

MEMO

To: Carmel Area Wastewater District
Board of Directors

From: [IOREX Global](#)

Date: September 30, 2021

Subject: CAWD Board Meeting - Item #4 - IOREX Installation and Red Water Issues

Honorable Members of the Board of Directors:

IOREX was presented with a copy of the Staff Report prepared by Patrick Treanor, Staff Engineer on September 24, 2021. The report discusses the iron oxide corrosion and “red water” issues experienced by CAWD at various eye washing stations within the Wastewater Treatment Plant facility and the installation of an IOREX water conditioning device in November of 2019 to remedy the issue. Further, the report suggests that a “pilot” and water testing regimen was conducted to test the efficacy of the IOREX water conditioning device. To IOREX’s knowledge, a pilot was not conducted, if there was, the data from said pilot should be provided. Absent that, there is no data-based evidence from which to draw any conclusion as to the efficacy of the IOREX water conditioning device. Before any determination regarding the continued use of IOREX as a solution, it would be in the interest of CAWD, affected staff and its consumer community to collect sufficient data from which to draw a science-based conclusion.

On September 15, 2021, IOREX received test data from tests conducted on August 12, 2021 and which, among other things, tested for iron concentration in the water. It is not clear whether these tests were conducted in the building which has the IOREX device. Also, there does not appear to be any control data to establish test results prior to the installation of the IOREX. While we have anecdotal evidence that the red water issues were resolved after the installation of the IOREX water conditioning device, there is no data to positively attribute the resolution of the red water issue to IOREX or any other method. Given the significant operational expense savings CAWD will achieve by relying on the IOREX water conditioning device to remedy its iron oxide related issues, we recommend that a pilot study be conducted.

IOREX would like to make a presentation of the science of the technology to the Board of Directors as part of the Agenda as presented. We feel we can accomplish this with a 10-15-minute presentation / discussion.

Thank you for providing this opportunity to address you.

Respectfully,

Julie Koo, CEO / President

cc Brian J. Hanlon, Robert Bowcock, Sterling Washington, Iris Lee

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