

FR0030 :INFORMATION SHEET TO ANALYSIS REPORT

Methods used, tests and accredited ranges for WearCheck Water Lab:

DETERMINAND	Code Johanne	Code Cape	Accredited	Ave. Uncertainty	Technique	Limit of Detection	Analytical range
pH	M 460	M 860	Yes	2.4%	Electro-metric	0.30	4.00-10.0
Conductivity	M 461	M 861	Yes	6.2%	Electro-metric	1mS/m	1-1000 mS/m
Alkalinity	M 463	M 863	Yes	4.2%	Titration	10mg/L CaCO ₃	10 - 1000 mg/L CaCO ₃
Ammonia Nitrogen	M 464	-	Yes	13.1% NH ₄ 2.5 and 2.40 % for NH ₄ 77.6	Automated Photometric	0.1mg/L NH ₃ -N	0.1- 77.6 mg/L NH ₃ -N
Ammonia Nitrogen	-	M 864	Yes	18%	Automated Photometric	0.1mg/L NH ₃ -N	0.1- 40 mg/L NH ₃ -N
Nitrate Nitrogen	M 465	M 865	Yes	Calculated from M 467 and M 466 or M 867 and M 866	Automated Photometric	0.1mg/L NO ₃ -	Calculated from M 467 and M 466 / M 867 and M 866
Nitrite Nitrogen	M 466	M 866	Yes	118%	Automated Photometric	0.1mg/L NO ₂ -N	0 - 2 mg/L NO ₂ -N
Nitrate and Nitrite Nitrogen	M 467	M 867	Yes	12.5%	Automated Photometric	0.1mg/L NO ₃ +NO ₂ -N	0.1- 12.5 mg/L NO ₃ +NO ₂ - N
Ortho Phosphate	M 468	M 868	Yes	20.00%	Automated Photometric	0.1mg/L o-PO ₄ -P	0.1- 5 mg/L o-PO ₄ -P
Chloride	M 469	M 869	Yes	4.90%	Automated Photometric	3 mg/L Cl	3 - 100 mg/L Cl
Fluoride	M 475	M 875	Yes	6.40%	Automated Photometric	0.1mg/L F	0.1- 2 mg/L F
Sulphate	M 476	M 876	Yes	15.50%	Automated Photometric	3 mg/L SO ₄	3 - 100 mg/L SO ₄
Hexavalent Chromium	M 471	-	Yes	3.00%	Automated Photometric	0.005 mg/L Cr ⁶⁺	0.005 - 0.2 mg/L Cr ⁶⁺
COD	M 462	M 862	Yes	130%	Closed reflux/colourimetric	10mg/L O ₂	10-1500mg/L O ₂
Total Suspended Solids	M 472	M 872	Yes	6.40%	Gravimetric	10mg/L TSS	10-1500mg/L TSS
Total Dissolved Solids	M 473	M 873	Yes	150%	Gravimetric	10mg/L TDS	10-1500mg/L TDS
Total Coliform and E. coli	M 477	M 877	Yes	129%	Membrane Filtration	-	0-500 cfu/100ml
Urea Content by Refractometer	M 478	-	Yes	0.05%	Potentiometric	-	0-0.4%
Biuret	M 479	-	Yes	3.04%	Colourimetric	-	0-35%
Al	-	M 874	Yes	0.94%	ICP-OES	0.05 mg/L	0.05-100 mg/L
Al	M 474	-	Yes	5.90%	ICP-OES	0.05 mg/L	0.05-25mg/L
Ag	M 474	-	Yes	3.20%	ICP-MS	0.50 ug/L	0.50 - 50 ug/L
As	-	M 874	Yes	143%	ICP-OES	0.05 mg/L	0.05 - 100 mg/L
As	M 474	-	Yes	3.30%	ICP-MS	0.50 ug/L	0.50 - 50 ug/L

