



# Analysis Report

Date of Analysis: 27.10.2023

Analysis No: MSR221864

Date of Sampling: 20.10.2023 – 12:40

Customer: Max Gonzalez

Customer ID: 6063

Tank: reef tank

## Main Parameters

Parameter	Measured Value	Ideal Value	Rating
Salinity	32,9 psu	35,0 psu	✓
Alkalinity (KH)	8,54 dKH	7,50 dKH	↗

## Main Elements

Parameter	Measured Value	Ideal Value	Rating
Calcium	484 mg/l	414 mg/l	↗
Boron	4,6 mg/l	4,2 mg/l	✓
Bromide	78 mg/l	63,0 mg/l	✓
Chloride	19696 mg/l	18236 mg/l	✓
Potassium	372 mg/l	376 mg/l	✓
Magnesium	1382 mg/l	1222 mg/l	↗
Sodium	10177 mg/l	10152 mg/l	✓
Strontium	13,0 mg/l	7,5 mg/l	↑
Sulfate	2566 mg/l	2538 mg/l	✓

## Trace Elements

Parameter	Measured Value	Ideal Value	Rating
Barium	38,01 µg/l	10–100 µg/l	✓
Chromium	0,24 µg/l	0,2–0,5 µg/l	✓
Cobalt	1,59 µg/l	0,05–0,2 µg/l	↑
Iron	1,77 µg/l	0,1–3 µg/l	✓
Fluoride	1,13 mg/l	1,3 mg/l	✓
Iodine	248,6 µg/l	50–70 µg/l	↑
Copper	4,30 µg/l	0,2–2 µg/l	↗
Lithium	400 µg/l	50–150 µg/l	↗
Manganese	0,34 µg/l	0,2–1 µg/l	✓
Molybdenum	28,5 µg/l	10–15 µg/l	✓
Nickel	3,44 µg/l	2–5 µg/l	✓
Rubidium	94,2 µg/l	90–150 µg/l	✓

Selenium	0,156 µg/l	0,2–0,5 µg/l	⬇️
Vanadium	7,75 µg/l	2–3 µg/l	↗️
Zinc	5,32 µg/l	1–3 µg/l	↗️
Tin	0,22 µg/l	0,05–1 µg/l	✅
Caesium	1,04 µg/l	0,3–3 µg/l	✅

## Pollutants

Parameter	Measured Value	Ideal Value	Rating
Aluminium	305,2 µg/l	< 40 µg/l	⬆️
Bismuth	n.n.	< 1 µg/l	✅
Lead	0,199 µg/l	< 3 µg/l	✅
Mercury	n.n.	< 0,5 µg/l	✅
Antimony	3,259 µg/l	< 3 µg/l	↗️
Titan	n.n.	< 1 µg/l	✅
Cadmium	0,079 µg/l	< 0,5 µg/l	✅
Uranium	1,510 µg/l	< 3 µg/l	✅
Beryllium	0,005 µg/l	< 0,2 µg/l	✅
Arsenic	0,798 µg/l	< 3 µg/l	✅
Lanthanum	n.n.	< 3 µg/l	✅
Thallium	0,064 µg/l	< 0,5 µg/l	✅
Gallium	0,248 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	0,080 µg/l	< 2 µg/l	✅

## Nutrients

Parameter	Measured Value	Ideal Value	Rating
Phosphate (photometric)	0,188 mg/l	0,03–0,1 mg/l	↗️
Nitrate	16,61 mg/l	2–15 mg/l	✅
Nitrite	0,137 mg/l	< 0,3 mg/l	✅
Silicon	270 µg/l	50–250 µg/l	↗️

## Osmose

Parameter	Measured Value	Ideal Value	Rating
Copper	n.n.	n.n. µg/l	✅
Zinc	n.n.	n.n. µg/l	✅
Silicon	1299 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

