User: Sean Fryman
Analysis ID: 115591

Tank ID: 45807

Date: 19.04.2021

Base elements	Value	Ideal value	Difference	Status
Salinity	33.44 PSU	35.00 PSU	-1.56 PSU	✓
Carbonate hardness	11.05 °dKH	7.50 °dKH	+3.55 °dKH	↗

Major elements	Value	Ideal value	Difference	Status
Chloride	19161 mg/l	18340 mg/l	+820.7 mg/l	✓
Sodium	9733 mg/l	10189 mg/l	-456.10 mg/l	✓
Magnesium	1522 mg/l	1218 mg/l	+303.9 mg/l	↗
Sulfur	939.7 mg/l	852.2 mg/l	+87.52 mg/l	✓
Calcium	462.7 mg/l	390.0 mg/l	+72.74 mg/l	↗
Potassium	380.0 mg/l	377.9 mg/l	+2.08 mg/l	✓
Bromine	106.4 mg/l	62.06 mg/l	+44.34 mg/l	↑
Strontium	8.57 mg/l	7.41 mg/l	+1.16 mg/l	✓
Boron	5.33 mg/l	4.08 mg/l	+1.25 mg/l	✓
Fluorine	1.03 mg/l	1.20 mg/l	-0.17 mg/l	✓

Minor elements	Value	Ideal value	Difference	Status
Lithium	394.4 µg/l	157.5 µg/l	+236.9 µg/l	✓
Silicon	124.5 µg/l	92.63 µg/l	+31.87 µg/l	✓
Iodine	227.6 µg/l	60.21 µg/l	+167.4 µg/l	↑
Barium	15.96 µg/l	9.26 µg/l	+6.70 µg/l	✓
Molybdenum	5.06 µg/l	11.12 µg/l	-6.06 µg/l	↘
Nickel	2.39 µg/l	0.46 µg/l	+1.93 µg/l	✓

Manganese	3.87 µg/l	0.93 µg/l	+2.94 µg/l	✓
Arsenic	n.u	1.39 µg/l		✓
Beryllium	n.u	0.09 µg/l		✓
Chrome	n.u	0.46 µg/l		✓
Cobalt	3.32 µg/l	0.09 µg/l	+3.23 µg/l	↗
Iron	117.9 µg/l	0.46 µg/l	+117.4 µg/l	↑
Copper	n.u	0.46 µg/l		✓
Selenium	n.u	0.46 µg/l		✓
Silver	n.u	0.09 µg/l		✓
Vanadium	n.u	1.39 µg/l		↗
Zinc	20.54 µg/l	1.85 µg/l	+18.69 µg/l	↗
Tin	5.72 µg/l	0.46 µg/l	+5.26 µg/l	↗

Nutrients	**Value**	**Ideal value**	**Difference**	**Status**
Nitrate	9.43 mg/l	2.00 mg/l	+7.43 mg/l	✓
Phosphorus	37.55 µg/l	13.89 µg/l	+23.66 µg/l	↗
Phosphate	0.12 mg/l	0.04 mg/l	+0.08 mg/l	↗

Pollutants	**Value**	**Ideal value**	**Difference**	**Status**
Aluminium	n.u	0.09 µg/l		✓
Antimony	n.u	0.09 µg/l		✓
Bismuth	n.u	0.09 µg/l		✓
Lead	n.u	0.09 µg/l		✓
Cadmium	n.u	0.19 µg/l		✓

Lanthanum	n.u	n.u µg/l	✔
Thallium	n.u	0.09 µg/l	✔
Titanium	n.u	0.09 µg/l	✔
Tungsten	n.u	n.u µg/l	✔
Mercury	n.u	n.u µg/l	✔

Recommendations:

Supplement	Priority	Action	Daily dosis	Unit	Days
Molybdän	Recommended	Dosage	0,10	ml	2
Vanadium	Recommended	Dosage	0,00	ml	2

Additional action: We recommend a KH of 7 - 9 °dKH

Additional action: change 3 x 20 % of water with natural seawater or "Absolute Ocean" (weekly cycle)

Additional action: use carbon (50 g/ 100 l))