

# New Organic All-Natural Solution for Radical Foul Odor Mitigation, Bio Solids Reduction, Energy Savings, Plant Improved Performance

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Kansas City WWTP

Photo Courtesy of Tetra Tech





SCICORP INTERNATIONAL CORP.  
**TRANSFORMATIVE WASTEWATER  
INNOVATIONS**

# SCICORP WASTEWATER SOLUTIONS

## Value Added Results



ODOR  
CONTROL



BIOSOLIDS  
REDUCTION

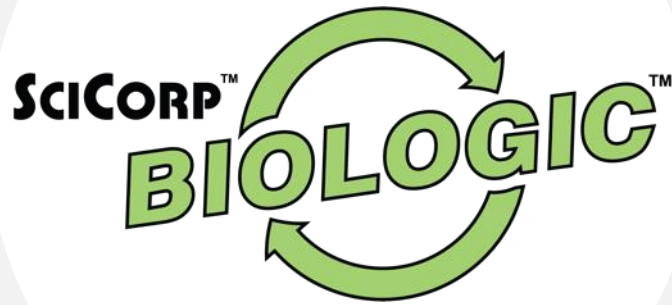


ENERGY  
SAVINGS



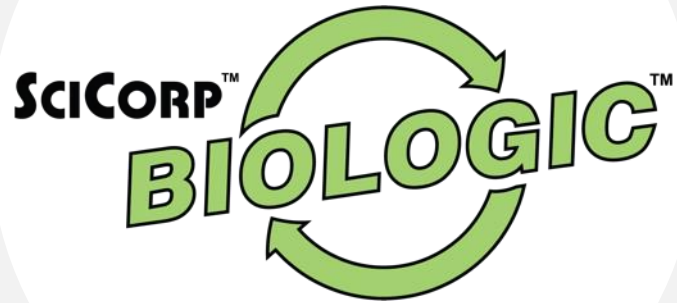
PERFORMANCE  
IMPROVEMENT

# BIOLOGIC® SR2 LIQUID ADDITIVE



- ✓ PROPRIETARY PLANT-BASED UNIQUE MICRONUTRIENTS
- ✓ STIMULATES EXISTING BACTERIAL POPULATION
- ✓ INHIBITS SULPHUR REDUCING BACTERIA
- ✓ PERFORMS EQUALLY WELL IN A RANGE OF PLANT TYPES, CLIMATES AND PLANT SIZES

