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EPA SESD POTABLE WATER SAMPLING RESULTS

SAMPLING OF RAW INTAKE WATER, TREATED WATER, AND PRIVATE WELL WATER

Samples collected 12/30/08

SITE: TVA Kingston Fossil
BREAK: 2.2
OTHER:

Sample Designation:	Maximum Contaminant Levels (MCL) (µg/L)	1007	1007D	1015	1015D	937
Sample Collection Date:		12/30/2008	12/30/2008	12/30/2008	12/30/2008	12/30/2008
Sample Location:		1007 Swan Pond Rd.	1007 Swan Pond Rd.	1015 Swan Pond Rd.	1015 Swan Pond Rd.	937 Swan Pond Rd.
Analysis:		Total Metals	Dissolved Metals	Total Metals	Dissolved Metals	Total Metals
Units:		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Sample Type:		Well Water	Well Water	Well Water	Well Water	Well Water
Aluminum	NE	100 U, J, QR-1	100 U, J, QR-1	100 U, J, QR-1	100 U, J, QR-1	100 U, J, QR-1
Antimony	6	1 U	1 U	**3**	1 U	1 U
Arsenic	10	1 U	1 U	1 U	1 U	1 U
Barium	2000	**73**	**71**	**69**	**73**	**120**
Beryllium	4	3 U	3 U	3 U	3 U	3 U
Cadmium	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Calcium	NE	**21000**	**18000**	**28000**	**30000**	**57000**
Chromium	100	5 U	5 U	**16**	5 U	5 U
Cobalt	NE	5 U	5 U	5 U	5 U	5 U
Copper	1300	**16 J, QR-2**	10 U	**32 J, QR-2**	10 U	10 U
Iron	NE	**120**	100 U	**1000**	**480**	100 U
Lead	15	1 U	1 U	**7.2**	1 U	1 U
Magnesium	NE	**7800**	**7800**	**8000**	**8700**	**8200**
Manganese	NE	**7.6**	5 U	**580**	**610**	**29**
Mercury	2	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Molybdenum	NE	5 U	5 U	5 U	5 U	5 U
Nickel	NE	10 U	10 U	10 U	10 U	10 U
Potassium	NE	**2900**	**3100**	**3200**	**3400**	**2100**
Selenium	50	2 U	2 U	2 U	2 U	2 U
Silver	NE	5 U	5 U	5 U	5 U	5 U
Sodium	NE	**230000**	**240000**	**15000**	**16000**	**11000**
Strontium	NE	**340**	**330**	**400**	**430**	**360**
Thallium	2	1 U	1 U	1 U	1 U	1 U
Tin	NE	15 U	15 U	15 U	15 U	15 U
Titanium	NE	5 U, J, QR-1	5 U, J, QR-1	5 U, J, QR-1	5 U, J, QR-1	5 U, J, QR-1
Vanadium	NE	5 U	5 U	5 U	5 U	5 U
Yttrium	NE	3 U	3 U	3 U	3 U	3 U
Zinc	NE	**15**	10 U	**48**	**45**	10 U

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EPA SESD POTABLE WATER SAMPLING RESULTS

SAMPLING OF RAW INTAKE WATER, TREATED WATER, AND PRIVATE WELL WATER

Samples collected 12/30/08

Sample Designation:	**Maximum Contaminant Levels (MCL) (µg/L)**	**937D**	**993**	**993D**	**KWT1A**	**KWT1AD**
Sample Collection Date:		**12/30/2008**	**12/30/2008**	**12/30/2008**	**12/30/2008**	**12/30/2008**
Sample Location:		**937 Swan Pond Rd.**	**993 Swan Pond Rd.**	**993 Swan Pond Rd.**	**Kingston Intake**	**Kingston Intake**
Analysis:		**Dissolved Metals**	**Total Metals**	**Dissolved Metals**	**Total Metals**	**Dissolved Metals**
Units:		**(µg/L)**	**(µg/L)**	**(µg/L)**	**(µg/L)**	**(µg/L)**
Sample Type:		**Well Water**	**Public Water**	**Public Water**	**Raw Water**	**Raw Water**
Aluminum	NE	100 U, J, QR-1	100 U, J, QR-1	100 U, J, QR-1	**210 J, QR-1**	100 U, J, QR-1
Antimony	6	1 U	1 U	1 U	1 U	1 U
Arsenic	10	1 U	1 U	1 U	1 U	1 U
Barium	2000	**120**	**26**	**26**	**19 J, QR-1**	**18 J, QR-1**
Beryllium	4	3 U	3 U	3 U	3 U	3 U
Cadmium	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Calcium	NE	**56000**	**23000**	**23000**	**18000**	**18000**
Chromium	100	5 U	5 U	5 U	5 U	5 U
Cobalt	NE	5 U	5 U	5 U	5 U	5 U
Copper	1300	10 U	**46 J, QR-2**	**41 J, QR-2**	**11 J, QR-2**	10 U
Iron	NE	100 U	100 U	100 U	**260**	100 U
Lead	15	1 U	**2.4**	**1.3**	1 U	1 U
Magnesium	NE	**7900**	**6900**	**7100**	**4400**	**4200**
Manganese	NE	**23**	5 U	5 U	**38**	**5.9**
Mercury	2	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Molybdenum	NE	5 U	5 U	5 U	5 U	5 U
Nickel	NE	10 U	10 U	10 U	10 U	10 U
Potassium	NE	**2100**	**2300**	**2200**	**2300**	**2300**
Selenium	50	2 U	2 U	2 U	2 U	2 U
Silver	NE	5 U	5 U	5 U	5 U	5 U
Sodium	NE	**12000**	**9200**	**9100**	**10000**	**10000**
Strontium	NE	**360**	**67**	**66**	**67**	**66**
Thallium	2	1 U	1 U	1 U	1 U	1 U
Tin	NE	15 U	15 U	15 U	15 U	15 U
Titanium	NE	5 U, J, QR-1	5 U, J, QR-1	5 U, J, QR-1	5 U, J, QR-1	5 U, J, QR-1
Vanadium	NE	5 U	5 U	5 U	5 U	5 U
Yttrium	NE	3 U	3 U	3 U	3 U	3 U
Zinc	NE	10 U	**42**	**39**	**31**	**25**

