



Thank you for your business! Please let us know if you have questions, comments, or concerns.

Please remember that the information that accompanies your tested values is a courtesy and is offered only to frame the results in a way meaningful to the aquarium hobbyist. The NSW values, acceptable ranges and recommendations are not meant to replace the advice of aquarium professionals and experienced hobbyists.

Test Results for Kenneth Argo

Source ID:



Water Test Summary

Ammonia (NH ₃ -4)	Good	0.010
Nitrite (NO ₂)	Good	0.003
Nitrate (NO ₃)	Good	0.3
Phosphate (PO ₄)	Good	0.03
Silica (SiO ₂ -3)	Good	0.5
Potassium (K)	Good	359
Calcium (Ca)	Good	425
Boron (B)	High	7.0
Molybdenum (Mo)	Good	0.1
Strontium (Sr)	Good	8.5
Magnesium (Mg)	High	1500
Iodine (I ⁻)	Good	0.09
Copper (Cu ⁺⁺)	Good	0.02
Alkalinity (meq/L)	Good	3.00

Ammonia (NH₃-4)

Natural Seawater Value: 0.010 mg/L

Acceptable Range: 0.000 to 0.050 mg/L

Tested: 0.010 mg/L

(GOOD) Your ammonia level is within the recommended range. We recommend staying with the current feeding and stocking levels. Be sure to maintain a good schedule of water changes and additives. Ammonia levels can rise after the addition of new animals, after a water change, or after the changing of food diet. Any ammonia level above 0.05 mg/L is a cause for concern, and the source should be found and corrected.

Nitrite (NO₂)

Natural Seawater Value: 0.010 mg/L

Acceptable Range: 0.000 to 0.100 mg/L

Tested: 0.003 mg/L

(GOOD) Your nitrite level is within the recommended range. We recommend continuing with your current maintenance and feeding schedules. Residual levels of nitrite are common in marine aquariums. Levels of 0.05 or less are of little concern. If the levels are higher than this, the source should be found and corrected.

Nitrate (NO₃)

Natural Seawater Value: 0.050 mg/L

Acceptable Range: 0.000 to 25 mg/L

Tested: 0.3 mg/L

(GOOD) Your nitrate level is within the recommended range. Be sure to maintain reasonable stocking and feeding levels, as well as a regular water change schedule. Nitrate is not toxic in and of itself, but a rising level is indicative of deteriorating water conditions, and any level above 5.0 mg/L in reef aquariums is a reason for concern.

Phosphate (PO₄)

Natural Seawater Value: 0.030 mg/L

Acceptable Range: 0.000 to 0.250 mg/L

Tested: 0.03 mg/L

(GOOD) Your phosphate level is within the recommended range. We recommend continuing the current maintenance and water change schedule. The use of a phosphate absorbing resin is recommended to keep phosphate levels below 0.05 mg/L.

Silica (SiO₂-3)

Natural Seawater Value: 0.040 mg/L

Acceptable Range: 0.000 to 0.500 mg/L

Tested: 0.5 mg/L

(GOOD) Your silica level is within the recommended range. We recommend regularly checking your make-up/top-off water for silicates. Continued use of an iron-based, phosphate/silicate resin would be beneficial to maintaining this level. High silicate levels can cause diatom blooms within the aquarium.

Potassium (K)

Natural Seawater Value: 390 mg/L

Acceptable Range: 350 to 450 mg/L

Tested: 359 mg/L

(GOOD) Your potassium level is within the recommended range. We recommend continuing with your current water change and chemical additive schedule. Potassium is an important constituent of seawater, being found in almost the same concentration as calcium. Potassium is important for neurological functions in fishes, as well as being a critical plant nutrient required by zooxanthellae and macro algae.

Calcium (Ca)

Natural Seawater Value: 400 mg/L

Acceptable Range: 350 to 450 mg/L*

*These values represent only the amount of free calcium ions present in the samples. According to Randy Holmes-Farley, the total calcium concentration can be 10% to 20% higher.

