

Analysis Report

Date of Analysis: 23.04.2024

Analysis No: OCR221674

Date of Sampling: 13.04.2024 – 0,5

Customer: Jeremy Kinnaird

Customer ID: 6527

Tank: reef tank

Main Parameters

Parameter	Measured Value	Ideal Value	Rating
Salinity	34,8 psu	35,0 psu	✓
Alkalinity (KH)	7,79 dKH	7,50 dKH	✓

Main Elements

Parameter	Measured Value	Ideal Value	Rating
Calcium	494 mg/l	437 mg/l	↗
Boron	6,0 mg/l	4,5 mg/l	✓
Bromide	96 mg/l	66,6 mg/l	↗
Chloride	20109 mg/l	19289 mg/l	✓
Potassium	442 mg/l	398 mg/l	✓
Magnesium	1545 mg/l	1293 mg/l	↗
Sodium	10656 mg/l	10738 mg/l	✓
Strontium	7,2 mg/l	8,0 mg/l	✓
Sulfate	3372 mg/l	2685 mg/l	↑

Trace Elements

Parameter	Measured Value	Ideal Value	Rating
Barium	7,7 µg/l	10–100 µg/l	✓
Chromium	n.n.	0,5 µg/l	✓
Cobalt	n.n.	0,5 µg/l	✓
Iron	n.n.	1–3 µg/l	✓
Fluoride	1,18 mg/l	1,3 mg/l	✓
Iodine	78 µg/l	50–70 µg/l	✓
Copper	n.n.	1–3 µg/l	✓
Lithium	375 µg/l	50–150 µg/l	↗
Manganese	0,3 µg/l	1,0 µg/l	✓
Molybdenum	15,3 µg/l	10–15 µg/l	✓
Nickel	n.n.	1,0 µg/l	✓
Rubidium	342 µg/l	90–150 µg/l	↗

Selenium	n.n.	0,5 µg/l	✓
Vanadium	4,1 µg/l	2–3 µg/l	✓
Zinc	1,6 µg/l	1,0 µg/l	✓
Tin	n.n.	n.n. µg/l	✓

Pollutants

Parameter	Measured Value	Ideal Value	Rating
Aluminium	11,2 µg/l	< 40 µg/l	✓
Bismuth	n.n.	n.n. µg/l	✓
Lead	n.n.	n.n. µg/l	✓
Mercury	n.n.	n.n. µg/l	✓
Antimony	n.n.	n.n. µg/l	✓
Titan	n.n.	n.n. µg/l	✓
Cadmium	n.n.	n.n. µg/l	✓
Uranium	n.n.	n.n. µg/l	✓
Beryllium	n.n.	n.n. µg/l	✓
Arsenic	n.n.	n.n. µg/l	✓
Lanthanum	n.n.	< 3 µg/l	✓
Thallium	n.n.	n.n. µg/l	✓

Nutrients

Parameter	Measured Value	Ideal Value	Rating
Phosphate (photometric)	0,182 mg/l	0,03–0,1 mg/l	↗
Total Phosphorous (ICP)	79 µg/l	10–50 µg/l	↗
Nitrate	18,61 mg/l	2–15 mg/l	✓
Nitrite	0,115 mg/l	< 0,3 mg/l	✓
Silicon	136 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	n.n.	n.n. µg/l	✓

- ✓ No action required
- ↗↘ Need for action
- ↑↓ Urgent need for action

n.n Not found
n.b Not measured

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