# BIOLOGIC<sup>®</sup> SR2

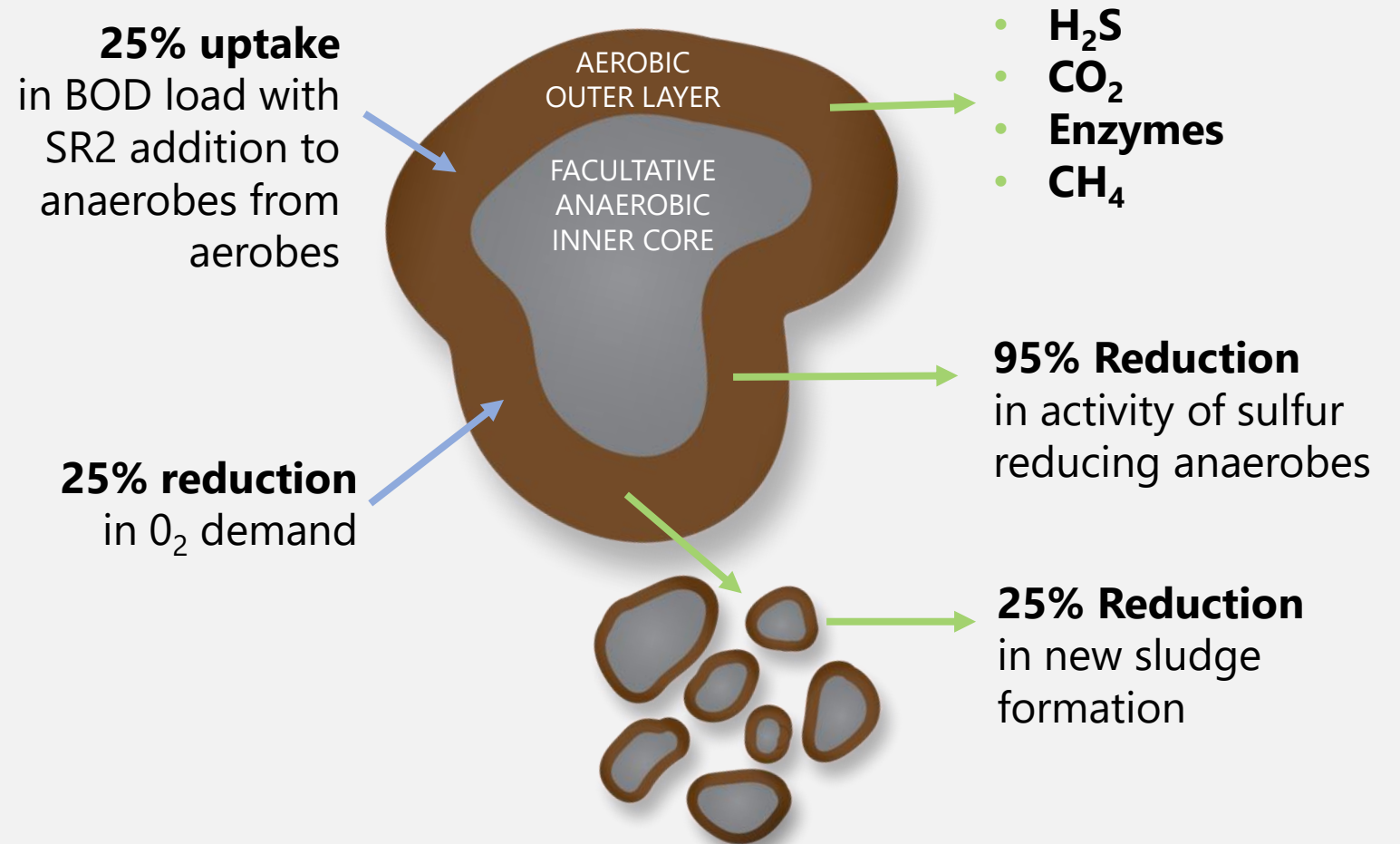


- ↓ ELIMINATES ODORS
- ↓ REDUCES OXYGEN DEMAND
- ↓ REDUCES BIOSOLIDS FORMATION
- ↓ REDUCES OPERATING COSTS

# The Technology

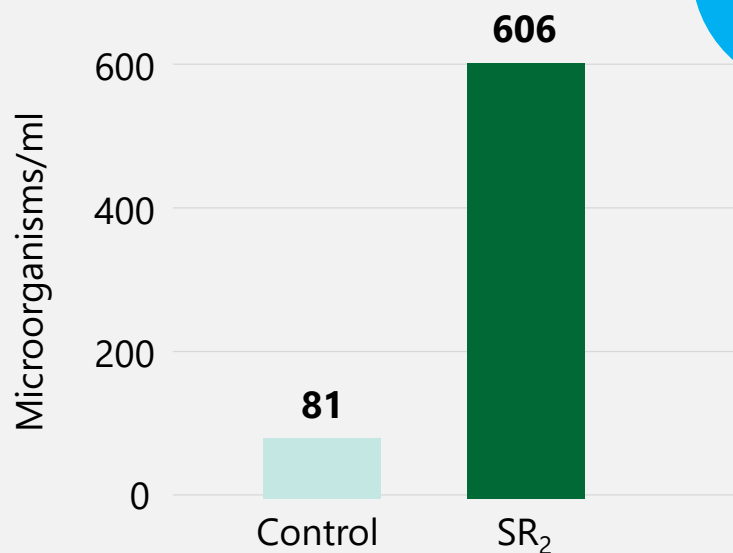
## At the Core

### BIOLOGIC SR2 Stimulates the Inner Core of the Floc



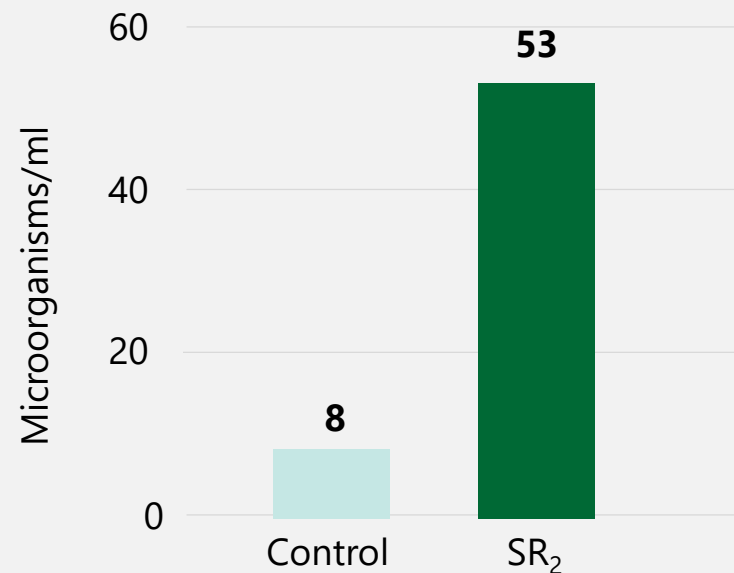
