

CLIENT: **CeramTec North America, Laurens, SC**
Wastewater Pretreatment System



BACKGROUND:

CeramTec is a leader in manufacturing “high-performance ceramics”. The Laurens, SC, facility has been continuously producing technical ceramic products since 1961. These products support automotive, aerospace, cryogenics, high-energy physics, telecommunications, electronics, structural, textile, microwave and nuclear applications. During the manufacture of these technical ceramics, wastewater is generated that is high in metals and Total Suspended Solids. CWS was retained to upgrade and replace the existing pretreatment system with one that would continually meet discharge requirements.

PROJECT REQUIREMENTS:

- Influent flow rate of 10 gallons per minute
- Pretreatment for metals and solids
- Design/build of new system in limited space allotted while existing system remained online
- Reuse of some of the existing equipment

SYSTEM COMPONENTS:

- Filtration
- Flow equalization
- Tank for emergency flow or high concentration wastewater holding
- Neutralization/coagulation/flocculation
- Clarification/sedimentation
- Sludge dewatering



- CWS completed the system with no interruption in plant operations
- Design maximized the use of existing equipment
- Effluent consistently meets discharge limits