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EPA SESD POTABLE WATER SAMPLING RESULTS

SAMPLING OF RAW INTAKE WATER, TREATED WATER, AND PRIVATE WELL WATER

Samples collected 12/30/08

Sample Designation:	**Maximum Contaminant Levels (MCL) (µg/L)**	**KWT2A**	**KWT2AD**	**KWT3A**	**KWT3AD**	**KWT4A**
Sample Collection Date:		**12/30/2008**	**12/30/2008**	**12/30/2008**	**12/30/2008**	**12/30/2008**
Sample Location:		**Kingston Treated**	**Kingston Treated**	**Rockwood Intake**	**Rockwood Intake**	**Rockwood Treated**
Analysis:		**Total Metals**	**Dissolved Metals**	**Total Metals**	**Dissolved Metals**	**Total Metals**
Units:		**(µg/L)**	**(µg/L)**	**(µg/L)**	**(µg/L)**	**(µg/L)**
Sample Type:		**Treated Water**	**Treated Water**	**Raw Water**	**Raw Water**	**Treated Water**
Aluminum	NE	100 U, J, QR-1	100 U, J, QR-1	100 U	100 U	100 U
Antimony	6	1 U	1 U	1 U	1 U	1 U
Arsenic	10	1 U	1 U	1 U	1 U	1 U
Barium	2000	**17 J, QR-1**	**17 J, QR-1**	**27**	**23**	**27**
Beryllium	4	3 U	3 U	3 U	3 U	3 U
Cadmium	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Calcium	NE	**17000**	**17000**	**21000**	**22000**	**23000**
Chromium	100	5 U	5 U	5 U	5 U	5 U
Cobalt	NE	5 U	5 U	5 U	5 U	5 U
Copper	1300	**11 J, QR-2**	**12 J, QR-2**	10 U	10 U	10 U
Iron	NE	100 U	100 U	100 U	100 U	100 U
Lead	15	1 U	1 U	1 U	1 U	1 U
Magnesium	NE	**4100**	**4300**	**6700**	**7000**	**7300**
Manganese	NE	5 U	5 U	**8.4**	5 U	5 U
Mercury	2	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Molybdenum	NE	5 U	5 U	5 U	5 U	5 U
Nickel	NE	10 U	10 U	10 U	10 U	10 U
Potassium	NE	**2100**	**2200**	**1800**	**2000**	**1900**
Selenium	50	2 U	2 U	2 U	2 U	2 U
Silver	NE	5 U	5 U	5 U	5 U	5 U
Sodium	NE	**14000**	**14000**	**7600**	**7700**	**8700**
Strontium	NE	**63**	**65**	**64**	**66**	**67**
Thallium	2	1 U	1 U	1 U	1 U	1 U
Tin	NE	15 U	15 U	15 U	15 U	15 U
Titanium	NE	5 U, J, QR-1	5 U, J, QR-1	5 U	5 U	5 U
Vanadium	NE	5 U	5 U	5 U	5 U	5 U
Yttrium	NE	3 U	3 U	3 U	3 U	3 U
Zinc	NE	10 U	10 U	**26**	**25**	**23**

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EPA SESD POTABLE WATER SAMPLING RESULTS