# INCREASING ORGANISM RESPIRATION RATE

## Aerobic Bacteria



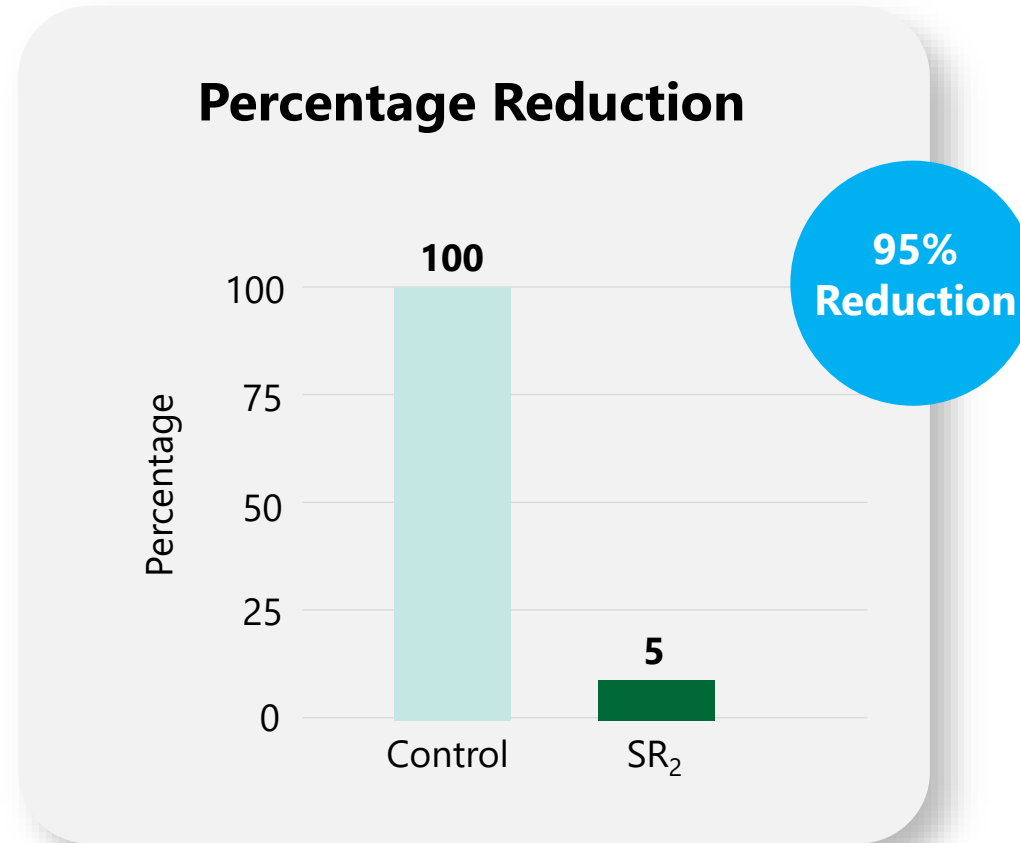
Increase  
of 650%

## Anaerobic Bacteria



Increase  
of 560%

# DECREASING ORGANISM RESPIRATION RATE for Sulphur Reducing Bacteria



Testing conducted at the Biotechnology Research Institute of the National Research Council of Canada



