

Food & Water Testing

ANALYTICAL REPORT

REPORT CODE	AR-24-NC-030838-01	REPORT DATE	09/10/2024
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Attention Veolia Water Services (ANZ) Pty Ltd
 NZ Queenstown Lab Results
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Copy to: QLDC Lab Results (lab.results@qldc.govt.nz), Soria
 (francisco.soria@veolia.com), Lado (maria.lado@veolia.com)

Contact for your orders: James Thornton	Order code: EUNZCH-00192821
Contract: Shotover WWTP	
Submission Reference: Biosolids round 2 - Shotover WWTP Sludge	Purchase Order Number: 7300390040

SAMPLE CODE	817-2024-00114651
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Sample Name Shotover WWTP Sludge
Reception Date & Time: 30/09/2024 11:58
Analysis Started on: 30/09/2024
Product Type Sludge
Sampler(s) Veolia

Analysis Ending Date: 09/10/2024
Sampled Date & Time 29/09/2024 12:00
Sampling Purpose Monitoring

RESULTS
LOQ

	RESULTS		LOQ
②NW499 Arsenic - Total			
Arsenic (As)	7.18	mg/kg	0.05
②NW504 Cadmium - Total			
Cadmium (Cd)	0.39	mg/kg	0.01
②NW507 Chromium - Total			
Chromium (Cr)	15.8	mg/kg	0.2
②NW509 Copper - Total			
Copper (Cu)	219	mg/kg	0.3
③NU122 Dry Matter (DM)			
Dry matter	17.8	%	0.1
③ZM0VI Enumeration (MPN) of Escherichia coli			
Escherichia coli	>1100	MPN/g	3
②NW510 Iron - Total			
Iron (Fe)	4600	mg/kg	3
②NW511 Lead - Total			
Lead (Pb)	6.2	mg/kg	0.1
②NW515 Mercury - Total			
Mercury (Hg)	0.3	mg/kg	0.1
②NW517 Nickel - Total			
Nickel (Ni)	12.6	mg/kg	0.2
③NU012 pH			
pH	6.5		1
②NU266 Phosphorus			
Phosphorus	0.4	%	0.1
②NU278 Potassium			
Potassium	0.1	%	0.1
②NW519 Potassium - Total			

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	RESULTS		LOQ
②NW519 Potassium - Total			
Potassium (K)	8400	mg/kg	10
②NU361 Total Nitrogen			
Total nitrogen	1.4	%	0.1
②NW330 Volatile Solids			
Volatile Solids	14	%	1
②NW528 Zinc - Total			
Zinc (Zn)	250	mg/kg	1

LIST OF METHODS			
NU012	pH: Internal Method, Electrometry [pH Electrode]	NU122	Dry Matter (DM): Internal Method, Gravimetry [Dried at 105°C]
NU266	Phosphorus: Internal Method, ICP-OES [Microwave digestion]	NU278	Potassium: Internal Method, ICP-OES [Microwave digestion]
NU361	Total Nitrogen: Internal Method, Combustion [Combustion elemental analyser: Thermal conductivity detection]	NW330	Volatile Solids: APHA Online Edition 2540 G
NW499	Arsenic - Total: APHA Online Edition 3125 B mod.	NW504	Cadmium - Total: APHA Online Edition 3125 B mod.
NW507	Chromium - Total: APHA Online Edition 3125 B mod.	NW509	Copper - Total: APHA Online Edition 3125 B mod.
NW510	Iron - Total: APHA Online Edition 3125 B mod.	NW511	Lead - Total: APHA Online Edition 3125 B mod.
NW515	Mercury - Total: APHA Online Edition 3125 B mod.	NW517	Nickel - Total: APHA Online Edition 3125 B mod.
NW519	Potassium - Total: APHA Online Edition 3125 B mod.	NW528	Zinc - Total: APHA Online Edition 3125 B mod.
ZM0VI	Escherichia coli E (Sludge) [NZ] <3 >1 100 /MPN/g (1-3) LTB Broth-M: US-EPA 1680 mod.		

Signature



David Hoekendijk Team Lead KTP

EXPLANATORY NOTE	
<p>① Test is not accredited</p> <p>② Test is subcontracted within Eurofins group and is accredited</p> <p>③ Test is subcontracted within Eurofins group and is not accredited</p> <p>④ Test is subcontracted outside Eurofins group and is accredited</p> <p>⑤ Test is subcontracted outside Eurofins group and is not accredited</p> <p>⑥ Test result is provided by the customer and is not accredited</p> <p>⑦ Tested at the sampling point by Eurofins and is not accredited</p> <p>⑧ Tested at the sampling point by Eurofins and is accredited</p> <p>⑨ Test is RLP accredited</p> <p>⑩ Test is subcontracted within Eurofins group and is RLP accredited</p>	<p>N/A means Not Applicable</p> <p>Not Detected means not detected at or above the Limit of Quantification (LOQ)</p> <p>LOQ means Limit of Quantification and the unit of LOQ is the same as the result unit</p> <p>✘ (Unsatisfactory) means does not meet the specification</p> <p>✓ (Satisfactory) means meets the specification</p> <p>MAV means Maximum Allowable Value</p>

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The tests are identified by a five-digit code, their description is available on request.

Accreditation does not apply to comments or graphical representations.

Unless otherwise stated, all tests in this analytical report (except for subcontracted tests) are performed at 43 Detroit Drive, Rolleston, Christchurch, NEW ZEALAND.

The laboratory is not responsible for the information provided by the customer which can affect the validity of the results, for example: sampling information such as date/time, field data etc.

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All samples become the property of Eurofins to the extent necessary for the performance of the Services.

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END OF REPORT