

Table 1.
Summary of Results of Microbiological Sampling and Testing
from the Dry-Period Sampling Event
SJRWMD Alternative Water Supply Program
Central Florida Artificial Recharge Project

Location SampleID ==> Date Collected ==>		Lake Orienta East LO-E-R-DP 8/23/2001	Lake Orienta West LO-W-R-DP 8/23/2001	Lake Sherwood LS-R 8/13/2001	Indicator Guidelines for Ambient Surface Water Quality (Class III Waters) ¹
Organism	Units				
Total Coliform	cfu/100 mL	250	210	235	1,000 cfu/100 mL - Single Sample 400 cfu/100 mL - Average
Fecal Coliform	cfu/100 mL	<1	36	7	800 cfu/100 mL - Single Sample 200 cfu/100 mL - Geometric Mean
<i>E. coli</i>	cfu/100 mL	2	1	<1	126 cfu/100 mL - Geometric Mean
Enterococci	cfu/100 mL	<1	4	9	35 cfu/100 mL - Fresh Water 104 cfu/100 mL - Geometric Mean
<i>C. perfringens</i>	cfu/100 mL	<1	<1	<1	50 cfu/100 mL
Cryptosporidium	no./100 L	<2	<34	<30.5	
Giarida	no./100 L	<2	<34	<30.5	
Somatic Coliphage	pfu/100 mL	<5	<5	<5	100 pfu/100 mL
1 Liter enrichment	pfu/100 mL	not done	not done	negative	
F+ coliphage	pfu/100 mL	<5	<5	<5	100 pfu/100 mL
1 Liter enrichment	pfu/100 mL	not done	not done	negative	

Notes:

cfu - Colony forming units

pfu - plaque forming units

¹ Indicator Guidelines for Ambient Surface Water Quality (used for Class III Waters)

Total Coliforms	State of Florida guidelines for a single sample 1000 cfu/100ml, average of 400 cfu/100ml
Fecal Coliforms	EPA and the state of Florida recommended guidelines for a single sample of 800 cfu/100 mL, for a geometric mean, 200 cfu/100 mL
<i>E.coli</i>	EPA recommended guideline for a geometric mean sample 126 cfu/100 mL
Enterococci	EPA recommended guidelines for a single sample of 104 cfu/100 mL, for a geometric mean , 33-35 cfu/100 mL for marine and fresh water respectively.
<i>C. perfringens</i>	for fresh and brackish water and 5 cfu/100 mL for marine waters.
Coliphage	Level used - 100 pfu/100 mL based on previous research by Dr. Joan Rose, USF