



East Primary Pump Station



ABOUT THIS PROJECT:

Market Segment:
Wastewater Collection & Treatment

Engineer:
Krebs Engineering

Products Used:
Xypex Bio-San

Concrete Producer:
Moon Concrete Services

Owner:
Athens Utilities

General Contractor:
Cleary

Location:
Athens, Alabama, USA

Athens Utilities completed construction of the East Primary Pump Station to support wastewater conveyance and system reliability for the City of Athens.

During project evaluation, the owner identified low velocity sewer flow as a contributing factor to the generation of hydrogen sulfide posing the risk of microbial induced corrosion. Based on internal research and technical discussions, Xypex Bio-San was selected as an integral concrete treatment to provide long term protection against concrete deterioration.

Approximately 3,200 lbs. of Xypex Bio-San was incorporated into cast in place concrete supplied by Moon Concrete Services. The integral crystalline waterproofing system permanently seals capillaries and micro cracks while the bio active component inhibits the growth of acid producing bacteria associated with wastewater environments.

The successful implementation of Xypex Bio-San at one of the Primary Pump Station led Athens Utilities to further evaluate Bio-San for use across additional wastewater infrastructure, including manhole structures.

The Xypex system provides concrete protection, reduced maintenance requirements, and long-term durability for critical wastewater assets.

