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Analysis Report

Date of Analysis: 06.09.2025
Analysis No: OCR223666
Date of Sampling: 21.08.2025 – 07:45

Customer: Justin Patzig
Customer ID: 8576
Tank: 455 L reef tank

Main Parameters

Parameter	Measured Value		Ideal Value		Rating
Salinity	32.4	psu	35	psu	
Alkalinity (KH)	7.94	dKH	7.5	dKH	

Main Elements

Parameter	Measured Value		Ideal Value		Rating
Calcium	445	mg/l	407	mg/l	
Boron	5.1	mg/l	4.2	mg/l	
Bromide	91	mg/l	62	mg/l	
Chloride	18067	mg/l	17959	mg/l	
Potassium	363	mg/l	370	mg/l	
Magnesium	1289	mg/l	1203	mg/l	
Sodium	9903	mg/l	9998	mg/l	
Strontium	8.8	mg/l	7.4	mg/l	
Sulfate	2661	mg/l	2499	mg/l	

Trace Elements

Parameter	Measured Value		Ideal Value		Rating
Barium	41.4	µg/l	10–100	µg/l	
Chromium	3.6	µg/l	0.5	µg/l	
Cobalt	n.n.		0.5	µg/l	
Iron	n.n.		1–3	µg/l	
Fluoride	0.65	mg/l	1.3	mg/l	
Iodine	45	µg/l	50–70	µg/l	
Copper	n.n.		1–3	µg/l	
Lithium	507	µg/l	50–150	µg/l	
Manganese	0.2	µg/l	1	µg/l	
Molybdenum	8.0	µg/l	10–15	µg/l	
Nickel	n.n.		1	µg/l	
Rubidium	111	µg/l	90–150	µg/l	
Selenium	n.n.		0	µg/l	
Vanadium	1.8	µg/l	2–3	µg/l	
Zinc	3.0	µg/l	1	µg/l	
Tin	n.b.		n.n.	µg/l	

Pollutants

Parameter	Measured Value	Ideal Value	Rating
Aluminium	84.0 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	✓
Titanium	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)	0.034 mg/l	0,03–0,1 mg/l	✓
Total Phosphorus (ICP)	5 µg/l	10–50 µg/l	↘
Nitrate	n.n.	2–15 mg/l	↓
Nitrite	n.n.	< 0,3 mg/l	✓
Silicon	34 µg/l	50–250 µg/l	✓

Osmose

Parameter	Measured Value	Ideal Value	Rating
Copper (RO)	n.n.	n.n. µg/l	✓
Zinc (RO)	4.5 µg/l	n.n. µg/l	↗
Silicon (RO)	232 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)	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