



CERTIFICATE OF ANALYSIS

Client : Killian Farrell (Deputy Manager)
Mayo County Council, Derrinnumera Landfill
Derrinnumera
Newport
Co. Mayo

Report No. : 433069
Date of Receipt : 27/11/2020
Start Date of Analysis : 27/11/2020
Date of Report : 21/12/2020
Order Number : 5658429
Sample taken by : Client

Lab No	Sample Description	Test	Ref.	Result	Units
1106448	BH-01 Claremorris Historic landfill	BOD	I,R	23	mg/l
		pH	I,R	6.8	pH Units
		Conductivity @20C	I,R	3040	uS/cm
		Copper, total	I,R	91	ug/l
		Sodium, total	I,R	107	mg/l
		Chloride	I,R	135	mg/l
		Temperature	R	17.2@lab	°C
		Iron, total	I,R	73142	ug/l
		Potassium, total	I,R	130	mg/l
		Cyanide (Total)	S,	<0.009	mg/l
		Magnesium, total	I,R	66	mg/l
		Sulphate	I,R	<5	mg/l
		Ammonia as N	I,R	161	mg/l
		Arsenic, total	I,R	13	ug/l
		Manganese, total	I,R	645	ug/l
		Zinc, total	I,R	517	ug/l
		Chromium, total	I,R	35	ug/l
		Calcium, total	I,R	278	mg/l
		Boron	I,R	537	ug/l
		Nickel, total	I,R	36	ug/l
		Lead, total	I,R	75	ug/l
		Cadmium, total	I,R	1	ug/l
		Fluoride by ISE	I,R	<0.1	mg/l
Molybdate Reactive Phosphorus (MRP unfiltered) as PO4-P	I,R	2.01	mg/l		
Mercury, total (in water)	S,	<0.20	ug/l		



Approved by:

AnnMarie Nee
Environmental Services Administrator

See below for test specifications and accreditation status.
This report only relates to items tested and shall not be reproduced but in full with the permission of CLS.
est. is an estimated count.
CLS will test food, water and swabs samples within 24 hours of receipt.
Where samples have been taken by the Client, results apply to the samples as received.



Complete Laboratory Solutions

Complete Laboratory Solutions

[Tel] 091 574355

[Fax] 091 574356

[Email] services@cls.ie

[web] www.cls.ie

*For inspection purposes only.
Consent of copyright owner required for any other use.*



In-House Test	Specification	Measurement of Uncertainty	17025	GMP/FDA*	ISO**
BOD	CLS 12	+/- 9.33 %	Yes	No	Yes
pH	CLS 26	+/- 0.133 pH units	Yes	No	Yes
Conductivity @20C	CLS 67	+/- 4.92 %	Yes	No	Yes
Copper, total	ICP-MS CLS 129	+/- 11.28 %	Yes	No	Yes
Sodium, total	ICP-MS CLS129	+/- 11.62 %	Yes	No	Yes
Chloride	Konelab CLS 36	+/- 12.10 %	Yes	No	Yes
Temperature	Probe	0	No	No	Yes
Iron, total	ICP-MS CLS129	+/- 10.28 %	Yes	No	Yes
Potassium, total	ICP-MS CLS129	+/-0.53@5mg/l	Yes	No	Yes
Magnesium, total	ICP-MS CLS129	+/-0.74@4mg/l	Yes	No	Yes
Sulphate	Konelab CLS 88	+/- 7.29 %	Yes	No	Yes
Ammonia as N	Konelab CLS 40	+/- 5.13 %	Yes	No	Yes
Arsenic, total	ICP-MS CLS 129	+/- 9.34 %	Yes	No	Yes
Manganese, total	ICP-MS CLS129	+/- 14.53 %	Yes	No	Yes
Zinc, total	ICP-MS CLS 129	+/- 9.38 %	Yes	No	Yes
Chromium, total	ICP-MS CLS129	+/- 8.38 %	Yes	No	Yes
Calcium, total	ICP-MS CLS129	+/-5.5@30mg/l	Yes	No	Yes
Boron	ICP-MS CLS129	+/-15@200ug/l	Yes	No	Yes
Nickel, total	ICP-MS CLS129	+/- 7.91 %	Yes	No	Yes
Lead, total	ICP-MS CLS 129	+/-20@100ug/l	Yes	No	Yes
Cadmium, total	ICP-MS CLS 129	+/- 10.42 %	Yes	No	Yes
Fluoride by ISE	CLS 182	0	Yes	No	Yes
Molybdate Reactive Phosphorus (MRP unfiltered) as PO4-P	Konelab CLS 35	+/- 0.04 @ 0.3 mg/l PO4	Yes	No	Yes

*Analysis carried out in a GMP approved, FDA inspected facility (MedPharma site only).

**Laboratory Analysis, Sampling, Food Safety Monitoring and Analysts on Contract are all ISO 9001 certified.

Lab No	Sample ID	Sample Condition on Receipt	Sampling Date
1106448	BH-01 Claremorris Historic landfill	Good condition	26/11/2020



Complete Laboratory Solutions

Complete Laboratory Solutions

[Tel] 091 574355

[Fax] 091 574356

[Email] services@cls.ie

[web] www.cls.ie

*For inspection purposes only.
Consent of copyright owner required for any other use.*