SAMPLING OF RAW INTAKE WATER, TREATED WATER, AND PRIVATE WELL WATER

Samples collected 12/30/08

Sample Designation:	Maximum Contaminant Levels (MCL) (µg/L)	KWT4AD	KWT4AX	KWT4ADX	KWT5A	KWT5AD
Sample Collection Date:		12/30/2008	12/30/2008	12/30/2008	12/30/2008	12/30/2008
Sample Location:		Rockwood Treated	Rockwood Treated	Rockwood Treated	Cumberland Intake	Cumberland Intake
Analysis:		Dissolved Metals	Total Metals	Dissolved Metals	Total Metals	Dissolved Metals
Units:		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Sample Type:		Treated Water	Treated Water	Treated Water	Raw Water	Raw Water
Aluminum	NE	100 U	100 U	100 U	**360**	100 U
Antimony	6	1 U	1 U	1 U	1 U	1 U
Arsenic	10	1 U	1 U	1 U	1 U	1 U
Barium	2000	**25**	**25**	**26**	**22**	**20**
Beryllium	4	3 U	3 U	3 U	3 U	3 U
Cadmium	5	0.5 U	0.5 U	0.5 U	0.5 U	0.5 U
Calcium	NE	**22000**	**22000**	**22000**	**10000**	**10000**
Chromium	100	5 U	5 U	5 U	5 U	5 U
Cobalt	NE	5 U	5 U	5 U	5 U	5 U
Copper	1300	10 U	10 U	10 U	**25**	**22**
Iron	NE	100 U	100 U	100 U	**410**	100 U
Lead	15	1 U	1 U	1 U	1 U	1 U
Magnesium	NE	**7200**	**7300**	**7100**	**4200**	**4200**
Manganese	NE	5 U	5 U	5 U	**45**	**43**
Mercury	2	0.1 U	0.1 U	0.1 U	0.1 U	0.1 U
Molybdenum	NE	5 U	5 U	5 U	5 U	5 U
Nickel	NE	10 U	10 U	10 U	10 U	10 U
Potassium	NE	**2100**	**1800**	**1800**	**1300**	**1300**
Selenium	50	2 U	2 U	2 U	2 U	2 U
Silver	NE	5 U	5 U	5 U	5 U	5 U
Sodium	NE	**8500**	**8400**	**8400**	**2700**	**2800**
Strontium	NE	**65**	**65**	**63**	**29**	**29**
Thallium	2	1 U	1 U	1 U	1 U	1 U
Tin	NE	15 U	15 U	15 U	15 U	15 U
Titanium	NE	5 U	5 U	5 U	**9.4**	5 U
Vanadium	NE	5 U	5 U	5 U	5 U	5 U
Yttrium	NE	3 U	3 U	3 U	3 U	3 U
Zinc	NE	**23**	**23**	**24**	10 U	10 U

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EPA SESD POTABLE WATER SAMPLING RESULTS

SAMPLING OF RAW INTAKE WATER, TREATED WATER, AND PRIVATE WELL WATER

Samples collected 12/30/08

Sample Designation:	**Maximum Contaminant Levels (MCL) (µg/L)**	**KWT6A**	**KWT6AD**	**PRES BLK**
Sample Collection Date:		**30-Dec-2008**	**30-Dec-2008**	**30-Dec-2008**
Sample Location:		**Cumberland Treated**	**Cumberland Treated**	**NA**
Analysis:		**Total Metals**	**Dissolved Metals**	**Total Metals**
Units:		**(µg/L)**	**(µg/L)**	**(µg/L)**
Sample Type:		**Treated Water**	**Treated Water**	**Preservative Blank**
Aluminum	NE	100 U	100 U	100 U, J, QR-1
Antimony	6	1 U	1 U	1 U
Arsenic	10	1 U	1 U	1 U
Barium	2000	**22**	**21**	5 U, J, QR-1
Beryllium	4	3 U	3 U	3 U
Cadmium	5	0.5 U	0.5 U	0.5 U
Calcium	NE	**11000**	**10000**	250 U
Chromium	100	5 U	5 U	5 U
Cobalt	NE	5 U	5 U	5 U
Copper	1300	10 U	10 U	10 U
Iron	NE	100 U	100 U	100 U
Lead	15	1 U	1 U	1 U
Magnesium	NE	**4300**	**4200**	250 U
Manganese	NE	**36**	**36**	5 U
Mercury	2	0.1 U	0.1 U	0.1 U
Molybdenum	NE	5 U	5 U	5 U
Nickel	NE	10 U	10 U	10 U
Potassium	NE	**1400**	**1300**	1000 U
Selenium	50	2 U	2 U	2 U
Silver	NE	5 U	5 U	5 U
Sodium	NE	**6200**	**6000**	1000 U
Strontium	NE	**29**	**28**	5 U
Thallium	2	1 U	1 U	1 U
Tin	NE	15 U	15 U	15 U
Titanium	NE	5 U	5 U	5 U, J, QR-1
Vanadium	NE	5 U	5 U	5 U
Yttrium	NE	3 U	3 U	3 U
Zinc	NE	**13**	**14**	10 U

Notes:

Positive results are listed in **BOLD**.

NE = Not established

µg/kg = Micrograms per kilogram

QR-1 = MRL verification recovery less than lower control limits.

QR-2 = MRL verification recovery greater than upper control limits.

U = The analyte was analyzed for, but was not detected at or above the associated value.

J = The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.