

Indian River Lagoon

Indian River Canal Water Analysis

Purpose: This report highlights the successful results that Greenfield Resources experienced while finding a solution to treat the Indian River Lagoon in Vero Beach, Florida.

Overview: The chart below shows a comparison of the water canal samples, both the raw sample and after Greenfield Resources treatment.

Table 1: Indian River Canal Water Test

Raw Canal Contaminants	Raw Canal Water	Treated Water
Boron (mg/L)	.24	N/D
Aluminum	N/D	N/D
Calcium (mg/L)	110	90
Magnesium (mg/L)	37	30
Nitrogen Total (mg/L)	.14	.07
COD (mg/L)	25	21
Nitrates (mg/L)	.14	.07
Nitrites	N/D	N/D
Dissolved Oxygen (mg/L)	8.3	2.8
TOC (mg/L)	7.7	5.3

Note: N/D equals Non-Detectable.

Explanation of Results: Table 1 shows that Greenfield Resources is capable of producing positive results for the Indian River Canal. Every pollutant listed had a substantial reduction. While at the canal site in July 2017, Greenfield Resources tested with a variety of treatment methods, some methods included a post treatment after the water ran through the Greenfield Resources A.L.E.F. (advanced linear electro-flotation) system. Technicians from Indian River County solely collected water samples to test from the post treatment. Greenfield Resources was not satisfied with that treatment method, which Greenfield was testing on behalf of an unrelated company, but has other options to separate solids that would not put constituents into water.