	-	-
Total Recoverable Iron	mg/kg dry wt		17,400	-	-	-	-
Total Recoverable Lead	mg/kg dry wt		121	-	-	-	-
Total Recoverable Manganese	mg/kg dry wt		830	-	-	-	-
Total Recoverable Zinc	mg/kg dry wt		300	-	-	-	-
pH*	pH Units		7.1	-	-	-	-

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: Soil

Test	Method Description	Default Detection Limit	Sample No
Environmental Solids Sample Preparation	Air dried at 35°C and sieved, <2mm fraction. Used for sample preparation. May contain a residual moisture content of 2-5%.	-	1-5
Soil Prep Dry & Sieve for Agriculture	Air dried at 35°C and sieved, <2mm fraction.	-	5
Total Recoverable digestion	Nitric / hydrochloric acid digestion. US EPA 200.2.	-	5
Composite Environmental Solid Samples*	Individual sample fractions mixed together to form a composite fraction.	-	1-4
Total Recoverable Arsenic	Dried sample, sieved as specified (if required). Nitric/Hydrochloric acid digestion, ICP-MS, screen level. US EPA 200.2.	2 mg/kg dry wt	5
Total Recoverable Chromium	Dried sample, sieved as specified (if required). Nitric/Hydrochloric acid digestion, ICP-MS, screen level. US EPA 200.2.	2 mg/kg dry wt	5
Total Recoverable Copper	Dried sample, sieved as specified (if required). Nitric/Hydrochloric acid digestion, ICP-MS, screen level. US EPA 200.2.	2 mg/kg dry wt	5
Total Recoverable Iron	Dried sample, sieved as specified (if required). Nitric/Hydrochloric acid digestion, ICP-MS, screen level. US EPA 200.2.	40 mg/kg dry wt	5
Total Recoverable Lead	Dried sample, sieved as specified (if required). Nitric/Hydrochloric acid digestion, ICP-MS, screen level. US EPA 200.2.	0.4 mg/kg dry wt	5
Total Recoverable Manganese	Dried sample, sieved as specified (if required). Nitric/Hydrochloric acid digestion, ICP-MS, screen level. US EPA 200.2.	1.0 mg/kg dry wt	5
Total Recoverable Zinc	Dried sample, sieved as specified (if required). Nitric/Hydrochloric acid digestion, ICP-MS, screen level. US EPA 200.2.	4 mg/kg dry wt	5
pH*	1:2 (v/v) soil : water slurry followed by potentiometric determination of pH.	0.1 pH Units	5

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.

Ara Heron BSc (Tech)
Client Services Manager - Environmental