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Your average US WwTP, whereby the Engineering Firm specified Biological treatment followed by carbon

SPECIFICATIONS

Application:
Municipal Wastewater

Air flow:
34,000 cfm

Contaminants:
25 ppm avg. H₂S & 200 ppm peak
H₂S

System configuration:
5 x Torrenta 36-2 and
2 x Carbon Units

Removal efficiency:
99% H₂S

Footprint:
Varies

Height:
17 ft

Reactor material:
FRP

Media material:
Spacious Wire Pac (SWP)

Installed in:
November 2010



CASE STUDY: AMERICAN FORK, UTAH / TIMPANOGOS WWTP

REQUIREMENT

The Timpanogos WwTP, through Bowen Collins, contacted Azzuro requesting Azzuro provide odor control at their Headworks and Dewatering Facility. The biological scrubbers specified were part of a comprehensive strategy to treat the most significant odors with biological treatment and the smaller levels of odors with a carbon system.

Bowen Collins, along with MMC, selected Azzuro for this project, due to its many years of experience and outstanding results with Biological Odor Control systems.

Engineers: Bowen Collins
Contractor: MMC, Inc.

SOLUTION

A total of five (5) Torrenta 36-2 Azzuro Bioreactors were installed to treat 34,000 cfm of foul air at the Headworks Facility of the Timpanogos WwTP. Additionally, two carbon units were provided and installed at the Dewatering Building where lower levels of H₂S were expected.

The system has not seen the specified levels of incoming H₂S, but continues to meet performance by having 0.25 ppm H₂S or less at the outlet. As the WwTP grows and ages, we assume the inlet H₂S levels will increase and the system will be fully utilized at that point.

The owners and operators have been very pleased with the level of performance and lack of maintenance, which allows them to use their time more effectively during their work day.