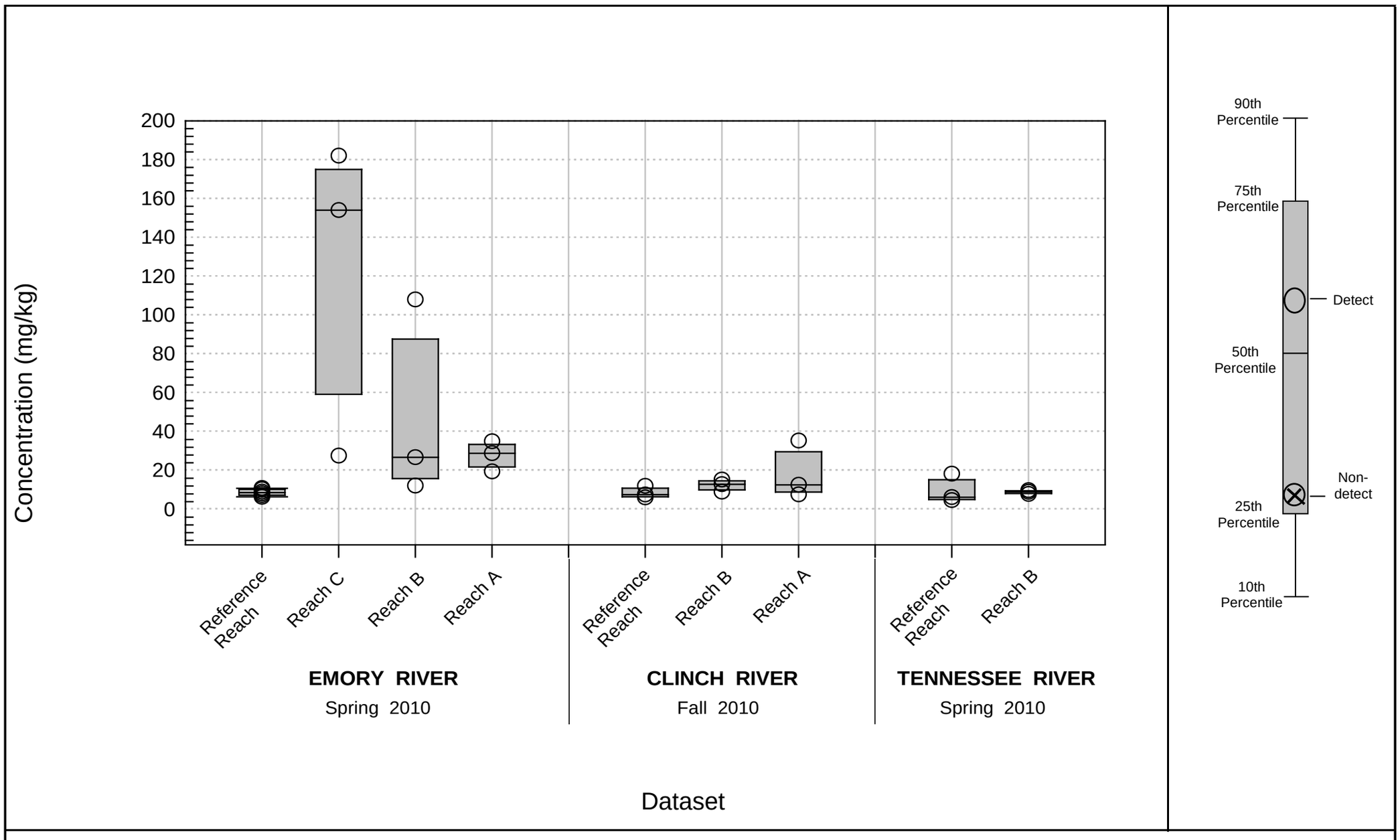


ARCADIS

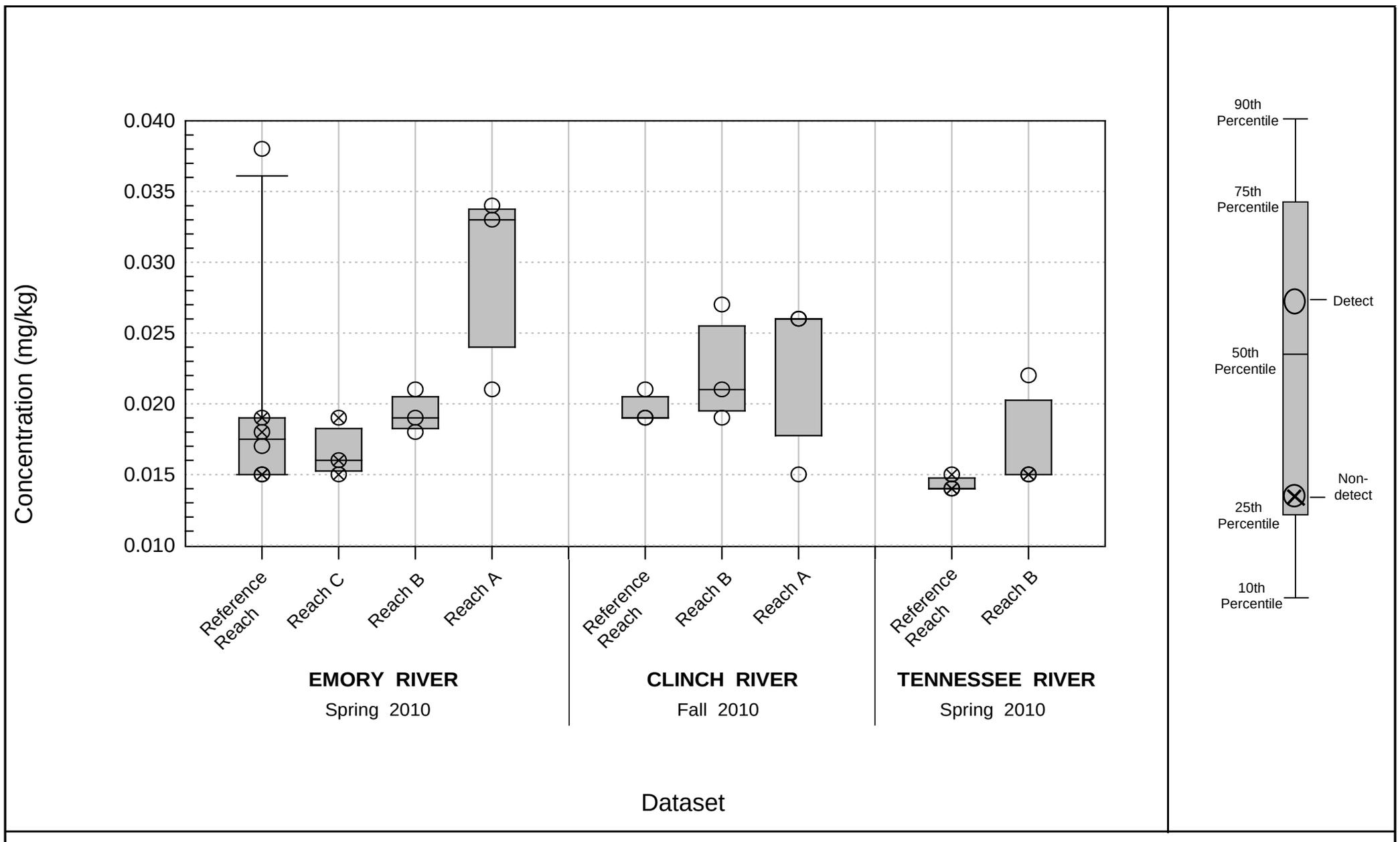
Snail Whole Body Tissue Without Gut or Gut Contents
Aluminum
TVA Kingston

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-R - Spring 2010	mg/kg	0	6	6	NA	NA	6.4	10.9	8.7	8.6	1.7	7.3	8.6	10.3
ER-C - Spring 2010	mg/kg	0	3	3	NA	NA	27.6	182	121	154	82.3	59.2	154	175
ER-B - Spring 2010	mg/kg	0	3	3	NA	NA	12.2	108	49.0	26.8	51.6	15.9	26.8	87.7
ER-A - Spring 2010	mg/kg	0	3	3	NA	NA	19.5	35.0	27.8	28.9	7.8	21.9	28.9	33.5
CR-R - Fall 2010	mg/kg	0	3	3	NA	NA	6.1	12.0	8.6	7.6	3.1	6.5	7.6	10.9
CR-B - Fall 2010	mg/kg	0	3	3	NA	NA	9.1	15.3	12.4	12.9	3.1	10.1	12.9	14.7
CR-A - Fall 2010	mg/kg	0	3	3	NA	NA	7.7	35.4	18.6	12.6	14.8	8.9	12.6	29.7
TR-R - Spring 2010	mg/kg	0	3	3	NA	NA	4.7	18.3	9.8	6.3	7.4	5.1	6.3	15.3
TR-B - Spring 2010	mg/kg	0	3	3	NA	NA	7.9	9.8	8.9	9.0	0.95	8.2	9.0	9.6

Notes:

-- = no data
A = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
mg/kg = milligram(s) per kilogram
NA = value not applicable due to frequency of detection
ND = nondetect
R = Reference Reach
TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.
Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.
Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

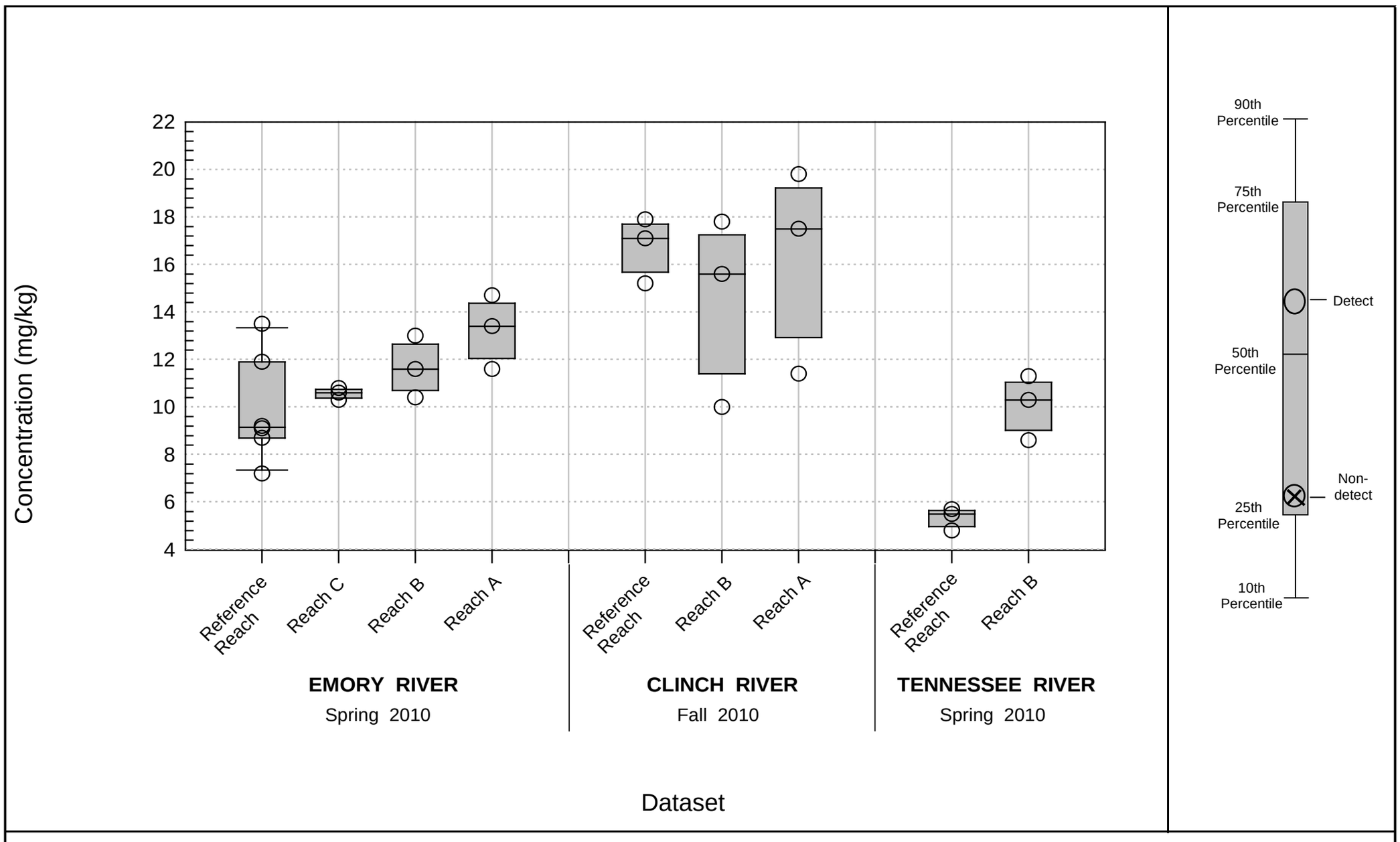
Snail Whole Body Tissue Without Gut or Gut Contents
Antimony
TVA Kingston

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-R - Spring 2010	mg/kg	4	2	6	0.015	0.019	0.017	0.038	0.028	0.027	0.015	0.015	0.018	0.019
ER-C - Spring 2010	mg/kg	3	0	3	0.015	0.019	ND	ND	ND	ND	ND	0.015	0.016	0.018
ER-B - Spring 2010	mg/kg	0	3	3	NA	NA	0.018	0.021	0.019	0.019	0.0015	0.018	0.019	0.021
ER-A - Spring 2010	mg/kg	0	3	3	NA	NA	0.021	0.034	0.029	0.033	0.0072	0.024	0.033	0.034
CR-R - Fall 2010	mg/kg	0	3	3	NA	NA	0.019	0.021	0.020	0.019	0.0012	0.019	0.019	0.021
CR-B - Fall 2010	mg/kg	0	3	3	NA	NA	0.019	0.027	0.022	0.021	0.0042	0.020	0.021	0.025
CR-A - Fall 2010	mg/kg	0	3	3	NA	NA	0.015	0.026	0.022	0.026	0.0064	0.018	0.026	0.026
TR-R - Spring 2010	mg/kg	3	0	3	0.014	0.015	ND	ND	ND	ND	ND	0.014	0.014	0.015
TR-B - Spring 2010	mg/kg	2	1	3	0.015	0.015	0.022	0.022	0.022	0.022	NA	0.015	0.015	0.020

Notes:

-- = no data
A = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
mg/kg = milligram(s) per kilogram
NA = value not applicable due to frequency of detection
ND = nondetect
R = Reference Reach
TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.
Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.
Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

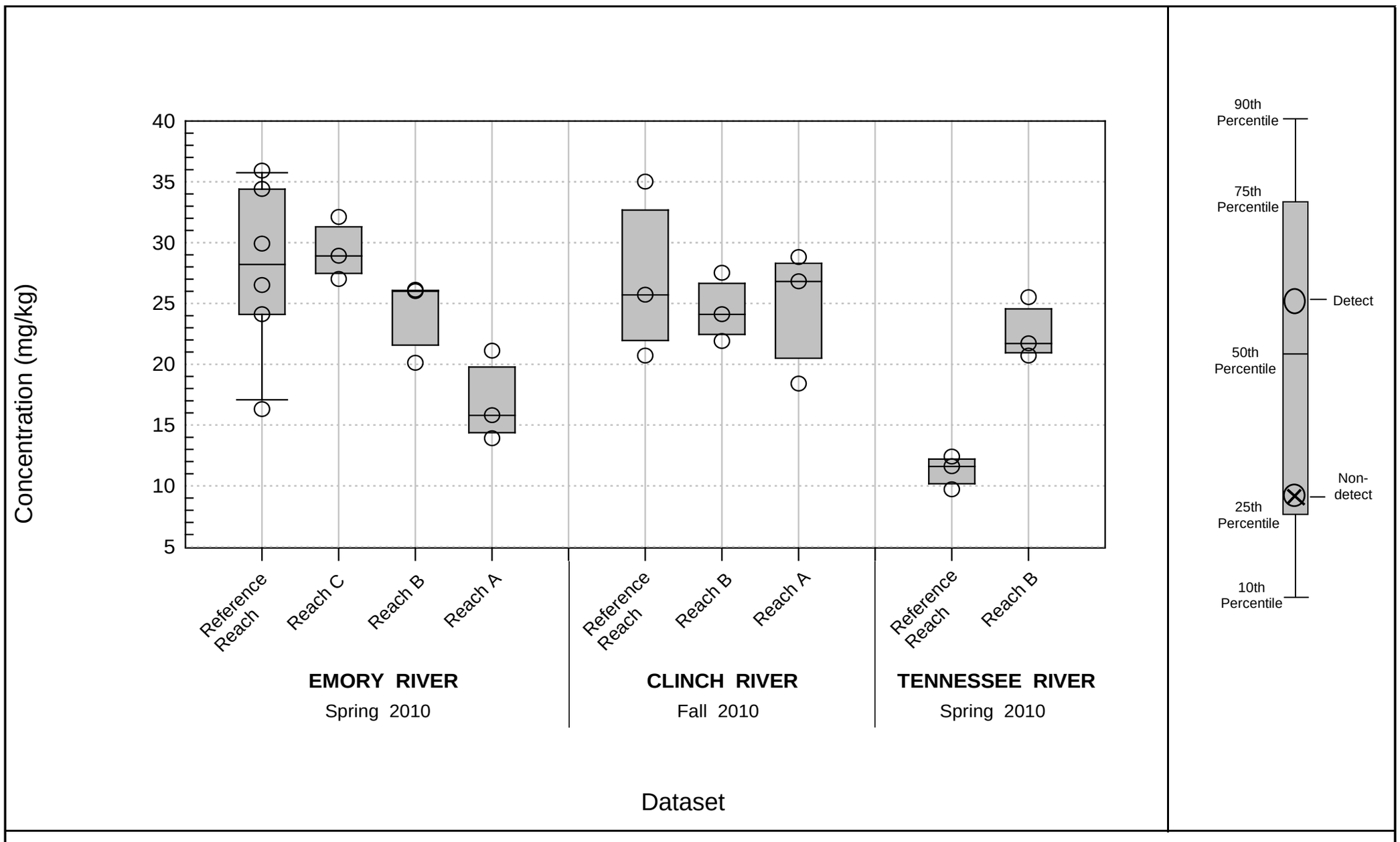
Snail Whole Body Tissue Without Gut or Gut Contents
Arsenic
TVA Kingston

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-R - Spring 2010	mg/kg	0	6	6	NA	NA	7.2	13.5	9.9	9.1	2.3	8.7	9.1	11.9
ER-C - Spring 2010	mg/kg	0	3	3	NA	NA	10.3	10.8	10.6	10.6	0.25	10.4	10.6	10.8
ER-B - Spring 2010	mg/kg	0	3	3	NA	NA	10.4	13.0	11.7	11.6	1.3	10.7	11.6	12.6
ER-A - Spring 2010	mg/kg	0	3	3	NA	NA	11.6	14.7	13.2	13.4	1.6	12.1	13.4	14.4
CR-R - Fall 2010	mg/kg	0	3	3	NA	NA	15.2	17.9	16.7	17.1	1.4	15.7	17.1	17.7
CR-B - Fall 2010	mg/kg	0	3	3	NA	NA	10.0	17.8	14.5	15.6	4.0	11.4	15.6	17.3
CR-A - Fall 2010	mg/kg	0	3	3	NA	NA	11.4	19.8	16.2	17.5	4.3	12.9	17.5	19.2
TR-R - Spring 2010	mg/kg	0	3	3	NA	NA	4.8	5.7	5.3	5.5	0.47	5.0	5.5	5.7
TR-B - Spring 2010	mg/kg	0	3	3	NA	NA	8.6	11.3	10.1	10.3	1.4	9.0	10.3	11.1

Notes:

-- = no data
A = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
mg/kg = milligram(s) per kilogram
NA = value not applicable due to frequency of detection
ND = nondetect
R = Reference Reach
TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.
Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.
Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

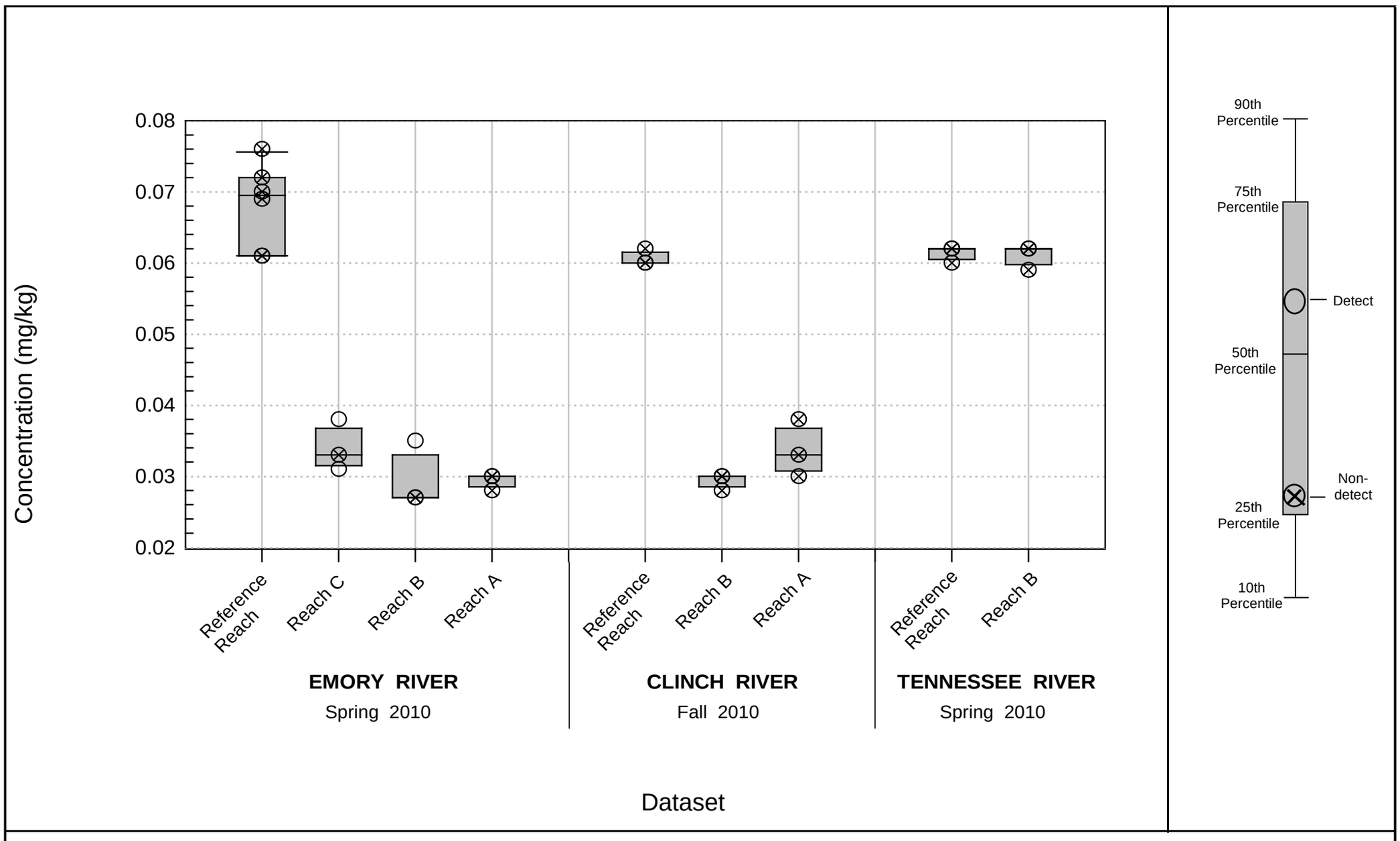
Snail Whole Body Tissue Without Gut or Gut Contents
Barium
TVA Kingston

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-R - Spring 2010	mg/kg	0	6	6	NA	NA	16.3	35.9	27.9	28.2	7.2	24.1	28.2	34.4
ER-C - Spring 2010	mg/kg	0	3	3	NA	NA	27.0	32.1	29.3	28.9	2.6	27.5	28.9	31.3
ER-B - Spring 2010	mg/kg	0	3	3	NA	NA	20.1	26.1	24.1	26.0	3.4	21.6	26.0	26.1
ER-A - Spring 2010	mg/kg	0	3	3	NA	NA	13.9	21.1	16.9	15.8	3.7	14.4	15.8	19.8
CR-R - Fall 2010	mg/kg	0	3	3	NA	NA	20.7	35.0	27.1	25.7	7.3	22.0	25.7	32.7
CR-B - Fall 2010	mg/kg	0	3	3	NA	NA	21.9	27.5	24.5	24.1	2.8	22.5	24.1	26.6
CR-A - Fall 2010	mg/kg	0	3	3	NA	NA	18.4	28.8	24.7	26.8	5.5	20.5	26.8	28.3
TR-R - Spring 2010	mg/kg	0	3	3	NA	NA	9.7	12.4	11.2	11.6	1.4	10.2	11.6	12.2
TR-B - Spring 2010	mg/kg	0	3	3	NA	NA	20.7	25.5	22.6	21.7	2.5	21.0	21.7	24.5

Notes:

-- = no data
A = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
mg/kg = milligram(s) per kilogram
NA = value not applicable due to frequency of detection
ND = nondetect
R = Reference Reach
TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.
Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.
Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

Snail Whole Body Tissue Without Gut or Gut Contents
Beryllium

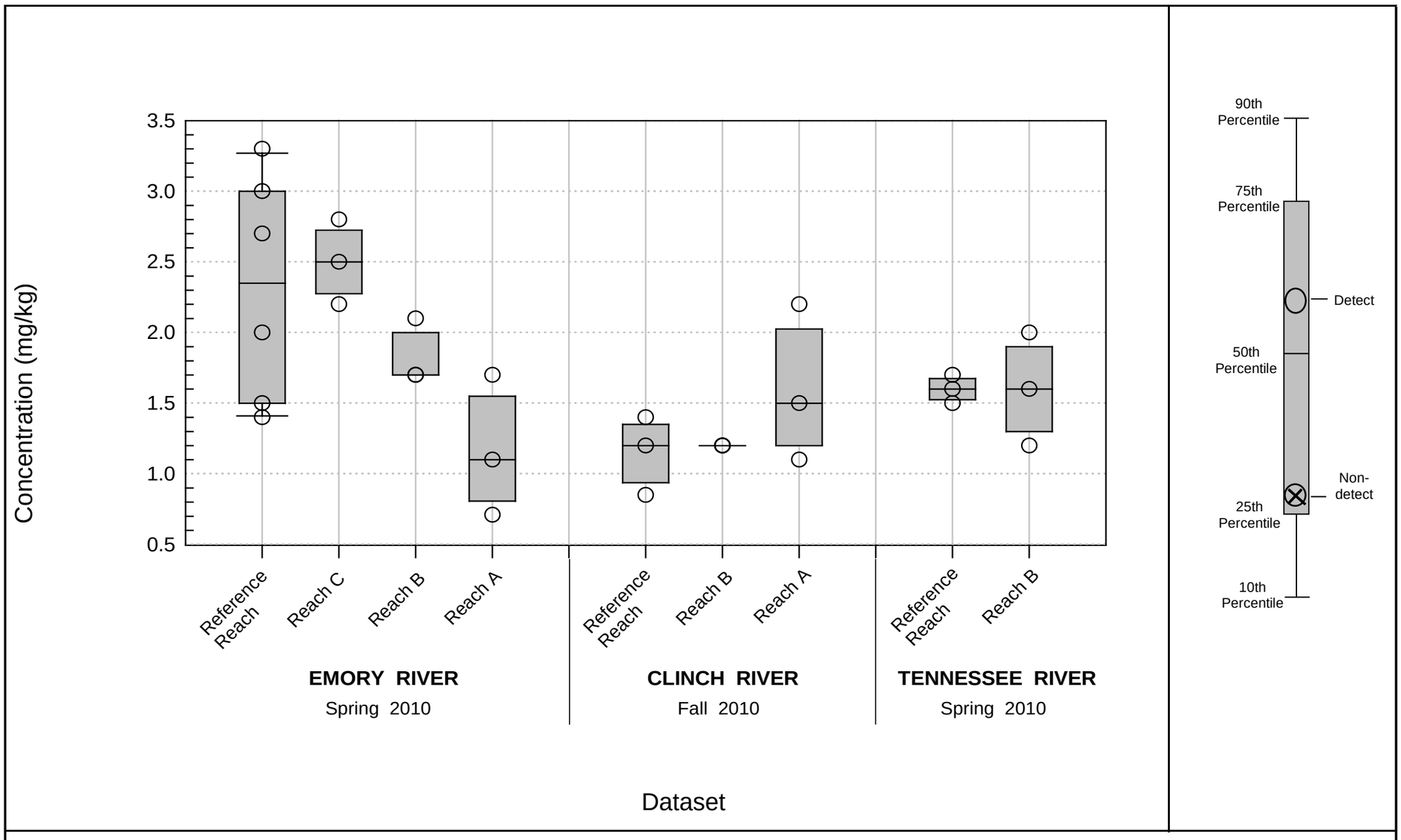
TVA Kingston

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-R - Spring 2010	mg/kg	6	0	6	0.061	0.076	ND	ND	ND	ND	ND	0.061	0.069	0.072
ER-C - Spring 2010	mg/kg	1	2	3	0.033	0.033	0.031	0.038	0.035	0.034	0.0049	0.032	0.033	0.037
ER-B - Spring 2010	mg/kg	2	1	3	0.027	0.027	0.035	0.035	0.035	0.035	NA	0.027	0.027	0.033
ER-A - Spring 2010	mg/kg	3	0	3	0.028	0.030	ND	ND	ND	ND	ND	0.029	0.030	0.030
CR-R - Fall 2010	mg/kg	3	0	3	0.060	0.062	ND	ND	ND	ND	ND	0.060	0.060	0.062
CR-B - Fall 2010	mg/kg	3	0	3	0.028	0.030	ND	ND	ND	ND	ND	0.029	0.030	0.030
CR-A - Fall 2010	mg/kg	3	0	3	0.030	0.038	ND	ND	ND	ND	ND	0.031	0.033	0.037
TR-R - Spring 2010	mg/kg	3	0	3	0.060	0.062	ND	ND	ND	ND	ND	0.060	0.062	0.062
TR-B - Spring 2010	mg/kg	3	0	3	0.059	0.062	ND	ND	ND	ND	ND	0.060	0.062	0.062

Notes:

-- = no data
A = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
mg/kg = milligram(s) per kilogram
NA = value not applicable due to frequency of detection
ND = nondetect
R = Reference Reach
TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.
Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.
Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

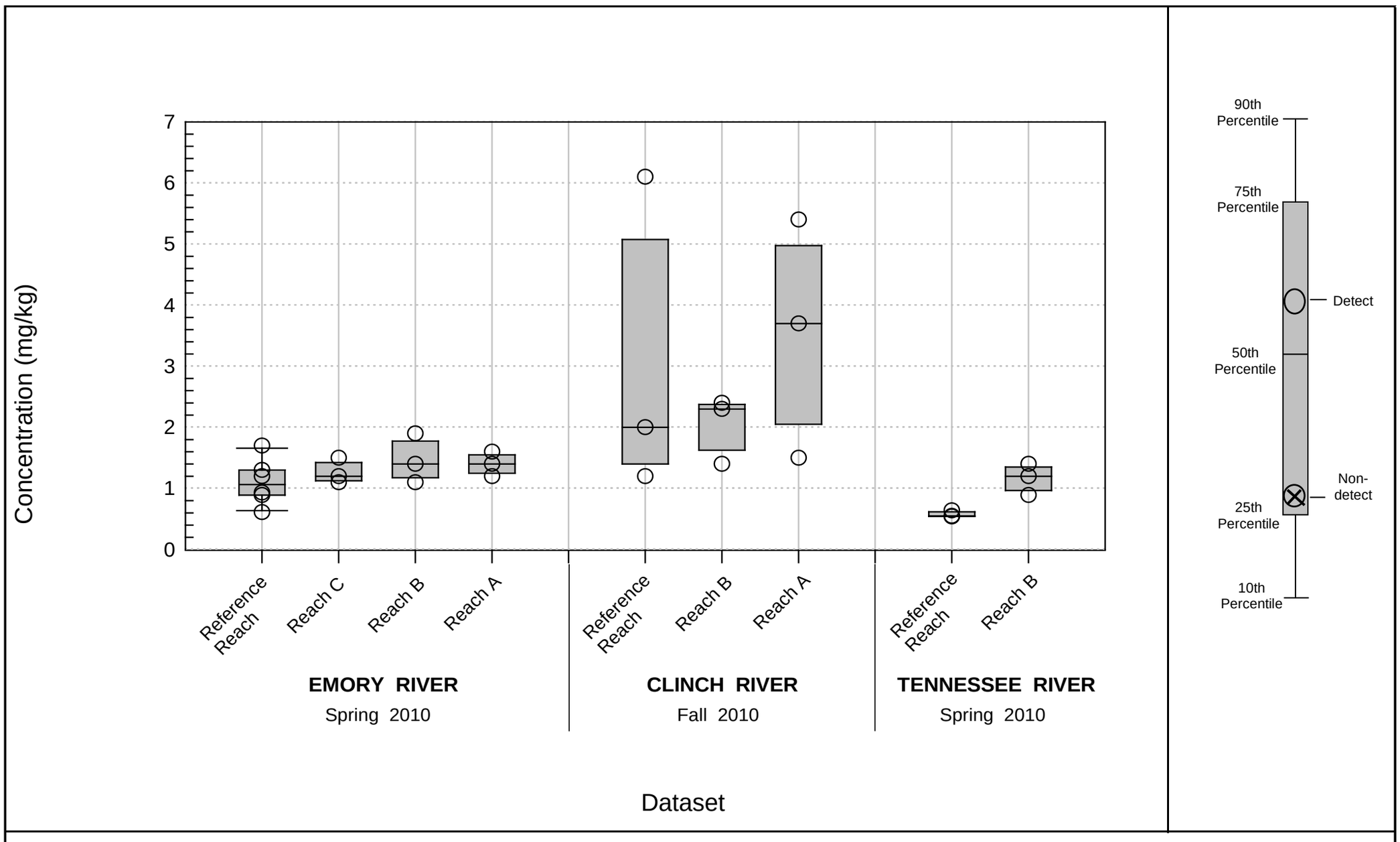
Snail Whole Body Tissue Without Gut or Gut Contents
Boron
TVA Kingston

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-R - Spring 2010	mg/kg	0	6	6	NA	NA	1.4	3.3	2.3	2.3	0.80	1.5	2.3	3.0
ER-C - Spring 2010	mg/kg	0	3	3	NA	NA	2.2	2.8	2.5	2.5	0.30	2.3	2.5	2.7
ER-B - Spring 2010	mg/kg	0	3	3	NA	NA	1.7	2.1	1.8	1.7	0.23	1.7	1.7	2.0
ER-A - Spring 2010	mg/kg	0	3	3	NA	NA	0.71	1.7	1.2	1.1	0.50	0.81	1.1	1.5
CR-R - Fall 2010	mg/kg	0	3	3	NA	NA	0.85	1.4	1.2	1.2	0.28	0.94	1.2	1.4
CR-B - Fall 2010	mg/kg	0	3	3	NA	NA	1.2	1.2	1.2	1.2	0.0000	1.2	1.2	1.2
CR-A - Fall 2010	mg/kg	0	3	3	NA	NA	1.1	2.2	1.6	1.5	0.56	1.2	1.5	2.0
TR-R - Spring 2010	mg/kg	0	3	3	NA	NA	1.5	1.7	1.6	1.6	0.10	1.5	1.6	1.7
TR-B - Spring 2010	mg/kg	0	3	3	NA	NA	1.2	2.0	1.6	1.6	0.40	1.3	1.6	1.9

Notes:

-- = no data
A = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
mg/kg = milligram(s) per kilogram
NA = value not applicable due to frequency of detection
ND = nondetect
R = Reference Reach
TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.
Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.
Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

Snail Whole Body Tissue Without Gut or Gut Contents
Cadmium

TVA Kingston

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-R - Spring 2010	mg/kg	0	6	6	NA	NA	0.61	1.7	1.1	1.1	0.38	0.89	1.1	1.3
ER-C - Spring 2010	mg/kg	0	3	3	NA	NA	1.1	1.5	1.3	1.2	0.21	1.1	1.2	1.4
ER-B - Spring 2010	mg/kg	0	3	3	NA	NA	1.1	1.9	1.5	1.4	0.40	1.2	1.4	1.8
ER-A - Spring 2010	mg/kg	0	3	3	NA	NA	1.2	1.6	1.4	1.4	0.20	1.3	1.4	1.5
CR-R - Fall 2010	mg/kg	0	3	3	NA	NA	1.2	6.1	3.1	2.0	2.6	1.4	2.0	5.1
CR-B - Fall 2010	mg/kg	0	3	3	NA	NA	1.4	2.4	2.0	2.3	0.55	1.6	2.3	2.4
CR-A - Fall 2010	mg/kg	0	3	3	NA	NA	1.5	5.4	3.5	3.7	2.0	2.0	3.7	5.0
TR-R - Spring 2010	mg/kg	0	3	3	NA	NA	0.54	0.64	0.58	0.55	0.055	0.54	0.55	0.62
TR-B - Spring 2010	mg/kg	0	3	3	NA	NA	0.89	1.4	1.2	1.2	0.26	0.97	1.2	1.4

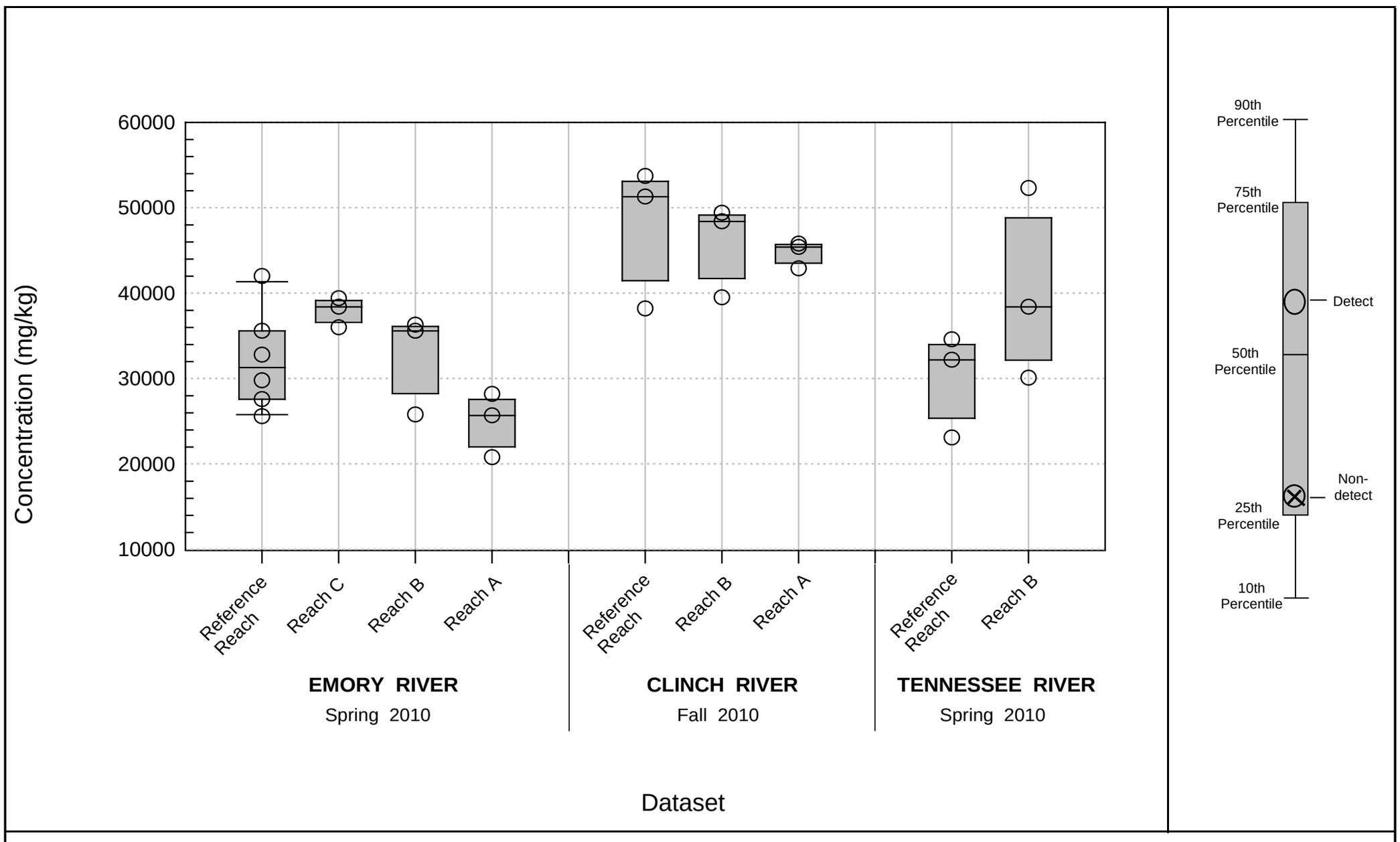
Notes:

-- = no data
A = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
mg/kg = milligram(s) per kilogram
NA = value not applicable due to frequency of detection
ND = nondetect
R = Reference Reach
TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.

Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.

Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

Snail Whole Body Tissue Without Gut or Gut Contents
Calcium

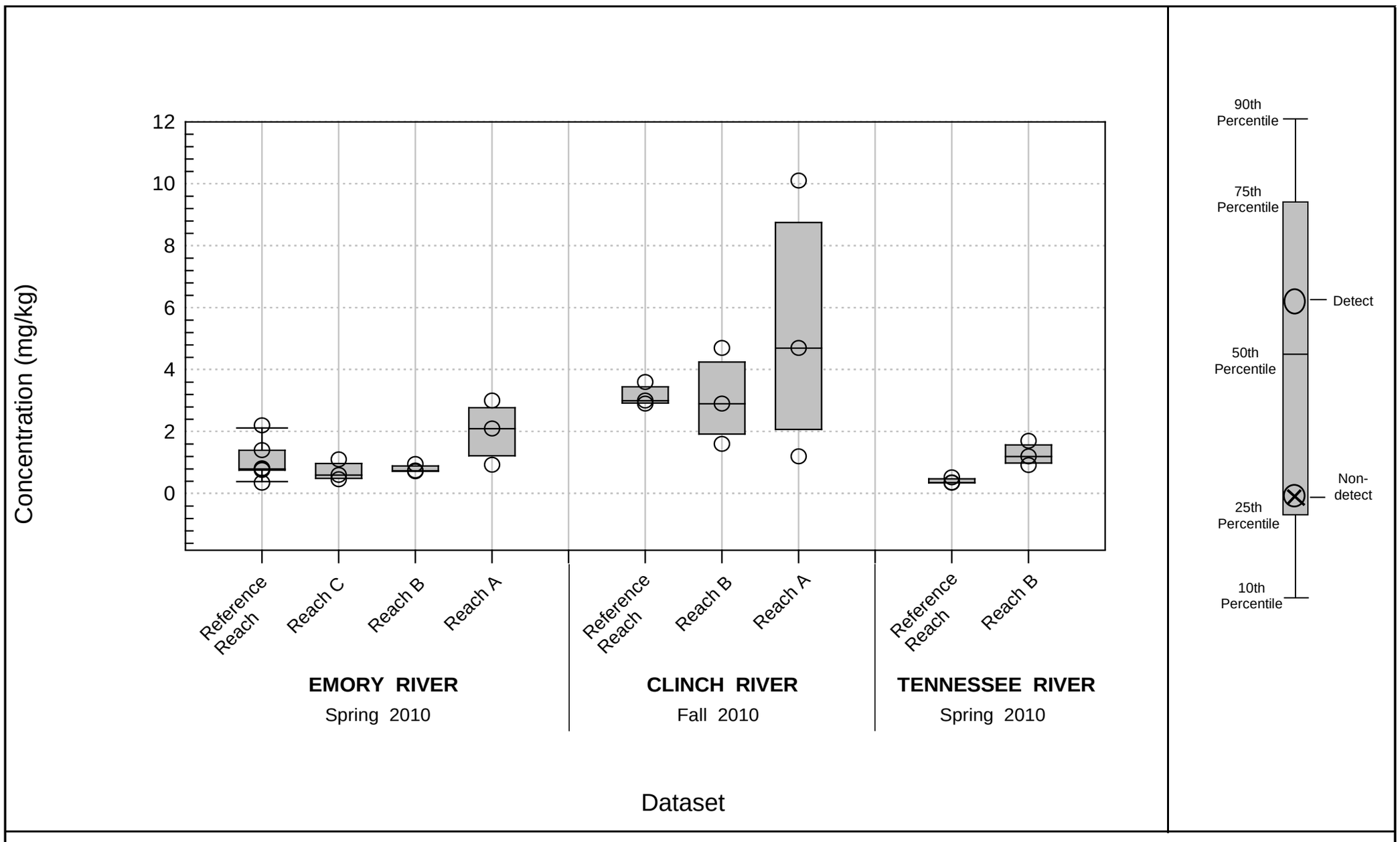
TVA Kingston

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-R - Spring 2010	mg/kg	0	6	6	NA	NA	25,600	42,000	32,200	31,300	5,970	27,600	31,300	35,600
ER-C - Spring 2010	mg/kg	0	3	3	NA	NA	36,000	39,400	37,900	38,400	1,750	36,600	38,400	39,200
ER-B - Spring 2010	mg/kg	0	3	3	NA	NA	25,800	36,300	32,600	35,600	5,870	28,300	35,600	36,100
ER-A - Spring 2010	mg/kg	0	3	3	NA	NA	20,800	28,200	24,900	25,700	3,760	22,000	25,700	27,600
CR-R - Fall 2010	mg/kg	0	3	3	NA	NA	38,200	53,700	47,700	51,300	8,340	41,500	51,300	53,100
CR-B - Fall 2010	mg/kg	0	3	3	NA	NA	39,500	49,400	45,800	48,400	5,450	41,700	48,400	49,200
CR-A - Fall 2010	mg/kg	0	3	3	NA	NA	42,900	45,800	44,700	45,400	1,570	43,500	45,400	45,700
TR-R - Spring 2010	mg/kg	0	3	3	NA	NA	23,100	34,600	30,000	32,200	6,070	25,400	32,200	34,000
TR-B - Spring 2010	mg/kg	0	3	3	NA	NA	30,100	52,300	40,300	38,400	11,200	32,200	38,400	48,800

Notes:

-- = no data
A = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
mg/kg = milligram(s) per kilogram
NA = value not applicable due to frequency of detection
ND = nondetect
R = Reference Reach
TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.
Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.
Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

Snail Whole Body Tissue Without Gut or Gut Contents
Chromium

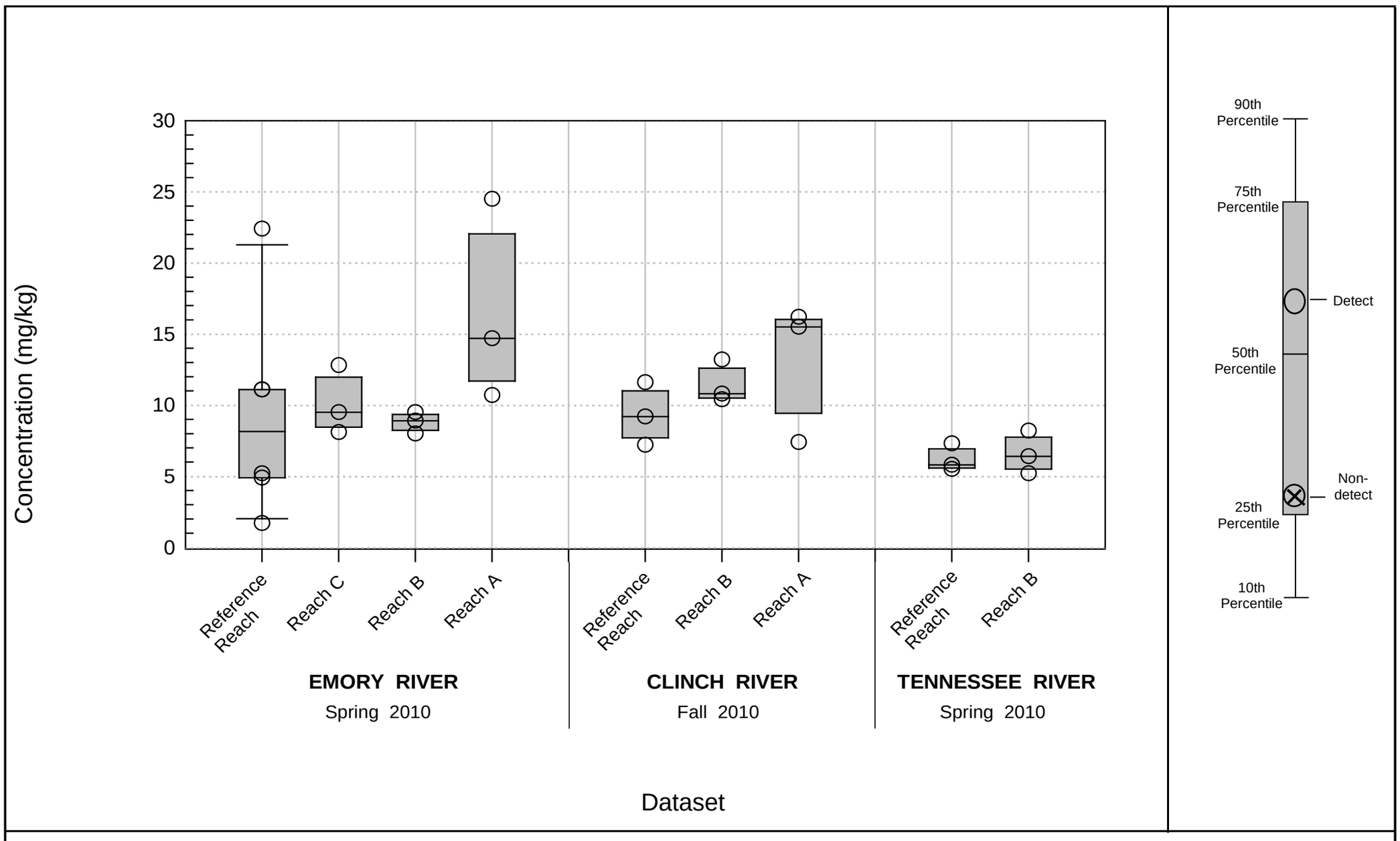
TVA Kingston

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-R - Spring 2010	mg/kg	0	6	6	NA	NA	0.35	2.2	1.1	0.80	0.65	0.76	0.80	1.4
ER-C - Spring 2010	mg/kg	0	3	3	NA	NA	0.46	1.1	0.72	0.60	0.34	0.50	0.60	0.98
ER-B - Spring 2010	mg/kg	0	3	3	NA	NA	0.72	0.95	0.80	0.74	0.13	0.73	0.74	0.90
ER-A - Spring 2010	mg/kg	0	3	3	NA	NA	0.93	3.0	2.0	2.1	1.0	1.2	2.1	2.8
CR-R - Fall 2010	mg/kg	0	3	3	NA	NA	2.9	3.6	3.2	3.0	0.38	2.9	3.0	3.5
CR-B - Fall 2010	mg/kg	0	3	3	NA	NA	1.6	4.7	3.1	2.9	1.6	1.9	2.9	4.3
CR-A - Fall 2010	mg/kg	0	3	3	NA	NA	1.2	10.1	5.3	4.7	4.5	2.1	4.7	8.8
TR-R - Spring 2010	mg/kg	0	3	3	NA	NA	0.35	0.52	0.41	0.36	0.095	0.35	0.36	0.48
TR-B - Spring 2010	mg/kg	0	3	3	NA	NA	0.92	1.7	1.3	1.2	0.40	0.99	1.2	1.6

Notes:

-- = no data
A = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
mg/kg = milligram(s) per kilogram
NA = value not applicable due to frequency of detection
ND = nondetect
R = Reference Reach
TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.
Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.
Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

Snail Whole Body Tissue Without Gut or Gut Contents
Cobalt

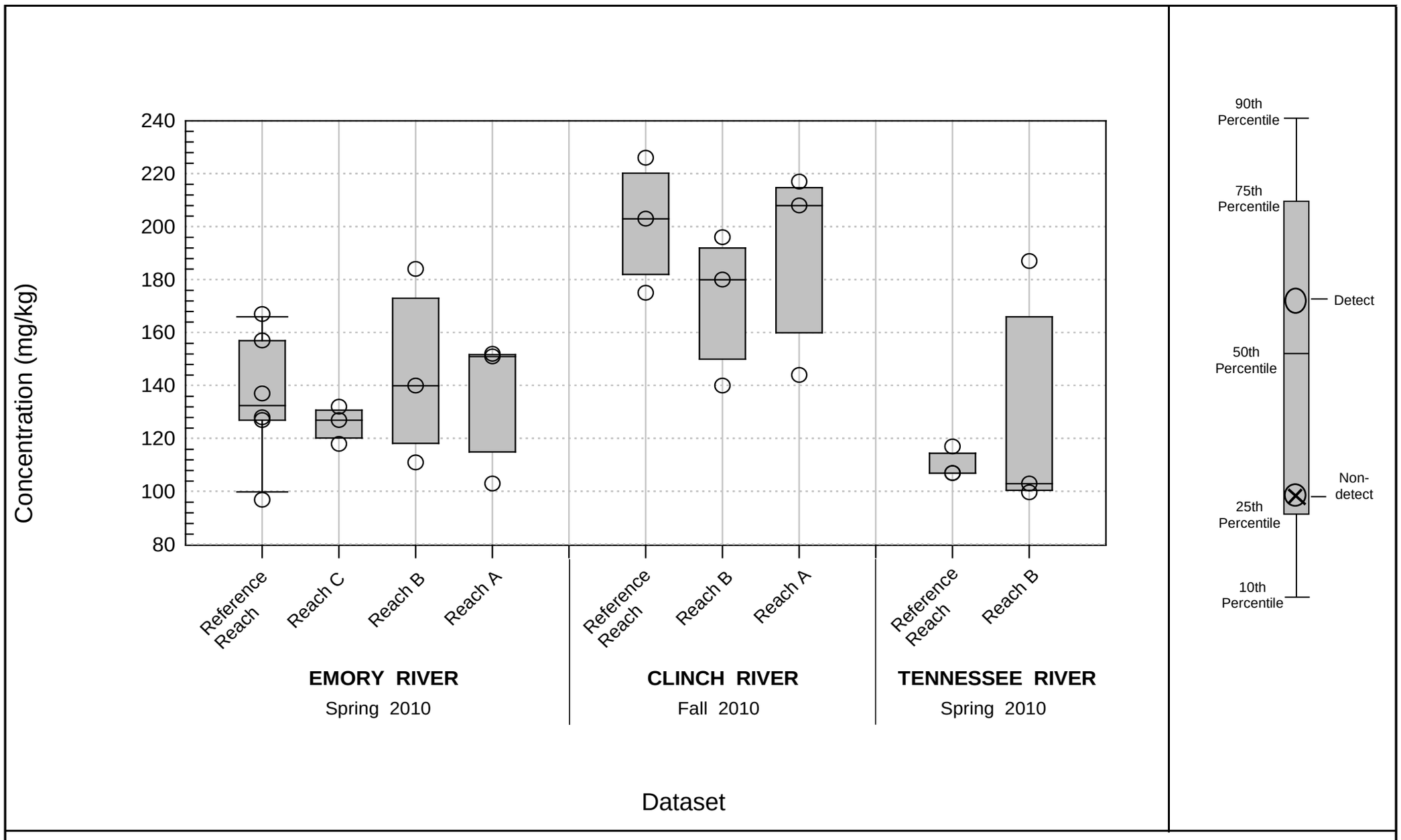
TVA Kingston

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-R - Spring 2010	mg/kg	0	6	6	NA	NA	1.7	22.4	9.4	8.1	7.4	4.9	8.1	11.1
ER-C - Spring 2010	mg/kg	0	3	3	NA	NA	8.1	12.8	10.1	9.5	2.4	8.4	9.5	12.0
ER-B - Spring 2010	mg/kg	0	3	3	NA	NA	8.0	9.5	8.8	8.9	0.75	8.2	8.9	9.4
ER-A - Spring 2010	mg/kg	0	3	3	NA	NA	10.7	24.5	16.6	14.7	7.1	11.7	14.7	22.0
CR-R - Fall 2010	mg/kg	0	3	3	NA	NA	7.2	11.6	9.3	9.2	2.2	7.7	9.2	11.0
CR-B - Fall 2010	mg/kg	0	3	3	NA	NA	10.4	13.2	11.5	10.8	1.5	10.5	10.8	12.6
CR-A - Fall 2010	mg/kg	0	3	3	NA	NA	7.4	16.2	13.0	15.5	4.9	9.4	15.5	16.0
TR-R - Spring 2010	mg/kg	0	3	3	NA	NA	5.5	7.3	6.2	5.8	0.96	5.6	5.8	6.9
TR-B - Spring 2010	mg/kg	0	3	3	NA	NA	5.2	8.2	6.6	6.4	1.5	5.5	6.4	7.8

Notes:

-- = no data
A = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
mg/kg = milligram(s) per kilogram
NA = value not applicable due to frequency of detection
ND = nondetect
R = Reference Reach
TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.
Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.
Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

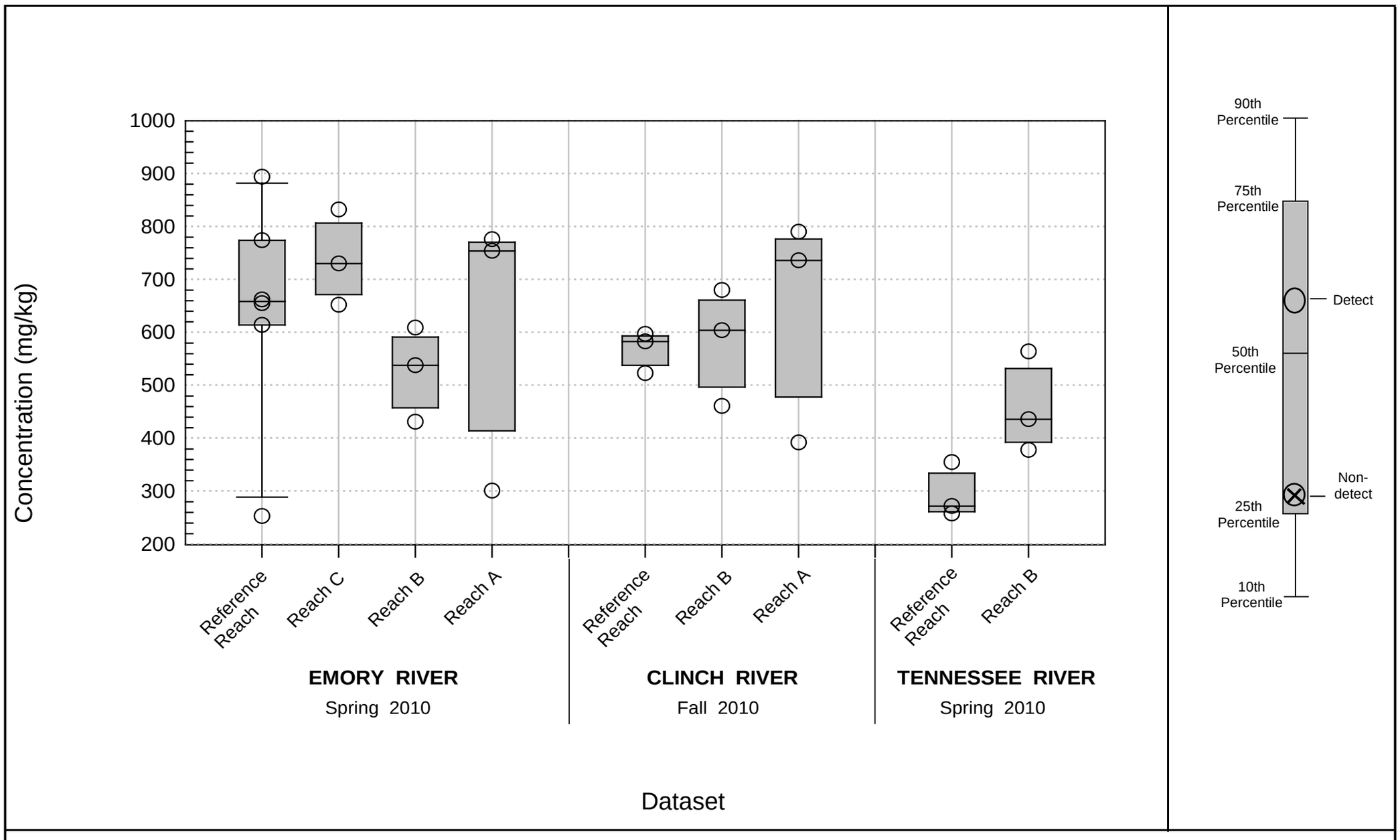
Snail Whole Body Tissue Without Gut or Gut Contents
Copper
TVA Kingston

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-R - Spring 2010	mg/kg	0	6	6	NA	NA	96.9	167	135	133	24.8	127	133	157
ER-C - Spring 2010	mg/kg	0	3	3	NA	NA	118	132	126	127	7.1	120	127	131
ER-B - Spring 2010	mg/kg	0	3	3	NA	NA	111	184	145	140	36.8	118	140	173
ER-A - Spring 2010	mg/kg	0	3	3	NA	NA	103	152	135	151	28.0	115	151	152
CR-R - Fall 2010	mg/kg	0	3	3	NA	NA	175	226	201	203	25.5	182	203	220
CR-B - Fall 2010	mg/kg	0	3	3	NA	NA	140	196	172	180	28.8	150	180	192
CR-A - Fall 2010	mg/kg	0	3	3	NA	NA	144	217	190	208	39.8	160	208	215
TR-R - Spring 2010	mg/kg	0	3	3	NA	NA	107	117	110	107	5.8	107	107	115
TR-B - Spring 2010	mg/kg	0	3	3	NA	NA	99.7	187	130	103	49.5	101	103	166

Notes:

-- = no data
A = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
mg/kg = milligram(s) per kilogram
NA = value not applicable due to frequency of detection
ND = nondetect
R = Reference Reach
TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.
Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.
Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

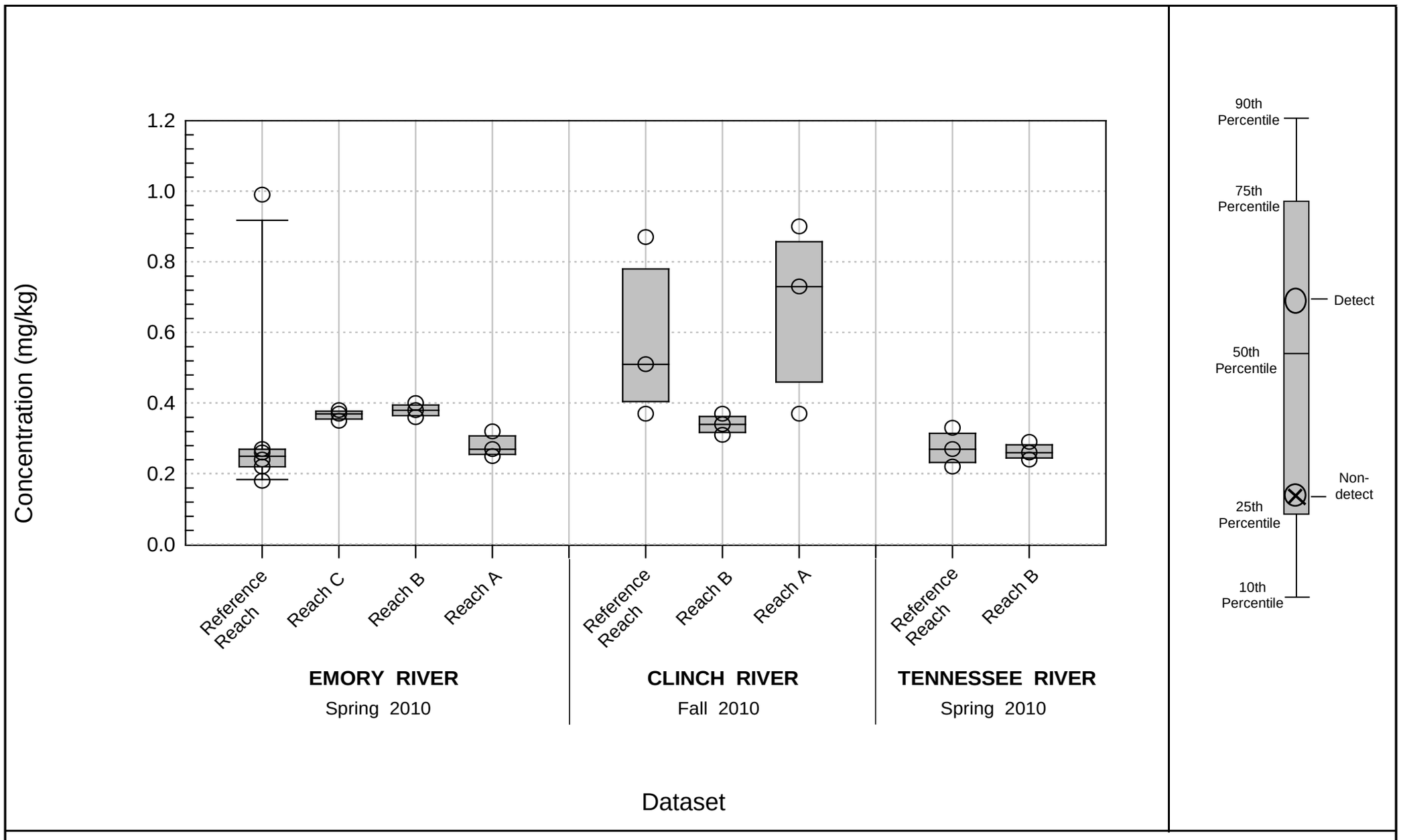
Snail Whole Body Tissue Without Gut or Gut Contents
Iron
TVA Kingston

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-R - Spring 2010	mg/kg	0	6	6	NA	NA	253	894	642	659	216	614	659	774
ER-C - Spring 2010	mg/kg	0	3	3	NA	NA	652	832	738	730	90.3	672	730	807
ER-B - Spring 2010	mg/kg	0	3	3	NA	NA	431	609	526	538	89.6	458	538	591
ER-A - Spring 2010	mg/kg	0	3	3	NA	NA	301	776	610	754	268	414	754	771
CR-R - Fall 2010	mg/kg	0	3	3	NA	NA	523	597	568	583	39.3	538	583	594
CR-B - Fall 2010	mg/kg	0	3	3	NA	NA	461	680	582	604	111	497	604	661
CR-A - Fall 2010	mg/kg	0	3	3	NA	NA	392	790	639	736	216	478	736	777
TR-R - Spring 2010	mg/kg	0	3	3	NA	NA	258	355	295	272	52.4	262	272	334
TR-B - Spring 2010	mg/kg	0	3	3	NA	NA	378	564	459	436	95.2	393	436	532

Notes:

-- = no data
A = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
mg/kg = milligram(s) per kilogram
NA = value not applicable due to frequency of detection
ND = nondetect
R = Reference Reach
TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.
Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.
Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

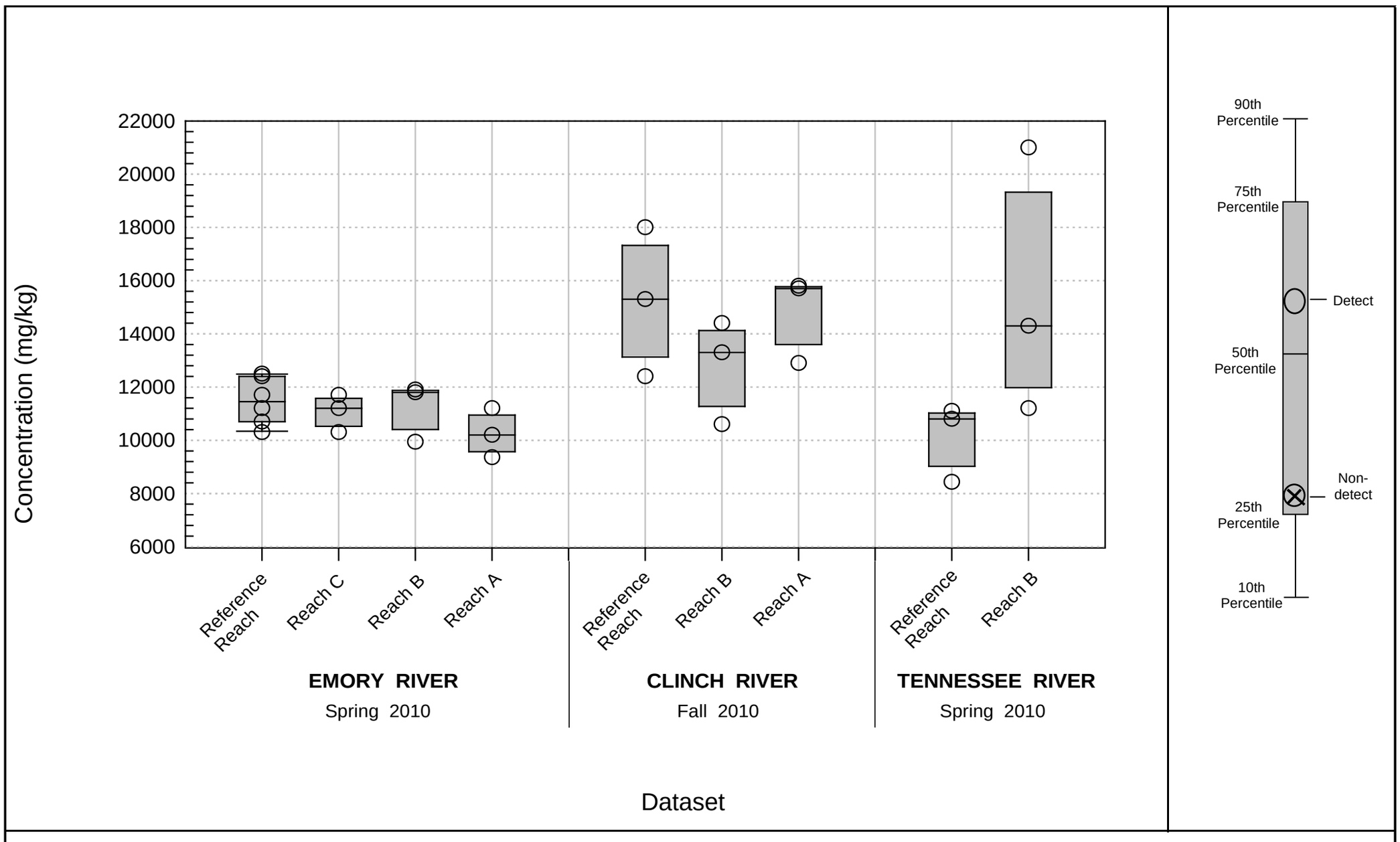
Snail Whole Body Tissue Without Gut or Gut Contents
Lead
TVA Kingston

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-R - Spring 2010	mg/kg	0	6	6	NA	NA	0.18	0.99	0.36	0.25	0.31	0.22	0.25	0.27
ER-C - Spring 2010	mg/kg	0	3	3	NA	NA	0.35	0.38	0.37	0.37	0.015	0.35	0.37	0.38
ER-B - Spring 2010	mg/kg	0	3	3	NA	NA	0.36	0.40	0.38	0.38	0.020	0.37	0.38	0.40
ER-A - Spring 2010	mg/kg	0	3	3	NA	NA	0.25	0.32	0.28	0.27	0.036	0.25	0.27	0.31
CR-R - Fall 2010	mg/kg	0	3	3	NA	NA	0.37	0.87	0.58	0.51	0.26	0.41	0.51	0.78
CR-B - Fall 2010	mg/kg	0	3	3	NA	NA	0.31	0.37	0.34	0.34	0.030	0.32	0.34	0.36
CR-A - Fall 2010	mg/kg	0	3	3	NA	NA	0.37	0.90	0.67	0.73	0.27	0.46	0.73	0.86
TR-R - Spring 2010	mg/kg	0	3	3	NA	NA	0.22	0.33	0.27	0.27	0.055	0.23	0.27	0.31
TR-B - Spring 2010	mg/kg	0	3	3	NA	NA	0.24	0.29	0.26	0.26	0.025	0.25	0.26	0.28

Notes:

-- = no data
A = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
mg/kg = milligram(s) per kilogram
NA = value not applicable due to frequency of detection
ND = nondetect
R = Reference Reach
TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.
Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.
Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

Snail Whole Body Tissue Without Gut or Gut Contents
Magnesium

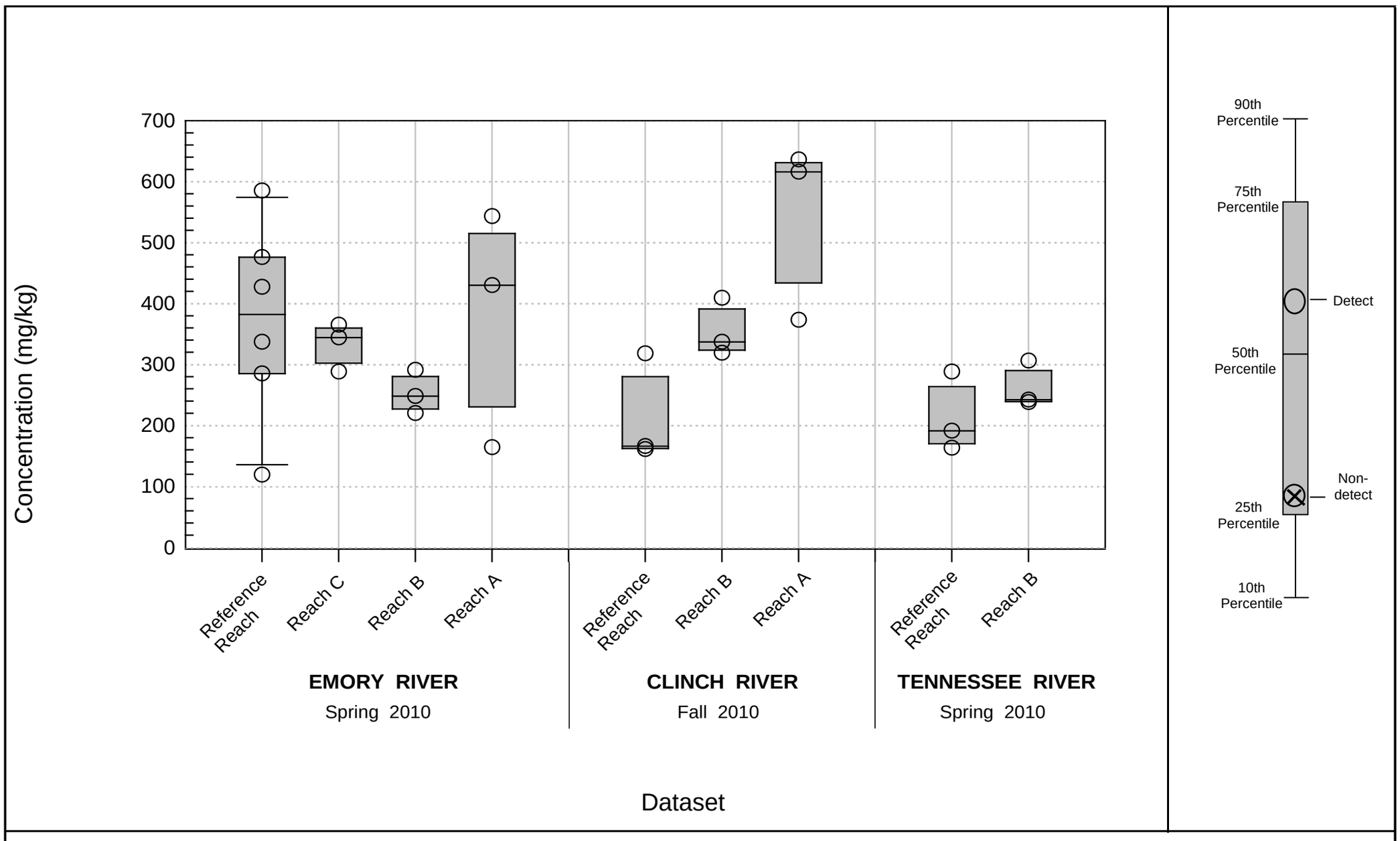
TVA Kingston

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-R - Spring 2010	mg/kg	0	6	6	NA	NA	10,300	12,500	11,500	11,500	896	10,700	11,500	12,400
ER-C - Spring 2010	mg/kg	0	3	3	NA	NA	10,300	11,700	11,100	11,200	709	10,500	11,200	11,600
ER-B - Spring 2010	mg/kg	0	3	3	NA	NA	9,940	11,900	11,200	11,800	1,100	10,400	11,800	11,900
ER-A - Spring 2010	mg/kg	0	3	3	NA	NA	9,360	11,200	10,300	10,200	921	9,570	10,200	11,000
CR-R - Fall 2010	mg/kg	0	3	3	NA	NA	12,400	18,000	15,200	15,300	2,800	13,100	15,300	17,300
CR-B - Fall 2010	mg/kg	0	3	3	NA	NA	10,600	14,400	12,800	13,300	1,960	11,300	13,300	14,100
CR-A - Fall 2010	mg/kg	0	3	3	NA	NA	12,900	15,800	14,800	15,700	1,650	13,600	15,700	15,800
TR-R - Spring 2010	mg/kg	0	3	3	NA	NA	8,430	11,100	10,100	10,800	1,460	9,020	10,800	11,000
TR-B - Spring 2010	mg/kg	0	3	3	NA	NA	11,200	21,000	15,500	14,300	5,010	12,000	14,300	19,300

Notes:

-- = no data
A = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
mg/kg = milligram(s) per kilogram
NA = value not applicable due to frequency of detection
ND = nondetect
R = Reference Reach
TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.
Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.
Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

Snail Whole Body Tissue Without Gut or Gut Contents
Manganese

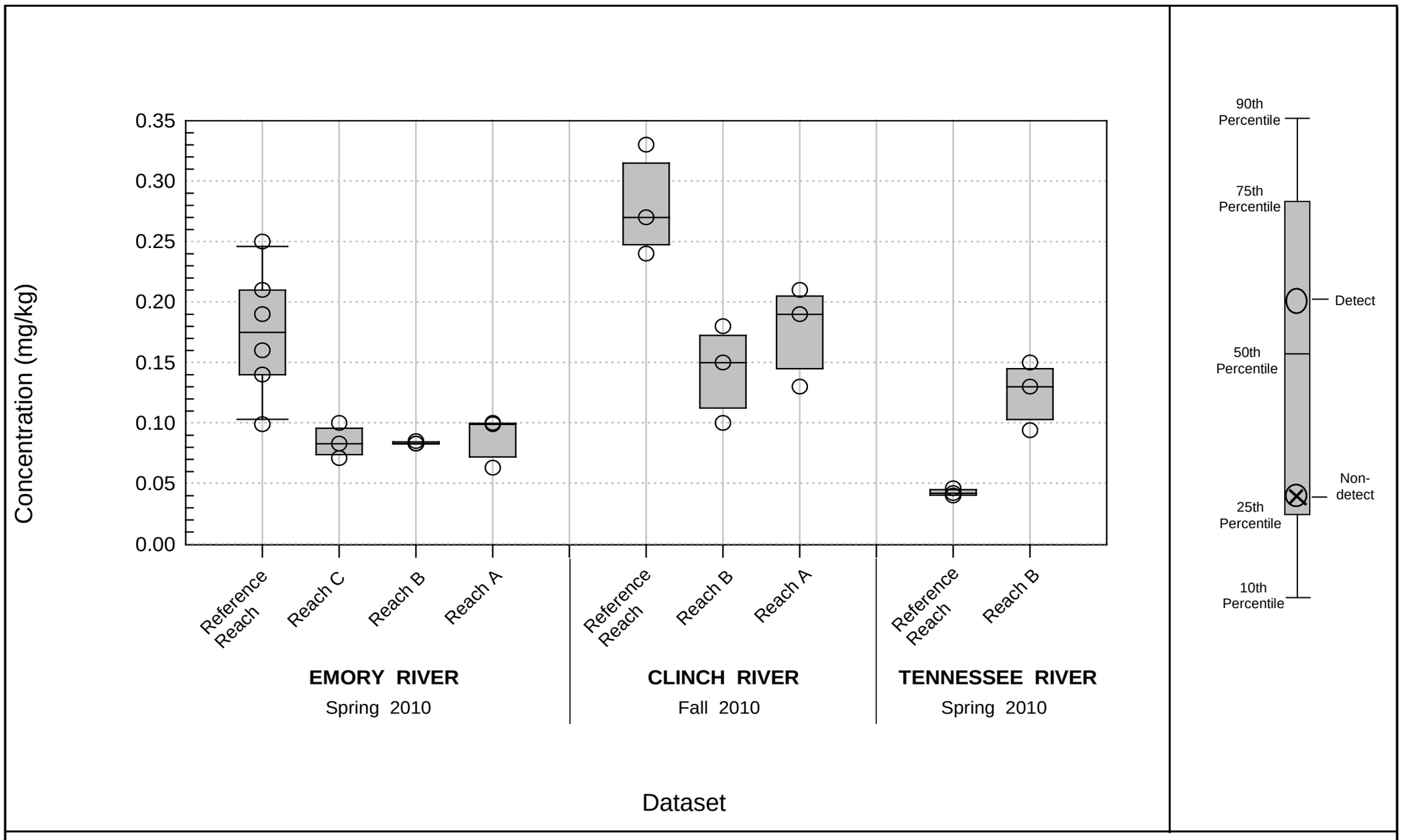
TVA Kingston

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-R - Spring 2010	mg/kg	0	6	6	NA	NA	119	585	372	382	162	285	382	476
ER-C - Spring 2010	mg/kg	0	3	3	NA	NA	288	365	332	344	39.8	302	344	360
ER-B - Spring 2010	mg/kg	0	3	3	NA	NA	220	291	253	248	35.8	227	248	280
ER-A - Spring 2010	mg/kg	0	3	3	NA	NA	164	543	379	430	195	231	430	515
CR-R - Fall 2010	mg/kg	0	3	3	NA	NA	161	318	215	166	89.2	162	166	280
CR-B - Fall 2010	mg/kg	0	3	3	NA	NA	319	409	355	337	47.6	324	337	391
CR-A - Fall 2010	mg/kg	0	3	3	NA	NA	373	636	542	616	146	434	616	631
TR-R - Spring 2010	mg/kg	0	3	3	NA	NA	163	288	214	191	65.6	170	191	264
TR-B - Spring 2010	mg/kg	0	3	3	NA	NA	238	306	262	242	38.2	239	242	290

Notes:

-- = no data
A = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
mg/kg = milligram(s) per kilogram
NA = value not applicable due to frequency of detection
ND = nondetect
R = Reference Reach
TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.
Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.
Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

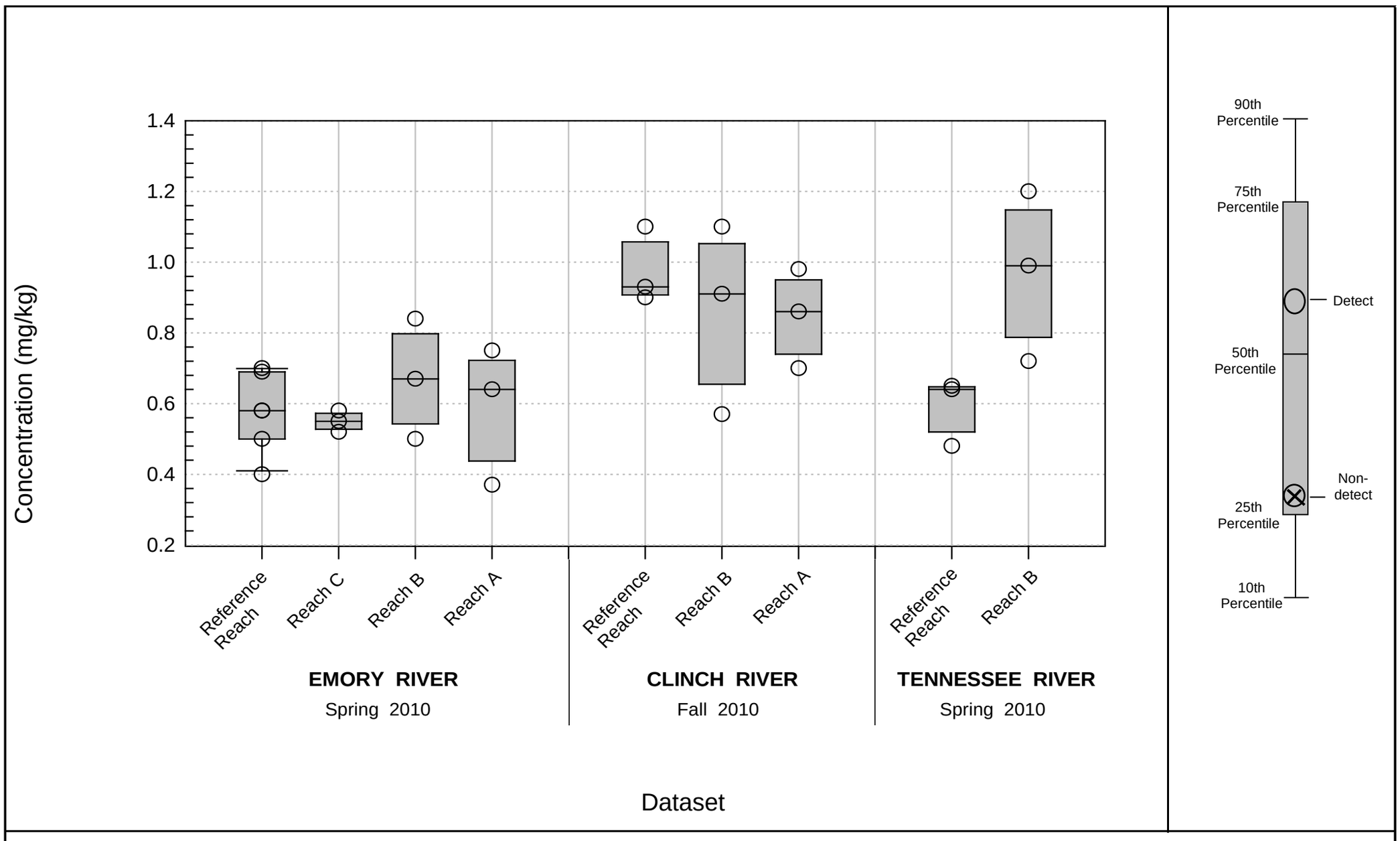
Snail Whole Body Tissue Without Gut or Gut Contents
Mercury
TVA Kingston

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-R - Spring 2010	mg/kg	0	6	6	NA	NA	0.099	0.25	0.17	0.17	0.053	0.14	0.17	0.21
ER-C - Spring 2010	mg/kg	0	3	3	NA	NA	0.071	0.10	0.085	0.083	0.015	0.074	0.083	0.096
ER-B - Spring 2010	mg/kg	0	3	3	NA	NA	0.083	0.085	0.084	0.083	0.0012	0.083	0.083	0.084
ER-A - Spring 2010	mg/kg	0	3	3	NA	NA	0.063	0.10	0.087	0.099	0.021	0.072	0.099	0.10
CR-R - Fall 2010	mg/kg	0	3	3	NA	NA	0.24	0.33	0.28	0.27	0.046	0.25	0.27	0.31
CR-B - Fall 2010	mg/kg	0	3	3	NA	NA	0.10	0.18	0.14	0.15	0.040	0.11	0.15	0.17
CR-A - Fall 2010	mg/kg	0	3	3	NA	NA	0.13	0.21	0.18	0.19	0.042	0.14	0.19	0.20
TR-R - Spring 2010	mg/kg	0	3	3	NA	NA	0.040	0.046	0.043	0.042	0.0031	0.041	0.042	0.045
TR-B - Spring 2010	mg/kg	0	3	3	NA	NA	0.094	0.15	0.12	0.13	0.028	0.10	0.13	0.14

Notes:

-- = no data
A = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
mg/kg = milligram(s) per kilogram
NA = value not applicable due to frequency of detection
ND = nondetect
R = Reference Reach
TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.
Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.
Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

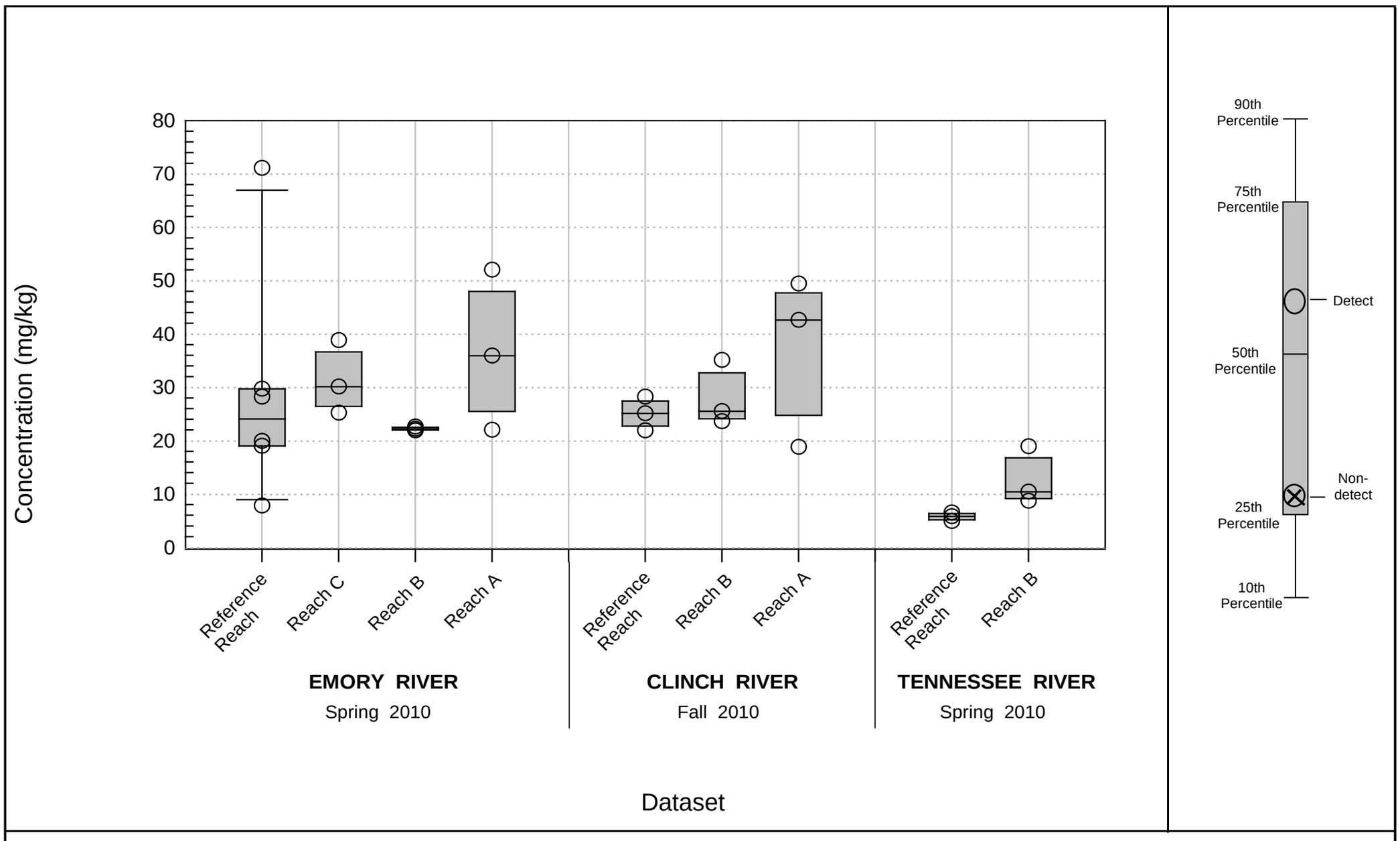
Snail Whole Body Tissue Without Gut or Gut Contents
Molybdenum
TVA Kingston

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-R - Spring 2010	mg/kg	0	6	6	NA	NA	0.40	0.70	0.58	0.58	0.11	0.50	0.58	0.69
ER-C - Spring 2010	mg/kg	0	3	3	NA	NA	0.52	0.58	0.55	0.55	0.030	0.53	0.55	0.57
ER-B - Spring 2010	mg/kg	0	3	3	NA	NA	0.50	0.84	0.67	0.67	0.17	0.54	0.67	0.80
ER-A - Spring 2010	mg/kg	0	3	3	NA	NA	0.37	0.75	0.59	0.64	0.20	0.44	0.64	0.72
CR-R - Fall 2010	mg/kg	0	3	3	NA	NA	0.90	1.1	0.98	0.93	0.11	0.91	0.93	1.1
CR-B - Fall 2010	mg/kg	0	3	3	NA	NA	0.57	1.1	0.86	0.91	0.27	0.65	0.91	1.1
CR-A - Fall 2010	mg/kg	0	3	3	NA	NA	0.70	0.98	0.85	0.86	0.14	0.74	0.86	0.95
TR-R - Spring 2010	mg/kg	0	3	3	NA	NA	0.48	0.65	0.59	0.64	0.095	0.52	0.64	0.65
TR-B - Spring 2010	mg/kg	0	3	3	NA	NA	0.72	1.2	0.97	0.99	0.24	0.79	0.99	1.1

Notes:

-- = no data
A = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
mg/kg = milligram(s) per kilogram
NA = value not applicable due to frequency of detection
ND = nondetect
R = Reference Reach
TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.
Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.
Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

Snail Whole Body Tissue Without Gut or Gut Contents
Nickel

TVA Kingston

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-R - Spring 2010	mg/kg	0	6	6	NA	NA	7.8	71.1	29.3	24.0	21.9	19.0	24.0	29.7
ER-C - Spring 2010	mg/kg	0	3	3	NA	NA	25.2	38.8	31.4	30.1	6.9	26.4	30.1	36.6
ER-B - Spring 2010	mg/kg	0	3	3	NA	NA	21.9	22.6	22.2	22.2	0.35	22.0	22.2	22.5
ER-A - Spring 2010	mg/kg	0	3	3	NA	NA	22.0	52.0	36.6	35.9	15.0	25.5	35.9	48.0
CR-R - Fall 2010	mg/kg	0	3	3	NA	NA	21.9	28.2	25.1	25.1	3.2	22.7	25.1	27.4
CR-B - Fall 2010	mg/kg	0	3	3	NA	NA	23.6	35.1	28.1	25.5	6.2	24.1	25.5	32.7
CR-A - Fall 2010	mg/kg	0	3	3	NA	NA	18.8	49.4	36.9	42.6	16.1	24.8	42.6	47.7
TR-R - Spring 2010	mg/kg	0	3	3	NA	NA	4.9	6.5	5.7	5.8	0.80	5.1	5.8	6.3
TR-B - Spring 2010	mg/kg	0	3	3	NA	NA	8.7	18.9	12.7	10.4	5.5	9.1	10.4	16.8

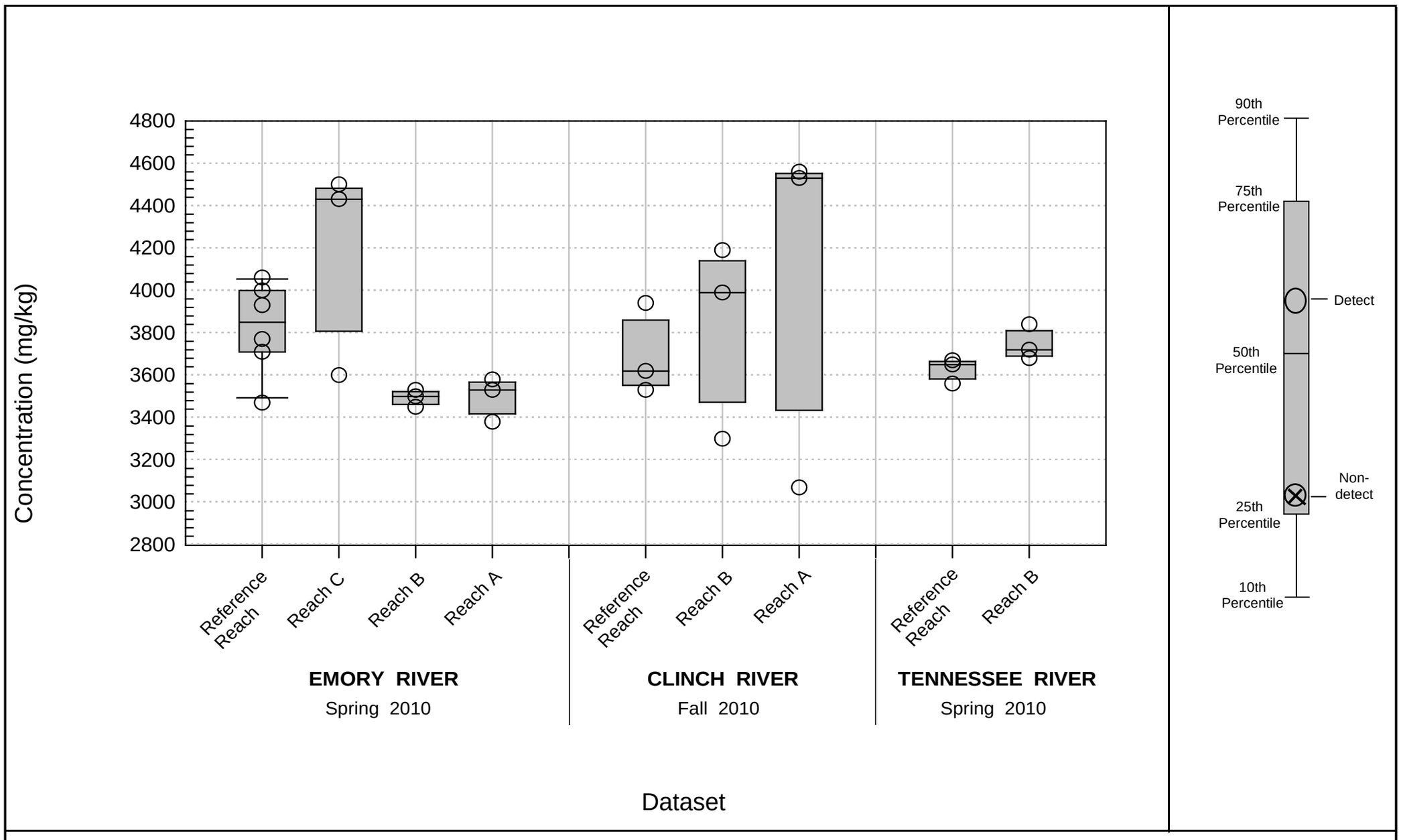
Notes:

-- = no data
A = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
mg/kg = milligram(s) per kilogram
NA = value not applicable due to frequency of detection
ND = nondetect
R = Reference Reach
TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.

Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.

Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

Snail Whole Body Tissue Without Gut or Gut Contents
Potassium

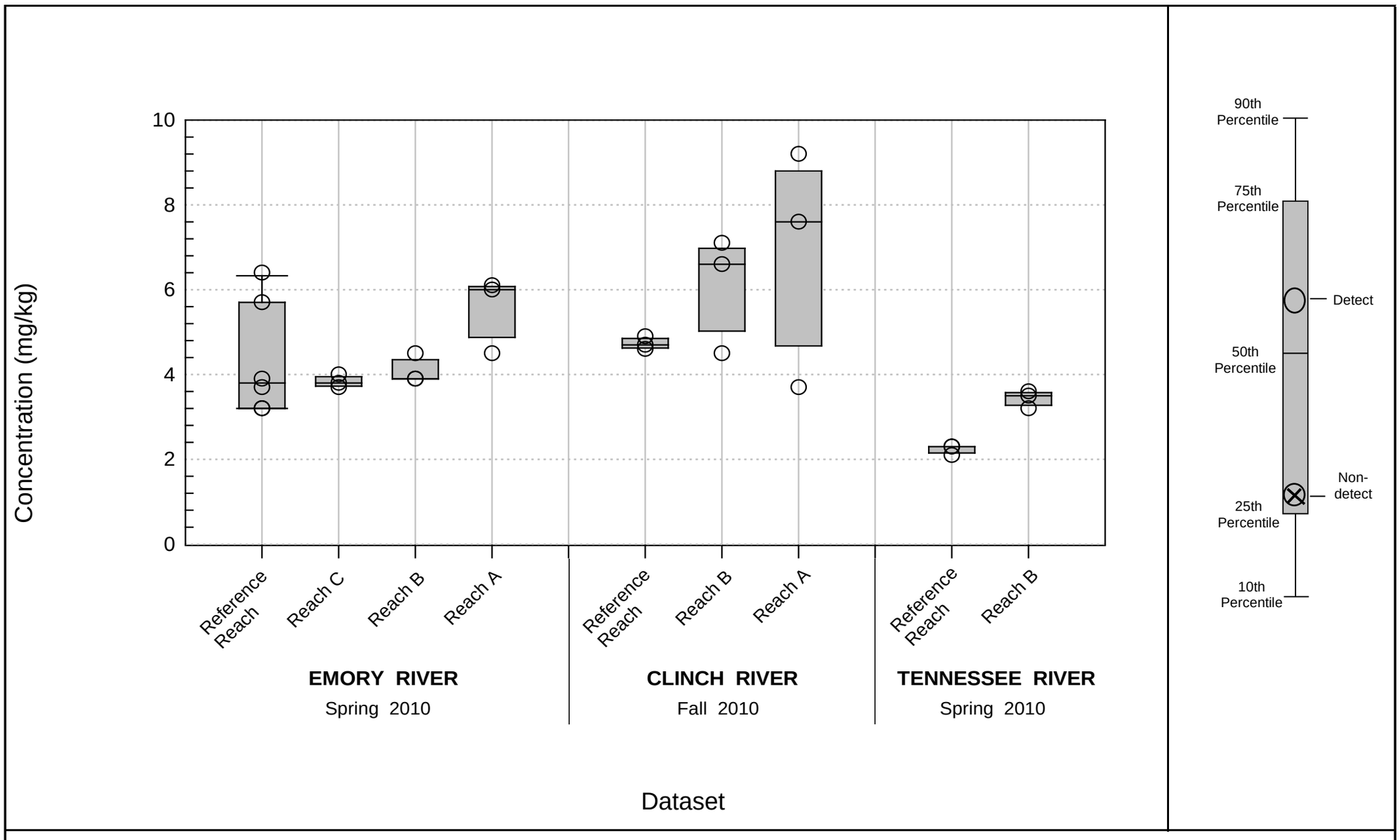
TVA Kingston

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-R - Spring 2010	mg/kg	0	6	6	NA	NA	3,470	4,060	3,820	3,850	219	3,710	3,850	4,000
ER-C - Spring 2010	mg/kg	0	3	3	NA	NA	3,600	4,500	4,180	4,430	501	3,810	4,430	4,480
ER-B - Spring 2010	mg/kg	0	3	3	NA	NA	3,450	3,530	3,490	3,500	40.4	3,460	3,500	3,520
ER-A - Spring 2010	mg/kg	0	3	3	NA	NA	3,380	3,580	3,500	3,530	104	3,420	3,530	3,570
CR-R - Fall 2010	mg/kg	0	3	3	NA	NA	3,530	3,940	3,700	3,620	215	3,550	3,620	3,860
CR-B - Fall 2010	mg/kg	0	3	3	NA	NA	3,300	4,190	3,830	3,990	467	3,470	3,990	4,140
CR-A - Fall 2010	mg/kg	0	3	3	NA	NA	3,070	4,560	4,050	4,530	852	3,440	4,530	4,550
TR-R - Spring 2010	mg/kg	0	3	3	NA	NA	3,560	3,670	3,630	3,650	58.6	3,580	3,650	3,670
TR-B - Spring 2010	mg/kg	0	3	3	NA	NA	3,680	3,840	3,750	3,720	83.3	3,690	3,720	3,810

Notes:

-- = no data
A = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
mg/kg = milligram(s) per kilogram
NA = value not applicable due to frequency of detection
ND = nondetect
R = Reference Reach
TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.
Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.
Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

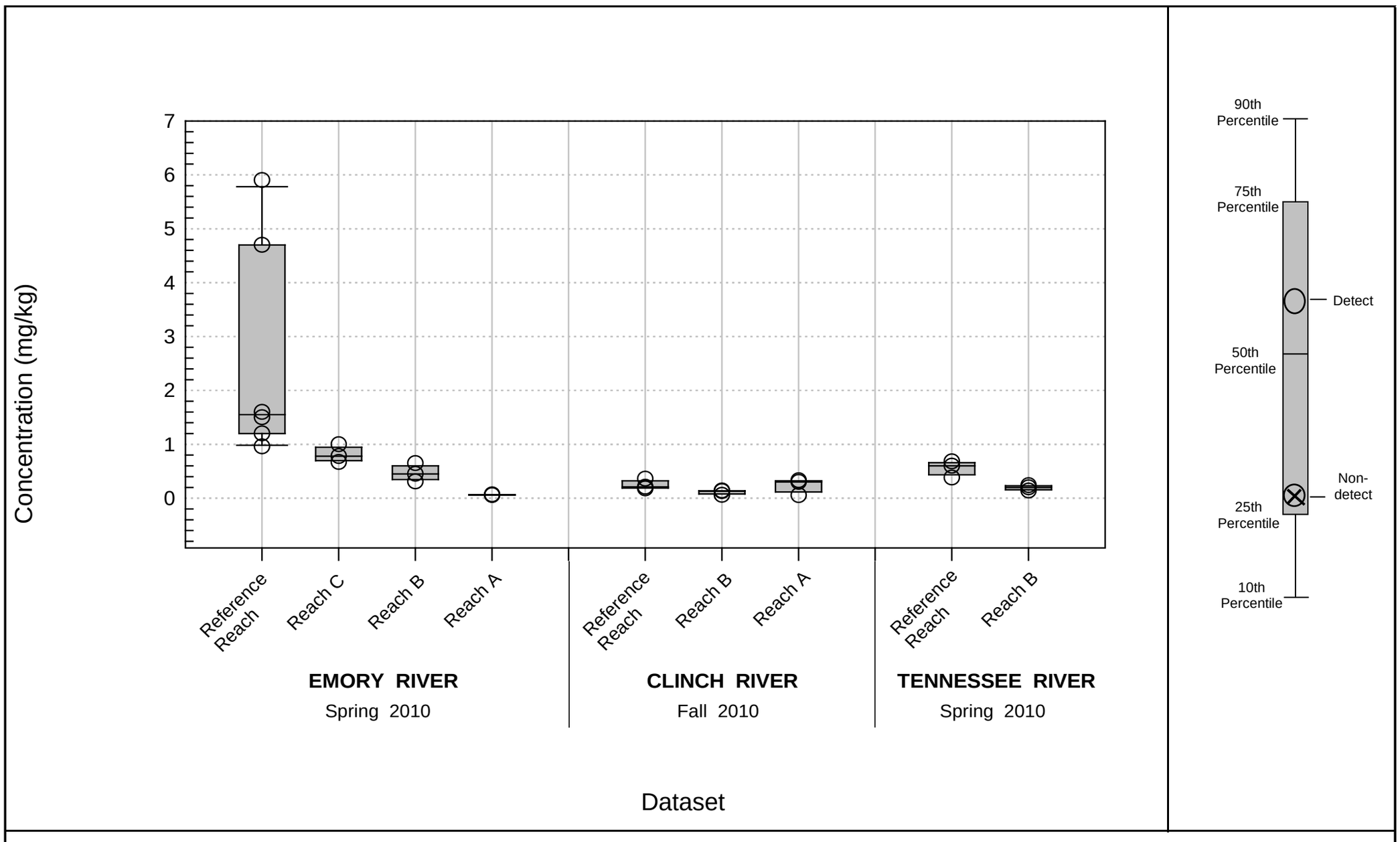
Snail Whole Body Tissue Without Gut or Gut Contents
Selenium
TVA Kingston

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-R - Spring 2010	mg/kg	0	6	6	NA	NA	3.2	6.4	4.4	3.8	1.4	3.2	3.8	5.7
ER-C - Spring 2010	mg/kg	0	3	3	NA	NA	3.7	4.0	3.8	3.8	0.15	3.7	3.8	4.0
ER-B - Spring 2010	mg/kg	0	3	3	NA	NA	3.9	4.5	4.1	3.9	0.35	3.9	3.9	4.3
ER-A - Spring 2010	mg/kg	0	3	3	NA	NA	4.5	6.1	5.5	6.0	0.90	4.9	6.0	6.1
CR-R - Fall 2010	mg/kg	0	3	3	NA	NA	4.6	4.9	4.7	4.7	0.15	4.6	4.7	4.8
CR-B - Fall 2010	mg/kg	0	3	3	NA	NA	4.5	7.1	6.1	6.6	1.4	5.0	6.6	7.0
CR-A - Fall 2010	mg/kg	0	3	3	NA	NA	3.7	9.2	6.8	7.6	2.8	4.7	7.6	8.8
TR-R - Spring 2010	mg/kg	0	3	3	NA	NA	2.1	2.3	2.2	2.3	0.12	2.2	2.3	2.3
TR-B - Spring 2010	mg/kg	0	3	3	NA	NA	3.2	3.6	3.4	3.5	0.21	3.3	3.5	3.6

Notes:

-- = no data
A = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
mg/kg = milligram(s) per kilogram
NA = value not applicable due to frequency of detection
ND = nondetect
R = Reference Reach
TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.
Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.
Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

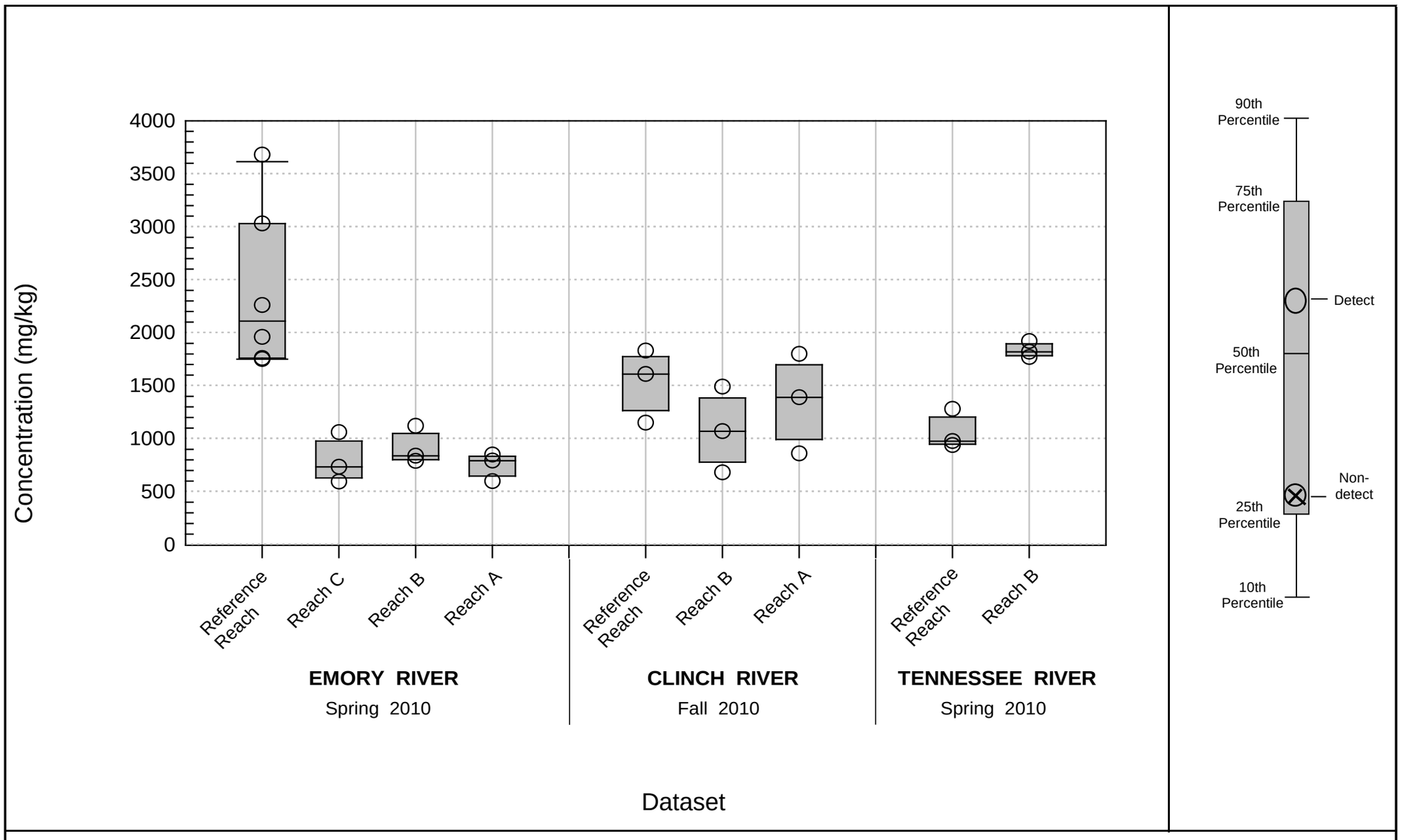
Snail Whole Body Tissue Without Gut or Gut Contents
Silver
TVA Kingston

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-R - Spring 2010	mg/kg	0	6	6	NA	NA	0.96	5.9	2.6	1.5	2.1	1.2	1.5	4.7
ER-C - Spring 2010	mg/kg	0	3	3	NA	NA	0.67	1.0	0.82	0.78	0.17	0.70	0.78	0.94
ER-B - Spring 2010	mg/kg	0	3	3	NA	NA	0.31	0.65	0.47	0.45	0.17	0.34	0.45	0.60
ER-A - Spring 2010	mg/kg	0	3	3	NA	NA	0.057	0.067	0.061	0.060	0.0051	0.058	0.060	0.065
CR-R - Fall 2010	mg/kg	0	3	3	NA	NA	0.18	0.36	0.25	0.21	0.096	0.19	0.21	0.32
CR-B - Fall 2010	mg/kg	0	3	3	NA	NA	0.060	0.14	0.11	0.13	0.044	0.078	0.13	0.14
CR-A - Fall 2010	mg/kg	0	3	3	NA	NA	0.055	0.33	0.23	0.30	0.15	0.12	0.30	0.32
TR-R - Spring 2010	mg/kg	0	3	3	NA	NA	0.38	0.68	0.55	0.60	0.16	0.44	0.60	0.66
TR-B - Spring 2010	mg/kg	0	3	3	NA	NA	0.14	0.24	0.19	0.20	0.050	0.16	0.20	0.23

Notes:

-- = no data
A = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
mg/kg = milligram(s) per kilogram
NA = value not applicable due to frequency of detection
ND = nondetect
R = Reference Reach
TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.
Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.
Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

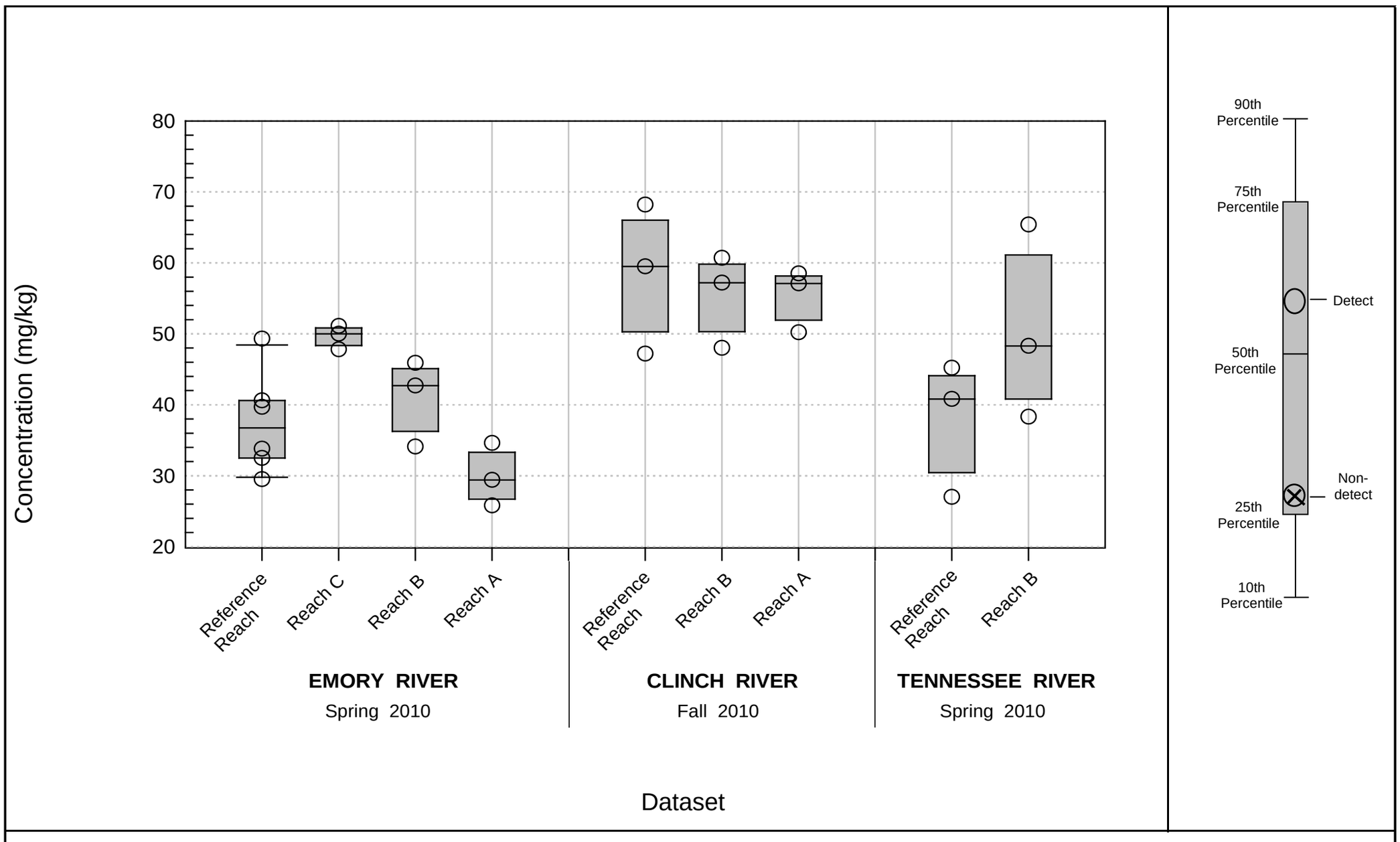
Snail Whole Body Tissue Without Gut or Gut Contents
Sodium
TVA Kingston

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-R - Spring 2010	mg/kg	0	6	6	NA	NA	1,750	3,680	2,410	2,110	785	1,760	2,110	3,030
ER-C - Spring 2010	mg/kg	0	3	3	NA	NA	595	1,060	796	734	239	630	734	979
ER-B - Spring 2010	mg/kg	0	3	3	NA	NA	790	1,120	916	839	178	802	839	1,050
ER-A - Spring 2010	mg/kg	0	3	3	NA	NA	599	849	747	792	131	647	792	835
CR-R - Fall 2010	mg/kg	0	3	3	NA	NA	1,150	1,830	1,530	1,610	347	1,270	1,610	1,780
CR-B - Fall 2010	mg/kg	0	3	3	NA	NA	681	1,490	1,080	1,070	405	778	1,070	1,390
CR-A - Fall 2010	mg/kg	0	3	3	NA	NA	860	1,800	1,350	1,390	471	993	1,390	1,700
TR-R - Spring 2010	mg/kg	0	3	3	NA	NA	939	1,280	1,070	977	187	949	977	1,200
TR-B - Spring 2010	mg/kg	0	3	3	NA	NA	1,770	1,920	1,840	1,820	76.4	1,780	1,820	1,900

Notes:

-- = no data
A = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
mg/kg = milligram(s) per kilogram
NA = value not applicable due to frequency of detection
ND = nondetect
R = Reference Reach
TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.
Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.
Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



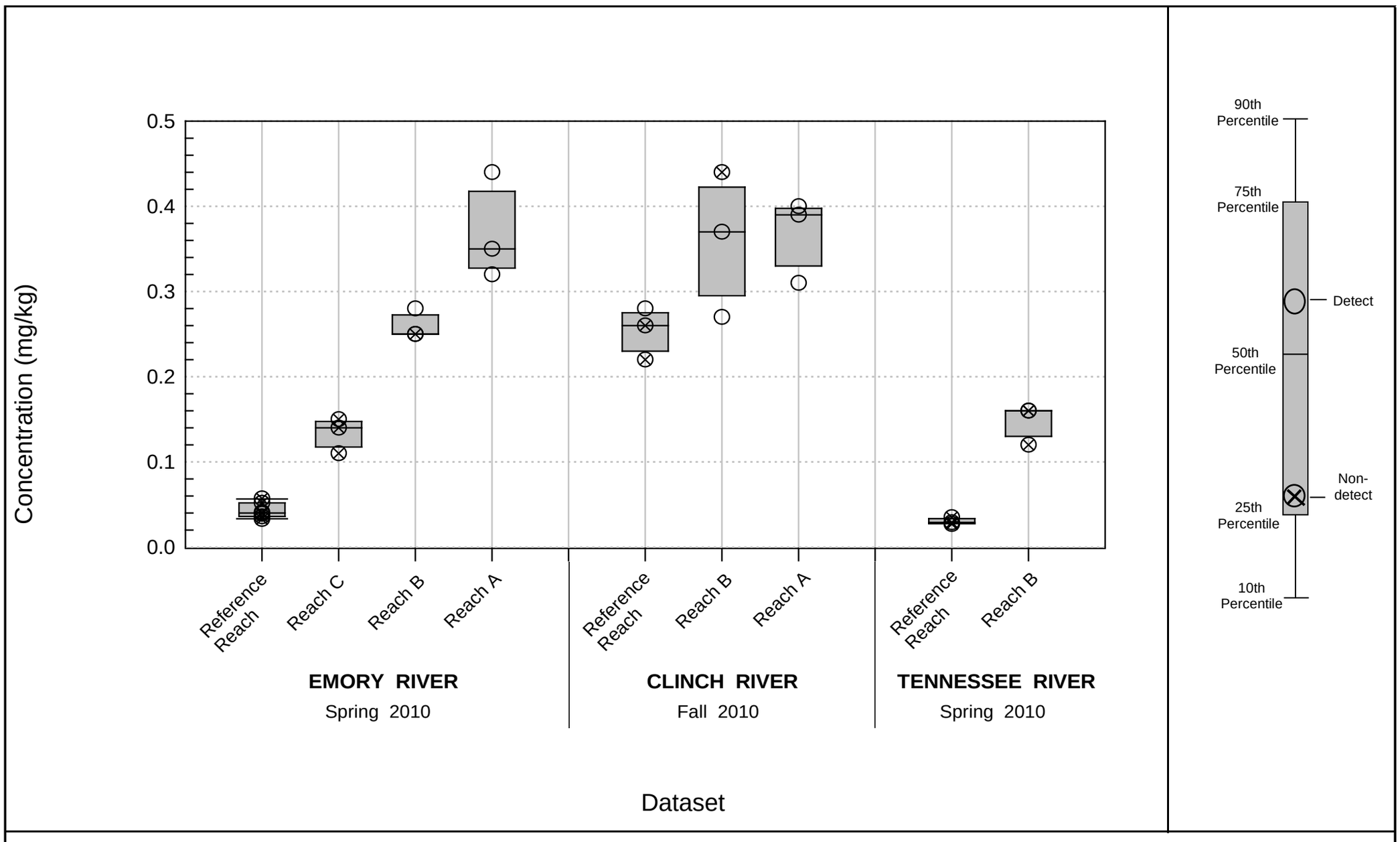
ARCADIS

Snail Whole Body Tissue Without Gut or Gut Contents
Strontium
TVA Kingston

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-R - Spring 2010	mg/kg	0	6	6	NA	NA	29.5	49.3	37.6	36.8	7.2	32.5	36.8	40.6
ER-C - Spring 2010	mg/kg	0	3	3	NA	NA	47.8	51.1	49.6	50.0	1.7	48.3	50.0	50.8
ER-B - Spring 2010	mg/kg	0	3	3	NA	NA	34.1	45.9	40.9	42.7	6.1	36.3	42.7	45.1
ER-A - Spring 2010	mg/kg	0	3	3	NA	NA	25.8	34.6	29.9	29.4	4.4	26.7	29.4	33.3
CR-R - Fall 2010	mg/kg	0	3	3	NA	NA	47.2	68.2	58.3	59.5	10.6	50.3	59.5	66.0
CR-B - Fall 2010	mg/kg	0	3	3	NA	NA	48.0	60.7	55.3	57.2	6.6	50.3	57.2	59.8
CR-A - Fall 2010	mg/kg	0	3	3	NA	NA	50.2	58.5	55.3	57.1	4.4	51.9	57.1	58.2
TR-R - Spring 2010	mg/kg	0	3	3	NA	NA	27.0	45.2	37.7	40.8	9.5	30.5	40.8	44.1
TR-B - Spring 2010	mg/kg	0	3	3	NA	NA	38.3	65.4	50.7	48.3	13.7	40.8	48.3	61.1

Notes:

-- = no data
A = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
mg/kg = milligram(s) per kilogram
NA = value not applicable due to frequency of detection
ND = nondetect
R = Reference Reach
TR = Tennessee River
Reporting limit is used for non-detects unless otherwise noted.
Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.
Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

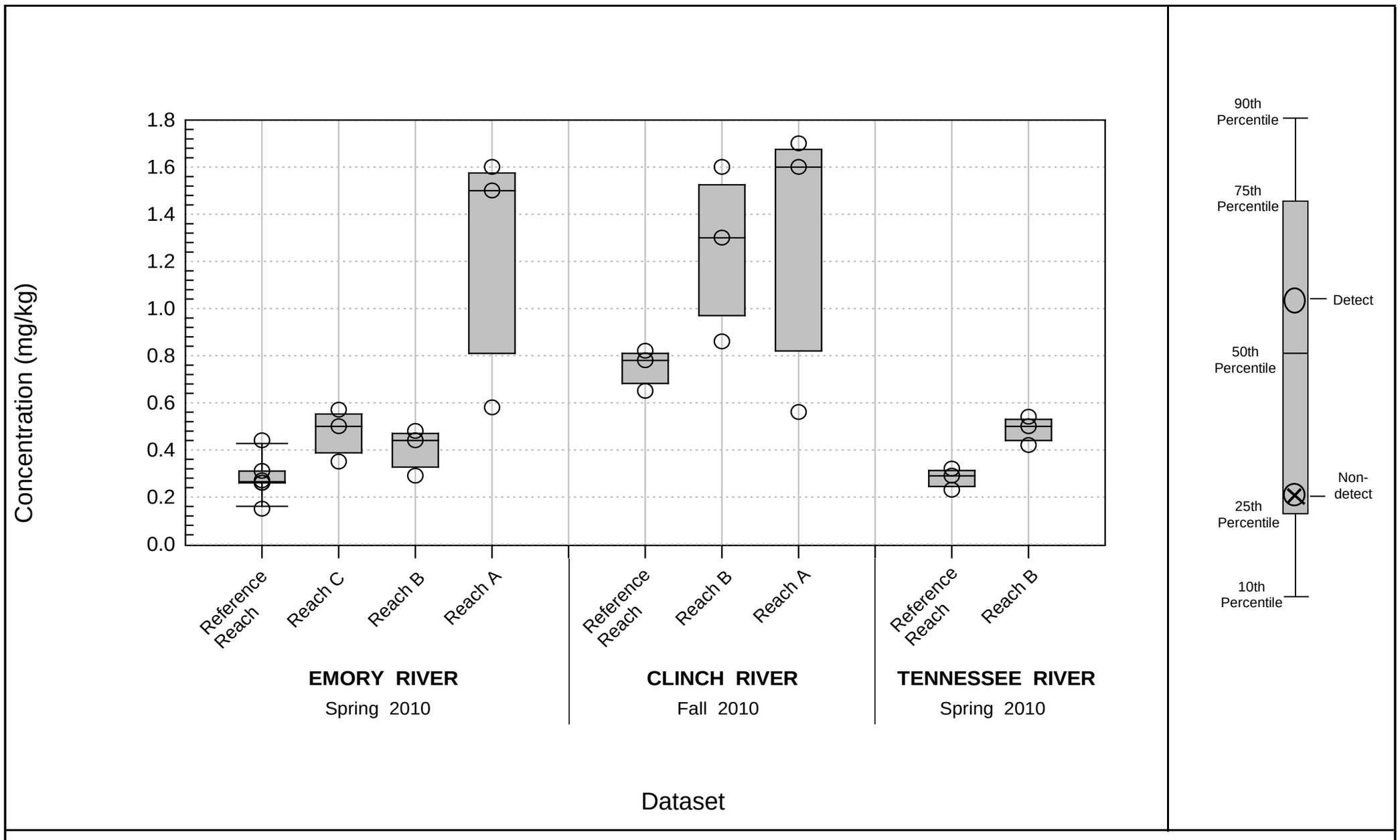
Snail Whole Body Tissue Without Gut or Gut Contents
Thallium
TVA Kingston

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-R - Spring 2010	mg/kg	6	0	6	0.033	0.057	ND	ND	ND	ND	ND	0.036	0.040	0.052
ER-C - Spring 2010	mg/kg	3	0	3	0.11	0.15	ND	ND	ND	ND	ND	0.12	0.14	0.15
ER-B - Spring 2010	mg/kg	1	2	3	0.25	0.25	0.25	0.28	0.27	0.26	0.021	0.25	0.25	0.27
ER-A - Spring 2010	mg/kg	0	3	3	NA	NA	0.32	0.44	0.37	0.35	0.062	0.33	0.35	0.42
CR-R - Fall 2010	mg/kg	2	1	3	0.22	0.26	0.28	0.28	0.28	0.28	NA	0.23	0.26	0.28
CR-B - Fall 2010	mg/kg	1	2	3	0.44	0.44	0.27	0.37	0.32	0.32	0.071	0.29	0.37	0.42
CR-A - Fall 2010	mg/kg	0	3	3	NA	NA	0.31	0.40	0.37	0.39	0.049	0.33	0.39	0.40
TR-R - Spring 2010	mg/kg	3	0	3	0.027	0.035	ND	ND	ND	ND	ND	0.027	0.029	0.034
TR-B - Spring 2010	mg/kg	3	0	3	0.12	0.16	ND	ND	ND	ND	ND	0.13	0.16	0.16

Notes:

-- = no data
A = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
mg/kg = milligram(s) per kilogram
NA = value not applicable due to frequency of detection
ND = nondetect
R = Reference Reach
TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.
Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.
Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

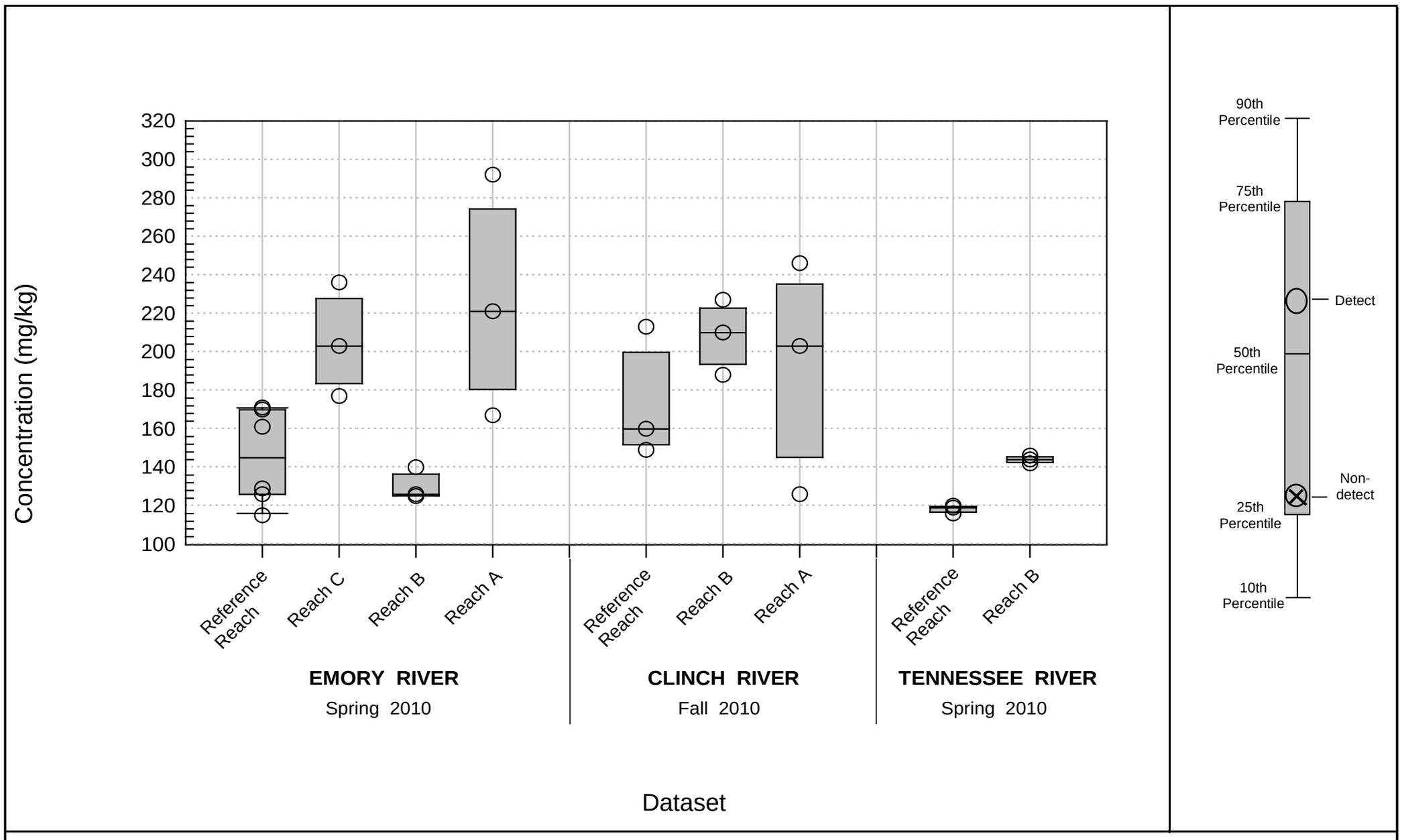
Snail Whole Body Tissue Without Gut or Gut Contents
Vanadium
TVA Kingston

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-R - Spring 2010	mg/kg	0	6	6	NA	NA	0.15	0.44	0.28	0.26	0.094	0.26	0.26	0.31
ER-C - Spring 2010	mg/kg	0	3	3	NA	NA	0.35	0.57	0.47	0.50	0.11	0.39	0.50	0.55
ER-B - Spring 2010	mg/kg	0	3	3	NA	NA	0.29	0.48	0.40	0.44	0.10	0.33	0.44	0.47
ER-A - Spring 2010	mg/kg	0	3	3	NA	NA	0.58	1.6	1.2	1.5	0.56	0.81	1.5	1.6
CR-R - Fall 2010	mg/kg	0	3	3	NA	NA	0.65	0.82	0.75	0.78	0.089	0.68	0.78	0.81
CR-B - Fall 2010	mg/kg	0	3	3	NA	NA	0.86	1.6	1.3	1.3	0.37	0.97	1.3	1.5
CR-A - Fall 2010	mg/kg	0	3	3	NA	NA	0.56	1.7	1.3	1.6	0.63	0.82	1.6	1.7
TR-R - Spring 2010	mg/kg	0	3	3	NA	NA	0.23	0.32	0.28	0.29	0.046	0.25	0.29	0.31
TR-B - Spring 2010	mg/kg	0	3	3	NA	NA	0.42	0.54	0.49	0.50	0.061	0.44	0.50	0.53

Notes:

-- = no data
A = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
mg/kg = milligram(s) per kilogram
NA = value not applicable due to frequency of detection
ND = nondetect
R = Reference Reach
TN = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.
Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.
Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

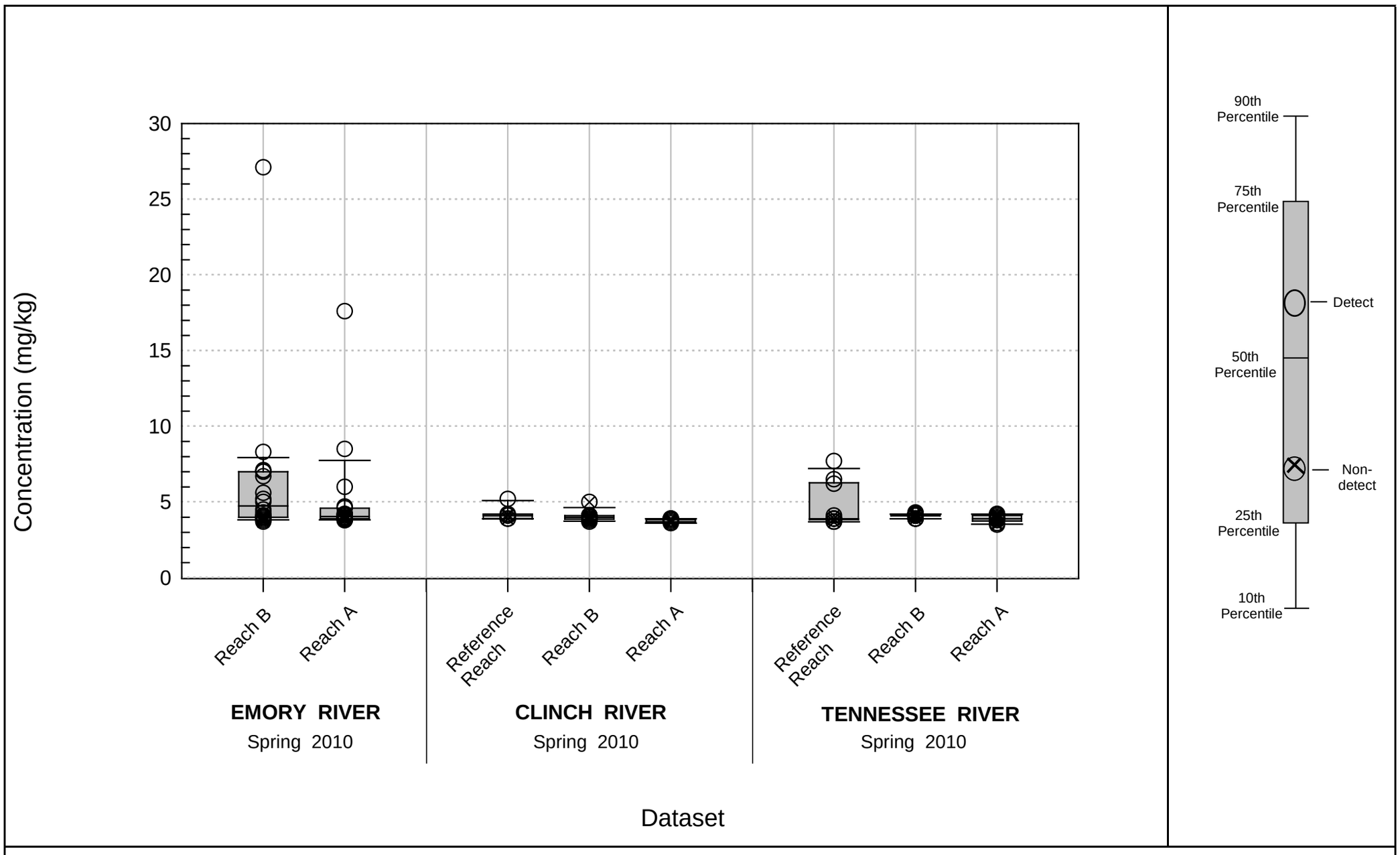
Snail Whole Body Tissue Without Gut or Gut Contents
Zinc
TVA Kingston

