



UpTake™

Iron Removal From Irrigation Water

Iron in drip and sub irrigation systems cause discoloration, odor, and clogged emitters plus are a host for iron eating bacteria. To help remove iron from your drip irrigation systems and reduce the potential for additional issues you can inject UpTake, a cationic surfactant, to the drip irrigation systems and knock the iron out of suspension as they share the same positive charge. This will allow the iron to be more easily filtered out of the water and ensures it does not cause unsightly staining or cause issue for your plants.

Iron Removal Study

Irrigation water with a high level of iron presents a problem in SDI (sub drip irrigation) system in agriculture due to clogging of emitters and filters.

In September 2015, testing was done by Netafim USA in an SDI system in College Station, Texas to provide data to support using UpTake to effectively remove iron from the irrigation water.

Method

UpTake was injected into an iron laden irrigation system at a 2 ppm rate with a three minute exposure time.

Result

Three minutes after injection 2 ppm of UpTake a sample of the irrigation water was taken and compared to the untreated sample. UpTake dissolved the turbidity holding the iron into suspension allowing the iron to settle to the bottom of the sample.

Conclusion

From the results of this study, injecting UpTake into irrigation systems at low ppm levels appears to be a viable method to keep iron from plugging irrigation lines, emitters and filters.

Well Water with Iron Contamination



Untreated



Treated with 2 ppm of UpTake

Irrigation Line Maintenance: A continuous injection of UpTake at 2-20 ppm has shown to be a successful way to not only remove iron but also prevent the iron build up that plugs emitters, lines and filters and damages pumps.