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B	-	M 874	Yes	114%	ICP-OES	0.06 mg/L	0.06 - 100mg/L
B	M 474	-	Yes	5.23%	ICP-OES	0.02 mg/L	0.02 - 25 mg/L
Ba	-	M 874	Yes	100%	ICP-OES	0.01mg/L	0.01- 50 mg/L
Ba	M 474	-	Yes	3.00%	ICP-MS	0.30 ug/L	0.30 - 100 ug/L
Be	-	M 874	Yes	153%	ICP-OES	0.01mg/L	0.01- 50 mg/L
Be	M 474	-	Yes	3.70%	ICP-MS	0.10 ug/L	0.10 - 50 ug/L
Ca	M 474	M 874	Yes	6.70%	ICP-OES	0.09 mg/L	0.09 - 1000 mg/L
Cd		M 874	Yes	3.03%	ICP-OES	0.01mg/L	0.01- 100 mg/L
Cd	M 474	-	Yes	3.60%	ICP-MS	0.10 ug/L	0.10 - 50 ug/L
Co		M 874	Yes	139%	ICP-OES	0.05 mg/L	0.05 - 100 mg/L
Co	M 474	-	Yes	3.60%	ICP-MS	0.20 ug/L	0.20 - 50 ug/L
Cr		M 874	Yes	168%	ICP-OES	0.04 mg/L	0.04- 100 mg/L
Cr	M 474	-	Yes	3.60%	ICP-MS	3.00 ug/L	3.0 - 100 ug/L
Cu		M 874	Yes	126%	ICP-OES	0.06 mg/L	0.06- 100mg/L
Cu	M 474	-	Yes	3.60%	ICP-MS	10 ug/L	10 - 100 ug/L
Fe		M 874	Yes	2.68%	ICP-OES	0.02 mg/L	0.02 - 100 mg/L
Fe	M 474		Yes	4.87%	ICP-OES	0.01mg/L	0.01- 25.0mg/L
Hg	M 474	-	Yes	0.40%	ICP-MS	0.50 ug/L	0.50 - 5 ug/L
K		M 874	Yes	0.98%	ICP-OES	0.05 mg/L	0.05 1000 mg/L
K	M 474		Yes	3.75%	ICP-OES	0.50 mg/L	0.50 - 1000 mg/L
Mg	M 474	M 874	Yes	123%	ICP-OES	0.03 mg/L	0.03 - 1000 mg/L
Mn		M 874	Yes	2.30%	ICP-OES	0.01mg/L	0.01- 100 mg/L
Mn	M 474	-	Yes	4.00%	ICP-MS	0.25 ug/L	0.25 - 50 ug/L
Mo		M 874	Yes	129%	ICP-OES	0.03mg/L	0.03 - 100 mg/L
Mo	M 474	-	Yes	3.60%	ICP-MS	10 ug/L	10 - 50 ug/L
Na	M 474	M 874	Yes	2.12%	ICP-OES	0.16 mg/L	0.16 - 1000 mg/L
Ni		M 874	Yes	2.72%	ICP-OES	0.02 mg/L	0.02 - 100mg/L
Ni	M 474	-	Yes	3.30%	ICP-MS	10 ug/L	10 - 100 ug/L
Pb		M 874	Yes	2.44%	ICP-OES	0.05 mg/L	0.05 - 100 mg/L
Pb	M 474	-	Yes	3.70%	ICP-MS	10 ug/L	10 - 100 ug/L
Si		M 874	Yes	168%	ICP-OES	0.06mg/L	0.06- 100 mg/L
Sb	M 474	-	Yes	3.50%	ICP-MS	0.50 ug/L	0.50 - 50 ug/L
Se	M 474	-	Yes	3.50%	ICP-MS	2.0 ug/L	2.0 - 50 ug/L
Sn	M 474	-	Yes	4.10%	ICP-MS	0.20 ug/L	0.20 - 50 ug/L
Sr		M 874	Yes	119%	ICP-OES	0.01mg/L	0.01- 100 mg/L
Sr	M 474	-	Yes	3.20%	ICP-MS	0.50 ug/L	0.50 - 50 ug/L
U	M 474	-	Yes	3.00%	ICP-MS	0.20 ug/L	0.20 - 50 ug/L

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V		M 874	Yes	2.16%	ICP-OES	0.07 mg/L	0.07 - 100 mg/L
V	M 474	-	Yes	3.60%	ICP-MS	0.20 ug/L	0.20 - 50 ug/L
Zn	-	M 874	Yes	3.14%	ICP-OES	0.01mg/L	0.01- 100 mg/L
Zn	M 474	-	Yes	4.90%	ICP-OES	0.06 mg/L	0.06 - 100 mg/L

Record: Analysis report information sheet, revision status: 2025-11-24

Compiled and approved by: L Hotane

Note: All other tests or elements reported are not accredited unless specified otherwise.

Any results where dilutions were necessary or the element fell outside the working range will be reported as unaccredited.