

Tank
Waterbox peninsula 2620

Net size
300 liter

Reason for analysis
Routine

Barcode
L6NL-T74M-QH5P-4XFY (ID: 258654)

Created
12/16/2023

Arrived in the laboratory
12/22/2023

Evaluated
12/22/2023



Quality assessment:
The quality of your aquarium water is assessed using the score in the circle. The closer it is to 100, the better the quality. You can also use the bar chart to identify the areas in which problems may occur.

Major elements	93 / 100
Minor elements	94 / 100
Pollutants	100 / 100
Base elements	100 / 100

Results of Salt water

Base elements

Sal. total	34.60 PSU	TOP
Salinity	Ideal value: 35.00 PSU	Near nature
KH	8.01 °dKH	TOP
Carbonate hardness	Ideal value: 7.50 °dKH	Near nature

Major elements

Cl	19487 mg/l	TOP
Chloride	Ideal value: 19271 mg/l	Near nature
Na	10586 mg/l	TOP
Sodium	Ideal value: 10706 mg/l	Near nature
Mg	1352 mg/l	TOP
Magnesium	Ideal value: 1280 mg/l	Near nature
S	968.6 mg/l	INCREASED
Sulfur	Ideal value: 885.7 mg/l	Attention
Ca	462.2 mg/l	INCREASED
Calcium	Ideal value: 409.8 mg/l	Attention
K	391.4 mg/l	TOP
Potassium	Ideal value: 397.1 mg/l	Near nature
Br	67.46 mg/l	TOP
Bromine	Ideal value: 65.21 mg/l	Near nature
Sr	6.71 mg/l	TOP
Strontium	Ideal value: 7.79 mg/l	Near nature
B	3.68 mg/l	TOP
Boron	Ideal value: 4.38 mg/l	Near nature
F	0.93 mg/l	DECREASED
Fluorine	Ideal value: 1.27 mg/l	Attention



Minor elements

Li Lithium	130.0 µg/l Ideal value: 165.5 µg/l	TOP Near nature
Si Silicon	205.7 µg/l Ideal value: 97.33 µg/l	TOP Near nature
I Iodine	117.5 µg/l Ideal value: 63.26 µg/l	INCREASED Attention
Ba Barium	4.46 µg/l Ideal value: 9.73 µg/l	TOP Near nature
Mo Molybdenum	18.79 µg/l Ideal value: 11.68 µg/l	TOP Near nature
Ni Nickel	0.29 µg/l Ideal value: 0.49 µg/l	TOP Near nature
Mn Manganese	--- Ideal value: 0.97 µg/l	DECREASED Attention
As Arsenic	--- Ideal value: 0.49 µg/l	TOP Near nature
Be Beryllium	--- Ideal value: 0.10 µg/l	TOP Near nature
Cr Chrome	--- Ideal value: 0.49 µg/l	TOP Near nature
Co Cobalt	--- Ideal value: 0.10 µg/l	TOP Near nature
Fe Iron	--- Ideal value: 0.49 µg/l	DECREASED Attention
Cu Copper	2.57 µg/l Ideal value: 0.49 µg/l	TOP Near nature
Se Selenium	--- Ideal value: 0.49 µg/l	TOP Near nature
Ag Silver	--- Ideal value: 0.10 µg/l	TOP Near nature
V Vanadium	--- Ideal value: 1.46 µg/l	DECREASED Attention
Zn Zinc	1.62 µg/l Ideal value: 1.95 µg/l	TOP Near nature
Sn Tin	--- Ideal value: 0.49 µg/l	TOP Near nature

Nutrients

NO3 Nitrate	13.26 mg/l Ideal value: 2.00 mg/l	INCREASED Attention
P Phosphorus	44.99 µg/l Ideal value: 14.60 µg/l	INCREASED Attention
PO4 Phosphate	0.14 mg/l Ideal value: 0.04 mg/l	INCREASED Attention

Pollutants

Al.	14.90 µg/l	TOP
Aluminium	Ideal value: 0.10 µg/l	Near nature
Sb	---	TOP
Antimony	Ideal value: 0.10 µg/l	Near nature
Bi	---	TOP
Bismuth	Ideal value: 0.10 µg/l	Near nature
Pb	---	TOP
Lead	Ideal value: 0.10 µg/l	Near nature
Cd	---	TOP
Cadmium	Ideal value: 0.19 µg/l	Near nature
La.	---	TOP
Lanthanum	Ideal value: 0.00 µg/l	Near nature
Tl	---	TOP
Thallium	Ideal value: 0.10 µg/l	Near nature
Ti	---	TOP
Titanium	Ideal value: 0.10 µg/l	Near nature
W	---	TOP
Tungsten	Ideal value: 0.00 µg/l	Near nature
Hg	---	TOP
Mercury	Ideal value: 0.00 µg/l	Near nature

