

Table 2.
Summary of Detections and Comparisons to Criteria and Screening Values
from the Dry-Period Sampling Event
SJRWMD Alternative Water Supply Program
Central Florida Artificial Recharge Project

Parameter Group and Name	Units	Location	Lake Orienta	Lake Orienta	Lake	Criteria and Screening Values										
		SampleID ==>	East	West	Sherwood	Maximum Contaminant Levels				Brownfields		Risk-based Concentrations				
		Date Collected ==>	LO-E-R-DP	LO-W-R-DP	LS-R	Florida MCL / SMCL	Florida MCL / SMCL	Federal MCL/SMCL ²	Federal MCL/SMCL ²	Florida Brownfield	Regional USEPA RBC ⁴	Regional USEPA RBC ^{4,5}				
		Time Collected ==>	8/23/2001	8/23/2001	8/13/2001	(Chapter 62-550, FAC) ¹	(Chapter 62-550, FAC) ¹	MCL	SMCL	(62-785) ³	EPA Region III	EPA Region IV				
Matrix ==>	WA	WA	WA					GCTL	Tap Water	(HQ=0.1)						
Sample Type ==>	N	N	N													
Criteria	Units	Criteria	Units	Criteria	Units	Criteria	Units	Criteria	Units	Criteria	Units	Criteria	Units	Criteria	Units	
Radionuclides																
Alpha, gross	pCi/L	5.5 =	9.8 =	3.3 =	15 pCi/L			15 pCi/L								
Beta, gross	pCi/L	4.7 =	6.8 =	10.4 =	none											
General Chemistry																
Total Dissolved Solids (residue, filterable)	mg/L	240 =	270 =	150 =			500 mg/L		500 mg/L	500 mg/L						
Turbidity	NTU	0.75 =	12 =	36 J	1 NTU			1 NTU								
Color	Color Units	10 =	50 =	20 J			15 Color Units									
Total Organic Carbon	mg/L	1.2 =	2.1 =	22 =	none											
Dissolved Organic Carbon	mg/L	1.2 =	1.4 =	2.5 =	none											
Methylene Blue Active Substances	mg/L		0.095 J						0.5 mg/L							
Nutrients																
Nitrogen, ammonia (as N)	mg/L	0.13 =	0.46 =	1.2 =	10 mg/L			10 mg/L		10 mg/L		580 mg/L		58 mg/L		
Nitrogen, Kjeldahl, Total	mg/L	0.36 J	2 =	1.4 =	none											
Phosphorus, Total (as p)	mg/L	0.036 =	0.42 =	0.045 =	none											
Phosphorus, Total Orthophosphate (as P)	mg/L	0.09 =	0.045 =	0.009 J	none											
Anions																
Chloride (as Cl)	mg/L	17 =	19 =	9.7 =			250 mg/L		250 mg/L							
Fluoride	mg/L			0.36 =	4 mg/L		2 mg/L		2 mg/L	2 mg/L		2.2 mg/L		0.22 mg/L		
Sulfate (as SO4)	mg/L	14 =	55 =	16 =			250 mg/L		250 mg/L	250 mg/L						
Alkalinity, bicarbonate (as CaCO3)	mg/L	140 =	130 =	110 =	none											
Metals																
Aluminum	µg/L		1610 =				200 µg/L		50 µg/L			37000 µg/L		3700 µg/L		
Arsenic	µg/L		6.36 =	1.09 =	50 µg/L			50 µg/L		50 µg/L		0.045 µg/L		0.045 µg/L		
Barium	µg/L	8.79 J	21 J	14.1 =	2000 µg/L			2000 µg/L		2000 µg/L		2600 µg/L		260 µg/L		
Beryllium	µg/L	0.041 J			4 µg/L			4 µg/L		4 µg/L		0.016 µg/L		0.016 µg/L		
Cadmium	µg/L	0.233 J	1.46 =		5 µg/L			5 µg/L		5 µg/L		18 µg/L		1.8 µg/L		
Calcium	µg/L	60000 =	65900 =	36600 =	none											
Chromium, total	µg/L		3.17 J		100 µg/L			100 µg/L		100 µg/L						
Cobalt	µg/L	0.142 J	0.37 J	0.434 J								2200 µg/L		220 µg/L		
Copper	µg/L		16.6 J				1000 µg/L		1000 µg/L	1000 µg/L		130000 µg/L		13000 µg/L		
Iron	µg/L	292 =	4680 =	6310 =			300 µg/L		300 µg/L	300 µg/L		11000 µg/L		1100 µg/L		
Lead	µg/L		9.24 =	0.972 J	15 µg/L			15 µg/L		15 µg/L						
Magnesium	µg/L	2410 =	9260 =	10600 =	none											
Manganese	µg/L	10.8 =	61.4 =	76.5 =			50 µg/L		50 µg/L	50 µg/L		840 µg/L		84 µg/L		
Nickel	µg/L	5.08 =	6.77 =	23 =	100 µg/L			100 µg/L		100 µg/L		730 µg/L		73 µg/L		
Potassium	µg/L	1380 J	1780 J	2760 J	none											
Silver	µg/L	0.047 J					100 µg/L		100 µg/L	100 µg/L		180 µg/L		18 µg/L		
Sodium	µg/L	6630 =	10900 =	14900 J	160000 µg/L											
Vanadium	µg/L	0.351 J	6.95 J							49 µg/L		260 µg/L		26 µg/L		
Zinc	µg/L		26.8 =	1.66 J			5000 µg/L		5000 µg/L	5000 µg/L		11000 µg/L		1100 µg/L		
Volatile Organic Compounds																
Methyl ethyl ketone (2-butanone)	µg/L	27 J	3.9 J	160 =						4200 µg/L		1900 µg/L		190 µg/L		
Methylene chloride	µg/L	0.43 J	0.55 J		5 µg/L			5 µg/L		5 µg/L		4.1 µg/L		4.1 µg/L		

Notes:

Bolded values represent positive detections above promulgated regulatory criteria.
 Boxed values represent positive detections above Risk-Based Criteria.
 Bolded and boxed values represent positive detections above promulgated regulatory criteria and Risk-Based Criteria.

Explanation of Qualifiers

"=" Represents a detection at the value shown
 "J" Represents an estimated value that is above the method detection limit and below the practical quantitation limit.
 Blanks for the chemical data represent nondetection
 Blanks for the criteria and screening values represent no established value.

Sources:

- ¹ Florida Ground Water Guidance Concentrations, 17-520.400 FAC, June 2, 1994: Primary Drinking Water Standards (17-550.310 FAC), Secondary Drinking Water Standards (17-550.320 FAC).
² Brownfield's Cleanup Criteria Rule, Groundwater Cleanup Target Levels, Draft Chapter 62-785 F.A.C., 1997.
³ Drinking Water Regulations and Health Advisories, Office of Water, USEPA, October 1996.
⁴ EPA Region III Risk-Based Concentration Table, Tap Water Values, R.L. Smith, October 1997.
⁵ EPA Region IV Supplemental Guidance to RAGS: Region 4 Bulletins, Human Health Risk Assessment, November 1995; HQ=0.1 applied to noncarcinogens.