



# Analysis Report

Date of Analysis: 03.02.2026

Customer: Steve Johnson

Analysis No: MSR233959

Customer ID: 8987

Date of Sampling: 25.01.2026 – 12:00

Tank: 300 L reef tank

## Main Parameters

Parameter	Measured Value	Ideal Value	Rating
Salinity	36.0 psu	35 psu	✓
Alkalinity (KH)	8.03 dKH	7.5 dKH	✓
SAC254	2.75 m-1	2-8 m-1	✓

## Main Elements

Parameter	Measured Value	Ideal Value	Rating
Calcium	513 mg/l	453 mg/l	↗
Boron	4.1 mg/l	4.6 mg/l	✓
Bromide	72 mg/l	69 mg/l	✓
Chloride	20129 mg/l	19954 mg/l	✓
Potassium	406 mg/l	411 mg/l	✓
Magnesium	1396 mg/l	1337 mg/l	✓
Sodium	11253 mg/l	11109 mg/l	✓
Strontium	10.0 mg/l	8.2 mg/l	✓
Sulfate	2757 mg/l	2777 mg/l	✓

## Trace Elements

Parameter	Measured Value	Ideal Value	Rating
Barium	17.18 µg/l	10-100 µg/l	✓
Chromium	0.03 µg/l	0,2-0,5 µg/l	↓
Cobalt	0.04 µg/l	0,05-0,2 µg/l	✓
Iron	0.34 µg/l	0,1-3 µg/l	✓
Fluoride	1.1 mg/l	1.3 mg/l	✓
Iodine	3.4 µg/l	50-70 µg/l	↓
Copper	0.12 µg/l	0,2-2 µg/l	↘
Lithium	219 µg/l	50-150 µg/l	✓
Manganese	0.07 µg/l	0,2-1 µg/l	↓
Molybdenum	23.0 µg/l	10-15 µg/l	✓
Nickel	0.91 µg/l	2-5 µg/l	↓
Rubidium	144.8 µg/l	90-150 µg/l	✓
Selenium	0.043 µg/l	0,2-0,5 µg/l	↓
Vanadium	0.91 µg/l	2-3 µg/l	↓

Zinc	0.41	µg/l	1–3 µg/l	↓
Tin	0.14	µg/l	0,05–1 µg/l	✓
Caesium	0.51	µg/l	0,3–3 µg/l	✓

## Pollutants

Parameter	Measured Value	Ideal Value	Rating
Aluminium	109.9 µg/l	< 40 µg/l	↑
Bismuth	n.n.	< 1 µg/l	✓
Lead	0.075 µg/l	< 3 µg/l	✓
Mercury	n.n.	< 0,5 µg/l	✓
Antimony	1.296 µg/l	< 3 µg/l	✓
Titanium	n.n.	< 1 µg/l	✓
Cadmium	0.029 µg/l	< 0,5 µg/l	✓
Uranium	0.484 µg/l	< 3 µg/l	✓
Beryllium	n.n.	< 0,2 µg/l	✓
Arsenic	n.n.	< 3 µg/l	✓
Lanthanum	n.n.	< 3 µg/l	✓
Thallium	n.n.	< 0,5 µg/l	✓
Gallium	0.15 µg/l	< 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	n.n.	< 2 µg/l	✓
Hafnium	n.n.	< 1 µg/l	✓

## Nutrients

Parameter	Measured Value	Ideal Value	Rating
Phosphate (photometric)	0.034 mg/l	0,03–0,1 mg/l	✓
Nitrate	n.n.	2–15 mg/l	↓
Nitrite	n.n.	< 0,3 mg/l	✓
Silicon	215 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)	n.n.	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)	n.n.	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)	n.n.	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