Results of Osmosis water

Minor elements

Li	---	TOP
Lithium	Ideal value: 0.00 µg/l	Near nature
Si	---	TOP
Silicon	Ideal value: 0.00 µg/l	Near nature
Ba	---	TOP
Barium	Ideal value: 0.00 µg/l	Near nature
Mo	---	TOP
Molybdenum	Ideal value: 0.00 µg/l	Near nature
Ni	---	TOP
Nickel	Ideal value: 0.00 µg/l	Near nature
Mn	---	TOP
Manganese	Ideal value: 0.00 µg/l	Near nature
As	---	TOP
Arsenic	Ideal value: 0.00 µg/l	Near nature
Be	---	TOP
Beryllium	Ideal value: 0.00 µg/l	Near nature
Cr	---	TOP
Chrome	Ideal value: 0.00 µg/l	Near nature
Co	---	TOP
Cobalt	Ideal value: 0.00 µg/l	Near nature
Fe	---	TOP
Iron	Ideal value: 0.00 µg/l	Near nature
Cu	---	TOP
Copper	Ideal value: 0.00 µg/l	Near nature
Se	---	TOP
Selenium	Ideal value: 0.00 µg/l	Near nature
Ag	---	TOP
Silver	Ideal value: 0.00 µg/l	Near nature
V	---	TOP
Vanadium	Ideal value: 0.00 µg/l	Near nature
Zn	---	TOP
Zinc	Ideal value: 0.00 µg/l	Near nature
Sn	---	TOP
Tin	Ideal value: 0.00 µg/l	Near nature

Nutrients

P	---	TOP
Phosphorus	Ideal value: 0.00 µg/l	Near nature
PO4	---	TOP
Phosphate	Ideal value: 0.00 mg/l	Near nature

Pollutants

Al.	---	TOP
Aluminium	Ideal value: 0.00 µg/l	Near nature
Sb	---	TOP
Antimony	Ideal value: 0.00 µg/l	Near nature
Bi	---	TOP
Bismuth	Ideal value: 0.00 µg/l	Near nature
Pb	---	TOP
Lead	Ideal value: 0.00 µg/l	Near nature
Cd	---	TOP
Cadmium	Ideal value: 0.00 µg/l	Near nature
La.	---	TOP
Lanthanum	Ideal value: 0.00 µg/l	Near nature
Tl	---	TOP
Thallium	Ideal value: 0.00 µg/l	Near nature
Ti	---	TOP
Titanium	Ideal value: 0.00 µg/l	Near nature
W	---	TOP
Tungsten	Ideal value: 0.00 µg/l	Near nature
Hg	---	TOP
Mercury	Ideal value: 0.00 µg/l	Near nature

Recommendations

The following recommendations were calculated for the aquarium **Waterbox peninsula 2620** with **300 liters** content.

Recommended actions

Sulfur	Recommended
Stop addition of sulfur to reduce value to 900-920 mg/l.	
Phosphorus	Recommended
Phosphorus is slightly too high. Improve the filtration and/or reduce the food supply. Check the osmosis water.	
Calcium	Recommended
Reduce/stop addition of calcium to bring value down to 410-440 mg/l.	
Nitrate	Recommended
Nitrate is slightly too high. Improve the filtration and/or reduce the food supply.	

