



CASE STUDY

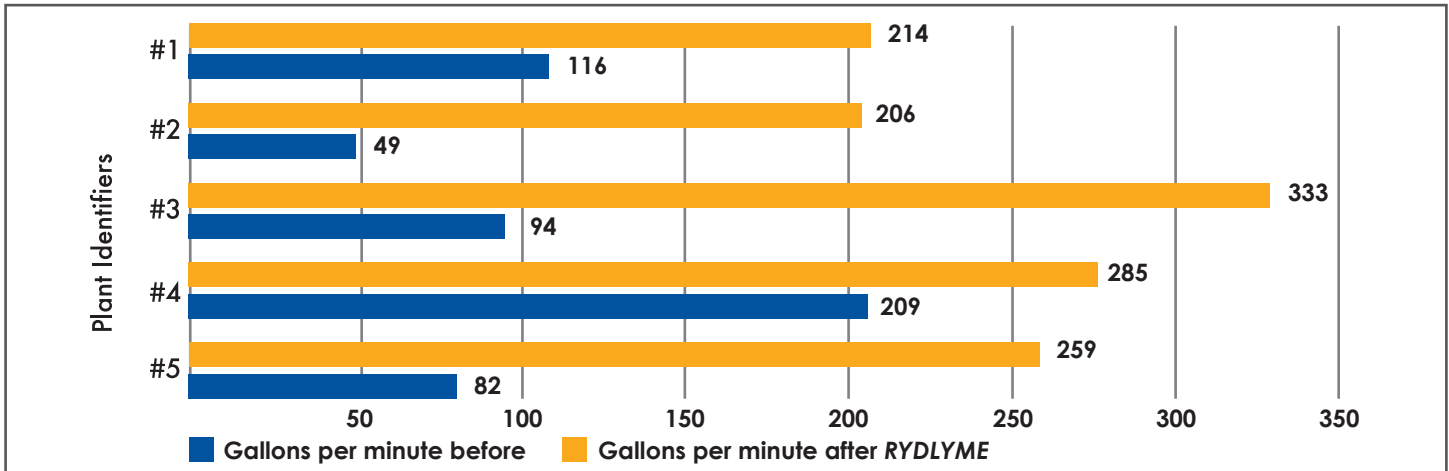
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RAW SLUDGE TRANSFER PIPELINE CLEANING

A southwest regional wastewater treatment facility was experiencing a severe reduction in raw sludge flow throughout their five service plants. Due to government restrictions on harsh, chemical treatment, vivianite mineral deposits had accumulated and rapidly constricted sludge flow in transfer pipelines. **RYDLYME** was acquired for testing its effectiveness on the deposit. A foot long spool sample of affected 6" pipe was submerged in **RYDLYME** for only two hours and upon inspection was found to be completely clean of deposits. The reaction was so rapid in fact that supervisory technicians did not have an opportunity to evaluate the test and another spool piece was tested to reprove and confirm the concept.

RYDLYME manufacturer's representatives assisted facility technicians in calculating total volume and adequate **RYDLYME** was acquired to clean all affected system piping. After **RYDLYME**, all plants had significant increases in raw sludge flow. On average, the flow increase across all five service plants was greater than 157%. Facility technicians from adjacent regional facilities were brought in to observe the **RYDLYME** performance and duplicate the cleaning procedure at their respective facilities. For more details and examples on how **RYDLYME** can solve vivianite and struvite problems at your facility, contact Apex Engineering Products to open a discussion.



CHALLENGE

Raw sludge transfer piping choked by vivianite deposits. Pumps required to operate excessively at 15 amps and 58 PSI.

SOLUTION

At 100% concentration, **RYDLYME** circulation for just six hours.

RESULTS

Flow rates at all plants increased upwards of 150% on average, visual inspection at multiple points confirmed complete cleaning. Pumps measured 4 amps and only 29 PSI, saving loads of power and extending equipment life!



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