Tested: 425 mg/L

(GOOD) Your calcium level is within the recommended range. We recommend that you continue with your current schedule of calcium additions. Calcium is critical to healthy coral skeletal growth, and many other biological processes. Maintenance of calcium levels that are at or near seawater values is an important factor in having a healthy reef aquarium.

Boron (B)

Natural Seawater Value: 4.6 mg/L

Acceptable Range: 3.0 - 6.0 mg/L

Tested: 7.0 mg/L

(HIGH) Your boron level is too high. We recommend the suspension of any buffer containing borate salts until levels stabilize. You may also wish to perform a partial water change. Borate is an important part of the water buffering system, and it helps keep calcium levels stable. An overabundance of borate can cause dangerous fluctuations in alkalinity and pH, as well as causing inaccurate calcium test readings.

Molybdenum (Mo)

Natural Seawater Value: 0.01 mg/L

Acceptable Range: 0.0 to 0.12 mg/L

Tested: 0.1 mg/L

(GOOD) Your molybdenum level is within the recommended range. Molybdenum is found in many common additives and at highly elevated levels in most salt mixes and so a vast majority of reef tanks demonstrate a level 10 to 50 times higher than natural levels. 0.12 mg/L is the upper toxicity limit for Molybdenum, the point at which negative effects can begin to manifest themselves. Your level is below this limit and is in proximity to natural sea water values. Molybdenum is important to microbial activity in the aquarium filter, and may also be important to stony coral health and reproduction.

Strontium (Sr)

Natural Seawater Value: 8.1 mg/L

Acceptable Range: 5.0 to 12.0 mg/L

Tested: 8.5 mg/L

(GOOD) Your strontium level is within the recommended range. We recommend continuing with your current additive schedules. Strontium is important to coral growth, as they incorporate strontium ions into their skeletal mass, particularly SPS corals. It is also important to coralline algae growth.

Magnesium (Mg)

Natural Seawater Value: 1280 mg/L

Acceptable Range: 1100 to 1400 mg/L

Tested: 1500 mg/L

(HIGH) Your magnesium level is too high. We recommend reducing or suspending any additives containing magnesium until the level comes down. You may also wish to perform a partial water change. Magnesium is critical to the water buffering system, any photosynthetic processes, and to marine invertebrates in general. Only sodium and chloride are found in greater proportions. Higher than normal levels are known to produce damaging effects on some organisms, encourage algae blooms, and destabilize the calcium levels and the buffering capacity of the water.

Iodine (I⁻)

Natural Seawater Value: 0.060 mg/L

Acceptable Range: 0.030 to 0.090 mg/L

Tested: 0.09 mg/L

(GOOD) Your iodine level is within the recommended range. We would recommend continuing with the current water change and additive schedule. Please be advised that many iodine supplements are difficult to dose accurately, and "above normal" readings are easy to achieve with common iodine additives.

Copper (Cu⁺⁺)

Natural Seawater Value: 0.030 mg/L

Acceptable Range: 0.000 to 0.030 mg/L

Tested: 0.02 mg/L

(GOOD) Your copper level is within the recommended range. We recommend continuing with your current water change schedule, being careful to use only RO/DI water for make-up/top-off water. Use of activated carbon can also help keep this level in check. Copper is fatal to marine invertebrates at levels as low as 0.05 mg/L for many species.

Alkalinity (meq/L)

Natural Seawater Value: 2.5 meq/L

Acceptable Range: 2.5 to 5.0 meq/L

Tested: 3.00 meq/L

(GOOD) Your alkalinity level is within the recommended range. We recommend continuing with your current water change and buffering schedule. Maintaining an appropriate alkalinity is crucial to maintaining a healthy aquarium. A fluctuating alkalinity will lead to serious problems in maintaining an appropriate pH, as well as problems keeping calcium and magnesium levels within required ranges.

Thank you for using AquariumWaterTesting.com