Vanadium (V)**Recommended**

Addition Total: 2.19 ml
 Divide the addition into portions: twice 1.09 ml *

Manganese (Mn)**Recommended**

Addition Total: 1.46 ml
 Divide the addition into portions: once 1.46 ml

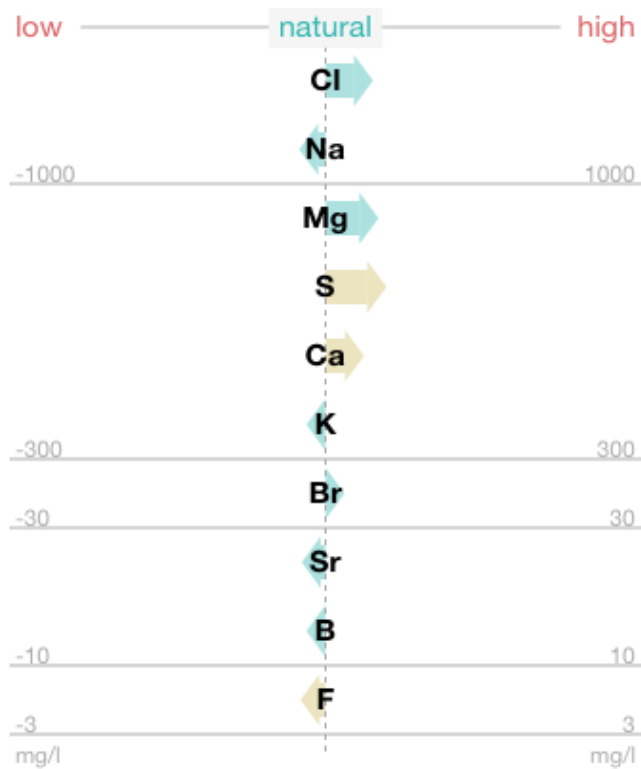
Iron (Fe)**Recommended**

Addition Total: 0.73 ml
 Divide the addition into portions: five times 0.15 ml *

Fluorine (F)**Recommended**

Addition Total: 51.04 ml
 Divide the addition into portions: twice 25.52 ml *

* Only one portion should be dosed per day.

Diagrams**Composition of the aquarium water**

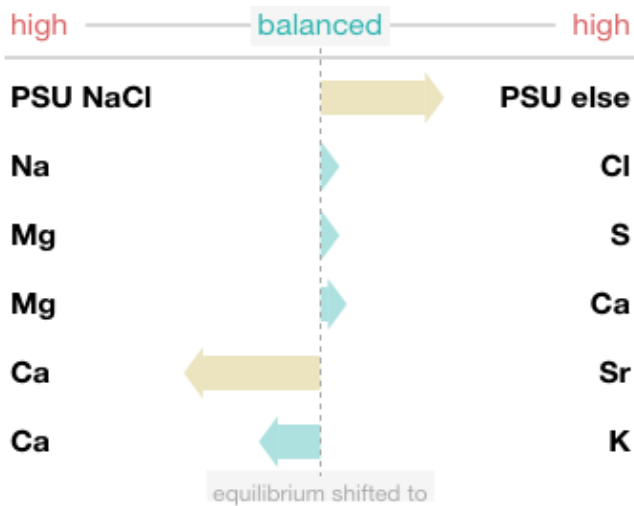
The diagram shows whether the concentrations of the major elements in your water sample match the measured salinity or whether individual elements are increased or reduced. Note the different concentration ranges on the x-axis.

Background: Natural seawater consists of the same elements in fixed proportions. Only the concentrations of the elements increase or decrease in proportion to salinity. That is why the ideal values also change with salinity.

Green arrow
 Value is relatively natural.

Yellow arrow
 Value is becoming increasingly unnatural.

Red arrow
 Value unnatural.



Element ratios

This chart shows whether the element supply is appropriate or whether the ratios of certain element pairs are skewed due to an imbalanced supply. The arrow points in the direction of the element with increased concentration. Only the relationship between the elements is evaluated. The evaluation of the individual measured values may vary.

Background: The reef inhabitants remove various elements from the aquarium water. To compensate for this consumption and obtain water that is true to nature, water changes are carried out and water additives are used. This does not always work as needed.

Green Arrow

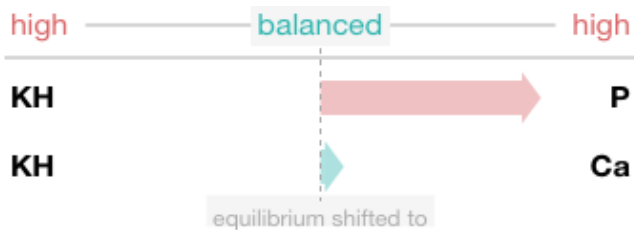
Relationship close to nature.

Yellow arrow

Ratio slightly shifted.

Red arrow

Ratio shifted drastically.



Growth Factors

This diagram shows whether important growth factors are in balance or out of proportion. The arrow points in the direction of the factor with increased concentration. Only the relationship between the factors is evaluated. The evaluation of the individual measured values may vary.

Background: The most important growth factors include carbonate hardness, calcium concentration and phosphorus content. When these values are slightly increased, growth is usually encouraged, while greatly increased or reduced values slow growth. If there is an imbalance between these factors, it can adversely affect coral growth and, in the worst case, lead to tissue necrosis.

Green arrow

Balance between factors OK.

Yellow arrow

Factors increasingly disproportionate to one another.

Red arrow

Factors in disproportion to one another.