



# Analysis Report

Date of Analysis: 08.08.2024

Analysis No: OFR230101

Date of Sampling: 02.08.2024

Customer:

Customer ID:

Tank:

## Main Parameters

Parameter	Measured Value	Ideal Value	Rating
Salinity	261,2 µS/cm	20–800 µS/cm	✓
Alkalinity (KH)	2,86 dKH	0,5–15 dKH	✓
Total hardness	5,142 °dH	°dH	✓

## Main Elements

Parameter	Measured Value	Ideal Value	Rating
Calcium	17,9 mg/l	mg/l	✓
Boron	0,370 mg/l	0,05–0,15 mg/l	↗
Bromide	0,19 mg/l	mg/l	↗
Chloride	34,82 mg/l	mg/l	✓
Potassium	1,13 mg/l	5–12 mg/l	↓
Magnesium	11,43 mg/l	mg/l	✓
Sodium	12,04 mg/l	mg/l	✓
Strontium	0,30 mg/l	mg/l	✓
Sulfate	1,9 mg/l	mg/l	✓
Ca–Mg ratio	1,57	2 – 5	↘
Mg–K Ratio	10,14	1,5–2,5	↑

## Trace Elements

Parameter	Measured Value	Ideal Value	Rating
Barium	23,92 µg/l	µg/l	✓
Chromium	0,50 µg/l	0,5–5 µg/l	✓
Cobalt	0,02 µg/l	0,5–5 µg/l	↓
Iron	1,80 µg/l	10–100 µg/l	↓
Fluoride	0,10 mg/l	mg/l	✓
Iodine	1,18 µg/l	2–10 µg/l	↘
Copper	0,16 µg/l	0,5–5 µg/l	↘
Lithium	2 µg/l	µg/l	✓
Manganese	0,34 µg/l	0,5–5 µg/l	↘

Molybdenum	5,0 µg/l	0,5–5 µg/l	↗
Nickel	0,62 µg/l	0,5–5 µg/l	✓
Rubidium	1,6 µg/l	0,5–5 µg/l	✓
Selenium	0,098 µg/l	0,1–1 µg/l	↘
Vanadium	0,15 µg/l	0,5–5 µg/l	↘
Zinc	3,90 µg/l	3–10 µg/l	✓
Tin	n.n.	0,1–3 µg/l	↓
Caesium	0,01 µg/l	0,05–5 µg/l	↓

## Pollutants

Parameter	Measured Value	Ideal Value	Rating
Aluminium	0,5 µg/l	< 40 µg/l	✓
Bismuth	n.n.	< 3 µg/l	✓
Lead	n.n.	< 1 µg/l	✓
Mercury	n.n.	< 0,5 µg/l	✓
Antimony	0,632 µg/l	< 3 µg/l	✓
Titan	n.n.	< 3 µg/l	✓
Cadmium	n.n.	< 1 µg/l	✓
Uranium	n.n.	< 5 µg/l	✓
Beryllium	n.n.	< 1 µg/l	✓
Arsenic	0,074 µg/l	< 5 µg/l	✓
Lanthanum	n.n.	< 5 µg/l	✓
Thallium	n.n.	< 1 µg/l	✓
Gallium	n.n.	< 3 µg/l	✓
Tellurium	n.n.	< 3 µg/l	✓
Thorium	n.n.	< 3 µg/l	✓
Cerium	n.n.	< 1 µg/l	✓
Ruthenium	n.n.	< 1 µg/l	✓
Neodymium	n.n.	< 1 µg/l	✓
Tungsten	n.n.	< 3 µg/l	✓

## Nutrients

Parameter	Measured Value	Ideal Value	Rating
Phosphate (photometric)	0,126 mg/l	0,1–0,5 mg/l	✓
Total Phosphorous (ICP)	36 µg/l	µg/l	✓
Nitrate	4,12 mg/l	5–50 mg/l	✓
Nitrite	0,018 mg/l	< 0,05 mg/l	✓
Silicon	102 µg/l	µg/l	✓

Parameter	Measured Value	Ideal Value	Rating
Copper	n.b.	µg/l	⊖
Zinc	n.b.	µg/l	⊖
Silicon	n.b.	µg/l	⊖

- ✔ No action required n.n Not found
- ↗↘ Need for action n.b Not measured
- ↑↓ Urgent need for action

## Interpretation

Hello!

Please enter the above results into the Reef Moonshiner's ICP Assessment tool for a detailed assessment and dosing instructions, which can be found here under this weblink:

<https://www.reefmoonshiners.com/handbook-tools>

All the best,

Christoph

