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Analysis Report

Date of Analysis: 03.07.2025
Analysis No: MSR227191
Date of Sampling: 26.06.2025 – 12:00

Customer: DJKMS
Customer ID: 7128
Tank: 2195 L reef tank

Main Parameters

Parameter	Measured Value		Ideal Value		Rating
Salinity	36.0	psu	35	psu	✓
Alkalinity (KH)	8.37	dKH	7.5	dKH	✓
SAC254	5.55	m-1	2-8	m-1	✓

Main Elements

Parameter	Measured Value		Ideal Value		Rating
Calcium	442	mg/l	453	mg/l	✓
Boron	5.0	mg/l	4.6	mg/l	✓
Bromide	90	mg/l	69	mg/l	✓
Chloride	20564	mg/l	19954	mg/l	✓
Potassium	433	mg/l	411	mg/l	✓
Magnesium	1345	mg/l	1337	mg/l	✓
Sodium	11401	mg/l	11109	mg/l	✓
Strontium	7.9	mg/l	8.2	mg/l	✓
Sulfate	2797	mg/l	2777	mg/l	✓

Trace Elements

Parameter	Measured Value		Ideal Value		Rating
Barium	3.15	µg/l	10-100	µg/l	↘
Chromium	0.69	µg/l	0,2-0,5	µg/l	✓
Cobalt	0.44	µg/l	0,05-0,2	µg/l	↗
Iron	0.67	µg/l	0,1-3	µg/l	✓
Fluoride	1.28	mg/l	1.3	mg/l	✓
Iodine	80.6	µg/l	50-70	µg/l	✓
Copper	0.46	µg/l	0,2-2	µg/l	✓
Lithium	217	µg/l	50-150	µg/l	✓
Manganese	0.33	µg/l	0,2-1	µg/l	✓
Molybdenum	23.2	µg/l	10-15	µg/l	✓
Nickel	6.88	µg/l	2-5	µg/l	↗
Rubidium	279.3	µg/l	90-150	µg/l	↗
Selenium	0.064	µg/l	0,2-0,5	µg/l	↘
Vanadium	0.62	µg/l	2-3	µg/l	↓

Zinc	0.94	µg/l	1–3 µg/l	✓
Tin	0.54	µg/l	0,05–1 µg/l	✓
Caesium	0.78	µg/l	0,3–3 µg/l	✓

Pollutants

Parameter	Measured Value		Ideal Value	Rating
Aluminium	5.3	µg/l	< 40 µg/l	✓
Bismuth	n.n.		< 1 µg/l	✓
Lead	0.039	µg/l	< 3 µg/l	✓
Mercury	n.n.		< 0,5 µg/l	✓
Antimony	0.14	µg/l	< 3 µg/l	✓
Titanium	n.n.		< 1 µg/l	✓
Cadmium	0.01	µg/l	< 0,5 µg/l	✓
Uranium	0.552	µg/l	< 3 µg/l	✓
Beryllium	n.n.		< 0,2 µg/l	✓
Arsenic	0.989	µg/l	< 3 µg/l	✓
Lanthanum	0.071	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	n.n.		< 2 µg/l	✓

Nutrients

Parameter	Measured Value		Ideal Value	Rating
Phosphate (photometric)	0.076	mg/l	0,03–0,1 mg/l	✓
Nitrate	3.79	mg/l	2–15 mg/l	✓
Nitrite	0.251	mg/l	< 0,3 mg/l	✓
Silicon	152	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)	98	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