# WASTEWATER TREATMENT BENEFITS



- ✓ Decrease in Dissolved Oxygen (DO) Demand for BOD Removal
- ✓ Reduced Aeration/Energy Demand
- ✓ Reduced Biomass Yield
- ✓ Reduced Sludge Volumes Produced
- ✓ Elimination of Odour
- ✓ Improved Effluent Quality
- ✓ Improved Nitrification

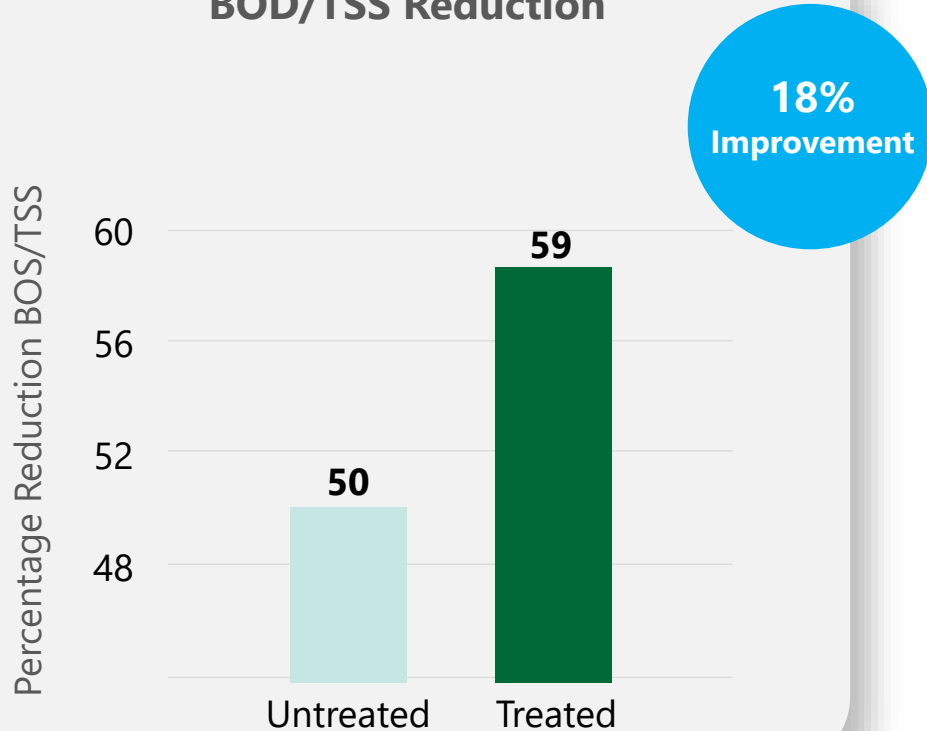
# REAL WORLD RESULTS

Kansas City WWTP



# SciCorp Biologic SR2 Technology Impact

## BOD/TSS Reduction



11 Week Study

112 MGD PLANT - 424,000 M3/Day

Primary Clarifier Efficiency Improvement on BOD/TSS Removal

## Oxygen Consumption



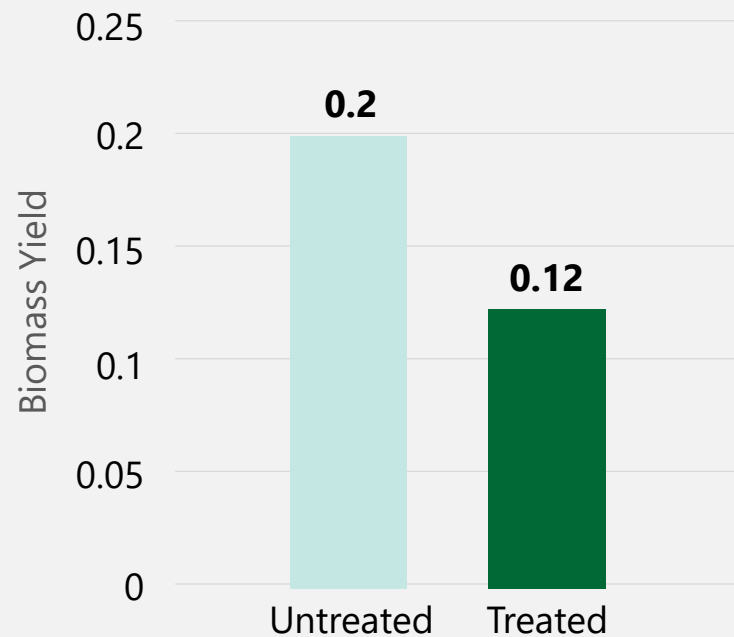
11 Week Study

112 MGD PLANT - 424,000 M3/Day