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-R - Spring 2010	mg/kg	0	6	6	NA	NA	115	171	145	145	24.8	126	145	170
ER-C - Spring 2010	mg/kg	0	3	3	NA	NA	177	236	205	203	29.6	184	203	228
ER-B - Spring 2010	mg/kg	0	3	3	NA	NA	125	140	130	126	8.4	125	126	137
ER-A - Spring 2010	mg/kg	0	3	3	NA	NA	167	292	227	221	62.7	181	221	274
CR-R - Fall 2010	mg/kg	0	3	3	NA	NA	149	213	174	160	34.2	152	160	200
CR-B - Fall 2010	mg/kg	0	3	3	NA	NA	188	227	208	210	19.6	194	210	223
CR-A - Fall 2010	mg/kg	0	3	3	NA	NA	126	246	192	203	60.8	145	203	235
TR-R - Spring 2010	mg/kg	0	3	3	NA	NA	116	120	118	119	2.1	117	119	120
TR-B - Spring 2010	mg/kg	0	3	3	NA	NA	142	146	144	144	2.0	143	144	146

Notes:

-- = no data
A = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
mg/kg = milligram(s) per kilogram
NA = value not applicable due to frequency of detection
ND = nondetect
R = Reference Reach
TN = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.
Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.
Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

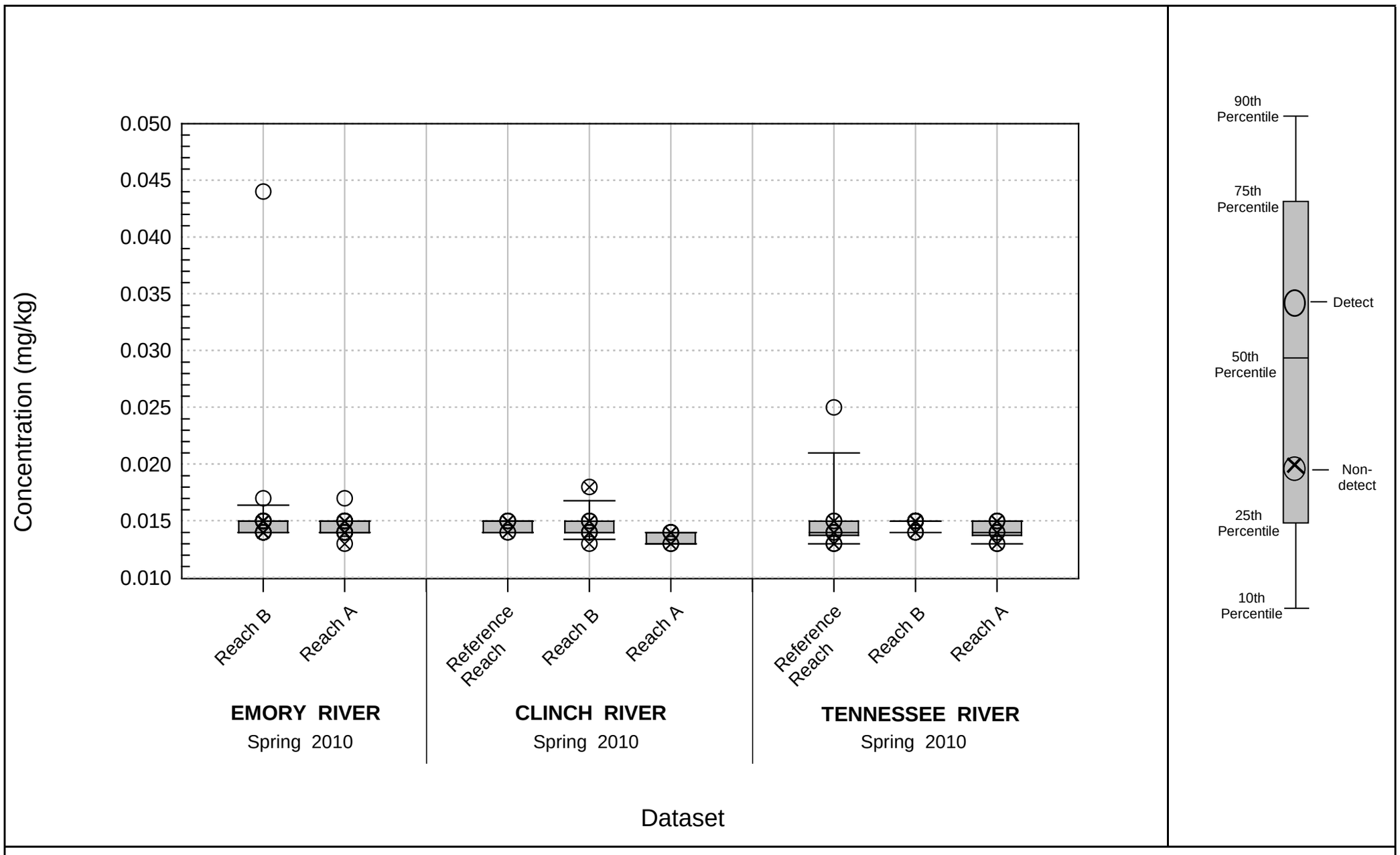
Mayfly Adult Whole Body Tissue
Aluminum
Site, City, State

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-B	mg/kg	7	11	18	3.70	4.10	4.30	27.10	8.00	6.70	6.50	4.00	4.80	7.00
ER-A	mg/kg	12	6	18	3.80	4.20	3.90	17.60	7.60	5.30	5.20	3.90	4.10	4.60
CR-R	mg/kg	5	1	6	3.90	4.20	5.20	5.20	5.20	5.20	NA	3.90	4.10	4.20
CR-B	mg/kg	9	0	9	3.70	5.00	ND	ND	ND	ND	ND	3.90	4.00	4.10
CR-A	mg/kg	6	0	6	3.60	3.90	ND	ND	ND	ND	ND	3.70	3.80	3.90
TR-R	mg/kg	6	3	9	3.70	4.10	6.20	7.70	6.80	6.50	0.79	3.80	3.90	6.30
TR-B	mg/kg	18	0	18	3.90	4.30	ND	ND	ND	ND	ND	4.10	4.10	4.20
TR-A	mg/kg	9	0	9	3.50	4.20	ND	ND	ND	ND	ND	3.80	3.90	4.10

Notes:

-- = no data
A = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
mg/kg = milligram(s) per kilogram
NA = value not applicable due to frequency of detection
ND = non-detect
R = Reference Reach
TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.
Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.
Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

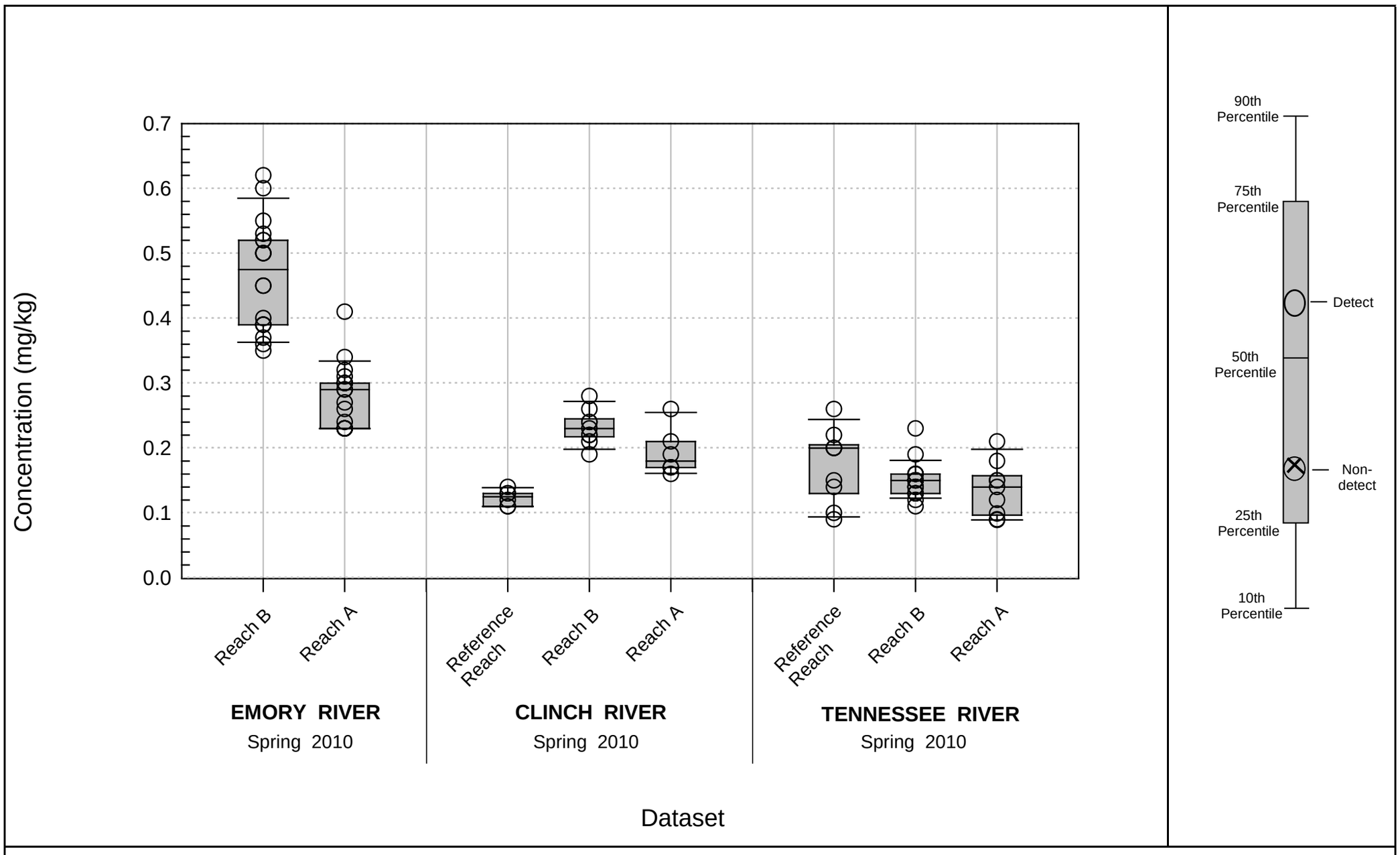
Mayfly Adult Whole Body Tissue
Antimony
Site, City, State

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-B	mg/kg	16	2	18	0.014	0.015	0.017	0.044	0.031	0.031	0.019	0.014	0.015	0.015
ER-A	mg/kg	17	1	18	0.013	0.015	0.017	0.017	0.017	0.017	NA	0.014	0.014	0.015
CR-R	mg/kg	6	0	6	0.014	0.015	ND	ND	ND	ND	ND	0.014	0.015	0.015
CR-B	mg/kg	9	0	9	0.013	0.018	ND	ND	ND	ND	ND	0.014	0.014	0.015
CR-A	mg/kg	6	0	6	0.013	0.014	ND	ND	ND	ND	ND	0.013	0.014	0.014
TR-R	mg/kg	8	1	9	0.013	0.015	0.025	0.025	0.025	0.025	NA	0.014	0.014	0.015
TR-B	mg/kg	18	0	18	0.014	0.015	ND	ND	ND	ND	ND	0.015	0.015	0.015
TR-A	mg/kg	9	0	9	0.013	0.015	ND	ND	ND	ND	ND	0.014	0.014	0.015

Notes:

-- = no data
A = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
mg/kg = milligram(s) per kilogram
NA = value not applicable due to frequency of detection
ND = non-detect
R = Reference Reach
TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.
Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.
Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

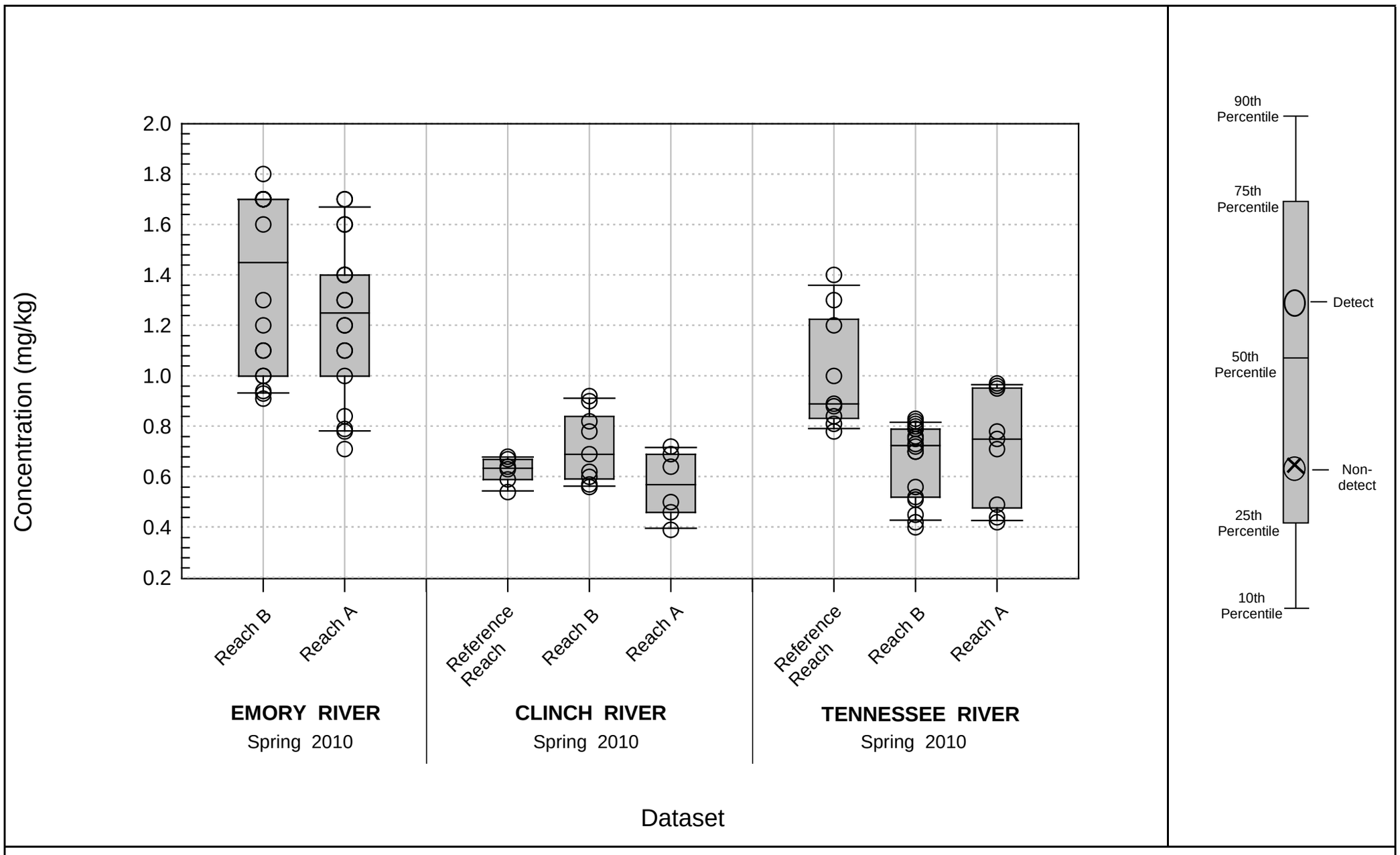
Mayfly Adult Whole Body Tissue
Arsenic
Site, City, State

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-B	mg/kg	0	18	18	NA	NA	0.35	0.62	0.47	0.47	0.083	0.39	0.47	0.52
ER-A	mg/kg	0	18	18	NA	NA	0.23	0.41	0.28	0.29	0.048	0.23	0.29	0.30
CR-R	mg/kg	0	6	6	NA	NA	0.11	0.14	0.12	0.13	0.012	0.11	0.13	0.13
CR-B	mg/kg	0	9	9	NA	NA	0.19	0.28	0.23	0.23	0.027	0.22	0.23	0.25
CR-A	mg/kg	0	6	6	NA	NA	0.16	0.26	0.19	0.18	0.037	0.17	0.18	0.21
TR-R	mg/kg	0	9	9	NA	NA	0.09	0.26	0.17	0.20	0.057	0.13	0.20	0.20
TR-B	mg/kg	0	18	18	NA	NA	0.11	0.23	0.15	0.15	0.027	0.13	0.15	0.16
TR-A	mg/kg	0	9	9	NA	NA	0.089	0.21	0.14	0.14	0.041	0.097	0.14	0.16

Notes:

-- = no data
A = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
mg/kg = milligram(s) per kilogram
NA = value not applicable due to frequency of detection
ND = non-detect
R = Reference Reach
TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.
Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.
Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

Mayfly Adult Whole Body Tissue
Barium
Site, City, State

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-B	mg/kg	0	18	18	NA	NA	0.91	1.80	1.40	1.50	0.35	1.00	1.50	1.70
ER-A	mg/kg	0	18	18	NA	NA	0.71	1.70	1.20	1.30	0.32	1.00	1.30	1.40
CR-R	mg/kg	0	6	6	NA	NA	0.54	0.68	0.63	0.63	0.052	0.59	0.63	0.67
CR-B	mg/kg	0	9	9	NA	NA	0.56	0.92	0.72	0.69	0.14	0.59	0.69	0.84
CR-A	mg/kg	0	6	6	NA	NA	0.39	0.72	0.57	0.57	0.14	0.46	0.57	0.69
TR-R	mg/kg	0	9	9	NA	NA	0.78	1.40	1.00	0.89	0.23	0.83	0.89	1.20
TR-B	mg/kg	0	18	18	NA	NA	0.40	0.83	0.67	0.73	0.15	0.52	0.73	0.79
TR-A	mg/kg	0	9	9	NA	NA	0.42	0.97	0.72	0.75	0.22	0.48	0.75	0.95

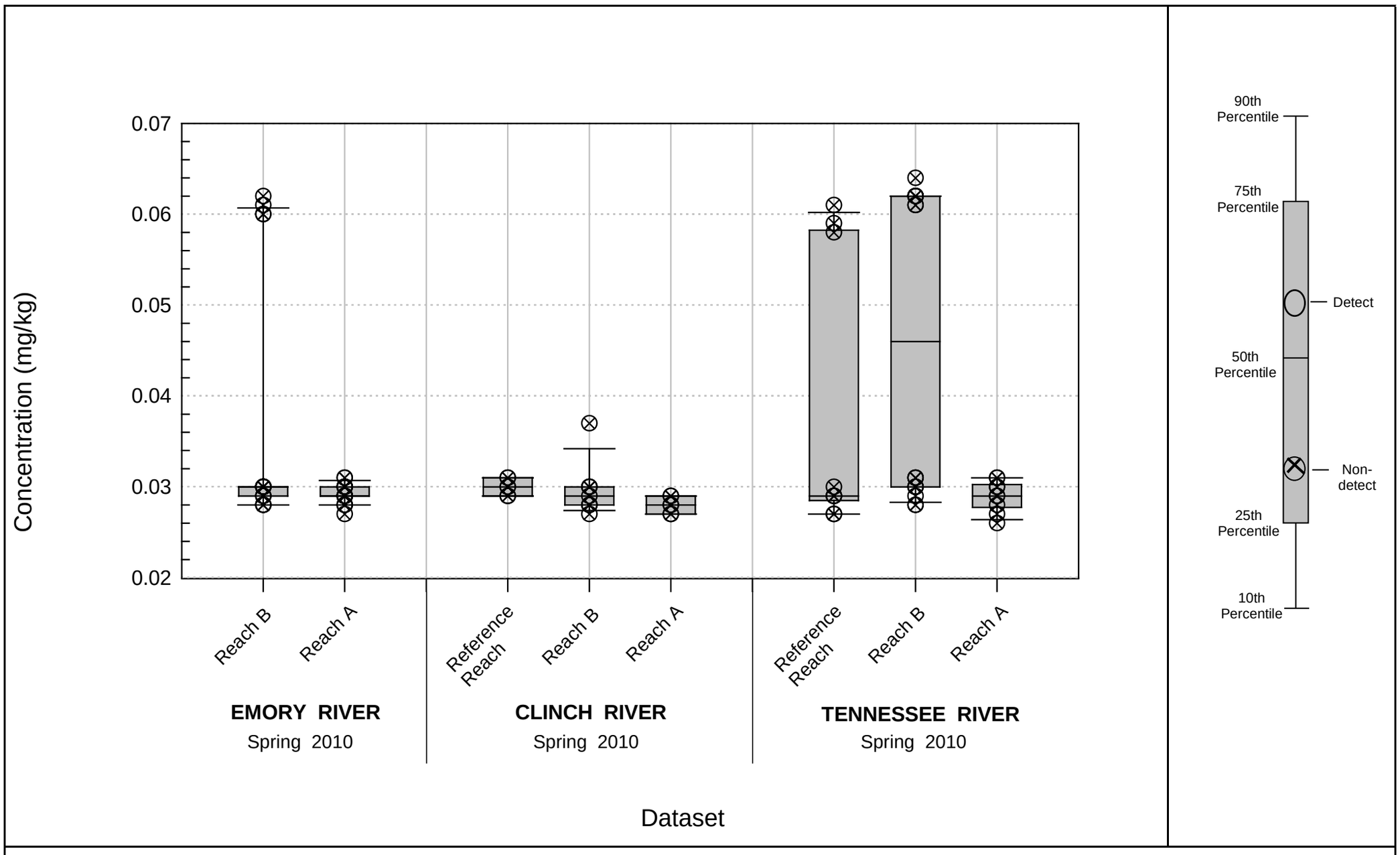
Notes:

--	= no data
A	= Reach A
B	= Reach B
C	= Reach C
CR	= Clinch River
ER	= Emory River
mg/kg	= milligram(s) per kilogram
NA	= value not applicable due to frequency of detection
ND	= non-detect
R	= Reference Reach
TR	= Tennessee River

Reporting limit is used for non-detects unless otherwise noted.

Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.

Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

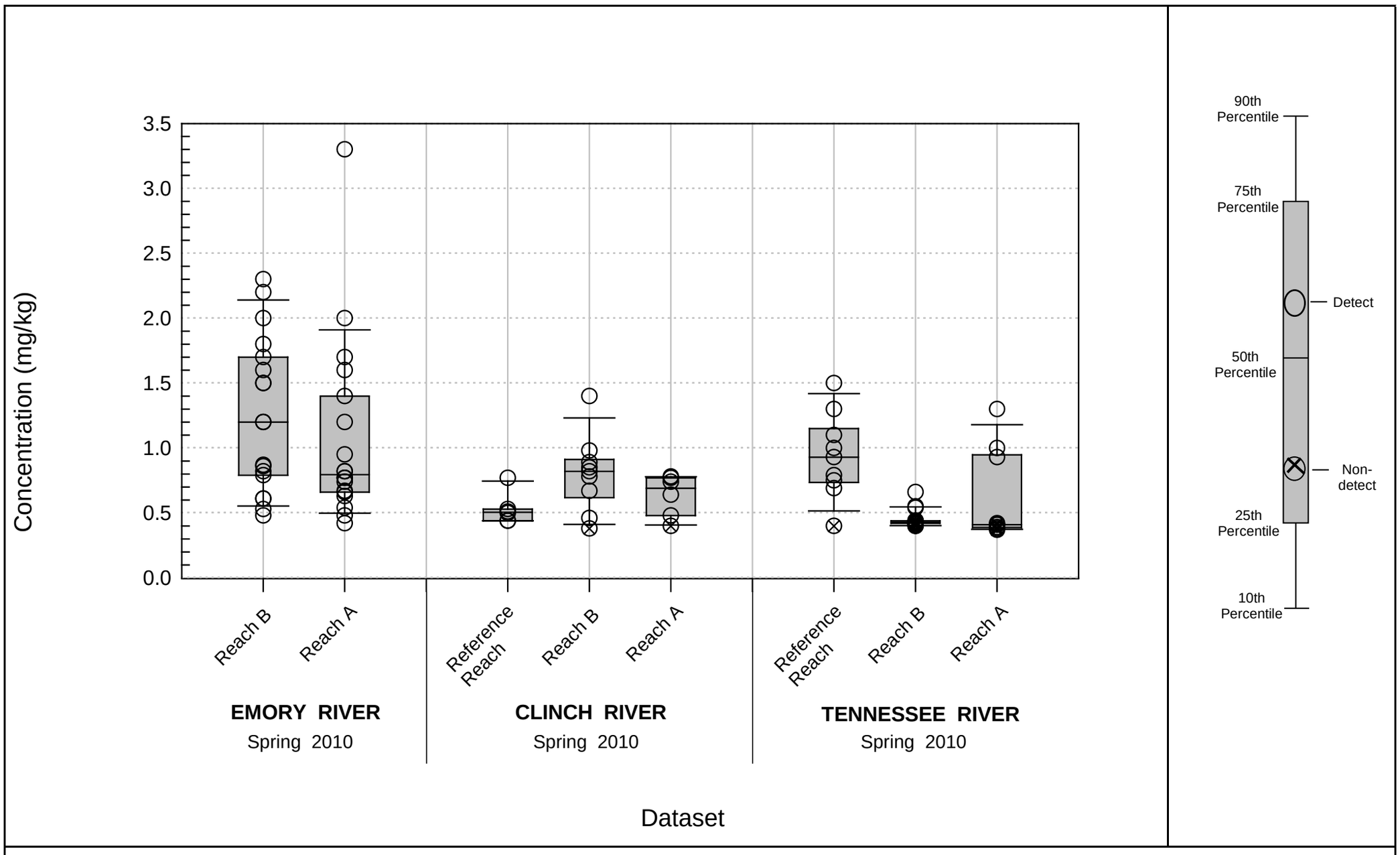
Mayfly Adult Whole Body Tissue
Beryllium
Site, City, State

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-B	mg/kg	18	0	18	0.028	0.062	ND	ND	ND	ND	ND	0.029	0.030	0.030
ER-A	mg/kg	18	0	18	0.027	0.031	ND	ND	ND	ND	ND	0.029	0.029	0.03
CR-R	mg/kg	6	0	6	0.029	0.031	ND	ND	ND	ND	ND	0.029	0.03	0.031
CR-B	mg/kg	9	0	9	0.027	0.037	ND	ND	ND	ND	ND	0.028	0.029	0.03
CR-A	mg/kg	6	0	6	0.027	0.029	ND	ND	ND	ND	ND	0.027	0.028	0.029
TR-R	mg/kg	9	0	9	0.027	0.061	ND	ND	ND	ND	ND	0.029	0.029	0.058
TR-B	mg/kg	18	0	18	0.028	0.064	ND	ND	ND	ND	ND	0.03	0.046	0.062
TR-A	mg/kg	9	0	9	0.026	0.031	ND	ND	ND	ND	ND	0.028	0.029	0.03

Notes:

-- = no data
A = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
mg/kg = milligram(s) per kilogram
NA = value not applicable due to frequency of detection
ND = non-detect
R = Reference Reach
TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.
Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.
Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

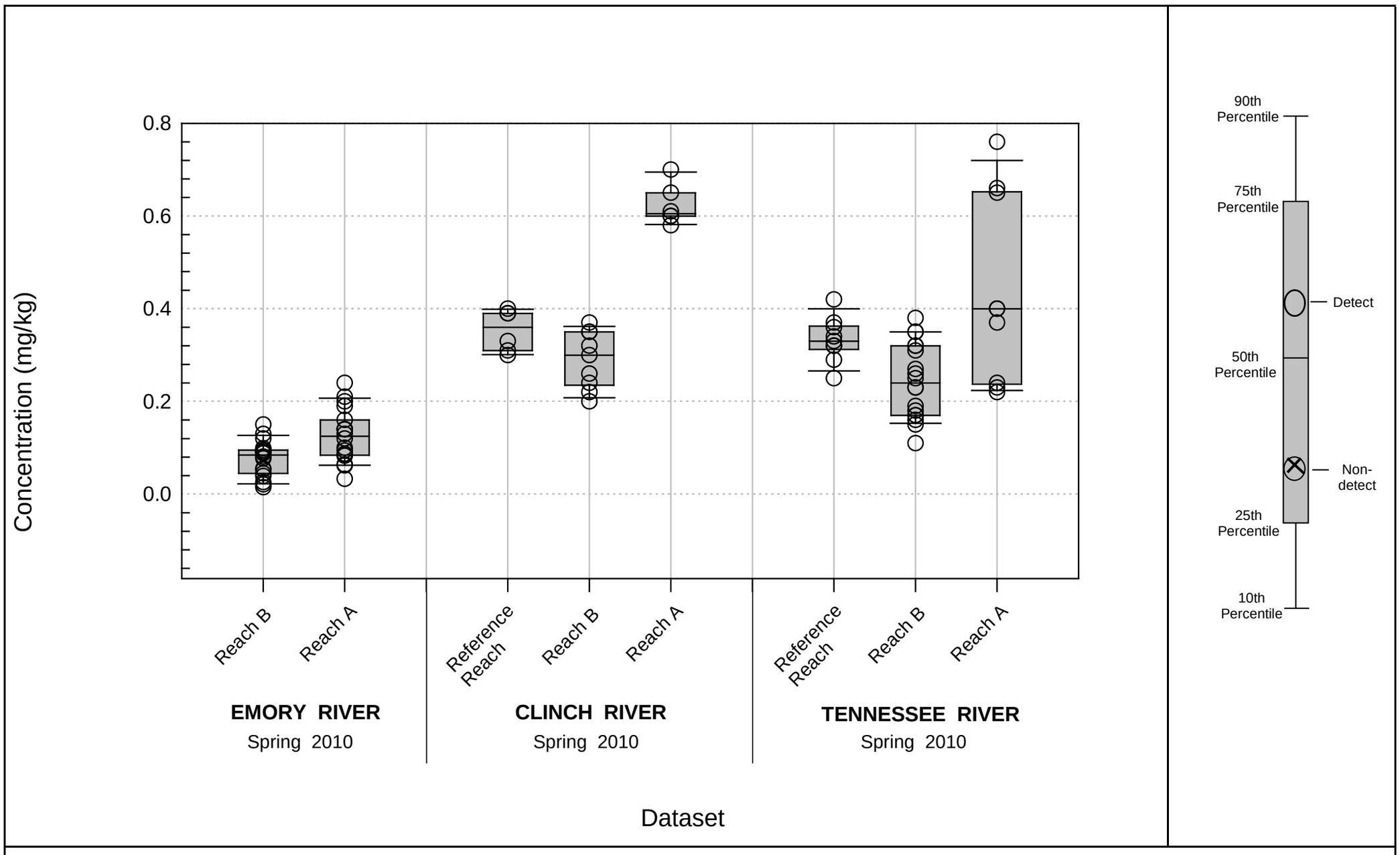
Mayfly Adult Whole Body Tissue
Boron
Site, City, State

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-B	mg/kg	0	18	18	NA	NA	0.48	2.30	1.30	1.20	0.59	0.79	1.20	1.70
ER-A	mg/kg	0	18	18	NA	NA	0.42	3.30	1.10	0.80	0.71	0.66	0.80	1.40
CR-R	mg/kg	0	6	6	NA	NA	0.44	0.77	0.53	0.50	0.12	0.44	0.50	0.53
CR-B	mg/kg	1	8	9	0.38	0.38	0.46	1.40	0.86	0.83	0.27	0.62	0.82	0.91
CR-A	mg/kg	1	5	6	0.40	0.40	0.48	0.78	0.68	0.74	0.13	0.48	0.69	0.77
TR-R	mg/kg	1	8	9	0.40	0.40	0.69	1.50	1.00	0.96	0.28	0.74	0.93	1.10
TR-B	mg/kg	14	4	18	0.40	0.44	0.44	0.66	0.55	0.55	0.09	0.42	0.43	0.44
TR-A	mg/kg	6	3	9	0.37	0.42	0.93	1.30	1.10	1.00	0.20	0.39	0.41	0.95

Notes:

-- = no data
A = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
mg/kg = milligram(s) per kilogram
NA = value not applicable due to frequency of detection
ND = non-detect
R = Reference Reach
TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.
Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.
Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

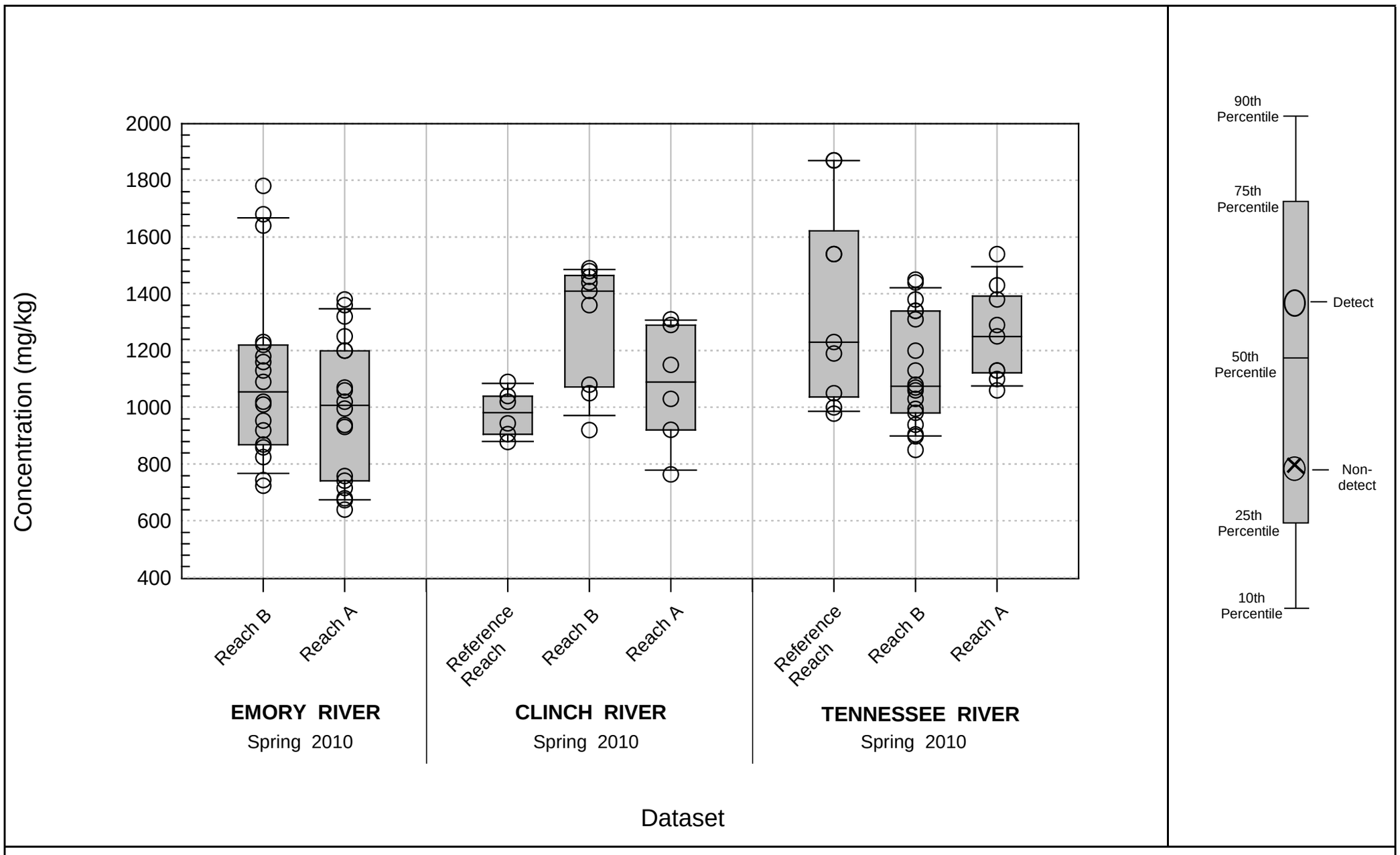
Mayfly Adult Whole Body Tissue
Cadmium
Site, City, State

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-B	mg/kg	0	18	18	NA	NA	0.015	0.15	0.076	0.084	0.038	0.045	0.084	0.095
ER-A	mg/kg	0	18	18	NA	NA	0.033	0.24	0.13	0.13	0.057	0.084	0.13	0.16
CR-R	mg/kg	0	6	6	NA	NA	0.30	0.40	0.35	0.36	0.045	0.31	0.36	0.39
CR-B	mg/kg	0	9	9	NA	NA	0.20	0.37	0.29	0.30	0.062	0.23	0.30	0.35
CR-A	mg/kg	0	6	6	NA	NA	0.58	0.70	0.62	0.61	0.044	0.60	0.61	0.65
TR-R	mg/kg	0	9	9	NA	NA	0.25	0.42	0.33	0.33	0.048	0.31	0.33	0.36
TR-B	mg/kg	0	18	18	NA	NA	0.11	0.38	0.24	0.24	0.08	0.17	0.24	0.32
TR-A	mg/kg	0	9	9	NA	NA	0.22	0.76	0.44	0.40	0.20	0.24	0.40	0.65

Notes:

-- = no data
A = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
mg/kg = milligram(s) per kilogram
NA = value not applicable due to frequency of detection
ND = non-detect
R = Reference Reach
TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.
Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.
Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

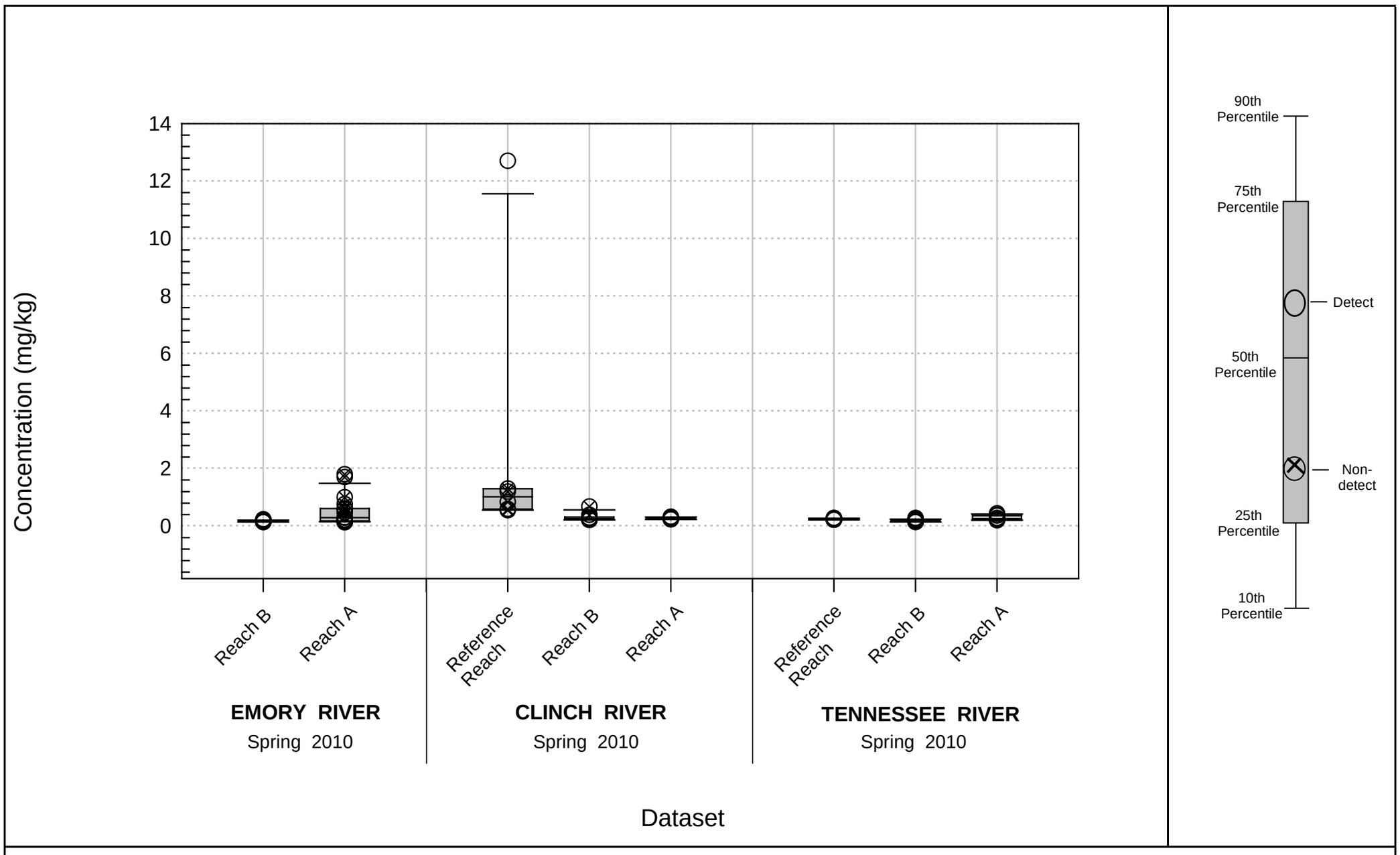
Mayfly Adult Whole Body Tissue
Calcium
Site, City, State

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-B	mg/kg	0	18	18	NA	NA	724.00	1780.00	1110.00	1060.00	312.00	869.00	1060.00	1220.00
ER-A	mg/kg	0	18	18	NA	NA	640.00	1380.00	996.00	1010.00	252.00	742.00	1010.00	1200.00
CR-R	mg/kg	0	6	6	NA	NA	878.00	1090.00	980.00	982.00	83.00	906.00	982.00	1040.00
CR-B	mg/kg	0	9	9	NA	NA	920.00	1490.00	1300.00	1410.00	219.00	1070.00	1410.00	1470.00
CR-A	mg/kg	0	6	6	NA	NA	764.00	1310.00	1080.00	1090.00	214.00	921.00	1090.00	1290.00
TR-R	mg/kg	0	9	9	NA	NA	978.00	1870.00	1360.00	1230.00	354.00	1040.00	1230.00	1620.00
TR-B	mg/kg	0	18	18	NA	NA	850.00	1450.00	1130.00	1080.00	198.00	981.00	1080.00	1340.00
TR-A	mg/kg	0	9	9	NA	NA	1060.00	1540.00	1260.00	1250.00	167.00	1120.00	1250.00	1390.00

Notes:

-- = no data
A = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
mg/kg = milligram(s) per kilogram
NA = value not applicable due to frequency of detection
ND = non-detect
R = Reference Reach
TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.
Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.
Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

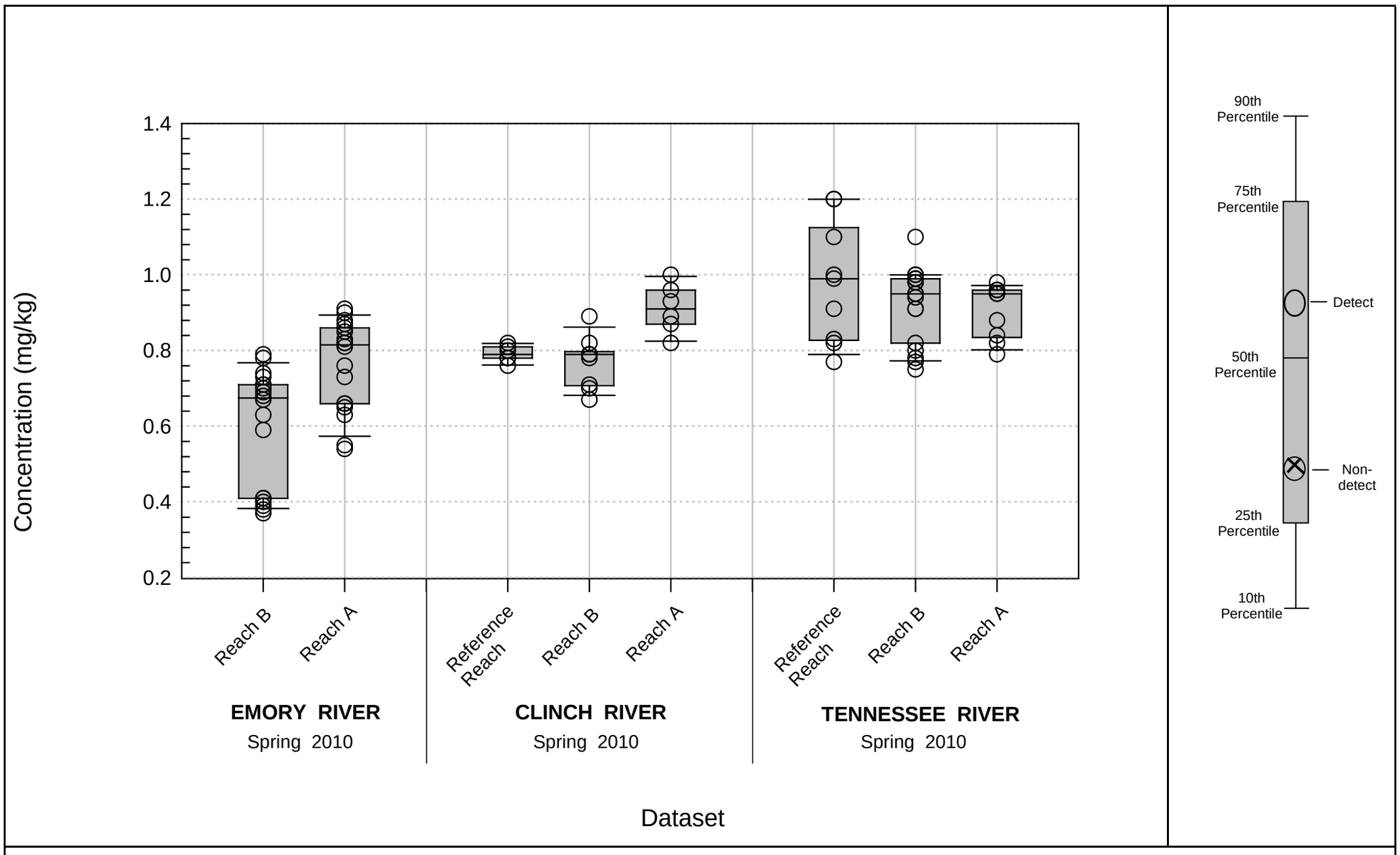
Mayfly Adult Whole Body Tissue
Chromium
Site, City, State

