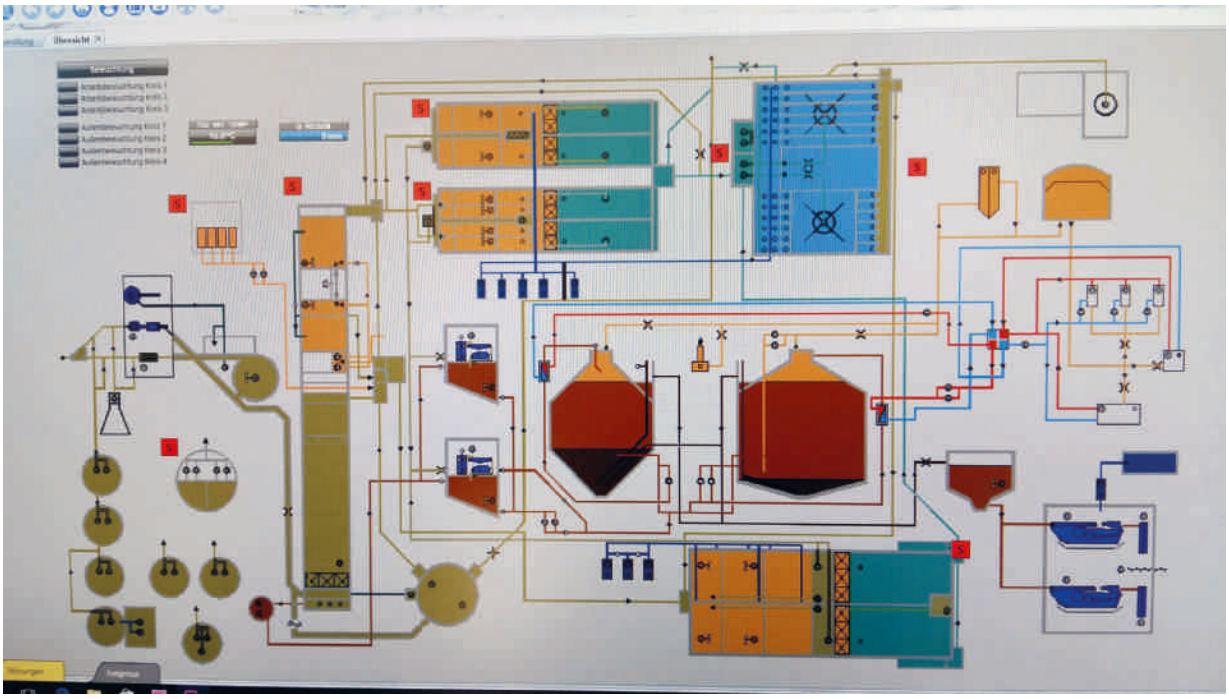
IRON II CHLORID PIX 209W - In wastewater treatment

Rediscovered, and nevertheless brand new: Due to our close cooperation with Kemira, we were able to add another product for phosphate precipitation to our portfolio: PIX 209W.

Recently, divalent iron salts have rarely been used for phosphate precipitation, because they had the bad reputation of consuming vast amounts of oxygen for oxidation. Wrongly! As recent studies have shown, it takes only a few minutes to oxidize PIX 209W in the aeration tank and to start phosphate precipitation!
Therefore, we decided to verify our experience in a well-founded manner and to carry out extensive operational tests in comparison with trivalent iron products.

Operational tests with trivalent iron products

In mid-January this year the storage tank of a large sewage treatment plant in Lower Austria was filled with PIX 209W.
In this plant the dosage takes place in the distribution building of the inlet to the biological systems; it is dosed before the upstream denitrification. Even after switching to 209W PIX as a precipitant the dosages were not changed. After a short time the P value fell to about 0.2 mg / l and so the dosage was reduced.



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Exact calculations based on the tests carried out will be available in a few months. One thing is already clear:
Up to now, no adverse effects have been observed. In no way neither nitrification, denitrification nor sedimentation behavior were adversely affected.

If you are interested in it and / or if you have any questions, please contact your technical supervisor!