SciCorp™ BIOLOGIC™

We Solve Odor-Fog-Sludge Issues and Reduce Energy/Chemical Costs

ISO 9001:2015 REGISTERED COMPANY

INDUSTRIAL WASTEWATER TREATMENT

Large Chicken Processor

Operating Challenges

- Low performance of anaerobic pretreatment lagoons
- FOG accumulation in anaerobic lagoons
- High Fat Oil Grease offsite disposal costs related to DAF operation
- Odor issues
- High energy costs related aerobic treatment
- Aerobic sludge volume accumulation
- High FOG/Sludge, dredging/disposal costs
- Costly land application restrictions
- Nitrification denitrification issues
- Overall plant overloading
- Overall high plant operating costs

Treatment Plan & Execution

SciCorp worked with plant operating staff and developed treatment approach using SciCorp technology to address operating challenges.

SciCorp recommended the following:

BIOLOGIC™ SR2 addition at:

- ✔ Inlet to anaerobic pretreatment lagoons
- ✔ Inlet to sludge storage lagoons

Process changes implemented by plant staff to optimize utilization of SciCorp technology resulted in:

- ✔ FOG crust layer in pretreatment lagoons reduced 85%–95%
- ✔ BOD/COD removal in pretreatment lagoons increased from 40% to 85%
- ✔ Odors eliminated from anaerobic pretreatment lagoons
- ✔ BOD load to aerobic treatment, decreased by 85%
- ✔ Sludge accumulation in sludge pond eliminated
- ✔ Dredging of crust in anaerobic pretreatment lagoons eliminated
- ✔ Dredging frequency of sludge pond reduced by 75%
- ✔ Aeration demand for aerobic system dropped by 50%–75%
- ✔ Denitrification improved by 50% without adding carbon source
- ✔ Wastewater plant organic load capacity increased by 50%
- ✔ Operational cost savings using SciCorp technology showed 5:1 ratio (savings: costs)

Environmental/Carbon Footprint Impact Benefits

- Energy use dropped by 50% in aerobic treatment
- Energy use related to dredging and offsite disposal of FOG solids and sludge solids eliminated
- Carbon footprint of wastewater plant operations reduced 35-50%

Issues Avoided

- Capital expenditures due to plant over loading avoided
- FOG/Sludge land application ban no impact on plant operation
- Offsite FOG/Sludge treatment avoided
- Increase in dredging/disposal costs avoided by onsite treatment

50% Increase in plant capacity

200% Improvement in anaerobic pretreatment efficiency

100% Diversion of FOG/Sludge application to onsite biological degradation

100% Odor eliminated from anaerobic pretreatment lagoons and sludge pond

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