



Analysis Report

Date of Analysis: 21.02.2025

Analysis No: MSR228507

Date of Sampling: -

Customer:

Customer ID: unknown

Tank: L reef tank

Main Parameters

Parameter	Measured Value	Ideal Value	Rating
Salinity	35.2 psu	35 psu	✓
Alkalinity (KH)	8.39 dKH	7.5 dKH	✓
SAC254	4.7 m-1	2-8 m-1	✓

Main Elements

Parameter	Measured Value	Ideal Value	Rating
Calcium	456 mg/l	443 mg/l	✓
Boron	5.3 mg/l	4.5 mg/l	✓
Bromide	85 mg/l	67 mg/l	✓
Chloride	20192 mg/l	19511 mg/l	✓
Potassium	438 mg/l	402 mg/l	✓
Magnesium	1420 mg/l	1307 mg/l	✓
Sodium	10744 mg/l	10862 mg/l	✓
Strontium	8.7 mg/l	8.0 mg/l	✓
Sulfate	2386 mg/l	2715 mg/l	✓

Trace Elements

Parameter	Measured Value	Ideal Value	Rating
Barium	7.93 µg/l	10-100 µg/l	✓
Chromium	0.08 µg/l	0,2-0,5 µg/l	⚠
Cobalt	0.11 µg/l	0,05-0,2 µg/l	✓
Iron	0.43 µg/l	0,1-3 µg/l	✓
Fluoride	1.18 mg/l	1.3 mg/l	✓
Iodine	99.7 µg/l	50-70 µg/l	✓
Copper	3.22 µg/l	0,2-2 µg/l	⚠
Lithium	235 µg/l	50-150 µg/l	✓
Manganese	0.98 µg/l	0,2-1 µg/l	✓
Molybdenum	26.7 µg/l	10-15 µg/l	✓
Nickel	1.62 µg/l	2-5 µg/l	✓
Rubidium	271.9 µg/l	90-150 µg/l	⚠
Selenium	0.111 µg/l	0,2-0,5 µg/l	⚠
Vanadium	2.54 µg/l	2-3 µg/l	✓

Zinc	0.5	µg/l	1–3 µg/l	⬇️
Tin	2.65	µg/l	0,05–1 µg/l	✓
Caesium	1.19	µg/l	0,3–3 µg/l	✓

Pollutants

Parameter	Measured Value	Ideal Value	Rating
Aluminium	15.8 µg/l	< 40 µg/l	✓
Bismuth	n.n.	< 1 µg/l	✓
Lead	n.n.	< 3 µg/l	✓
Mercury	n.n.	< 0,5 µg/l	✓
Antimony	2.595 µg/l	< 3 µg/l	✓
Titan	n.n.	< 1 µg/l	✓
Cadmium	n.n.	< 0,5 µg/l	✓
Uranium	1.247 µg/l	< 3 µg/l	✓
Beryllium	0.005 µg/l	< 0,2 µg/l	✓
Arsenic	1.414 µg/l	< 3 µg/l	✓
Lanthanum	0.015 µg/l	< 3 µg/l	✓
Thallium	n.n.	< 0,5 µg/l	✓
Gallium	n.n.	< 2 µg/l	✓
Tellurium	n.n.	< 2 µg/l	✓
Thorium	n.n.	< 0,3 µg/l	✓
Cerium	n.n.	< 0,5 µg/l	✓
Ruthenium	n.n.	< 0,1 µg/l	✓
Neodymium	n.n.	< 0,1 µg/l	✓
Tungsten	0.391 µg/l	< 2 µg/l	✓

Nutrients

Parameter	Measured Value	Ideal Value	Rating
Phosphate (photometric)	0.335 mg/l	0,03–0,1 mg/l	⬆️
Nitrate	23.68 mg/l	2–15 mg/l	↗️
Nitrite	0.205 mg/l	< 0,3 mg/l	✓
Silicon	38 µg/l	50–250 µg/l	✓

Osmose

Parameter	Measured Value	Ideal Value	Rating
Copper (RO)	n.n.	n.n. µg/l	✓
Zinc (RO)	n.n.	n.n. µg/l	✓
Silicon (RO)	369 µg/l	n.n. µg/l	↗️
Beryllium (RO)	n.n.	n.n. µg/l	✓
Cobalt (RO)	n.n.	n.n. µg/l	✓
Chromium (RO)	n.n.	n.n. µg/l	✓
Iron (RO)	n.n.	n.n. µg/l	✓
Lithium (RO)	n.n.	n.n. µg/l	✓
Manganese (RO)	n.n.	n.n. µg/l	✓

Molybdenum (RO)	81.3 µg/l	n.n. µg/l	⬆
Nickel (RO)	n.n.	n.n. µg/l	✓
Phosphorus (RO)	n.n.	n.n. µg/l	✓
Lead (RO)	n.n.	n.n. µg/l	✓
Antimony (RO)	n.n.	n.n. µg/l	✓
Tin (RO)	n.n.	n.n. µg/l	✓
Titanium (RO)	n.n.	n.n. µg/l	✓
Vanadium (RO)	27 µg/l	n.n. 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