Pure Oxygen Use

# SciCorp Biologic SR2 Technology Impact

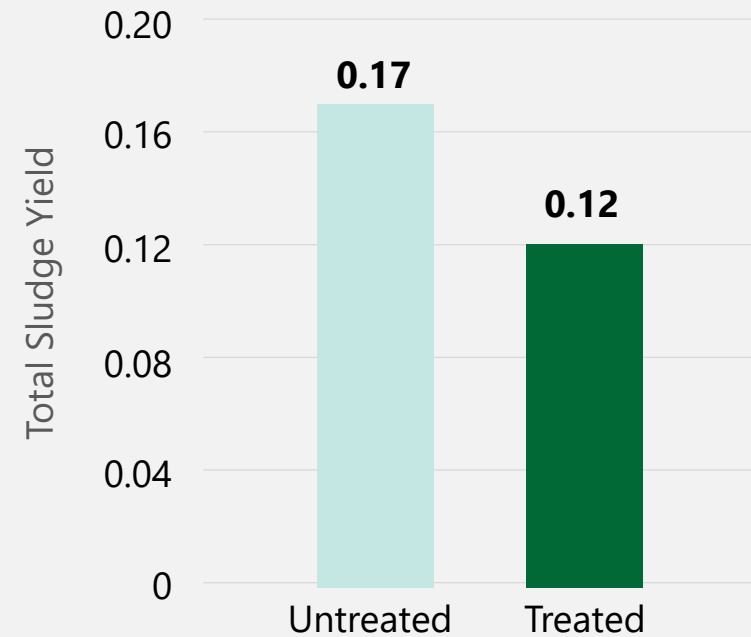
## Biomass Yield – Secondary Treatment



**40%  
Reduction**

**11 Week Study  
112 MGD Plant – 424,000 M3/Day**

## Primary/Secondary Sludge Yield

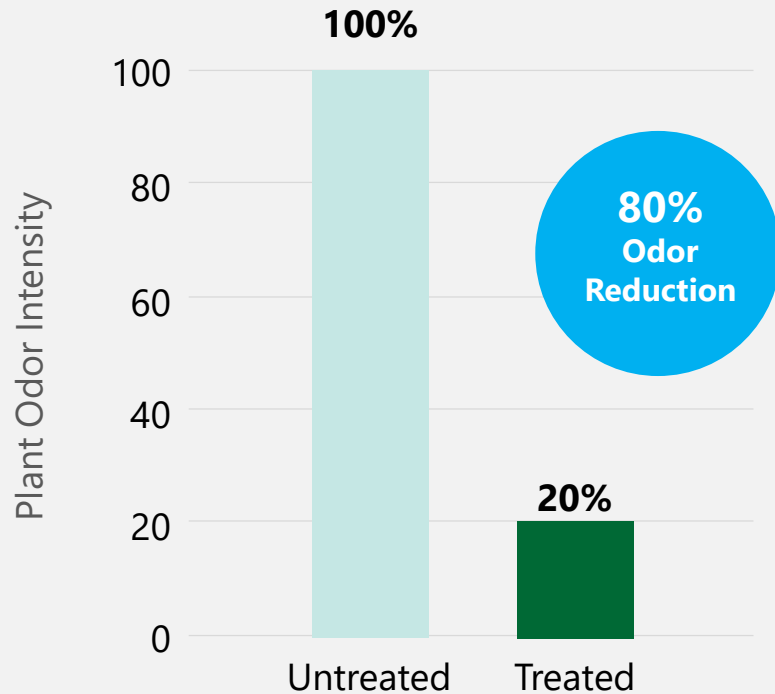


**29%  
Reduction**

**11 Week Study  
112 MGD Plant – 424,000 M3/Day**

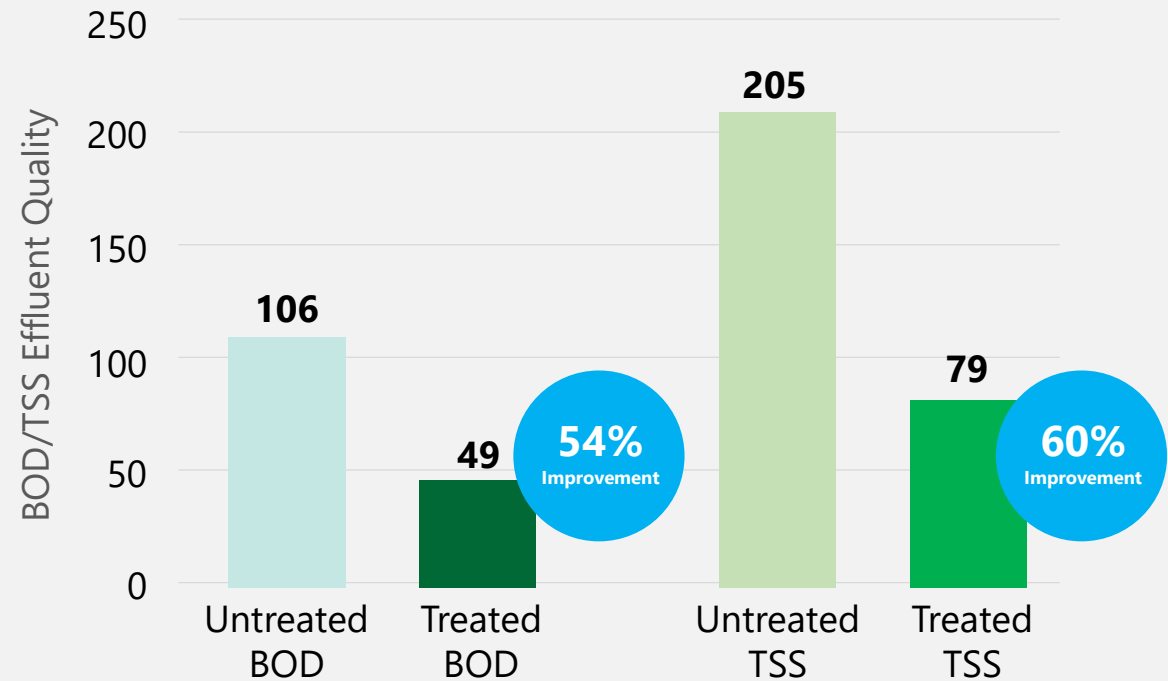
# SciCorp Biologic SR2 Technology Impact

## Odor Reduction



**11 Week Study**  
**112 MGD Plant – 424,000 M3/Day**  
**Odor Reduction**

## Secondary Clarifier Effluent Quality/Improvement



**11 Week Study**  
**112 MGD Plant – 424,000 M3/Day**



# **SciCorp**

## Engineering Support

**SciCorp and its Team of Professional Engineers provide:**

- **Technical support for all applications of SciCorp Technology**
- **System analysis & performance monitoring to track proven results**

**To reduce the “carbon footprint & environmental impact” of your WWTP.**

# THE PRODUCT

## BIOLOGIC SR2™ Industrial Concentrate



- Available in 55 Gallon drums or 275 Gallon Totes
- Engineered for immediate results
- Extremely stable for long shelf life
- Sustainability solution to provide ongoing benefits to the environment
- UL/Ecologo certified



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