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Analysis Report

Date of Analysis: 11.11.2025
Analysis No: MSR232590
Date of Sampling: –

Customer:
Customer ID: unknown
Tank: L reef tank

Main Parameters

Parameter	Measured Value		Ideal Value		Rating
Salinity	33.9	psu	35	psu	✓
Alkalinity (KH)	7.22	dKH	7.5	dKH	✓
SAC254	3.63	m-1	2-8	m-1	✓

Main Elements

Parameter	Measured Value		Ideal Value		Rating
Calcium	414	mg/l	426	mg/l	✓
Boron	5.3	mg/l	4.4	mg/l	✓
Bromide	84	mg/l	65	mg/l	✓
Chloride	19411	mg/l	18790	mg/l	✓
Potassium	421	mg/l	387	mg/l	✓
Magnesium	1407	mg/l	1259	mg/l	✓
Sodium	10768	mg/l	10461	mg/l	✓
Strontium	10.7	mg/l	7.7	mg/l	✓
Sulfate	2748	mg/l	2615	mg/l	✓

Trace Elements

Parameter	Measured Value		Ideal Value		Rating
Barium	30.9	µg/l	10-100	µg/l	✓
Chromium	1.51	µg/l	0,2-0,5	µg/l	↗
Cobalt	0.22	µg/l	0,05-0,2	µg/l	↗
Iron	0.97	µg/l	0,1-3	µg/l	✓
Fluoride	1.34	mg/l	1.3	mg/l	✓
Iodine	18.9	µg/l	50-70	µg/l	↓
Copper	6.76	µg/l	0,2-2	µg/l	↑
Lithium	188	µg/l	50-150	µg/l	✓
Manganese	0.1	µg/l	0,2-1	µg/l	↘
Molybdenum	14.4	µg/l	10-15	µg/l	✓
Nickel	1.86	µg/l	2-5	µg/l	✓
Rubidium	367.4	µg/l	90-150	µg/l	↗
Selenium	0.109	µg/l	0,2-0,5	µg/l	↘
Vanadium	1.85	µg/l	2-3	µg/l	✓

Zinc	19.69	µg/l	1–3 µg/l	
Tin	10.58	µg/l	0,05–1 µg/l	
Caesium	0.55	µg/l	0,3–3 µg/l	

Pollutants

Parameter	Measured Value		Ideal Value	Rating
Aluminium	30.4	µg/l	< 40 µg/l	
Bismuth	n.n.		< 1 µg/l	
Lead	0.335	µg/l	< 3 µg/l	
Mercury	n.n.		< 0,5 µg/l	
Antimony	0.333	µg/l	< 3 µg/l	
Titanium	n.n.		< 1 µg/l	
Cadmium	0.022	µg/l	< 0,5 µg/l	
Uranium	1.821	µg/l	< 3 µg/l	
Beryllium	n.n.		< 0,2 µg/l	
Arsenic	0.91	µg/l	< 3 µg/l	
Lanthanum	1.925	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	0.162	µg/l	< 2 µg/l	

Nutrients

Parameter	Measured Value		Ideal Value	Rating
Phosphate (photometric)	0.045	mg/l	0,03–0,1 mg/l	
Nitrate	0.57	mg/l	2–15 mg/l	
Nitrite	0.058	mg/l	< 0,3 mg/l	
Silicon	63	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