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-B	mg/kg	0	18	18	NA	NA	0.14	0.23	0.18	0.17	0.024	0.16	0.17	0.19
ER-A	mg/kg	9	9	18	0.30	1.80	0.13	0.29	0.19	0.18	0.048	0.18	0.29	0.61
CR-R	mg/kg	5	1	6	0.55	1.30	12.70	12.70	12.70	12.70	NA	0.59	1.00	1.30
CR-B	mg/kg	2	7	9	0.39	0.68	0.21	0.29	0.24	0.24	0.028	0.23	0.26	0.31
CR-A	mg/kg	0	6	6	NA	NA	0.23	0.32	0.26	0.25	0.033	0.24	0.25	0.28
TR-R	mg/kg	0	9	9	NA	NA	0.22	0.28	0.24	0.23	0.023	0.22	0.23	0.25
TR-B	mg/kg	0	18	18	NA	NA	0.14	0.28	0.20	0.21	0.038	0.16	0.21	0.22
TR-A	mg/kg	0	9	9	NA	NA	0.20	0.44	0.29	0.26	0.087	0.21	0.26	0.37

Notes:

-- = no data
A = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
mg/kg = milligram(s) per kilogram
NA = value not applicable due to frequency of detection
ND = non-detect
R = Reference Reach
TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.
Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.
Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

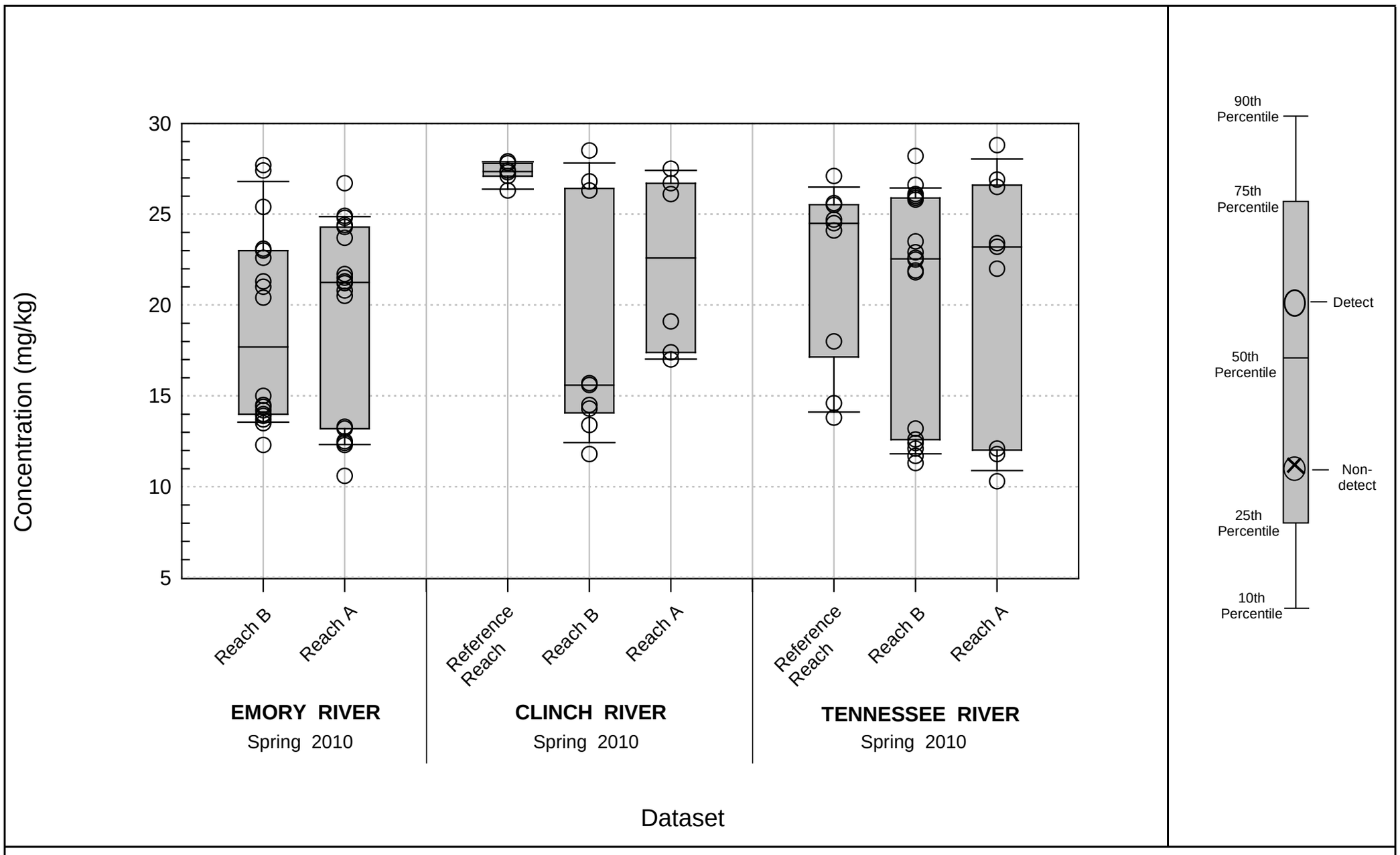
Mayfly Adult Whole Body Tissue
Cobalt
Site, City, State

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-B	mg/kg	0	18	18	NA	NA	0.37	0.79	0.60	0.68	0.16	0.41	0.68	0.71
ER-A	mg/kg	0	18	18	NA	NA	0.54	0.91	0.76	0.81	0.12	0.66	0.81	0.86
CR-R	mg/kg	0	6	6	NA	NA	0.76	0.82	0.79	0.79	0.022	0.78	0.79	0.81
CR-B	mg/kg	0	9	9	NA	NA	0.67	0.89	0.77	0.79	0.068	0.71	0.79	0.80
CR-A	mg/kg	0	6	6	NA	NA	0.82	1.00	0.91	0.91	0.065	0.87	0.91	0.96
TR-R	mg/kg	0	9	9	NA	NA	0.77	1.20	0.98	0.99	0.16	0.83	0.99	1.10
TR-B	mg/kg	0	18	18	NA	NA	0.75	1.10	0.92	0.95	0.098	0.82	0.95	0.99
TR-A	mg/kg	0	9	9	NA	NA	0.79	0.98	0.90	0.95	0.072	0.83	0.95	0.96

Notes:

-- = no data
A = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
mg/kg = milligram(s) per kilogram
NA = value not applicable due to frequency of detection
ND = non-detect
R = Reference Reach
TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.
Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.
Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

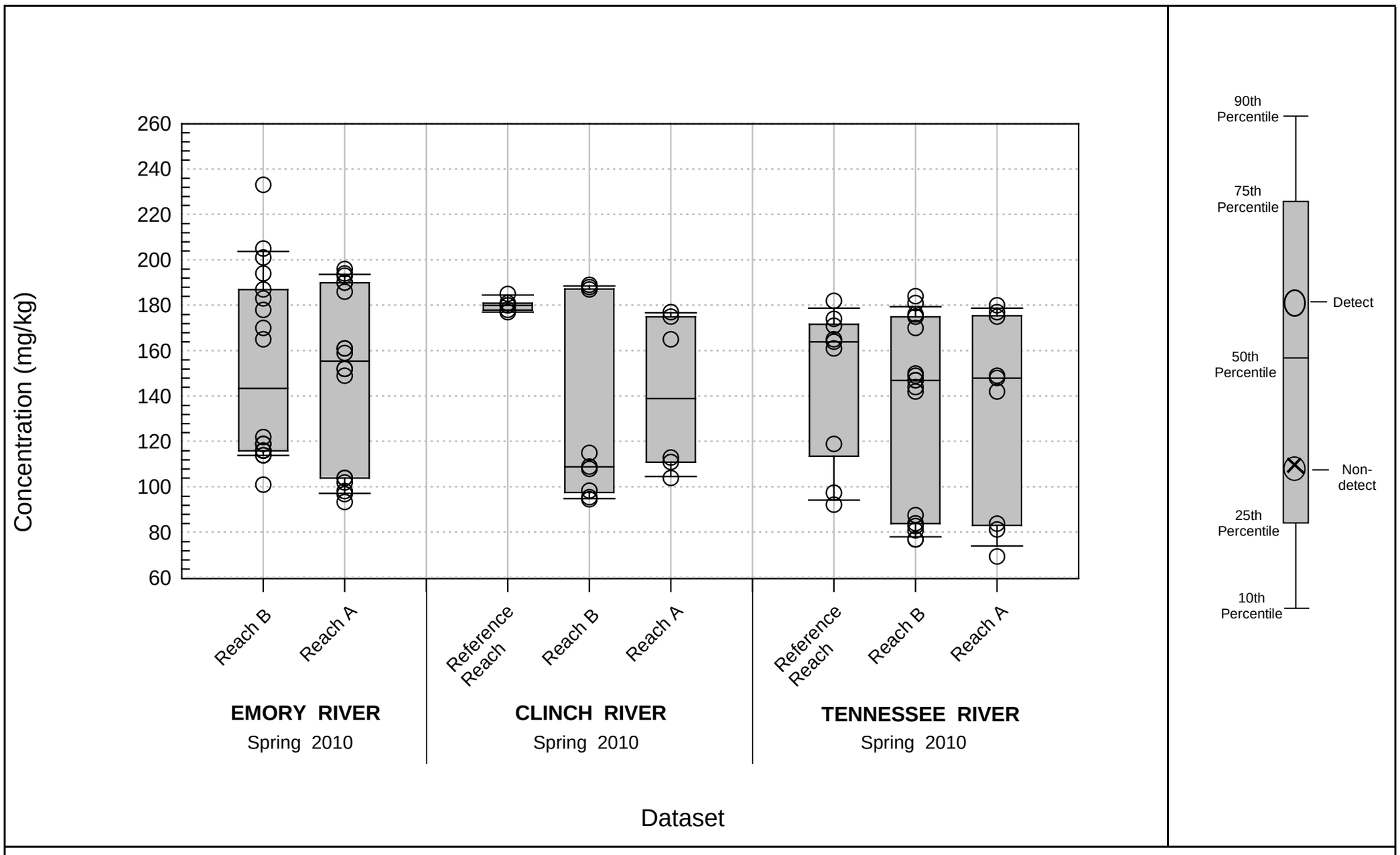
Mayfly Adult Whole Body Tissue
Copper
Site, City, State

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-B	mg/kg	0	18	18	NA	NA	12.30	27.70	18.70	17.70	5.30	14.00	17.70	23.00
ER-A	mg/kg	0	18	18	NA	NA	10.60	26.70	19.50	21.30	5.40	13.20	21.30	24.30
CR-R	mg/kg	0	6	6	NA	NA	26.30	27.90	27.30	27.40	0.58	27.10	27.40	27.80
CR-B	mg/kg	0	9	9	NA	NA	11.80	28.50	18.50	15.60	6.60	14.10	15.60	26.40
CR-A	mg/kg	0	6	6	NA	NA	17.00	27.50	22.30	22.60	5.00	17.40	22.60	26.70
TR-R	mg/kg	0	9	9	NA	NA	13.80	27.10	22.00	24.50	5.10	17.10	24.50	25.50
TR-B	mg/kg	0	18	18	NA	NA	11.30	28.20	20.40	22.50	6.20	12.60	22.50	25.90
TR-A	mg/kg	0	9	9	NA	NA	10.30	28.80	20.60	23.20	7.20	12.00	23.20	26.60

Notes:

-- = no data
A = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
mg/kg = milligram(s) per kilogram
NA = value not applicable due to frequency of detection
ND = non-detect
R = Reference Reach
TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.
Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.
Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

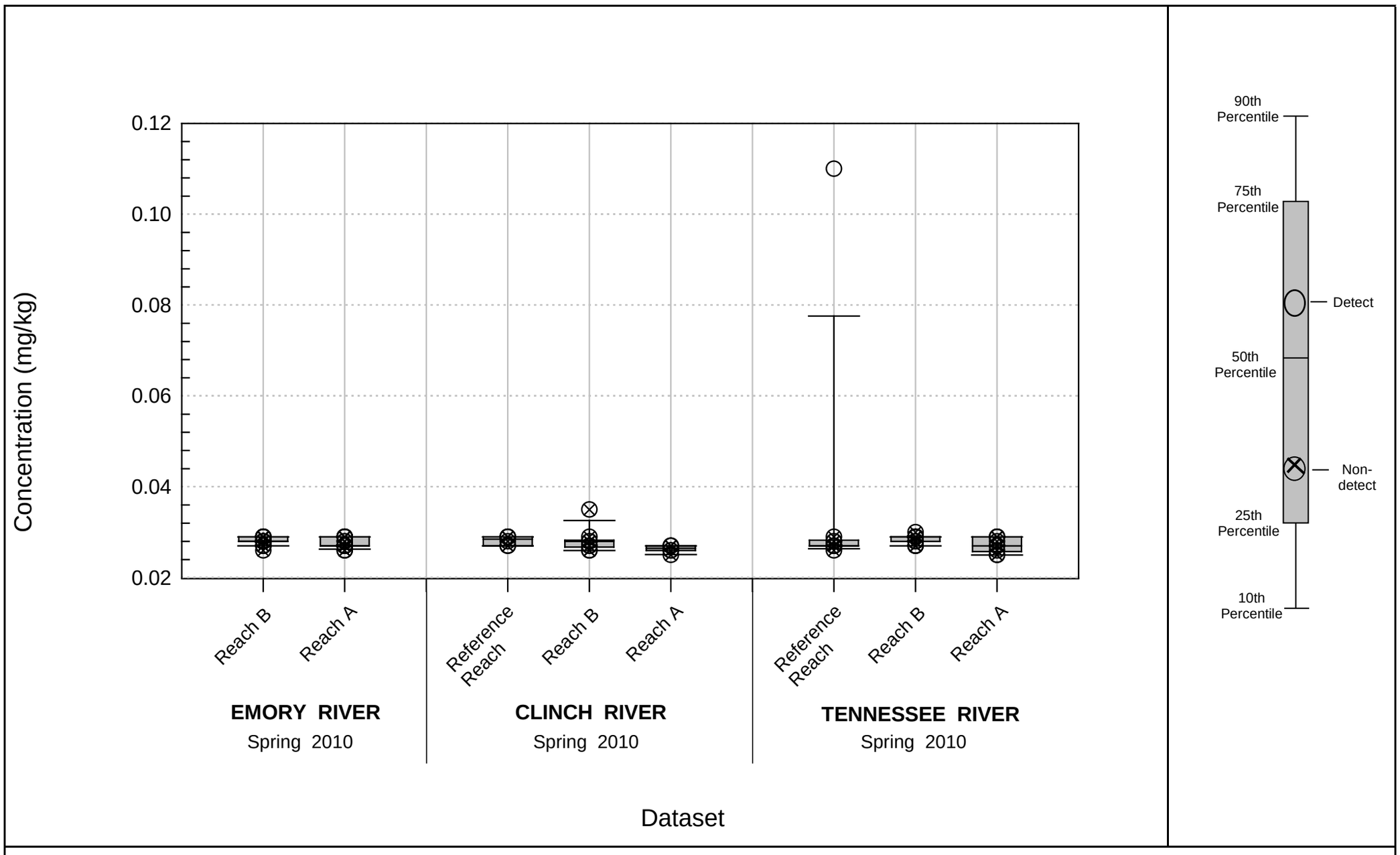
Mayfly Adult Whole Body Tissue
Iron
Site, City, State

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-B	mg/kg	0	18	18	NA	NA	101.00	233.00	153.00	144.00	41.50	116.00	144.00	187.00
ER-A	mg/kg	0	18	18	NA	NA	93.40	196.00	149.00	156.00	39.10	104.00	156.00	190.00
CR-R	mg/kg	0	6	6	NA	NA	177.00	185.00	180.00	180.00	2.80	178.00	180.00	181.00
CR-B	mg/kg	0	9	9	NA	NA	94.60	189.00	132.00	109.00	42.80	97.70	109.00	187.00
CR-A	mg/kg	0	6	6	NA	NA	104.00	177.00	141.00	139.00	34.90	111.00	139.00	175.00
TR-R	mg/kg	0	9	9	NA	NA	92.20	182.00	147.00	164.00	34.60	114.00	164.00	172.00
TR-B	mg/kg	0	18	18	NA	NA	76.90	184.00	135.00	147.00	41.10	84.00	147.00	175.00
TR-A	mg/kg	0	9	9	NA	NA	69.40	180.00	134.00	148.00	44.10	83.30	148.00	176.00

Notes:

-- = no data
A = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
mg/kg = milligram(s) per kilogram
NA = value not applicable due to frequency of detection
ND = non-detect
R = Reference Reach
TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.
Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.
Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

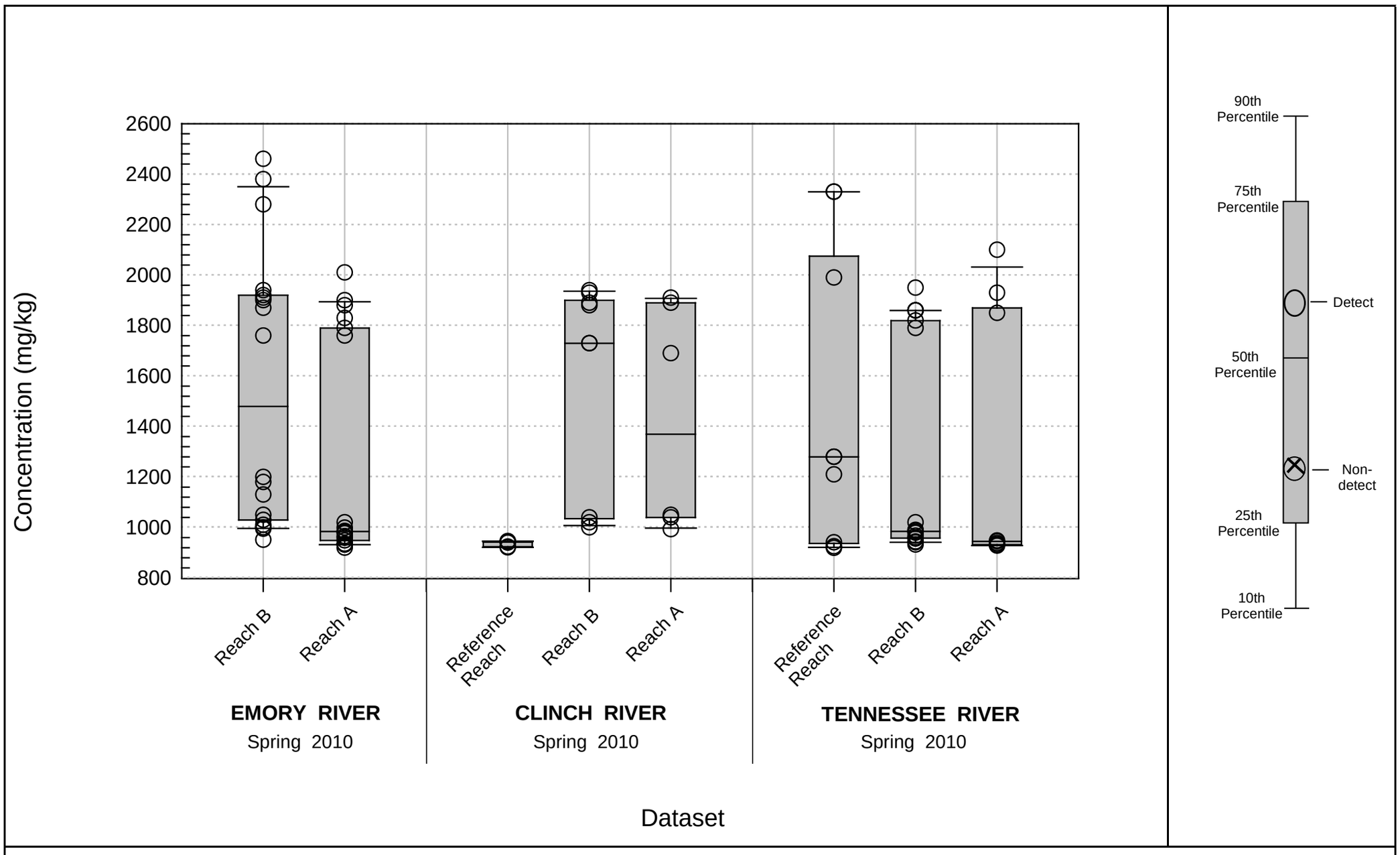
Mayfly Adult Whole Body Tissue
Lead
Site, City, State

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-B	mg/kg	18	0	18	0.026	0.029	ND	ND	ND	ND	ND	0.028	0.028	0.029
ER-A	mg/kg	18	0	18	0.026	0.029	ND	ND	ND	ND	ND	0.027	0.027	0.029
CR-R	mg/kg	6	0	6	0.027	0.029	ND	ND	ND	ND	ND	0.027	0.029	0.029
CR-B	mg/kg	9	0	9	0.026	0.035	ND	ND	ND	ND	ND	0.027	0.028	0.028
CR-A	mg/kg	6	0	6	0.025	0.027	ND	ND	ND	ND	ND	0.026	0.026	0.027
TR-R	mg/kg	8	1	9	0.026	0.029	0.11	0.11	0.11	0.11	NA	0.027	0.027	0.028
TR-B	mg/kg	18	0	18	0.027	0.03	ND	ND	ND	ND	ND	0.028	0.029	0.029
TR-A	mg/kg	9	0	9	0.025	0.029	ND	ND	ND	ND	ND	0.026	0.027	0.029

Notes:

-- = no data
A = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
mg/kg = milligram(s) per kilogram
NA = value not applicable due to frequency of detection
ND = non-detect
R = Reference Reach
TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.
Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.
Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

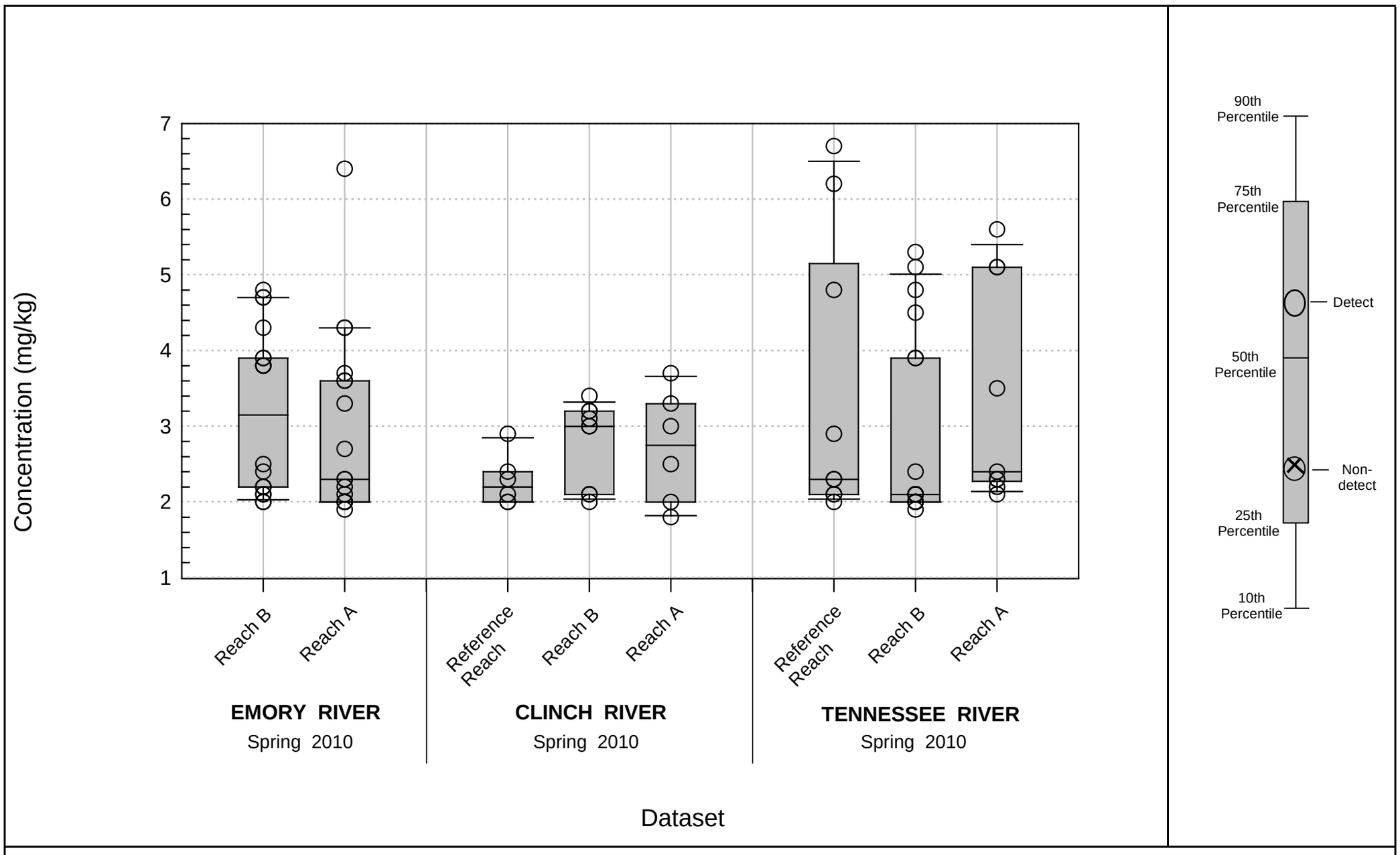
Mayfly Adult Whole Body Tissue
Magnesium
Site, City, State

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-B	mg/kg	0	18	18	NA	NA	951.00	2460.00	1550.00	1480.00	540.00	1030.00	1480.00	1920.00
ER-A	mg/kg	0	18	18	NA	NA	920.00	2010.00	1260.00	984.00	439.00	949.00	984.00	1790.00
CR-R	mg/kg	0	6	6	NA	NA	921.00	946.00	937.00	942.00	11.10	924.00	942.00	944.00
CR-B	mg/kg	0	9	9	NA	NA	1000.00	1940.00	1570.00	1730.00	422.00	1040.00	1730.00	1900.00
CR-A	mg/kg	0	6	6	NA	NA	993.00	1910.00	1430.00	1370.00	447.00	1040.00	1370.00	1890.00
TR-R	mg/kg	0	9	9	NA	NA	919.00	2330.00	1470.00	1280.00	588.00	937.00	1280.00	2080.00
TR-B	mg/kg	0	18	18	NA	NA	932.00	1950.00	1260.00	985.00	433.00	958.00	985.00	1820.00
TR-A	mg/kg	0	9	9	NA	NA	928.00	2100.00	1280.00	945.00	516.00	932.00	945.00	1870.00

Notes:

-- = no data
A = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
mg/kg = milligram(s) per kilogram
NA = value not applicable due to frequency of detection
ND = non-detect
R = Reference Reach
TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.
Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.
Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

Mayfly Adult Whole Body Tissue
Manganese
Site, City, State

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-B	mg/kg	0	18	18	NA	NA	2.00	4.80	3.20	3.20	1.10	2.20	3.20	3.90
ER-A	mg/kg	0	18	18	NA	NA	1.90	6.40	2.90	2.30	1.20	2.00	2.30	3.60
CR-R	mg/kg	0	6	6	NA	NA	2.00	2.90	2.30	2.20	0.34	2.00	2.20	2.40
CR-B	mg/kg	0	9	9	NA	NA	2.00	3.40	2.80	3.00	0.56	2.10	3.00	3.20
CR-A	mg/kg	0	6	6	NA	NA	1.80	3.70	2.70	2.80	0.75	2.00	2.80	3.30
TR-R	mg/kg	0	9	9	NA	NA	2.00	6.70	3.50	2.30	1.90	2.10	2.30	5.20
TR-B	mg/kg	0	18	18	NA	NA	1.90	5.30	2.90	2.10	1.30	2.00	2.10	3.90
TR-A	mg/kg	0	9	9	NA	NA	2.10	5.60	3.40	2.40	1.50	2.30	2.40	5.10

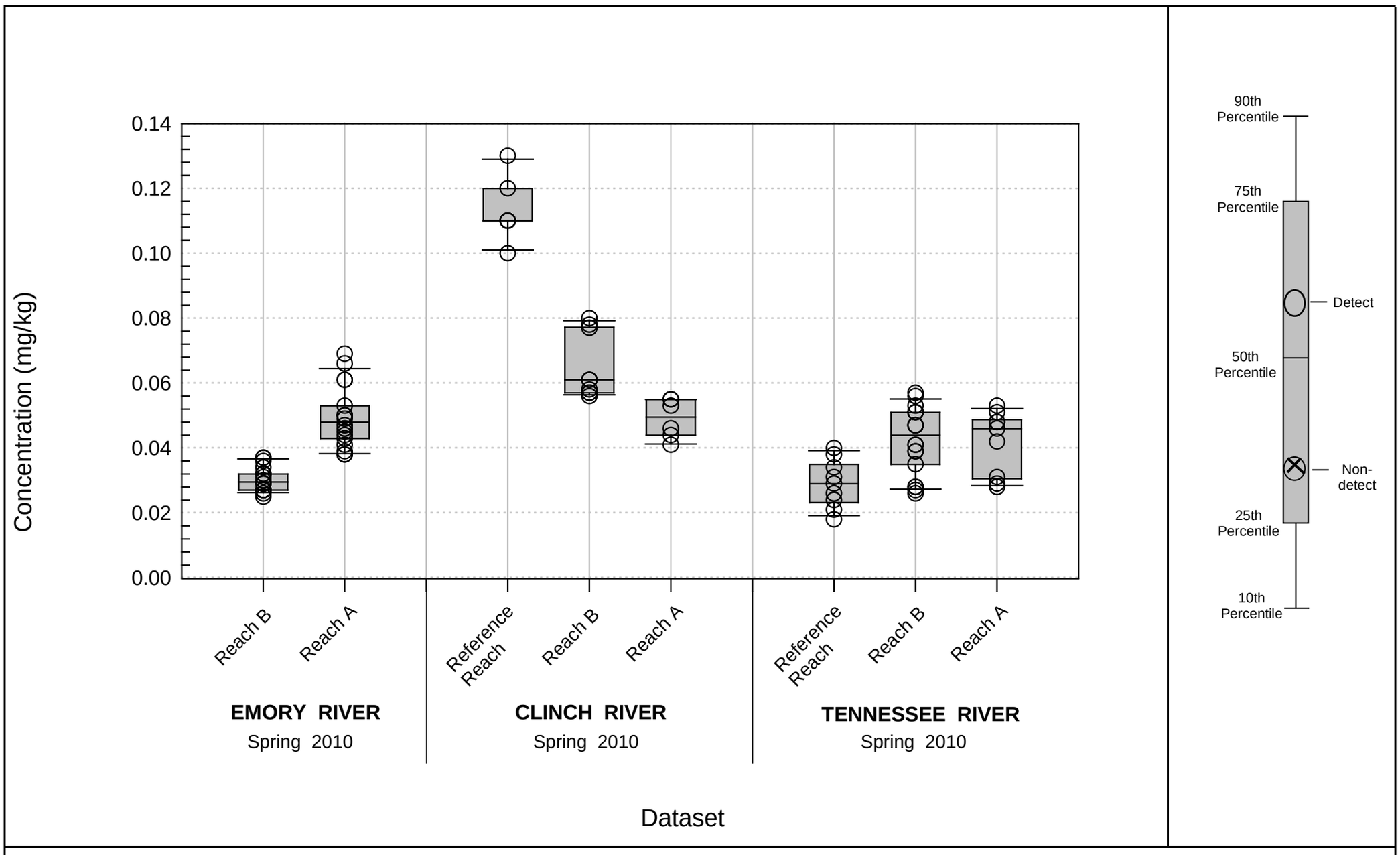
Notes:

--	= no data
A	= Reach A
B	= Reach B
C	= Reach C
CR	= Clinch River
ER	= Emory River
mg/kg	= milligram(s) per kilogram
NA	= value not applicable due to frequency of detection
ND	= non-detect
R	= Reference Reach
TR	= Tennessee River

Reporting limit is used for non-detects unless otherwise noted.

Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.

Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

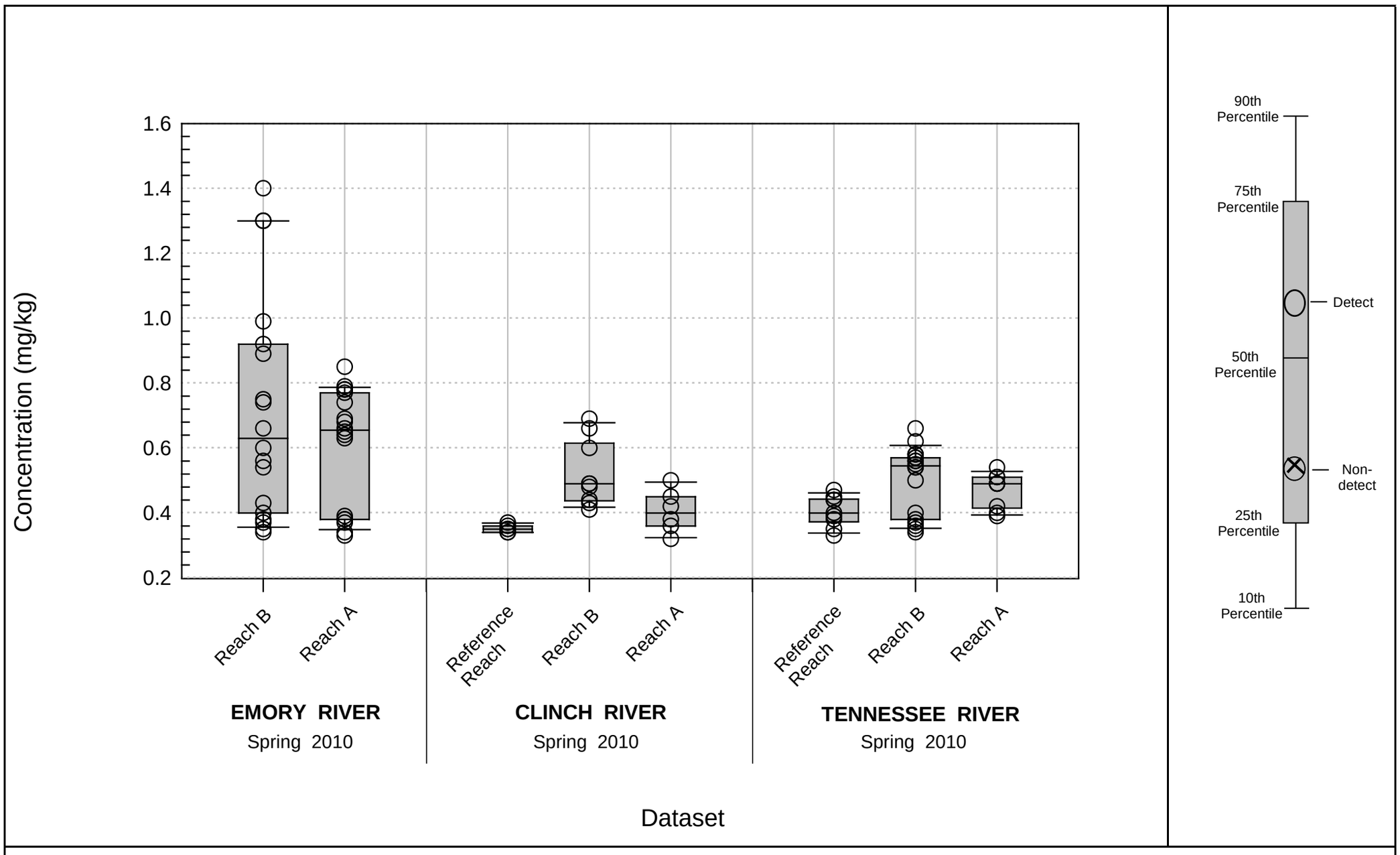
Mayfly Adult Whole Body Tissue
Mercury
Site, City, State

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-B	mg/kg	0	18	18	NA	NA	0.025	0.037	0.030	0.030	0.0038	0.027	0.030	0.032
ER-A	mg/kg	0	18	18	NA	NA	0.038	0.069	0.049	0.048	0.0094	0.043	0.048	0.053
CR-R	mg/kg	0	6	6	NA	NA	0.10	0.13	0.11	0.11	0.01	0.11	0.11	0.12
CR-B	mg/kg	0	9	9	NA	NA	0.056	0.08	0.065	0.061	0.01	0.057	0.061	0.077
CR-A	mg/kg	0	6	6	NA	NA	0.041	0.055	0.049	0.049	0.0061	0.044	0.049	0.055
TR-R	mg/kg	0	9	9	NA	NA	0.018	0.04	0.029	0.029	0.0075	0.023	0.029	0.035
TR-B	mg/kg	0	18	18	NA	NA	0.026	0.057	0.042	0.044	0.01	0.035	0.044	0.051
TR-A	mg/kg	0	9	9	NA	NA	0.028	0.053	0.042	0.046	0.0098	0.031	0.046	0.049

Notes:

-- = no data
A = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
mg/kg = milligram(s) per kilogram
NA = value not applicable due to frequency of detection
ND = non-detect
R = Reference Reach
TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.
Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.
Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

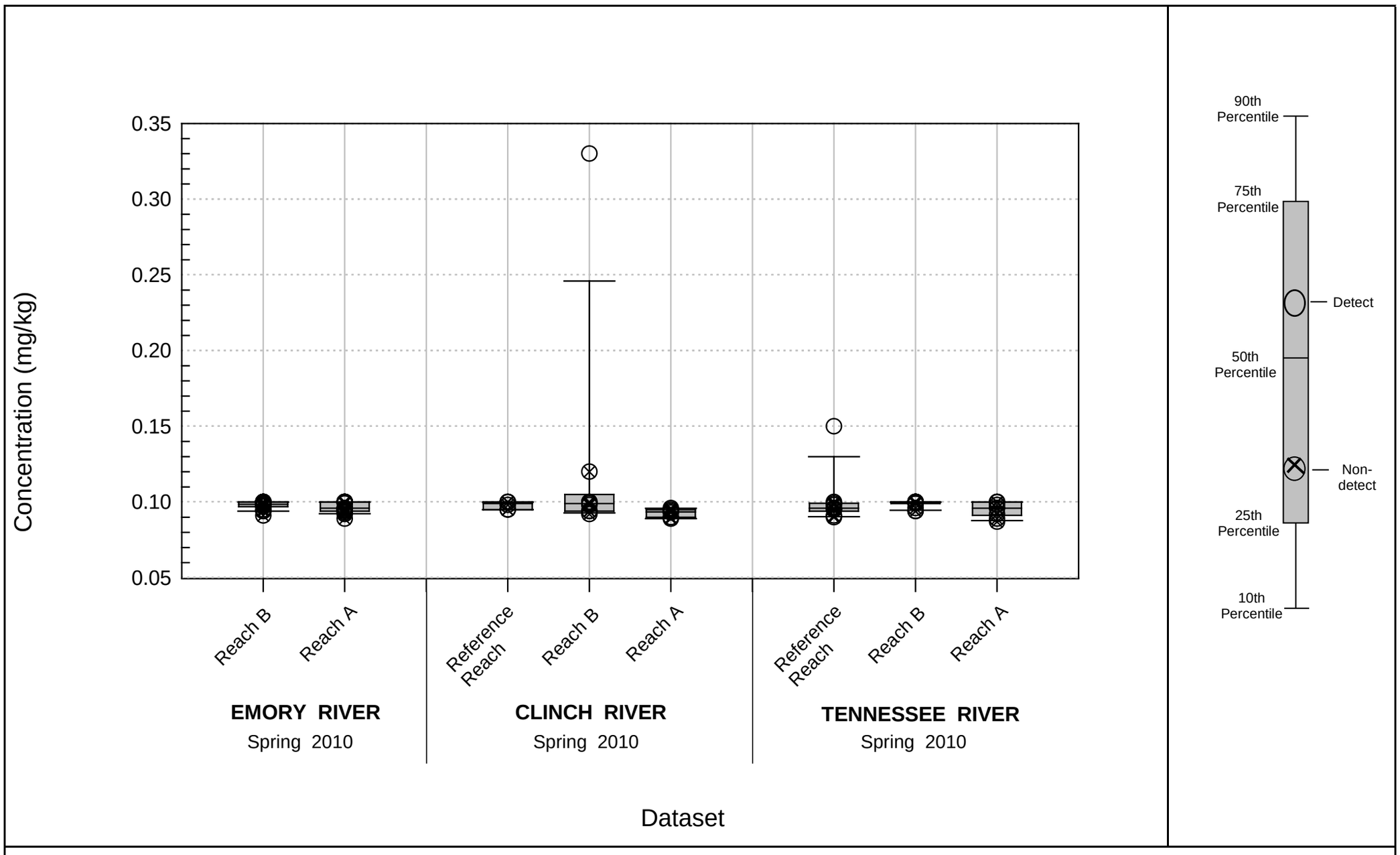
Mayfly Adult Whole Body Tissue
Molybdenum
Site, City, State

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-B	mg/kg	0	18	18	NA	NA	0.34	1.40	0.72	0.63	0.35	0.40	0.63	0.92
ER-A	mg/kg	0	18	18	NA	NA	0.33	0.85	0.60	0.65	0.18	0.38	0.65	0.77
CR-R	mg/kg	0	6	6	NA	NA	0.34	0.37	0.35	0.35	0.012	0.34	0.35	0.36
CR-B	mg/kg	0	9	9	NA	NA	0.41	0.69	0.52	0.49	0.10	0.44	0.49	0.62
CR-A	mg/kg	0	6	6	NA	NA	0.32	0.50	0.41	0.40	0.065	0.36	0.40	0.45
TR-R	mg/kg	0	9	9	NA	NA	0.33	0.47	0.41	0.40	0.048	0.37	0.40	0.44
TR-B	mg/kg	0	18	18	NA	NA	0.34	0.66	0.50	0.55	0.10	0.38	0.55	0.57
TR-A	mg/kg	0	9	9	NA	NA	0.39	0.54	0.47	0.49	0.054	0.41	0.49	0.51

Notes:

-- = no data
A = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
mg/kg = milligram(s) per kilogram
NA = value not applicable due to frequency of detection
ND = non-detect
R = Reference Reach
TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.
Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.
Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

Mayfly Adult Whole Body Tissue
Nickel
Site, City, State

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-B	mg/kg	18	0	18	0.091	0.10	ND	ND	ND	ND	ND	0.097	0.098	0.10
ER-A	mg/kg	17	1	18	0.089	0.10	0.10	0.10	0.10	0.10	NA	0.094	0.096	0.10
CR-R	mg/kg	6	0	6	0.095	0.10	ND	ND	ND	ND	ND	0.095	0.099	0.10
CR-B	mg/kg	8	1	9	0.092	0.12	0.33	0.33	0.33	0.33	NA	0.094	0.099	0.10
CR-A	mg/kg	6	0	6	0.089	0.096	ND	ND	ND	ND	ND	0.09	0.094	0.095
TR-R	mg/kg	8	1	9	0.09	0.10	0.15	0.15	0.15	0.15	NA	0.094	0.096	0.099
TR-B	mg/kg	18	0	18	0.094	0.10	ND	ND	ND	ND	ND	0.099	0.10	0.10
TR-A	mg/kg	9	0	9	0.087	0.10	ND	ND	ND	ND	ND	0.091	0.096	0.10

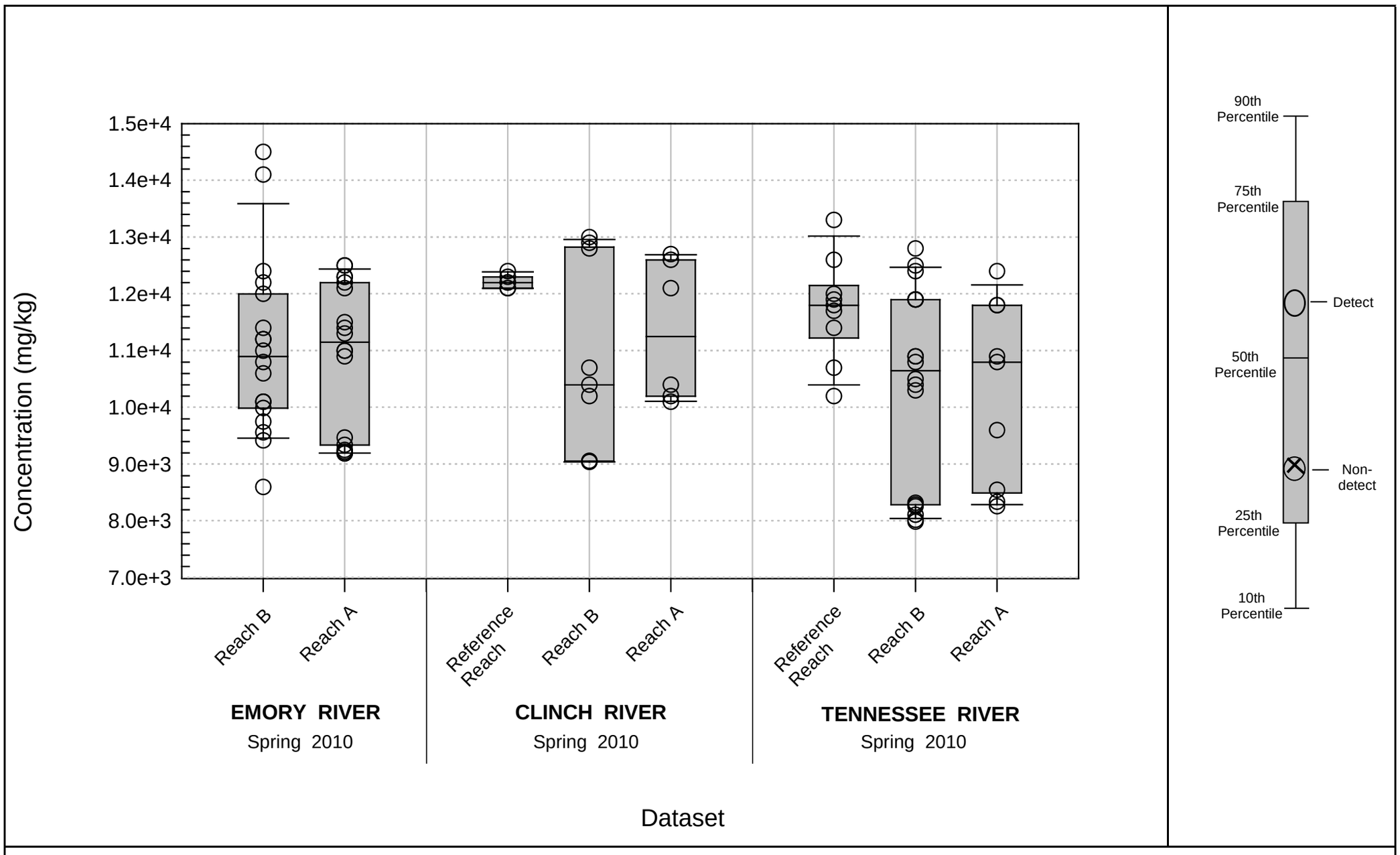
Notes:

--	= no data
A	= Reach A
B	= Reach B
C	= Reach C
CR	= Clinch River
ER	= Emory River
mg/kg	= milligram(s) per kilogram
NA	= value not applicable due to frequency of detection
ND	= non-detect
R	= Reference Reach
TR	= Tennessee River

Reporting limit is used for non-detects unless otherwise noted.

Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.

Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

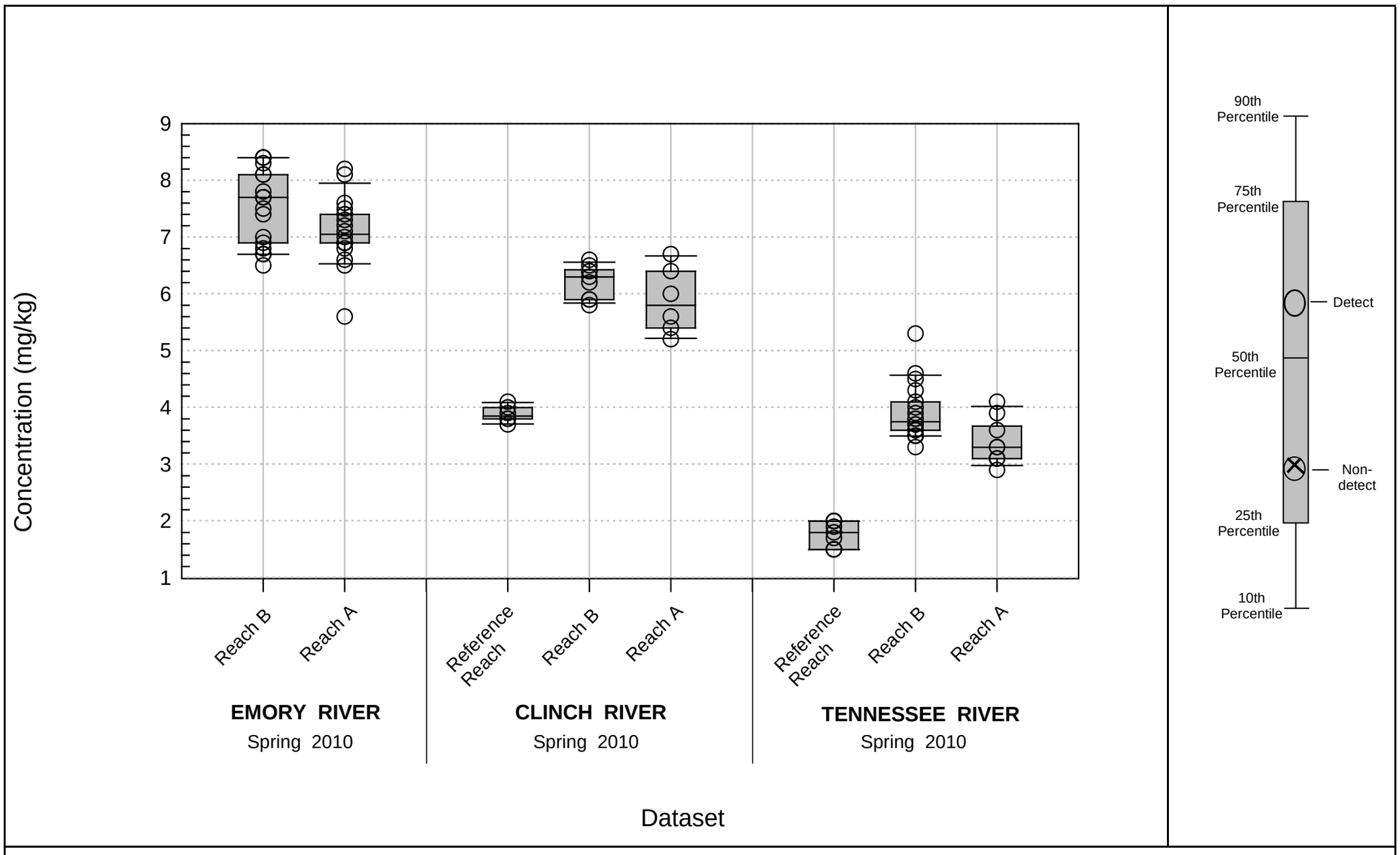
Mayfly Adult Whole Body Tissue
Potassium
Site, City, State

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-B	mg/kg	0	18	18	NA	NA	8600.00	14500.00	11100.00	10900.00	1560.00	9990.00	10900.00	12000.00
ER-A	mg/kg	0	18	18	NA	NA	9190.00	12500.00	10900.00	11200.00	1300.00	9340.00	11200.00	12200.00
CR-R	mg/kg	0	6	6	NA	NA	12100.00	12400.00	12200.00	12200.00	117.00	12100.00	12200.00	12300.00
CR-B	mg/kg	0	9	9	NA	NA	9040.00	13000.00	10800.00	10400.00	1690.00	9060.00	10400.00	12800.00
CR-A	mg/kg	0	6	6	NA	NA	10100.00	12700.00	11400.00	11300.00	1240.00	10200.00	11300.00	12600.00
TR-R	mg/kg	0	9	9	NA	NA	10200.00	13300.00	11700.00	11800.00	925.00	11200.00	11800.00	12200.00
TR-B	mg/kg	0	18	18	NA	NA	7990.00	12800.00	10300.00	10700.00	1740.00	8290.00	10700.00	11900.00
TR-A	mg/kg	0	9	9	NA	NA	8260.00	12400.00	10300.00	10800.00	1620.00	8500.00	10800.00	11800.00

Notes:

-- = no data
A = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
mg/kg = milligram(s) per kilogram
NA = value not applicable due to frequency of detection
ND = non-detect
R = Reference Reach
TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.
Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.
Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

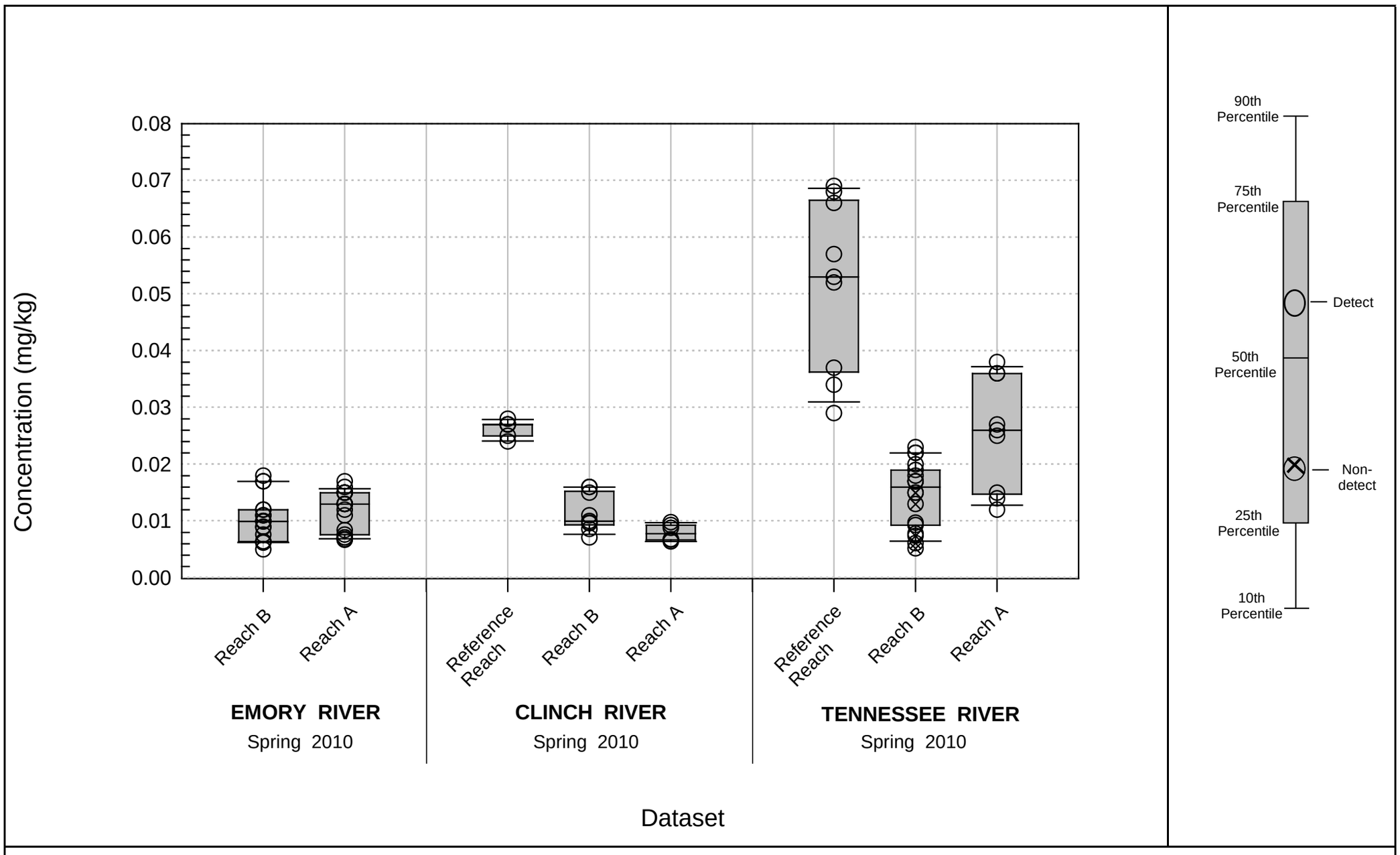
Mayfly Adult Whole Body Tissue
Selenium
Site, City, State

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-B	mg/kg	0	18	18	NA	NA	6.50	8.40	7.60	7.70	0.66	6.90	7.70	8.10
ER-A	mg/kg	0	18	18	NA	NA	5.60	8.20	7.10	7.10	0.59	6.90	7.10	7.40
CR-R	mg/kg	0	6	6	NA	NA	3.70	4.10	3.90	3.80	0.15	3.80	3.80	4.00
CR-B	mg/kg	0	9	9	NA	NA	5.80	6.60	6.20	6.30	0.29	5.90	6.30	6.40
CR-A	mg/kg	0	6	6	NA	NA	5.20	6.70	5.90	5.80	0.59	5.40	5.80	6.40
TR-R	mg/kg	0	9	9	NA	NA	1.50	2.00	1.80	1.80	0.22	1.50	1.80	2.00
TR-B	mg/kg	0	18	18	NA	NA	3.30	5.30	3.90	3.80	0.50	3.60	3.80	4.10
TR-A	mg/kg	0	9	9	NA	NA	2.90	4.10	3.40	3.30	0.41	3.10	3.30	3.70

Notes:

-- = no data
A = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
mg/kg = milligram(s) per kilogram
NA = value not applicable due to frequency of detection
ND = non-detect
R = Reference Reach
TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.
Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.
Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

Mayfly Adult Whole Body Tissue
Silver
Site, City, State

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-B	mg/kg	0	18	18	NA	NA	0.005	0.018	0.010	0.0099	0.0039	0.0064	0.0099	0.012
ER-A	mg/kg	0	18	18	NA	NA	0.0067	0.017	0.012	0.013	0.0036	0.0076	0.013	0.015
CR-R	mg/kg	0	6	6	NA	NA	0.024	0.028	0.026	0.027	0.0015	0.025	0.027	0.027
CR-B	mg/kg	0	9	9	NA	NA	0.0071	0.016	0.011	0.01	0.0034	0.0093	0.01	0.015
CR-A	mg/kg	0	6	6	NA	NA	0.0064	0.0098	0.008	0.0078	0.0015	0.0067	0.0078	0.0093
TR-R	mg/kg	0	9	9	NA	NA	0.029	0.069	0.052	0.053	0.015	0.036	0.053	0.067
TR-B	mg/kg	6	12	18	0.0052	0.015	0.0078	0.023	0.017	0.018	0.0052	0.0093	0.016	0.019
TR-A	mg/kg	0	9	9	NA	NA	0.012	0.038	0.025	0.026	0.01	0.015	0.026	0.036

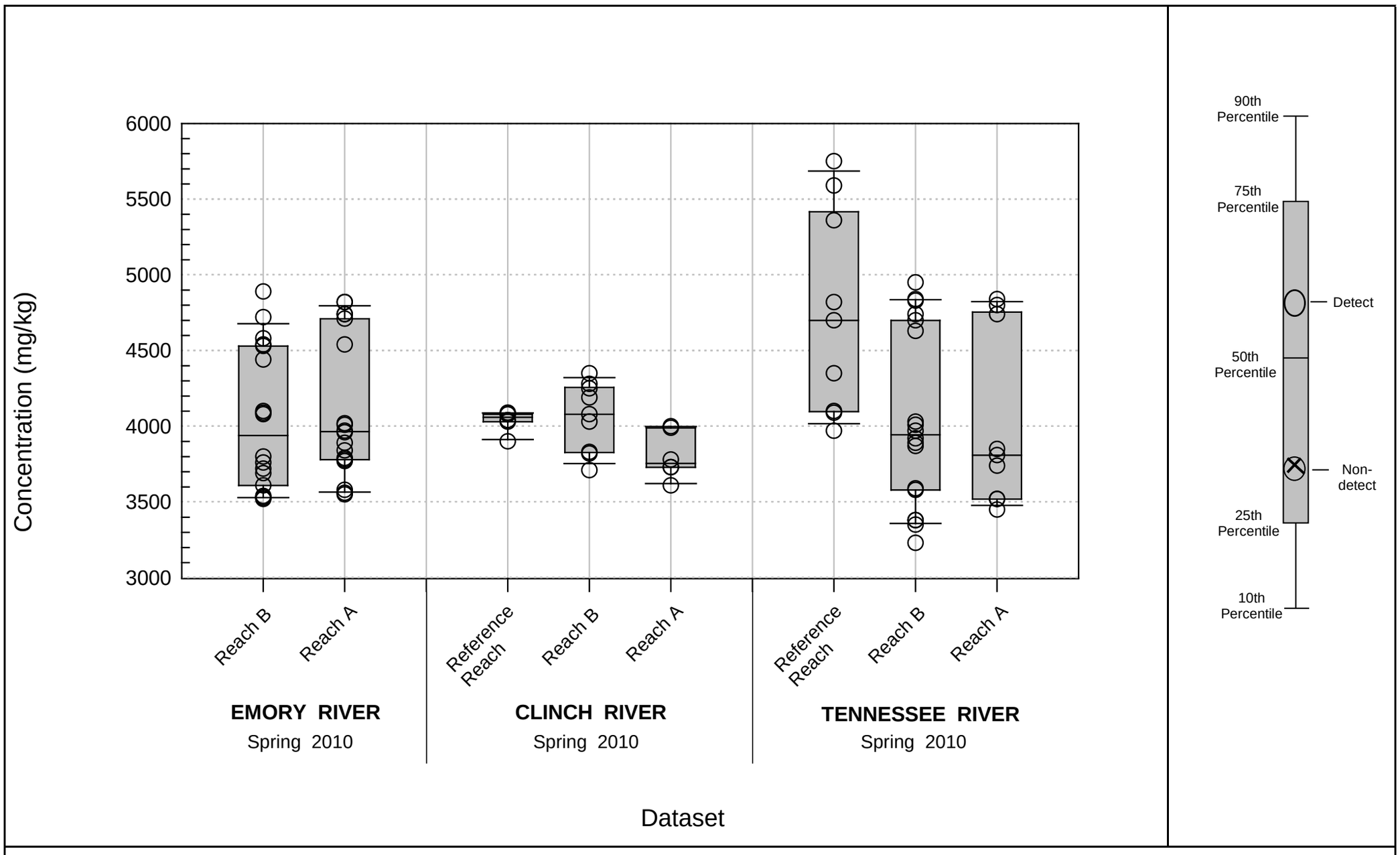
Notes:

--	= no data
A	= Reach A
B	= Reach B
C	= Reach C
CR	= Clinch River
ER	= Emory River
mg/kg	= milligram(s) per kilogram
NA	= value not applicable due to frequency of detection
ND	= non-detect
R	= Reference Reach
TR	= Tennessee River

Reporting limit is used for non-detects unless otherwise noted.

Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.

Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

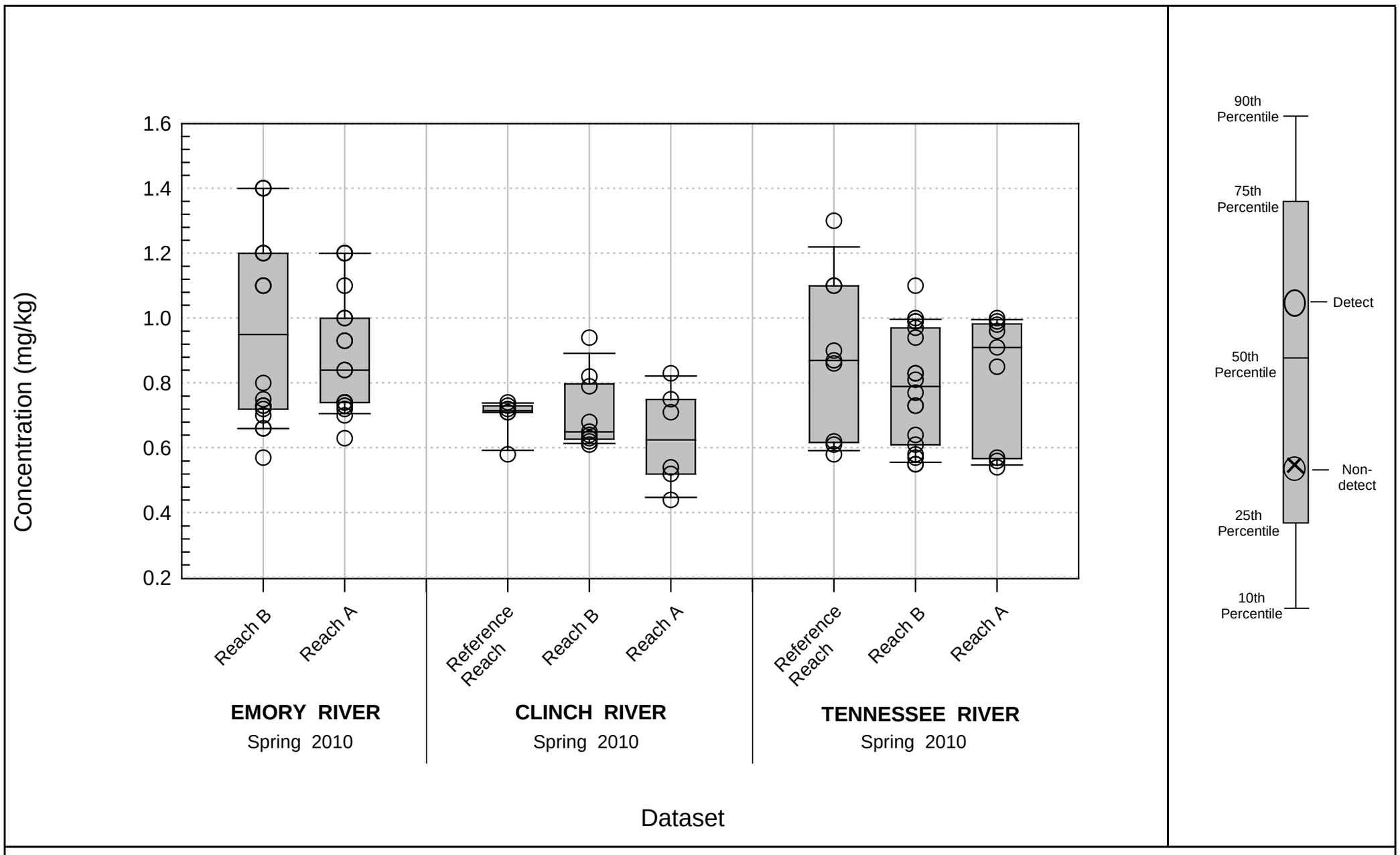
Mayfly Adult Whole Body Tissue
Sodium
Site, City, State

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-B	mg/kg	0	18	18	NA	NA	3520.00	4890.00	4040.00	3940.00	468.00	3610.00	3940.00	4530.00
ER-A	mg/kg	0	18	18	NA	NA	3550.00	4820.00	4120.00	3970.00	470.00	3780.00	3970.00	4710.00
CR-R	mg/kg	0	6	6	NA	NA	3900.00	4090.00	4040.00	4060.00	71.20	4030.00	4060.00	4080.00
CR-B	mg/kg	0	9	9	NA	NA	3710.00	4350.00	4060.00	4080.00	229.00	3830.00	4080.00	4260.00
CR-A	mg/kg	0	6	6	NA	NA	3610.00	4000.00	3810.00	3760.00	156.00	3730.00	3760.00	3990.00
TR-R	mg/kg	0	9	9	NA	NA	3970.00	5750.00	4750.00	4700.00	681.00	4100.00	4700.00	5420.00
TR-B	mg/kg	0	18	18	NA	NA	3230.00	4950.00	4050.00	3950.00	587.00	3580.00	3950.00	4700.00
TR-A	mg/kg	0	9	9	NA	NA	3450.00	4840.00	4030.00	3810.00	589.00	3520.00	3810.00	4760.00

Notes:

-- = no data
A = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
mg/kg = milligram(s) per kilogram
NA = value not applicable due to frequency of detection
ND = non-detect
R = Reference Reach
TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.
Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.
Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

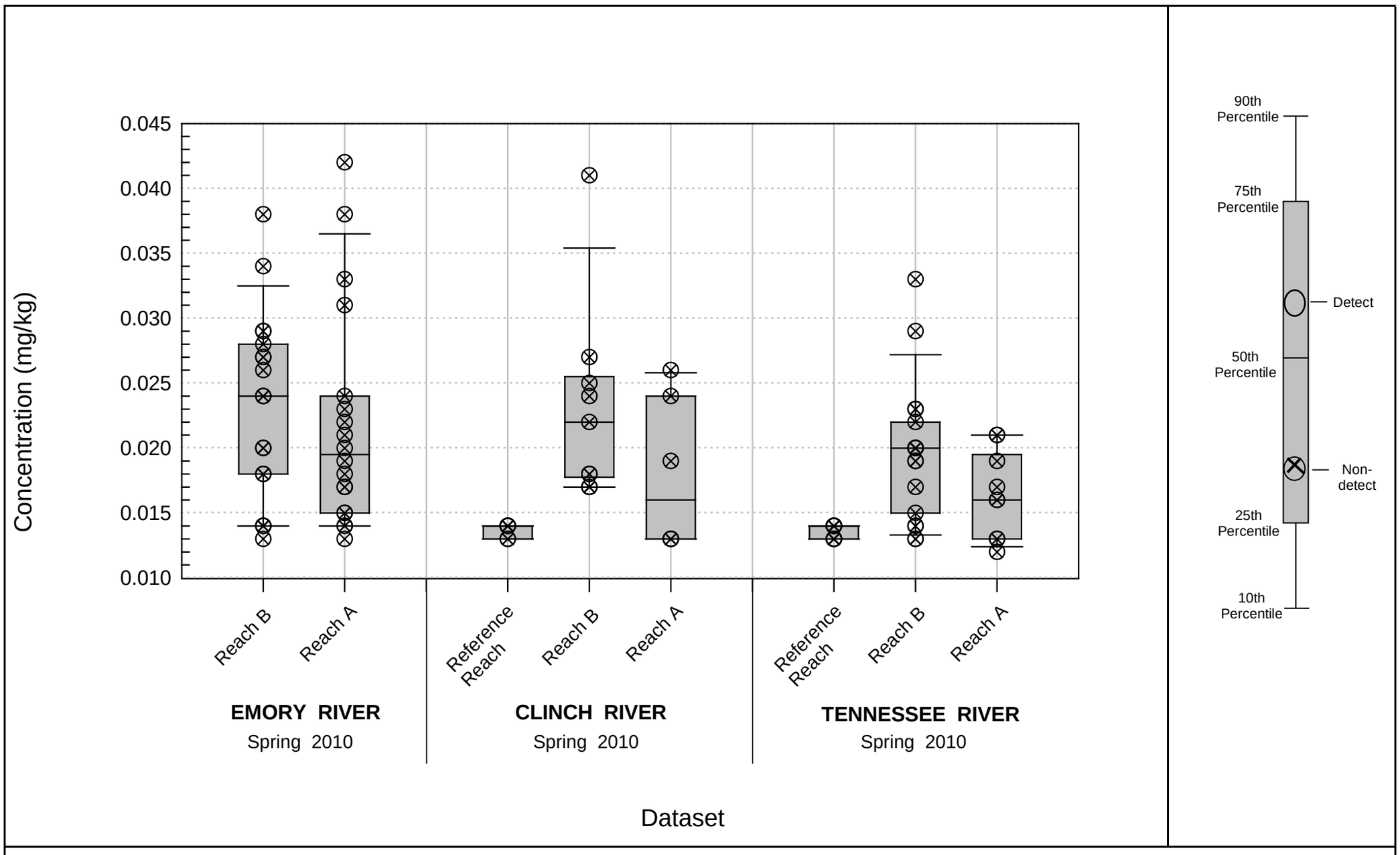
Mayfly Adult Whole Body Tissue
Strontium
Site, City, State

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-B	mg/kg	0	18	18	NA	NA	0.57	1.40	0.97	0.95	0.29	0.72	0.95	1.20
ER-A	mg/kg	0	18	18	NA	NA	0.63	1.20	0.89	0.84	0.19	0.74	0.84	1.00
CR-R	mg/kg	0	6	6	NA	NA	0.58	0.74	0.70	0.71	0.059	0.71	0.71	0.73
CR-B	mg/kg	0	9	9	NA	NA	0.61	0.94	0.71	0.65	0.11	0.63	0.65	0.80
CR-A	mg/kg	0	6	6	NA	NA	0.44	0.83	0.63	0.63	0.15	0.52	0.63	0.75
TR-R	mg/kg	0	9	9	NA	NA	0.58	1.30	0.88	0.87	0.25	0.62	0.87	1.10
TR-B	mg/kg	0	18	18	NA	NA	0.55	1.10	0.79	0.79	0.18	0.61	0.79	0.97
TR-A	mg/kg	0	9	9	NA	NA	0.54	1.00	0.82	0.91	0.20	0.57	0.91	0.98

Notes:

-- = no data
A = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
mg/kg = milligram(s) per kilogram
NA = value not applicable due to frequency of detection
ND = non-detect
R = Reference Reach
TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.
Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.
Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

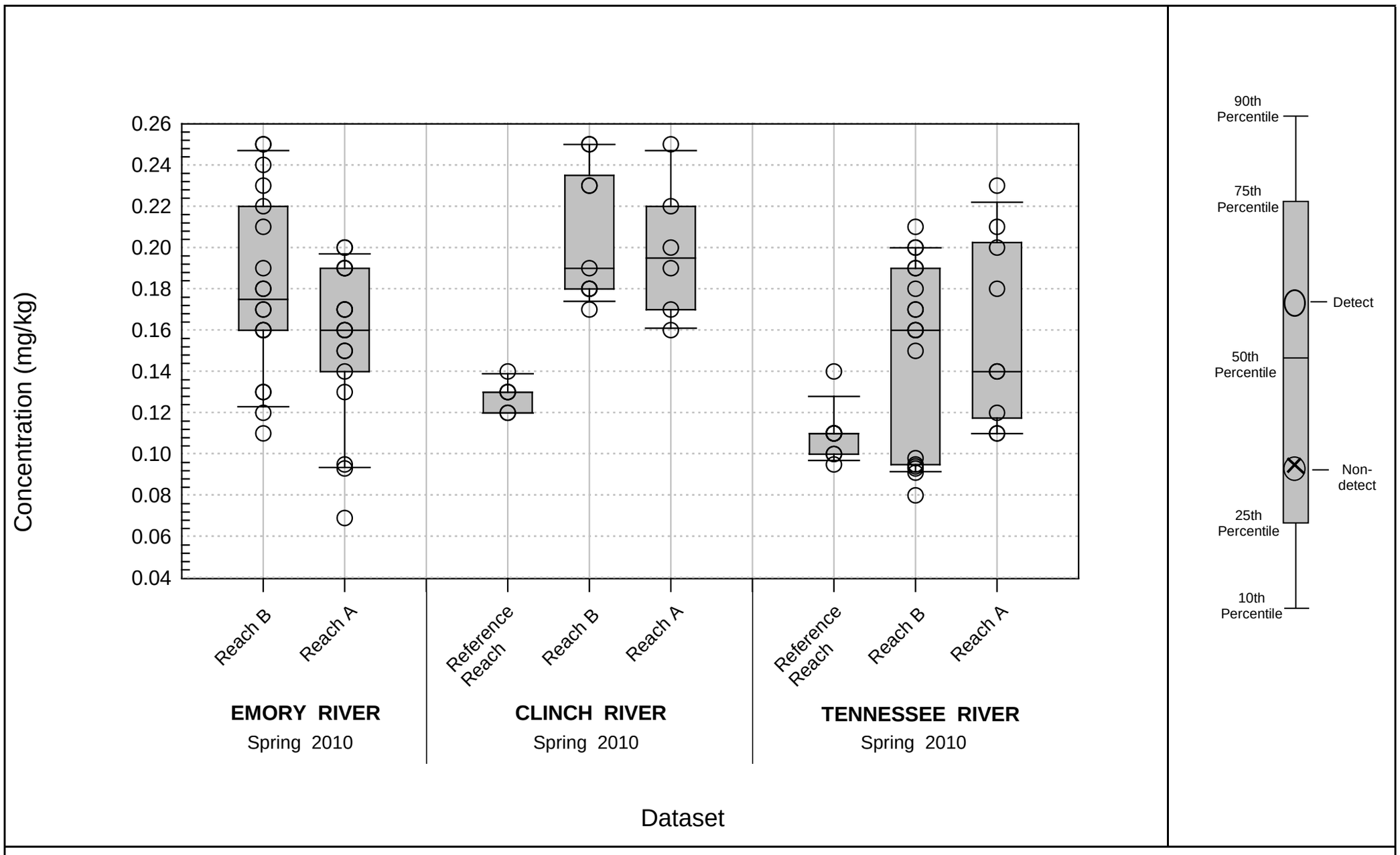
Mayfly Adult Whole Body Tissue
Thallium
Site, City, State

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-B	mg/kg	18	0	18	0.013	0.038	ND	ND	ND	ND	ND	0.018	0.024	0.028
ER-A	mg/kg	18	0	18	0.013	0.042	ND	ND	ND	ND	ND	0.015	0.02	0.024
CR-R	mg/kg	6	0	6	0.013	0.014	ND	ND	ND	ND	ND	0.013	0.014	0.014
CR-B	mg/kg	9	0	9	0.017	0.041	ND	ND	ND	ND	ND	0.018	0.022	0.025
CR-A	mg/kg	6	0	6	0.013	0.026	ND	ND	ND	ND	ND	0.013	0.016	0.024
TR-R	mg/kg	9	0	9	0.013	0.014	ND	ND	ND	ND	ND	0.013	0.014	0.014
TR-B	mg/kg	18	0	18	0.013	0.033	ND	ND	ND	ND	ND	0.015	0.02	0.022
TR-A	mg/kg	9	0	9	0.012	0.021	ND	ND	ND	ND	ND	0.013	0.016	0.02

Notes:

-- = no data
A = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
mg/kg = milligram(s) per kilogram
NA = value not applicable due to frequency of detection
ND = non-detect
R = Reference Reach
TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.
Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.
Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

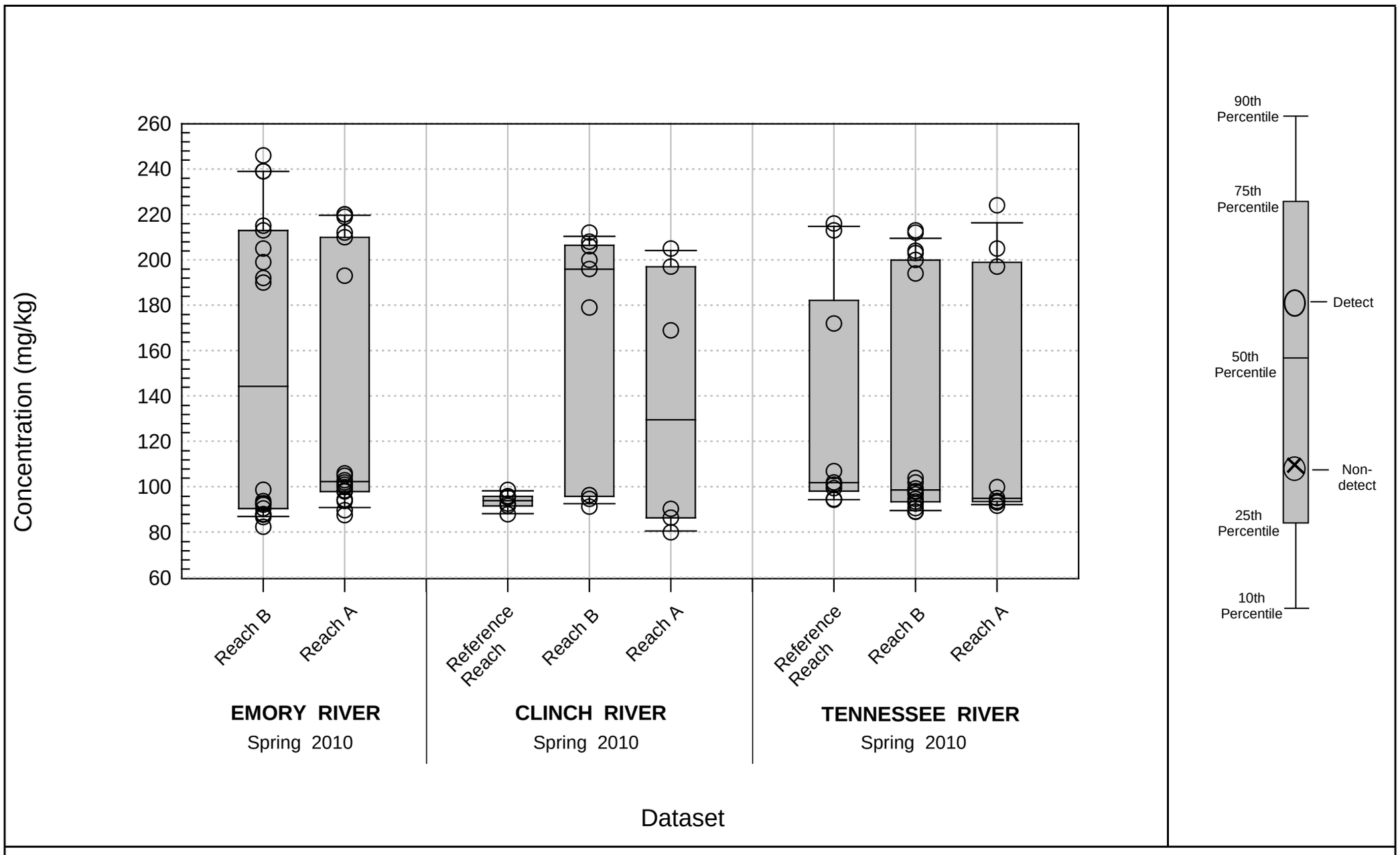
Mayfly Adult Whole Body Tissue
Vanadium
Site, City, State

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-B	mg/kg	0	18	18	NA	NA	0.11	0.25	0.18	0.17	0.044	0.16	0.17	0.22
ER-A	mg/kg	0	18	18	NA	NA	0.069	0.20	0.15	0.16	0.038	0.14	0.16	0.19
CR-R	mg/kg	0	6	6	NA	NA	0.12	0.14	0.13	0.13	0.0075	0.12	0.13	0.13
CR-B	mg/kg	0	9	9	NA	NA	0.17	0.25	0.21	0.19	0.033	0.18	0.19	0.23
CR-A	mg/kg	0	6	6	NA	NA	0.16	0.25	0.20	0.19	0.033	0.17	0.19	0.22
TR-R	mg/kg	0	9	9	NA	NA	0.095	0.14	0.11	0.11	0.013	0.10	0.11	0.11
TR-B	mg/kg	0	18	18	NA	NA	0.08	0.21	0.15	0.16	0.045	0.095	0.16	0.19
TR-A	mg/kg	0	9	9	NA	NA	0.11	0.23	0.16	0.14	0.046	0.12	0.14	0.20

Notes:

-- = no data
A = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
mg/kg = milligram(s) per kilogram
NA = value not applicable due to frequency of detection
ND = non-detect
R = Reference Reach
TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.
Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.
Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

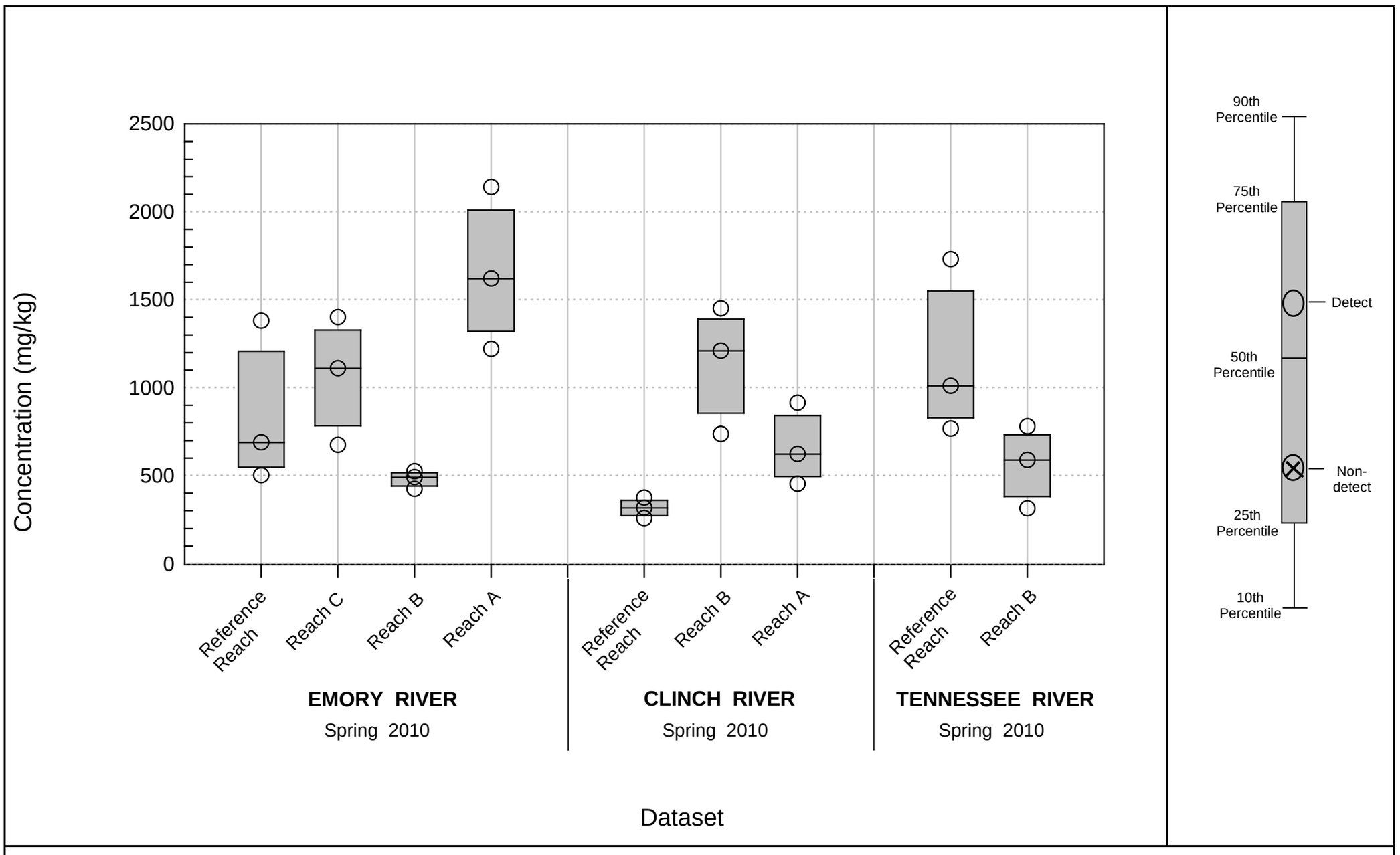
Mayfly Adult Whole Body Tissue
Zinc
Site, City, State

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-B	mg/kg	0	18	18	NA	NA	82.50	246.00	153.00	144.00	66.00	90.60	144.00	213.00
ER-A	mg/kg	0	18	18	NA	NA	87.60	220.00	136.00	103.00	55.80	98.10	103.00	210.00
CR-R	mg/kg	0	6	6	NA	NA	88.00	98.70	93.80	94.10	3.70	91.80	94.10	96.00
CR-B	mg/kg	0	9	9	NA	NA	91.40	212.00	165.00	196.00	53.80	96.00	196.00	207.00
CR-A	mg/kg	0	6	6	NA	NA	80.10	205.00	138.00	130.00	58.70	86.50	130.00	197.00
TR-R	mg/kg	0	9	9	NA	NA	94.40	216.00	133.00	102.00	51.90	98.30	102.00	182.00
TR-B	mg/kg	0	18	18	NA	NA	89.10	213.00	132.00	98.80	53.00	93.60	98.80	200.00
TR-A	mg/kg	0	9	9	NA	NA	91.80	224.00	133.00	95.10	57.50	93.70	95.10	199.00

Notes:

-- = no data
A = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
mg/kg = milligram(s) per kilogram
NA = value not applicable due to frequency of detection
ND = non-detect
R = Reference Reach
TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.
Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.
Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

Mayfly Nymph Whole Body Tissue Without Gut or Gut Contents
Aluminum
TVA Kingston

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-R	mg/kg	0	3	3	NA	NA	502.00	1380.00	857.00	689.00	462.00	549.00	689.00	1210.00
ER-C	mg/kg	0	3	3	NA	NA	675.00	1400.00	1060.00	1110.00	365.00	784.00	1110.00	1330.00
ER-B	mg/kg	0	3	3	NA	NA	424.00	525.00	480.00	491.00	51.40	441.00	491.00	517.00
ER-A	mg/kg	0	3	3	NA	NA	1220.00	2140.00	1660.00	1620.00	461.00	1320.00	1620.00	2010.00
CR-R	mg/kg	0	3	3	NA	NA	258.00	374.00	316.00	316.00	58.00	273.00	316.00	360.00
CR-B	mg/kg	0	3	3	NA	NA	737.00	1450.00	1130.00	1210.00	363.00	855.00	1210.00	1390.00
CR-A	mg/kg	0	3	3	NA	NA	453.00	914.00	663.00	623.00	233.00	496.00	623.00	841.00
TR-R	mg/kg	0	3	3	NA	NA	767.00	1730.00	1170.00	1010.00	501.00	828.00	1010.00	1550.00
TR-B	mg/kg	0	3	3	NA	NA	313.00	780.00	561.00	589.00	235.00	382.00	589.00	732.00

Notes:

† Result value is < 25th percentile - 3*IQR or > 75th percentile + 3*IQR

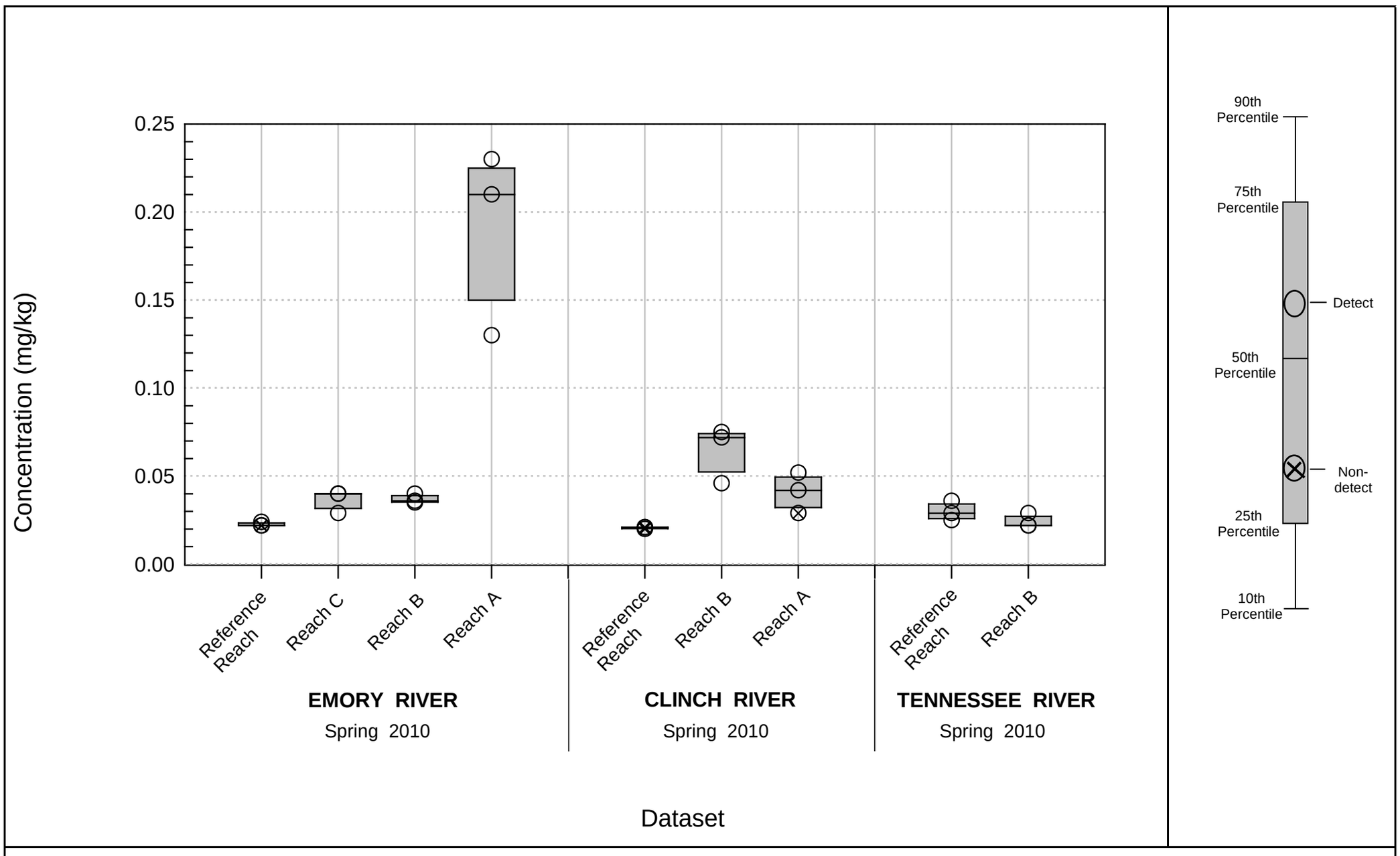
* Result value is < 25th percentile - 1.5*IQR or > 75th percentile + 1.5*IQR

-- = no data
All = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
IQR = interquartile range equals the 3rd quartile (75th percentile) - 1st quartile (25th percentile)
NA = value not applicable due to frequency of detection
ND = non-detect
R = Reference Reach
TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.

Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.

Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

Mayfly Nymph Whole Body Tissue Without Gut or Gut Contents
Antimony
TVA Kingston

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-R	mg/kg	2	1	3	0.022	0.022	0.024	0.024	0.024	0.024	NA	0.022	0.022	0.023
ER-C	mg/kg	0	3	3	NA	NA	0.029	0.040	0.036	0.040	0.006	0.032	0.040	0.040
ER-B	mg/kg	0	3	3	NA	NA	0.035	0.040	0.037	0.036	0.003	0.035	0.036	0.039
ER-A	mg/kg	0	3	3	NA	NA	0.13	0.23	0.19	0.21	0.053	0.15	0.21	0.22
CR-R	mg/kg	3	0	3	0.020	0.021	ND	ND	ND	ND	ND	0.020	0.021	0.021
CR-B	mg/kg	0	3	3	NA	NA	0.046	0.075	0.064	0.072	0.016	0.052	0.072	0.074
CR-A	mg/kg	1	2	3	0.029	0.029	0.042	0.052	0.047	0.047	0.007	0.032	0.042	0.049
TR-R	mg/kg	0	3	3	NA	NA	0.025	0.036	0.030	0.029	0.006	0.026	0.029	0.034
TR-B	mg/kg	0	3	3	NA	NA	0.022	0.029	0.024	0.022	0.004	0.022	0.022	0.027

Notes:

† Result value is < 25th percentile - 3*IQR or > 75th percentile + 3*IQR

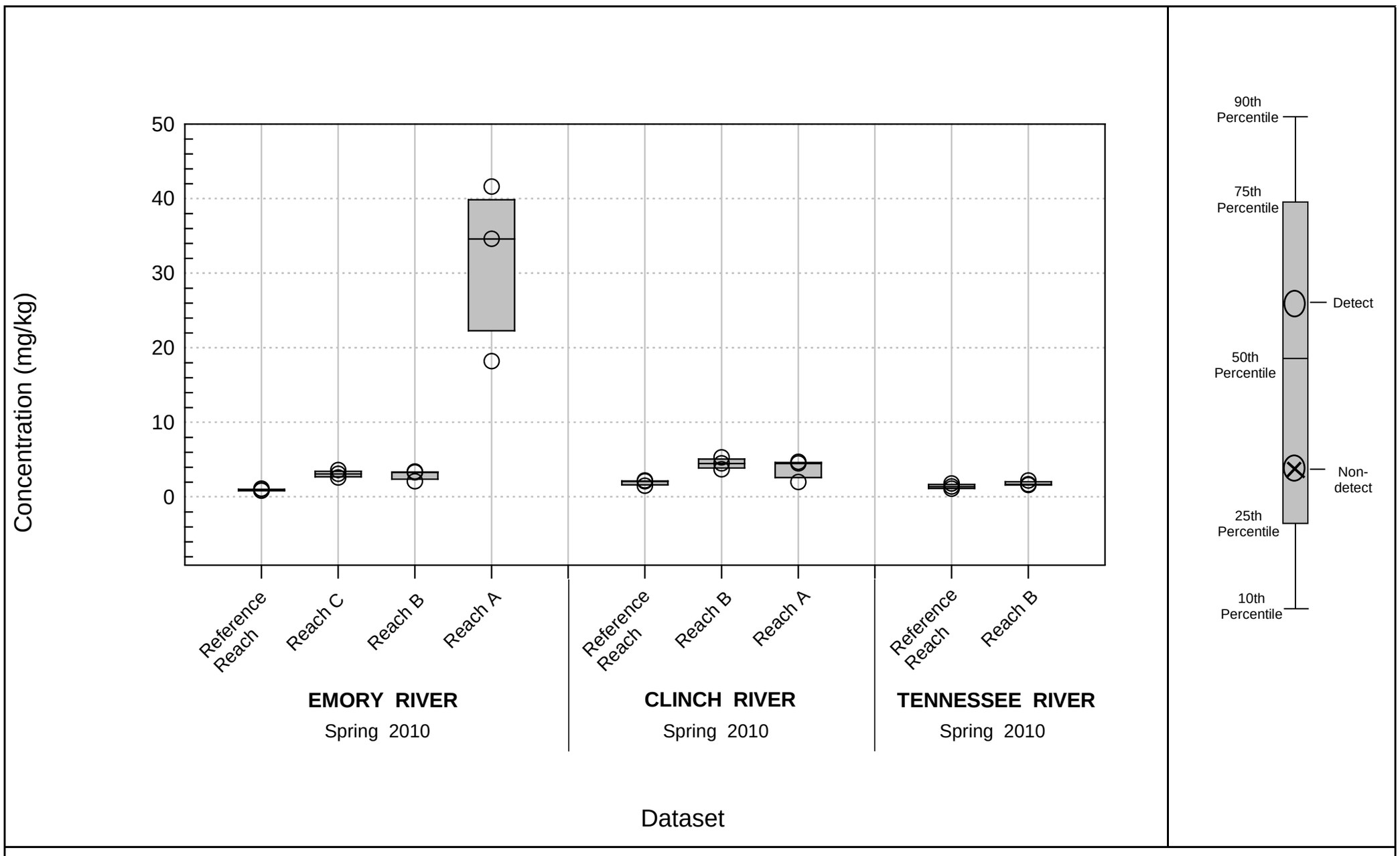
* Result value is < 25th percentile - 1.5*IQR or > 75th percentile + 1.5*IQR

-- = no data
All = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
IQR = interquartile range equals the 3rd quartile (75th percentile) - 1st quartile (25th percentile)
NA = value not applicable due to frequency of detection
ND = non-detect
R = Reference Reach
TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.

Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.

Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

Mayfly Nymph Whole Body Tissue Without Gut or Gut Contents
Arsenic
TVA Kingston

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-R	mg/kg	0	3	3	NA	NA	0.85	1.1	0.95	0.90	0.13	0.86	0.90	1.0
ER-C	mg/kg	0	3	3	NA	NA	2.6	3.6	3.1	3.1	0.50	2.7	3.1	3.5
ER-B	mg/kg	0	3	3	NA	NA	2.1	3.4	2.9	3.3	0.72	2.4	3.3	3.4
ER-A	mg/kg	0	3	3	NA	NA	18.2	41.6	31.5	34.6	12.0	22.3	34.6	39.8
CR-R	mg/kg	0	3	3	NA	NA	1.5	2.2	1.9	2.1	0.38	1.6	2.1	2.2
CR-B	mg/kg	0	3	3	NA	NA	3.7	5.3	4.5	4.5	0.80	3.9	4.5	5.1
CR-A	mg/kg	0	3	3	NA	NA	2.0	4.7	3.7	4.5	1.5	2.6	4.5	4.7
TR-R	mg/kg	0	3	3	NA	NA	1.1	1.8	1.4	1.4	0.35	1.2	1.4	1.7
TR-B	mg/kg	0	3	3	NA	NA	1.6	2.2	1.8	1.7	0.32	1.6	1.7	2.1

Notes:

† Result value is < 25th percentile - 3*IQR or > 75th percentile + 3*IQR

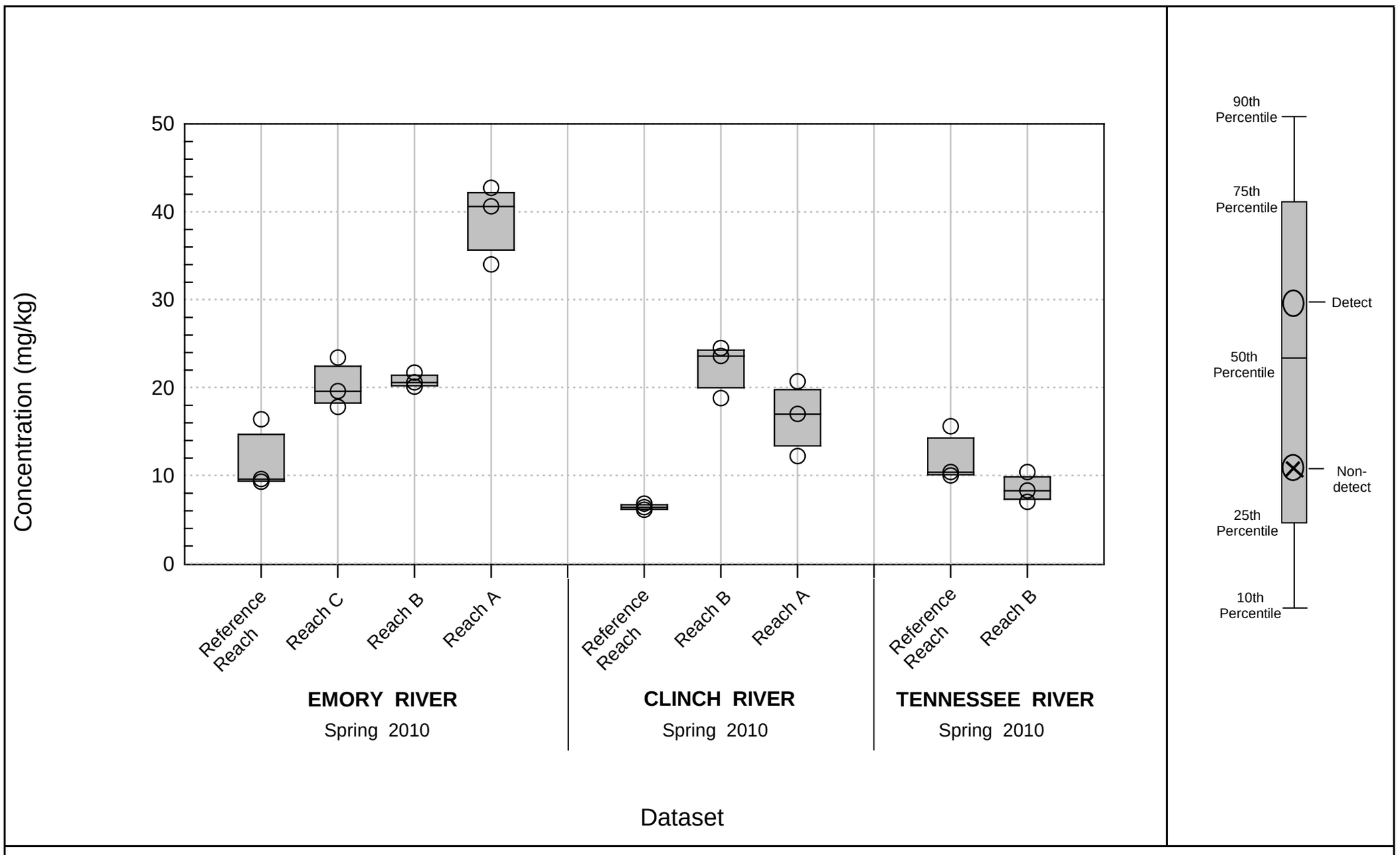
* Result value is < 25th percentile - 1.5*IQR or > 75th percentile + 1.5*IQR

-- = no data
All = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
IQR = interquartile range equals the 3rd quartile (75th percentile) - 1st quartile (25th percentile)
NA = value not applicable due to frequency of detection
ND = non-detect
R = Reference Reach
TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.

Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.

Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

Mayfly Nymph Whole Body Tissue Without Gut or Gut Contents
Barium
TVA Kingston

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-R	mg/kg	0	3	3	NA	NA	9.3	16.4	11.8	9.6	4.0	9.4	9.6	14.7
ER-C	mg/kg	0	3	3	NA	NA	17.8	23.4	20.3	19.6	2.9	18.3	19.6	22.5
ER-B	mg/kg	0	3	3	NA	NA	20.1	21.7	20.8	20.6	0.82	20.2	20.6	21.4
ER-A	mg/kg	0	3	3	NA	NA	34.0	42.7	39.1	40.6	4.5	35.7	40.6	42.2
CR-R	mg/kg	0	3	3	NA	NA	6.1	6.8	6.4	6.4	0.35	6.2	6.4	6.7
CR-B	mg/kg	0	3	3	NA	NA	18.8	24.5	22.3	23.6	3.1	20.0	23.6	24.3
CR-A	mg/kg	0	3	3	NA	NA	12.2	20.7	16.6	17.0	4.3	13.4	17.0	19.8
TR-R	mg/kg	0	3	3	NA	NA	10.0	15.6	12.0	10.4	3.1	10.1	10.4	14.3
TR-B	mg/kg	0	3	3	NA	NA	7.0	10.4	8.6	8.3	1.7	7.3	8.3	9.9

Notes:

† Result value is < 25th percentile - 3*IQR or > 75th percentile + 3*IQR

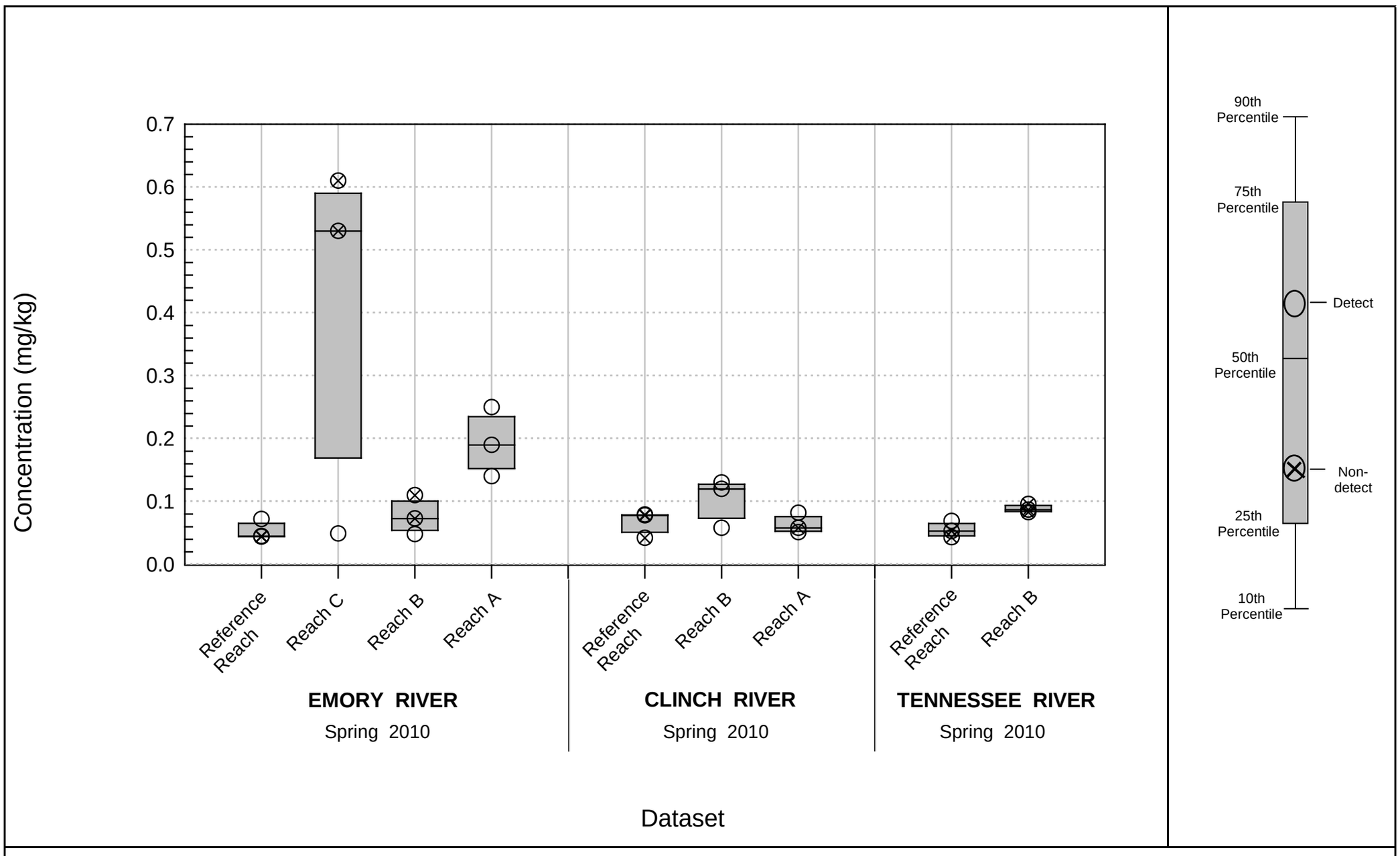
* Result value is < 25th percentile - 1.5*IQR or > 75th percentile + 1.5*IQR

-- = no data
All = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
IQR = interquartile range equals the 3rd quartile (75th percentile) - 1st quartile (25th percentile)
NA = value not applicable due to frequency of detection
ND = non-detect
R = Reference Reach
TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.

Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.

Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

Mayfly Nymph Whole Body Tissue Without Gut or Gut Contents
Beryllium
TVA Kingston

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-R	mg/kg	2	1	3	0.044	0.045	0.072	0.072	0.072	0.072	NA	0.044	0.045	0.065
ER-C	mg/kg	2	1	3	0.53	0.61	0.049	0.049	0.049	0.049	NA	0.17	0.53	0.59
ER-B	mg/kg	2	1	3	0.073	0.11	0.048	0.048	0.048	0.048	NA	0.054	0.073	0.10
ER-A	mg/kg	0	3	3	NA	NA	0.14	0.25	0.19	0.19	0.055	0.15	0.19	0.23
CR-R	mg/kg	3	0	3	0.042	0.079	ND	ND	ND	ND	ND	0.051	0.078	0.079
CR-B	mg/kg	0	3	3	NA	NA	0.058	0.13	0.10	0.12	0.039	0.073	0.12	0.13
CR-A	mg/kg	1	2	3	0.058	0.058	0.051	0.082	0.067	0.067	0.022	0.053	0.058	0.076
TR-R	mg/kg	2	1	3	0.043	0.053	0.069	0.069	0.069	0.069	NA	0.045	0.053	0.065
TR-B	mg/kg	3	0	3	0.083	0.096	ND	ND	ND	ND	ND	0.084	0.087	0.094

Notes:

† Result value is < 25th percentile - 3*IQR or > 75th percentile + 3*IQR

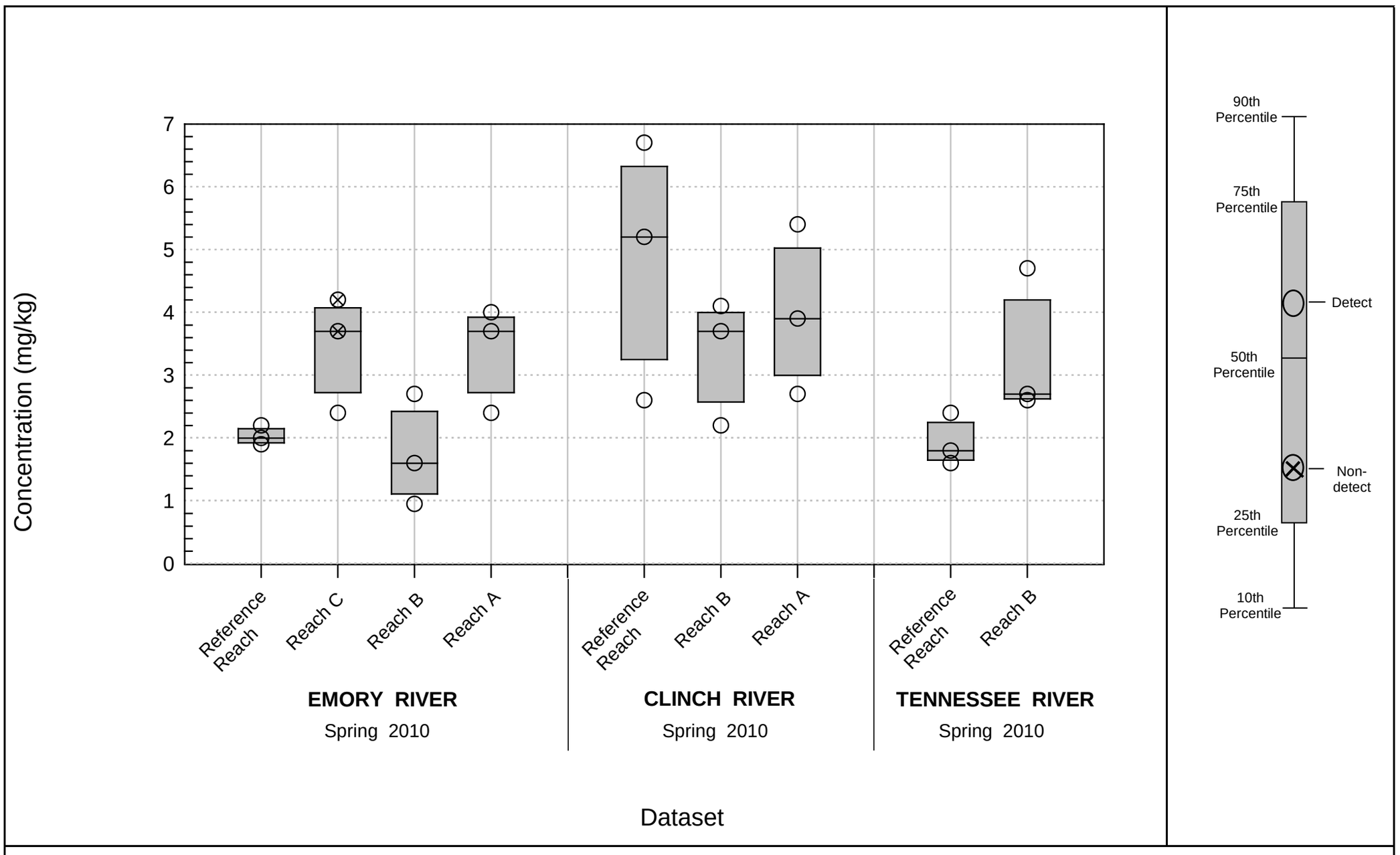
* Result value is < 25th percentile - 1.5*IQR or > 75th percentile + 1.5*IQR

-- = no data
All = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
IQR = interquartile range equals the 3rd quartile (75th percentile) - 1st quartile (25th percentile)
NA = value not applicable due to frequency of detection
ND = non-detect
R = Reference Reach
TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.

Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.

Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

Mayfly Nymph Whole Body Tissue Without Gut or Gut Contents

Boron

TVA Kingston

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-R	mg/kg	0	3	3	NA	NA	1.9	2.2	2.0	2.0	0.15	1.9	2.0	2.2
ER-C	mg/kg	2	1	3	3.7	4.2	2.4	2.4	2.4	2.4	NA	2.7	3.7	4.1
ER-B	mg/kg	0	3	3	NA	NA	0.95	2.7	1.8	1.6	0.88	1.1	1.6	2.4
ER-A	mg/kg	0	3	3	NA	NA	2.4	4.0	3.4	3.7	0.85	2.7	3.7	3.9
CR-R	mg/kg	0	3	3	NA	NA	2.6	6.7	4.8	5.2	2.1	3.3	5.2	6.3
CR-B	mg/kg	0	3	3	NA	NA	2.2	4.1	3.3	3.7	1.0	2.6	3.7	4.0
CR-A	mg/kg	0	3	3	NA	NA	2.7	5.4	4.0	3.9	1.4	3.0	3.9	5.0
TR-R	mg/kg	0	3	3	NA	NA	1.6	2.4	1.9	1.8	0.42	1.6	1.8	2.3
TR-B	mg/kg	0	3	3	NA	NA	2.6	4.7	3.3	2.7	1.2	2.6	2.7	4.2

Notes:

† Result value is < 25th percentile - 3*IQR or > 75th percentile + 3*IQR

* Result value is < 25th percentile - 1.5*IQR or > 75th percentile + 1.5*IQR

-- = no data

All = Reach A

B = Reach B

C = Reach C

CR = Clinch River

ER = Emory River

IQR = interquartile range equals the 3rd quartile (75th percentile) - 1st quartile (25th percentile)

NA = value not applicable due to frequency of detection

ND = non-detect

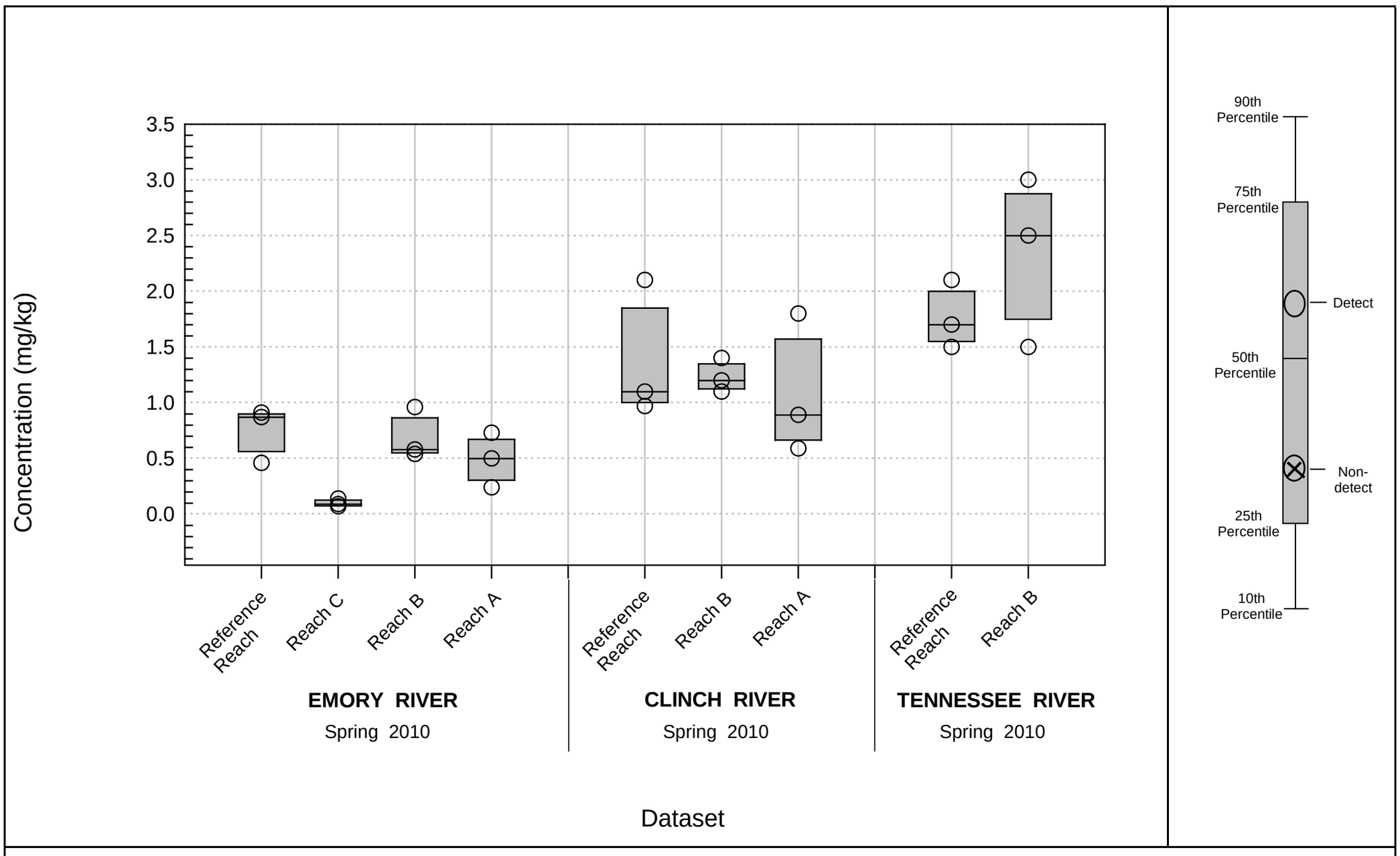
R = Reference Reach

TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.

Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.

Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

Mayfly Nymph Whole Body Tissue Without Gut or Gut Contents
Cadmium
TVA Kingston

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-R	mg/kg	0	3	3	NA	NA	0.46	0.91	0.75	0.87	0.25	0.56	0.87	0.90
ER-C	mg/kg	0	3	3	NA	NA	0.070	0.14	0.10	0.090	0.036	0.075	0.090	0.13
ER-B	mg/kg	0	3	3	NA	NA	0.54	0.96	0.69	0.58	0.23	0.55	0.58	0.87
ER-A	mg/kg	0	3	3	NA	NA	0.24	0.73	0.49	0.50	0.25	0.31	0.50	0.67
CR-R	mg/kg	0	3	3	NA	NA	0.97	2.1	1.4	1.1	0.62	1.0	1.1	1.9
CR-B	mg/kg	0	3	3	NA	NA	1.1	1.4	1.2	1.2	0.15	1.1	1.2	1.4
CR-A	mg/kg	0	3	3	NA	NA	0.59	1.8	1.1	0.89	0.63	0.67	0.89	1.6
TR-R	mg/kg	0	3	3	NA	NA	1.5	2.1	1.8	1.7	0.31	1.5	1.7	2.0
TR-B	mg/kg	0	3	3	NA	NA	1.5	3.0	2.3	2.5	0.76	1.8	2.5	2.9

Notes:

† Result value is < 25th percentile - 3*IQR or > 75th percentile + 3*IQR

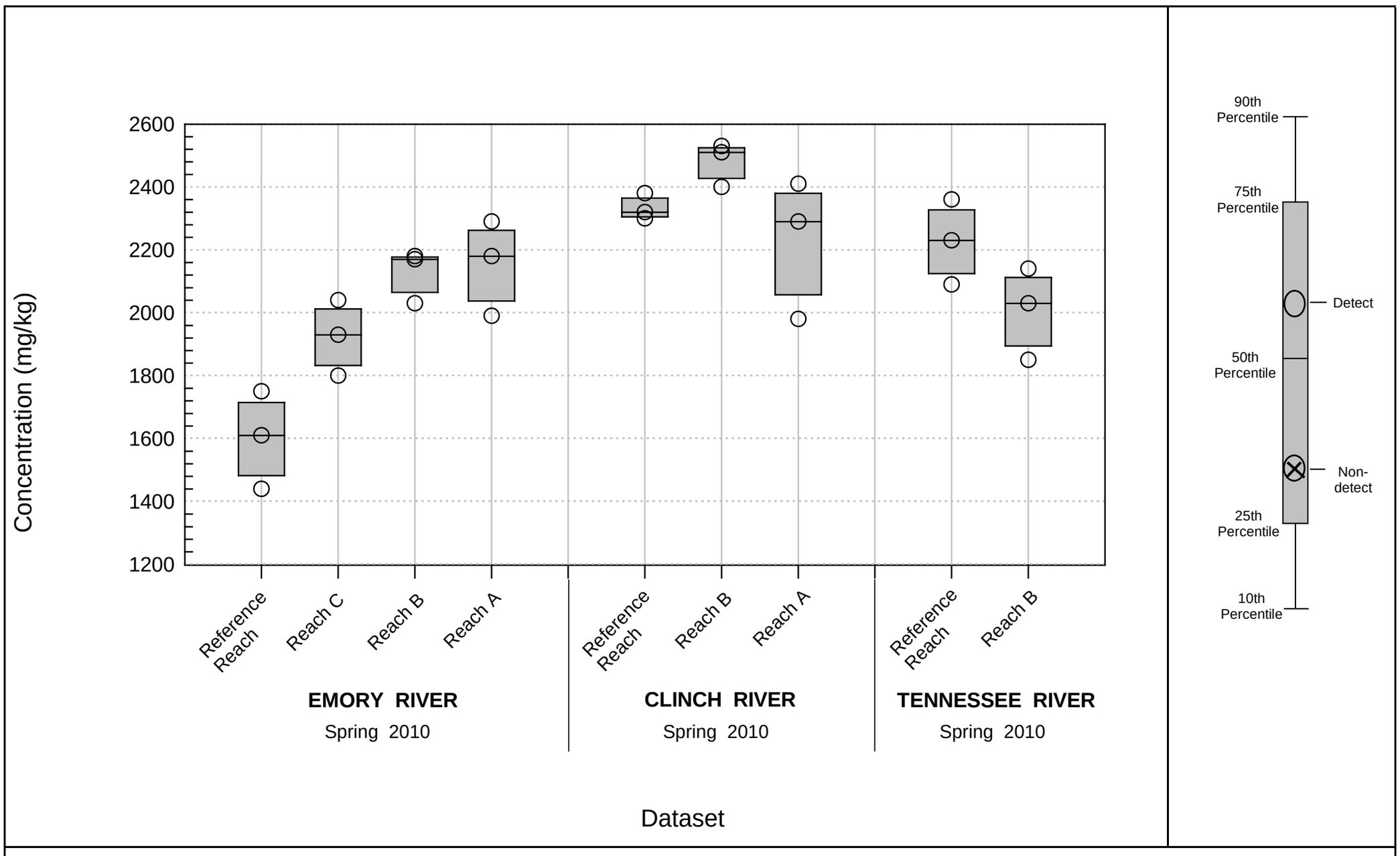
* Result value is < 25th percentile - 1.5*IQR or > 75th percentile + 1.5*IQR

-- = no data
All = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
IQR = interquartile range equals the 3rd quartile (75th percentile) - 1st quartile (25th percentile)
NA = value not applicable due to frequency of detection
ND = non-detect
R = Reference Reach
TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.

Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.

Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

Mayfly Nymph Whole Body Tissue Without Gut or Gut Contents
Calcium
TVA Kingston

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-R	mg/kg	0	3	3	NA	NA	1,440	1,750	1,600	1,610	155	1,480	1,610	1,720
ER-C	mg/kg	0	3	3	NA	NA	1,800	2,040	1,920	1,930	120	1,830	1,930	2,010
ER-B	mg/kg	0	3	3	NA	NA	2,030	2,180	2,130	2,170	83.9	2,070	2,170	2,180
ER-A	mg/kg	0	3	3	NA	NA	1,990	2,290	2,150	2,180	152	2,040	2,180	2,260
CR-R	mg/kg	0	3	3	NA	NA	2,300	2,380	2,330	2,320	41.6	2,310	2,320	2,370
CR-B	mg/kg	0	3	3	NA	NA	2,400	2,530	2,480	2,510	70.0	2,430	2,510	2,530
CR-A	mg/kg	0	3	3	NA	NA	1,980	2,410	2,230	2,290	222	2,060	2,290	2,380
TR-R	mg/kg	0	3	3	NA	NA	2,090	2,360	2,230	2,230	135	2,130	2,230	2,330
TR-B	mg/kg	0	3	3	NA	NA	1,850	2,140	2,010	2,030	146	1,900	2,030	2,110

Notes:

† Result value is < 25th percentile - 3*IQR or > 75th percentile + 3*IQR

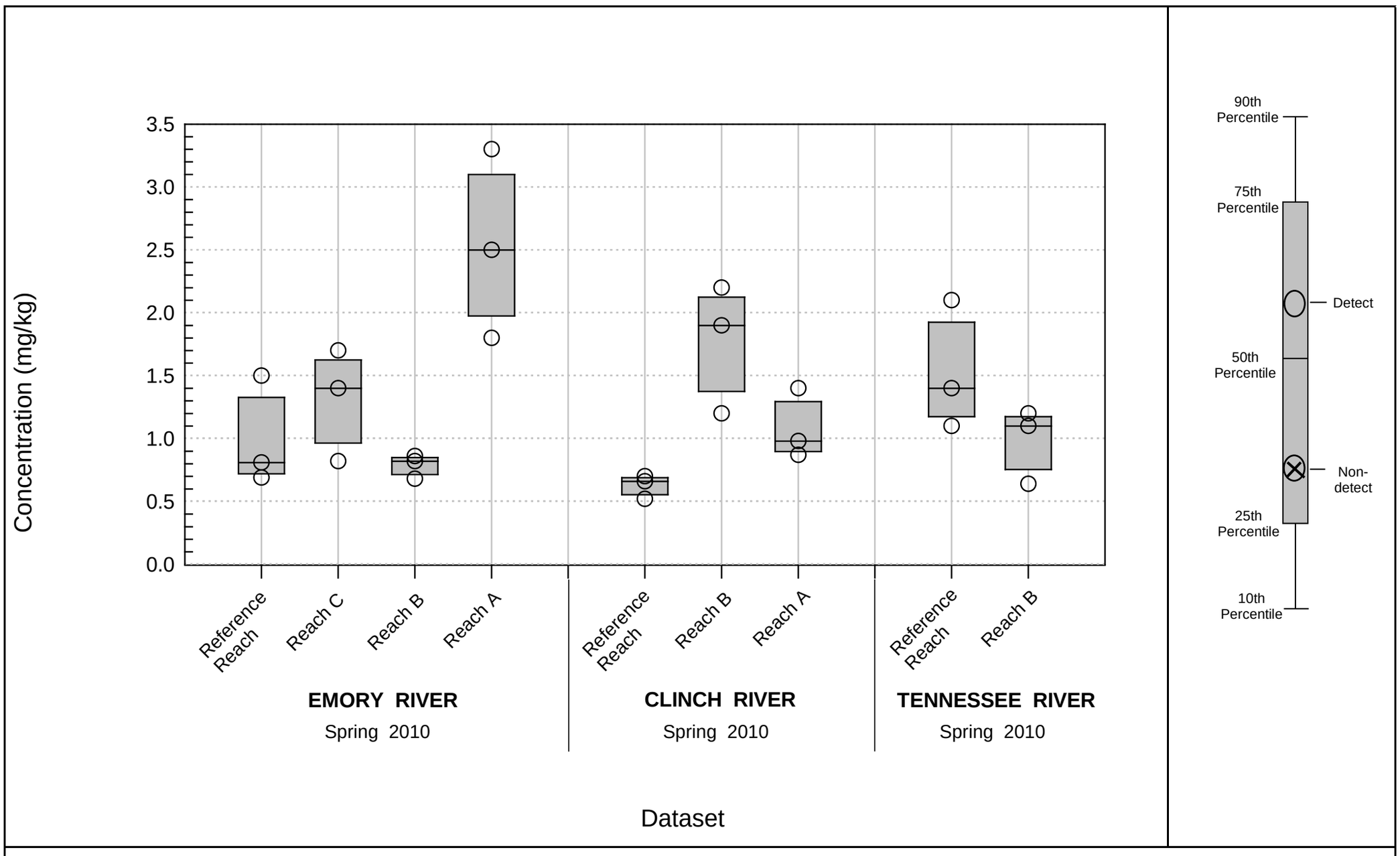
* Result value is < 25th percentile - 1.5*IQR or > 75th percentile + 1.5*IQR

-- = no data
All = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
IQR = interquartile range equals the 3rd quartile (75th percentile) - 1st quartile (25th percentile)
NA = value not applicable due to frequency of detection
ND = non-detect
R = Reference Reach
TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.

Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.

Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

Mayfly Nymph Whole Body Tissue Without Gut or Gut Contents
Chromium
TVA Kingston

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-R	mg/kg	0	3	3	NA	NA	0.69	1.5	1.0	0.81	0.44	0.72	0.81	1.3
ER-C	mg/kg	0	3	3	NA	NA	0.82	1.7	1.3	1.4	0.45	0.96	1.4	1.6
ER-B	mg/kg	0	3	3	NA	NA	0.68	0.86	0.79	0.82	0.095	0.71	0.82	0.85
ER-A	mg/kg	0	3	3	NA	NA	1.8	3.3	2.5	2.5	0.75	2.0	2.5	3.1
CR-R	mg/kg	0	3	3	NA	NA	0.52	0.70	0.63	0.66	0.095	0.56	0.66	0.69
CR-B	mg/kg	0	3	3	NA	NA	1.2	2.2	1.8	1.9	0.51	1.4	1.9	2.1
CR-A	mg/kg	0	3	3	NA	NA	0.87	1.4	1.1	0.98	0.28	0.90	0.98	1.3
TR-R	mg/kg	0	3	3	NA	NA	1.1	2.1	1.5	1.4	0.51	1.2	1.4	1.9
TR-B	mg/kg	0	3	3	NA	NA	0.64	1.2	0.98	1.1	0.30	0.75	1.1	1.2

Notes:

† Result value is < 25th percentile - 3*IQR or > 75th percentile + 3*IQR

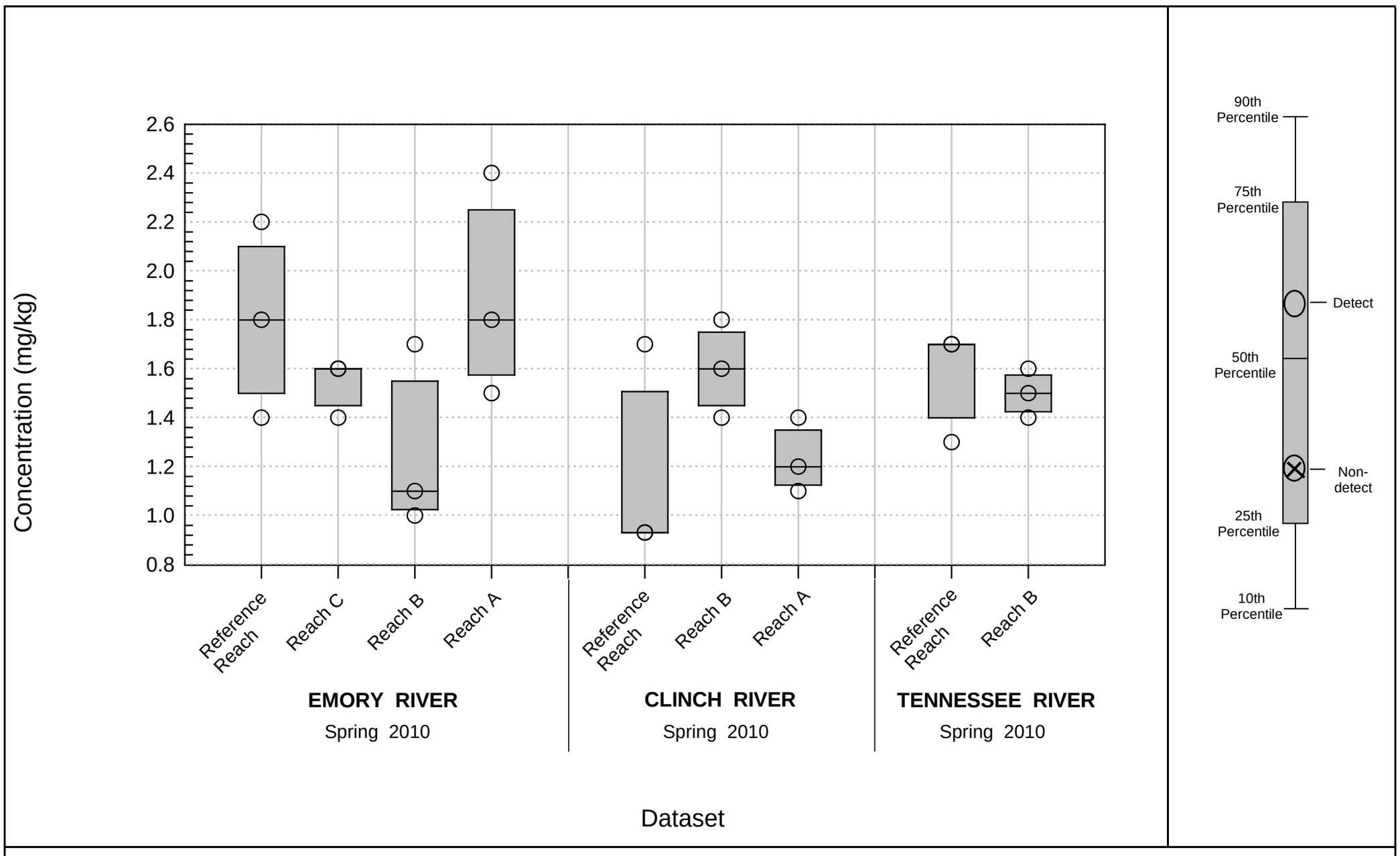
* Result value is < 25th percentile - 1.5*IQR or > 75th percentile + 1.5*IQR

-- = no data
All = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
IQR = interquartile range equals the 3rd quartile (75th percentile) - 1st quartile (25th percentile)
NA = value not applicable due to frequency of detection
ND = non-detect
R = Reference Reach
TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.

Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.

Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

Mayfly Nymph Whole Body Tissue Without Gut or Gut Contents
Cobalt
TVA Kingston

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-R	mg/kg	0	3	3	NA	NA	1.4	2.2	1.8	1.8	0.40	1.5	1.8	2.1
ER-C	mg/kg	0	3	3	NA	NA	1.4	1.6	1.5	1.6	0.12	1.5	1.6	1.6
ER-B	mg/kg	0	3	3	NA	NA	1.0	1.7	1.3	1.1	0.38	1.0	1.1	1.5
ER-A	mg/kg	0	3	3	NA	NA	1.5	2.4	1.9	1.8	0.46	1.6	1.8	2.3
CR-R	mg/kg	0	3	3	NA	NA	0.93	1.7	1.2	0.93	0.44	0.93	0.93	1.5
CR-B	mg/kg	0	3	3	NA	NA	1.4	1.8	1.6	1.6	0.20	1.5	1.6	1.8
CR-A	mg/kg	0	3	3	NA	NA	1.1	1.4	1.2	1.2	0.15	1.1	1.2	1.4
TR-R	mg/kg	0	3	3	NA	NA	1.3	1.7	1.6	1.7	0.23	1.4	1.7	1.7
TR-B	mg/kg	0	3	3	NA	NA	1.4	1.6	1.5	1.5	0.10	1.4	1.5	1.6

Notes:

† Result value is < 25th percentile - 3*IQR or > 75th percentile + 3*IQR

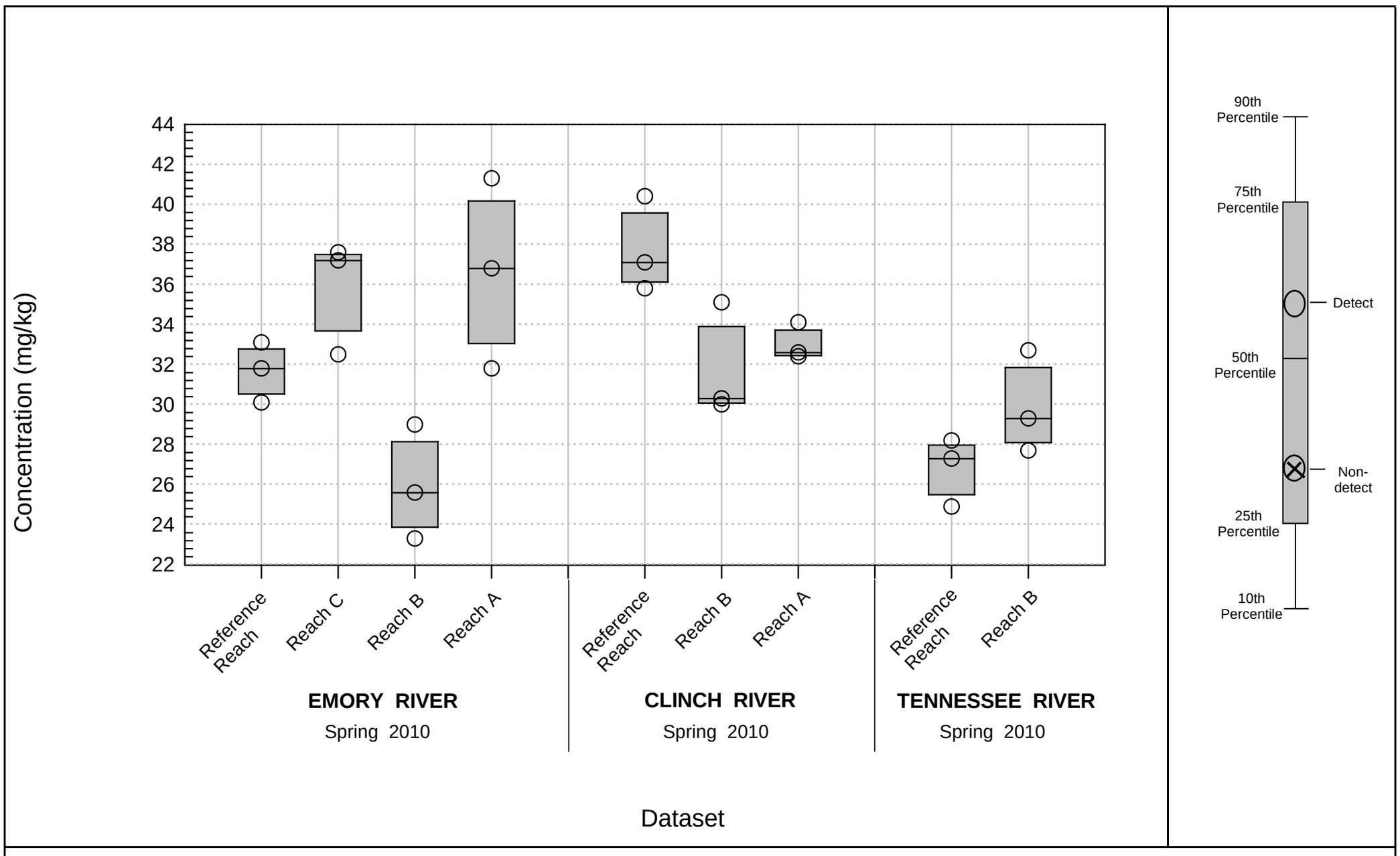
* Result value is < 25th percentile - 1.5*IQR or > 75th percentile + 1.5*IQR

-- = no data
All = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
IQR = interquartile range equals the 3rd quartile (75th percentile) - 1st quartile (25th percentile)
NA = value not applicable due to frequency of detection
ND = non-detect
R = Reference Reach
TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.

Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.

Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

Mayfly Nymph Whole Body Tissue Without Gut or Gut Contents

Copper

TVA Kingston

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-R	mg/kg	0	3	3	NA	NA	30.1	33.1	31.7	31.8	1.5	30.5	31.8	32.8
ER-C	mg/kg	0	3	3	NA	NA	32.5	37.6	35.8	37.2	2.8	33.7	37.2	37.5
ER-B	mg/kg	0	3	3	NA	NA	23.3	29.0	26.0	25.6	2.9	23.9	25.6	28.1
ER-A	mg/kg	0	3	3	NA	NA	31.8	41.3	36.6	36.8	4.8	33.0	36.8	40.2
CR-R	mg/kg	0	3	3	NA	NA	35.8	40.4	37.8	37.1	2.4	36.1	37.1	39.6
CR-B	mg/kg	0	3	3	NA	NA	30.0	35.1	31.8	30.3	2.9	30.1	30.3	33.9
CR-A	mg/kg	0	3	3	NA	NA	32.4	34.1	33.0	32.6	0.93	32.5	32.6	33.7
TR-R	mg/kg	0	3	3	NA	NA	24.9	28.2	26.8	27.3	1.7	25.5	27.3	28.0
TR-B	mg/kg	0	3	3	NA	NA	27.7	32.7	29.9	29.3	2.6	28.1	29.3	31.9

Notes:

† Result value is < 25th percentile - 3*IQR or > 75th percentile + 3*IQR

* Result value is < 25th percentile - 1.5*IQR or > 75th percentile + 1.5*IQR

-- = no data

All = Reach A

B = Reach B

C = Reach C

CR = Clinch River

ER = Emory River

IQR = interquartile range equals the 3rd quartile (75th percentile) - 1st quartile (25th percentile)

NA = value not applicable due to frequency of detection

ND = non-detect

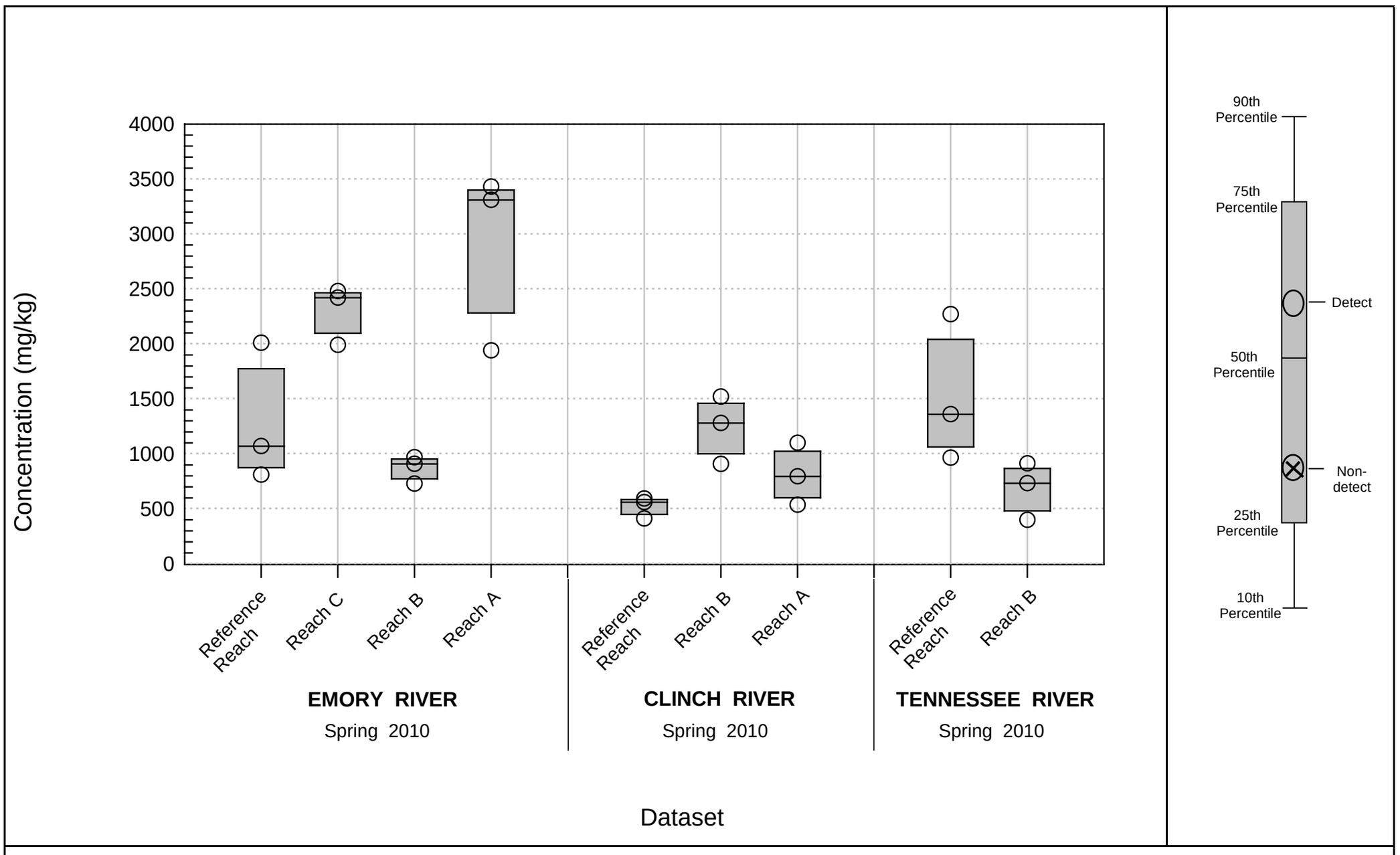
R = Reference Reach

TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.

Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.

Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

Mayfly Nymph Whole Body Tissue Without Gut or Gut Contents

Iron

TVA Kingston

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-R	mg/kg	0	3	3	NA	NA	810	2,010	1,300	1,070	631	875	1,070	1,780
ER-C	mg/kg	0	3	3	NA	NA	1,990	2,480	2,300	2,420	267	2,100	2,420	2,470
ER-B	mg/kg	0	3	3	NA	NA	728	968	868	909	125	773	909	953
ER-A	mg/kg	0	3	3	NA	NA	1,940	3,430	2,890	3,310	828	2,280	3,310	3,400
CR-R	mg/kg	0	3	3	NA	NA	412	593	522	561	96.6	449	561	585
CR-B	mg/kg	0	3	3	NA	NA	908	1,520	1,240	1,280	308	1,000	1,280	1,460
CR-A	mg/kg	0	3	3	NA	NA	536	1,100	810	795	282	601	795	1,020
TR-R	mg/kg	0	3	3	NA	NA	965	2,270	1,530	1,360	669	1,060	1,360	2,040
TR-B	mg/kg	0	3	3	NA	NA	399	913	682	733	261	483	733	868

Notes:

† Result value is < 25th percentile - 3*IQR or > 75th percentile + 3*IQR

* Result value is < 25th percentile - 1.5*IQR or > 75th percentile + 1.5*IQR

-- = no data

All = Reach A

B = Reach B

C = Reach C

CR = Clinch River

ER = Emory River

IQR = interquartile range equals the 3rd quartile (75th percentile) - 1st quartile (25th percentile)

NA = value not applicable due to frequency of detection

ND = non-detect

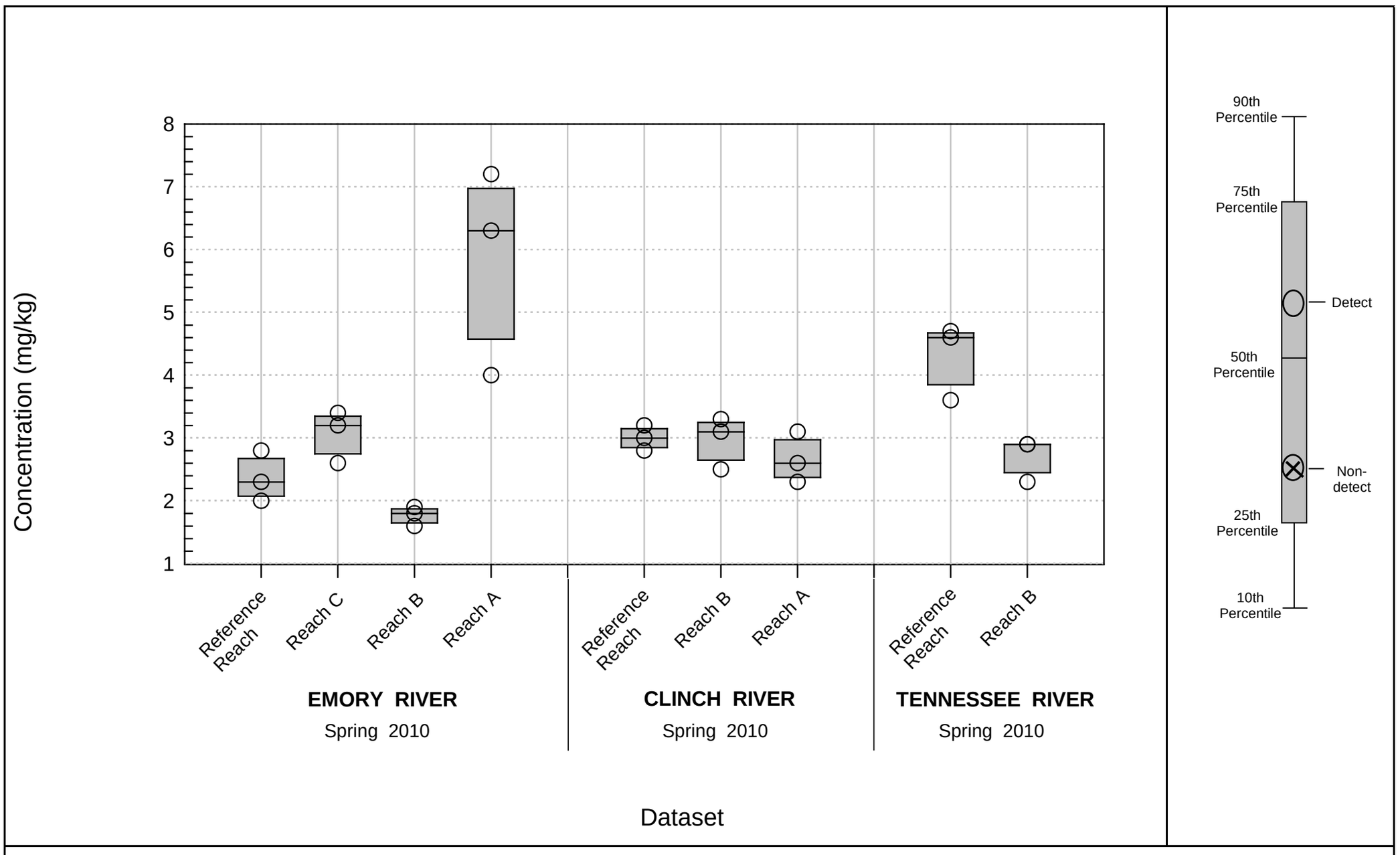
R = Reference Reach

TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.

Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.

Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

Mayfly Nymph Whole Body Tissue Without Gut or Gut Contents

Lead

TVA Kingston

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-R	mg/kg	0	3	3	NA	NA	2.0	2.8	2.4	2.3	0.40	2.1	2.3	2.7
ER-C	mg/kg	0	3	3	NA	NA	2.6	3.4	3.1	3.2	0.42	2.8	3.2	3.3
ER-B	mg/kg	0	3	3	NA	NA	1.6	1.9	1.8	1.8	0.15	1.6	1.8	1.9
ER-A	mg/kg	0	3	3	NA	NA	4.0	7.2	5.8	6.3	1.7	4.6	6.3	7.0
CR-R	mg/kg	0	3	3	NA	NA	2.8	3.2	3.0	3.0	0.20	2.8	3.0	3.2
CR-B	mg/kg	0	3	3	NA	NA	2.5	3.3	3.0	3.1	0.42	2.7	3.1	3.3
CR-A	mg/kg	0	3	3	NA	NA	2.3	3.1	2.7	2.6	0.40	2.4	2.6	3.0
TR-R	mg/kg	0	3	3	NA	NA	3.6	4.7	4.3	4.6	0.61	3.8	4.6	4.7
TR-B	mg/kg	0	3	3	NA	NA	2.3	2.9	2.7	2.9	0.35	2.5	2.9	2.9

Notes:

† Result value is < 25th percentile - 3*IQR or > 75th percentile + 3*IQR

* Result value is < 25th percentile - 1.5*IQR or > 75th percentile + 1.5*IQR

-- = no data

All = Reach A

B = Reach B

C = Reach C

CR = Clinch River

ER = Emory River

IQR = interquartile range equals the 3rd quartile (75th percentile) - 1st quartile (25th percentile)

NA = value not applicable due to frequency of detection

ND = non-detect

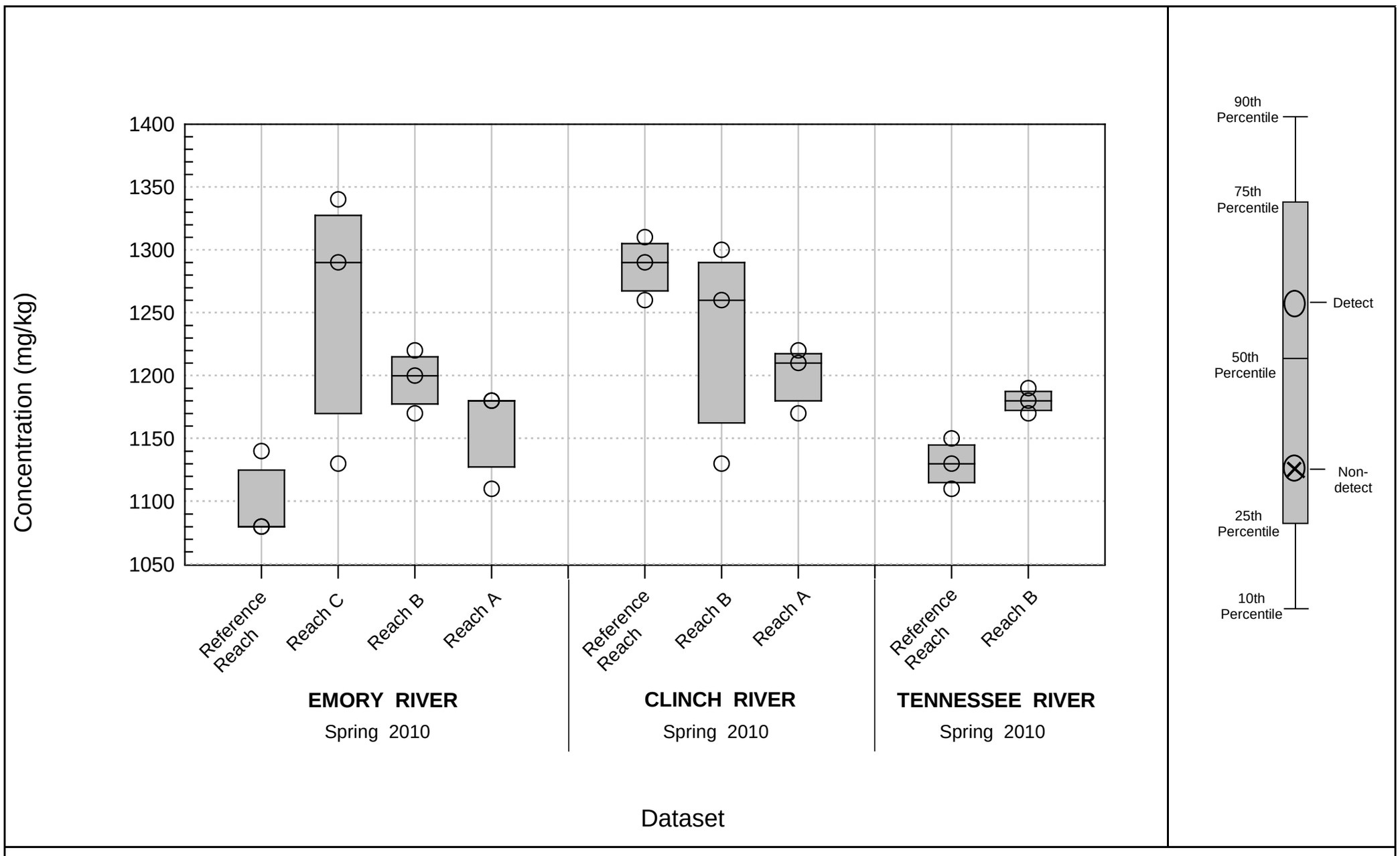
R = Reference Reach

TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.

Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.

Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

Mayfly Nymph Whole Body Tissue Without Gut or Gut Contents
Magnesium
TVA Kingston

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-R	mg/kg	0	3	3	NA	NA	1,080	1,140	1,100	1,080	34.6	1,080	1,080	1,130
ER-C	mg/kg	0	3	3	NA	NA	1,130	1,340	1,250	1,290	110	1,170	1,290	1,330
ER-B	mg/kg	0	3	3	NA	NA	1,170	1,220	1,200	1,200	25.2	1,180	1,200	1,220
ER-A	mg/kg	0	3	3	NA	NA	1,110	1,180	1,160	1,180	40.4	1,130	1,180	1,180
CR-R	mg/kg	0	3	3	NA	NA	1,260	1,310	1,290	1,290	25.2	1,270	1,290	1,310
CR-B	mg/kg	0	3	3	NA	NA	1,130	1,300	1,230	1,260	88.9	1,160	1,260	1,290
CR-A	mg/kg	0	3	3	NA	NA	1,170	1,220	1,200	1,210	26.5	1,180	1,210	1,220
TR-R	mg/kg	0	3	3	NA	NA	1,110	1,150	1,130	1,130	20.0	1,120	1,130	1,150
TR-B	mg/kg	0	3	3	NA	NA	1,170	1,190	1,180	1,180	10.0	1,170	1,180	1,190

Notes:

† Result value is < 25th percentile - 3*IQR or > 75th percentile + 3*IQR

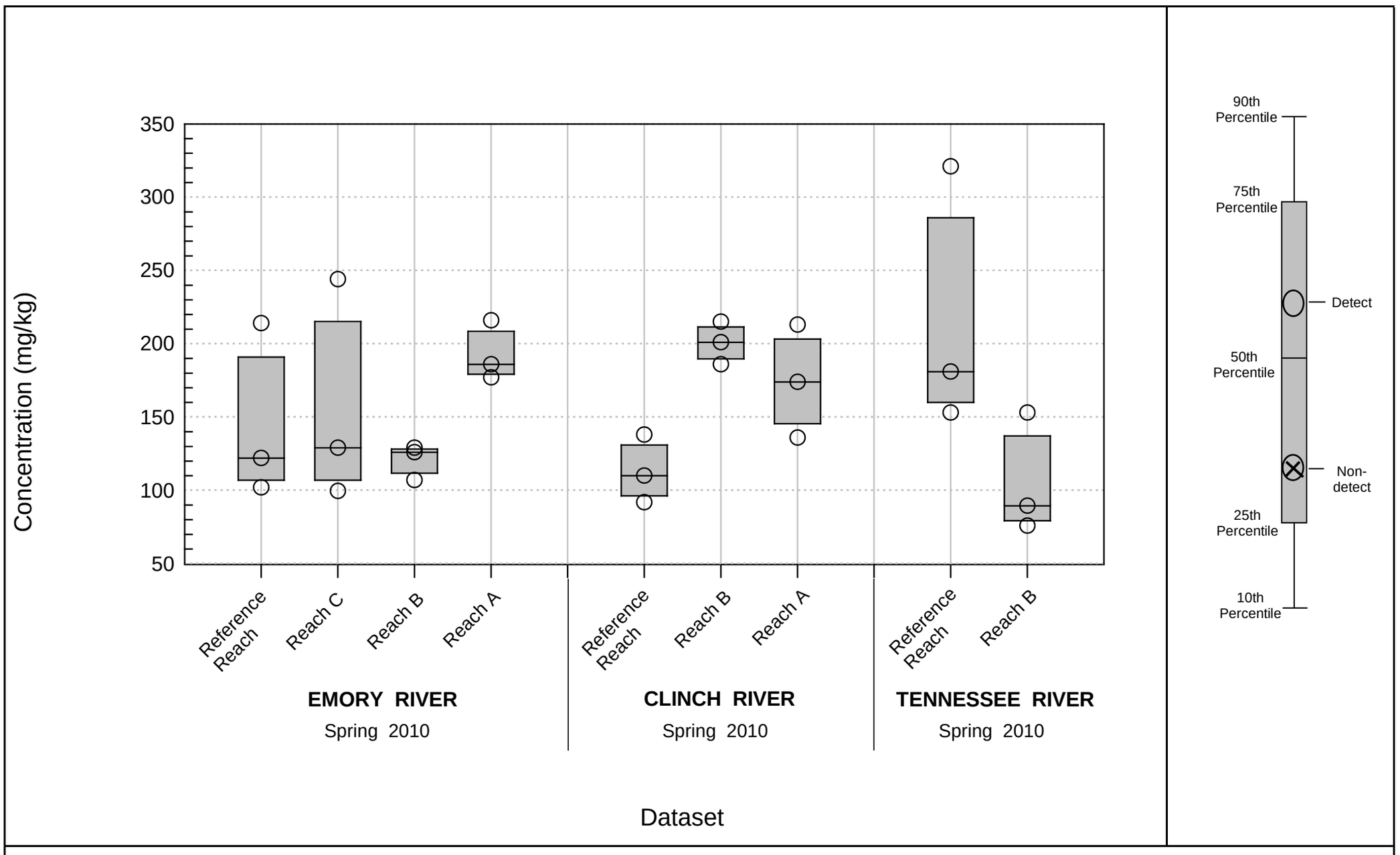
* Result value is < 25th percentile - 1.5*IQR or > 75th percentile + 1.5*IQR

-- = no data
All = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
IQR = interquartile range equals the 3rd quartile (75th percentile) - 1st quartile (25th percentile)
NA = value not applicable due to frequency of detection
ND = non-detect
R = Reference Reach
TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.

Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.

Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

Mayfly Nymph Whole Body Tissue Without Gut or Gut Contents
Manganese
TVA Kingston

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-R	mg/kg	0	3	3	NA	NA	102	214	146	122	59.7	107	122	191
ER-C	mg/kg	0	3	3	NA	NA	99.6	244	158	129	76.3	107	129	215
ER-B	mg/kg	0	3	3	NA	NA	107	129	121	126	11.9	112	126	128
ER-A	mg/kg	0	3	3	NA	NA	177	216	193	186	20.4	179	186	209
CR-R	mg/kg	0	3	3	NA	NA	91.8	138	113	110	23.3	96.3	110	131
CR-B	mg/kg	0	3	3	NA	NA	186	215	201	201	14.5	190	201	212
CR-A	mg/kg	0	3	3	NA	NA	136	213	174	174	38.5	146	174	203
TR-R	mg/kg	0	3	3	NA	NA	153	321	218	181	90.0	160	181	286
TR-B	mg/kg	0	3	3	NA	NA	75.9	153	106	89.5	41.2	79.3	89.5	137

Notes:

† Result value is < 25th percentile - 3*IQR or > 75th percentile + 3*IQR

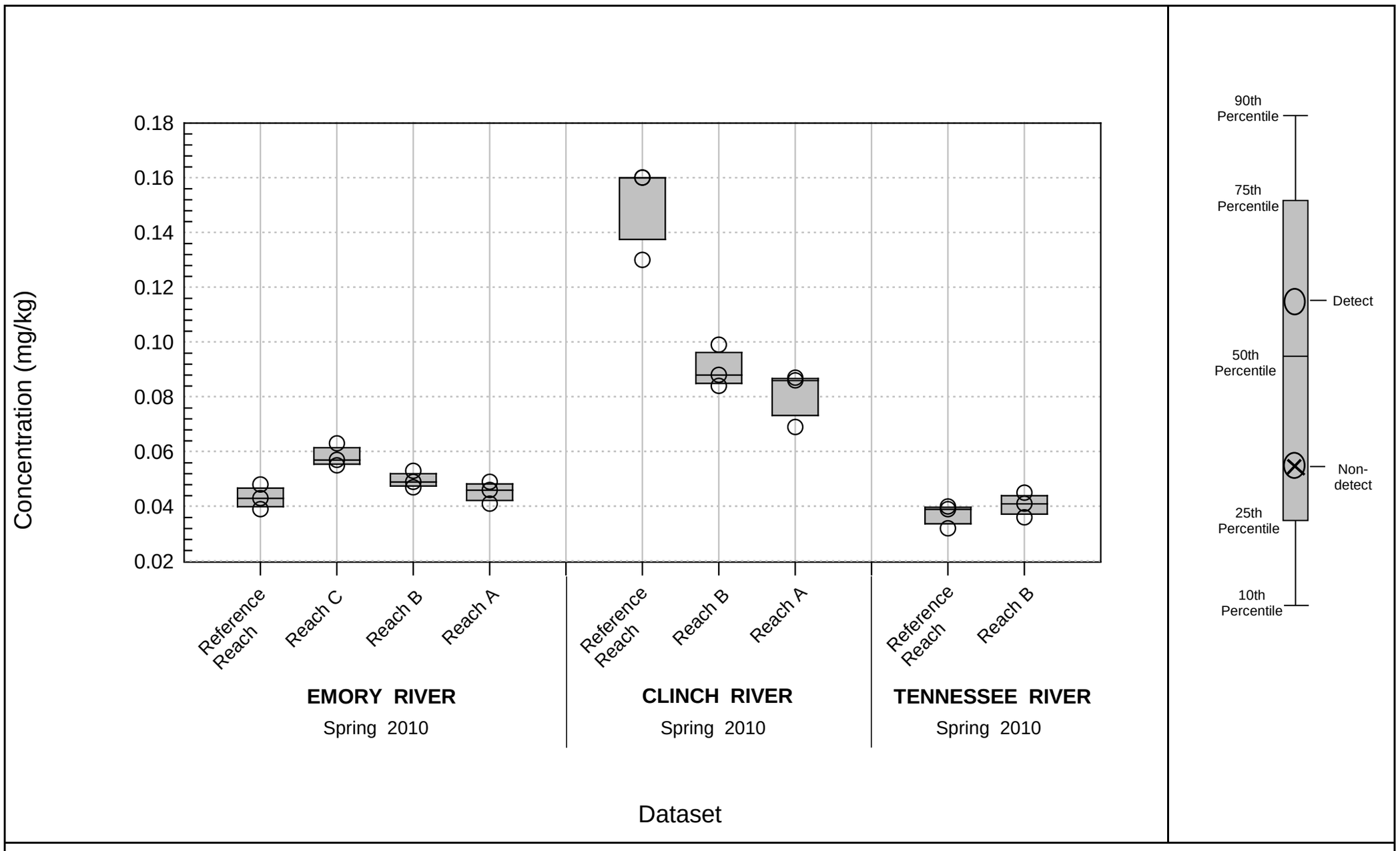
* Result value is < 25th percentile - 1.5*IQR or > 75th percentile + 1.5*IQR

-- = no data
All = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
IQR = interquartile range equals the 3rd quartile (75th percentile) - 1st quartile (25th percentile)
NA = value not applicable due to frequency of detection
ND = non-detect
R = Reference Reach
TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.

Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.

Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

Mayfly Nymph Whole Body Tissue Without Gut or Gut Contents
Mercury
TVA Kingston

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-R	mg/kg	0	3	3	NA	NA	0.039	0.048	0.043	0.043	0.005	0.040	0.043	0.047
ER-C	mg/kg	0	3	3	NA	NA	0.055	0.063	0.058	0.057	0.004	0.056	0.057	0.062
ER-B	mg/kg	0	3	3	NA	NA	0.047	0.053	0.050	0.049	0.003	0.047	0.049	0.052
ER-A	mg/kg	0	3	3	NA	NA	0.041	0.049	0.045	0.046	0.004	0.042	0.046	0.048
CR-R	mg/kg	0	3	3	NA	NA	0.13	0.16	0.15	0.16	0.017	0.14	0.16	0.16
CR-B	mg/kg	0	3	3	NA	NA	0.084	0.099	0.090	0.088	0.008	0.085	0.088	0.096
CR-A	mg/kg	0	3	3	NA	NA	0.069	0.087	0.081	0.086	0.010	0.073	0.086	0.087
TR-R	mg/kg	0	3	3	NA	NA	0.032	0.040	0.037	0.039	0.004	0.034	0.039	0.040
TR-B	mg/kg	0	3	3	NA	NA	0.036	0.045	0.041	0.041	0.005	0.037	0.041	0.044

Notes:

† Result value is < 25th percentile - 3*IQR or > 75th percentile + 3*IQR

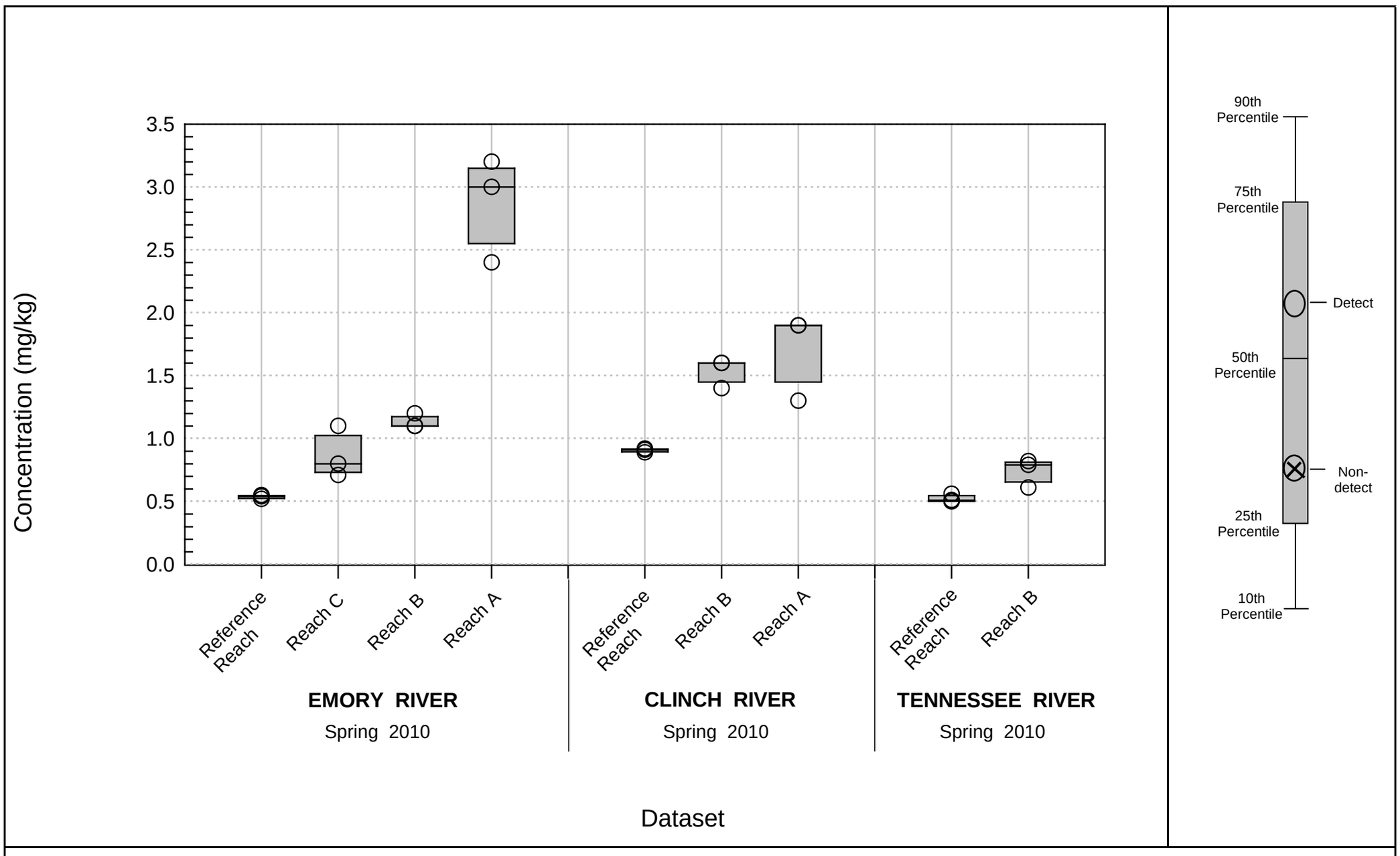
* Result value is < 25th percentile - 1.5*IQR or > 75th percentile + 1.5*IQR

-- = no data
All = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
IQR = interquartile range equals the 3rd quartile (75th percentile) - 1st quartile (25th percentile)
NA = value not applicable due to frequency of detection
ND = non-detect
R = Reference Reach
TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.

Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.

Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

Mayfly Nymph Whole Body Tissue Without Gut or Gut Contents
Molybdenum
TVA Kingston

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-R	mg/kg	0	3	3	NA	NA	0.52	0.55	0.54	0.54	0.015	0.52	0.54	0.55
ER-C	mg/kg	0	3	3	NA	NA	0.71	1.1	0.87	0.80	0.20	0.73	0.80	1.0
ER-B	mg/kg	0	3	3	NA	NA	1.1	1.2	1.1	1.1	0.058	1.1	1.1	1.2
ER-A	mg/kg	0	3	3	NA	NA	2.4	3.2	2.9	3.0	0.42	2.5	3.0	3.2
CR-R	mg/kg	0	3	3	NA	NA	0.89	0.92	0.91	0.91	0.015	0.89	0.91	0.92
CR-B	mg/kg	0	3	3	NA	NA	1.4	1.6	1.5	1.6	0.12	1.5	1.6	1.6
CR-A	mg/kg	0	3	3	NA	NA	1.3	1.9	1.7	1.9	0.35	1.5	1.9	1.9
TR-R	mg/kg	0	3	3	NA	NA	0.50	0.56	0.52	0.51	0.032	0.50	0.51	0.55
TR-B	mg/kg	0	3	3	NA	NA	0.61	0.82	0.74	0.79	0.11	0.65	0.79	0.81

Notes:

† Result value is < 25th percentile - 3*IQR or > 75th percentile + 3*IQR

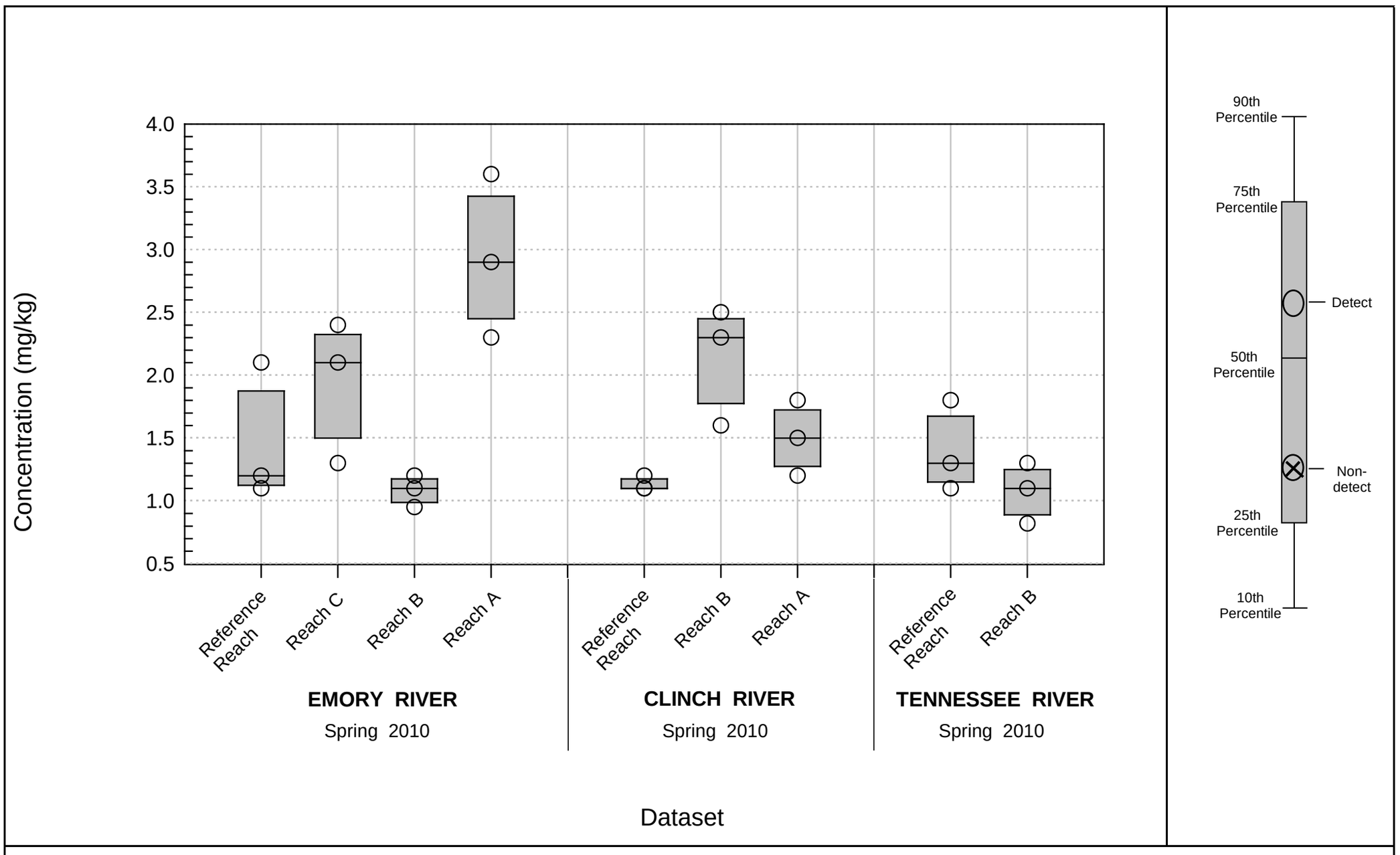
* Result value is < 25th percentile - 1.5*IQR or > 75th percentile + 1.5*IQR

-- = no data
All = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
IQR = interquartile range equals the 3rd quartile (75th percentile) - 1st quartile (25th percentile)
NA = value not applicable due to frequency of detection
ND = non-detect
R = Reference Reach
TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.

Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.

Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

Mayfly Nymph Whole Body Tissue Without Gut or Gut Contents

Nickel

TVA Kingston

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-R	mg/kg	0	3	3	NA	NA	1.1	2.1	1.5	1.2	0.55	1.1	1.2	1.9
ER-C	mg/kg	0	3	3	NA	NA	1.3	2.4	1.9	2.1	0.57	1.5	2.1	2.3
ER-B	mg/kg	0	3	3	NA	NA	0.95	1.2	1.1	1.1	0.13	0.99	1.1	1.2
ER-A	mg/kg	0	3	3	NA	NA	2.3	3.6	2.9	2.9	0.65	2.5	2.9	3.4
CR-R	mg/kg	0	3	3	NA	NA	1.1	1.2	1.1	1.1	0.058	1.1	1.1	1.2
CR-B	mg/kg	0	3	3	NA	NA	1.6	2.5	2.1	2.3	0.47	1.8	2.3	2.5
CR-A	mg/kg	0	3	3	NA	NA	1.2	1.8	1.5	1.5	0.30	1.3	1.5	1.7
TR-R	mg/kg	0	3	3	NA	NA	1.1	1.8	1.4	1.3	0.36	1.1	1.3	1.7
TR-B	mg/kg	0	3	3	NA	NA	0.82	1.3	1.1	1.1	0.24	0.89	1.1	1.3

Notes:

† Result value is < 25th percentile - 3*IQR or > 75th percentile + 3*IQR

* Result value is < 25th percentile - 1.5*IQR or > 75th percentile + 1.5*IQR

-- = no data

All = Reach A

B = Reach B

C = Reach C

CR = Clinch River

ER = Emory River

IQR = interquartile range equals the 3rd quartile (75th percentile) - 1st quartile (25th percentile)

NA = value not applicable due to frequency of detection

ND = non-detect

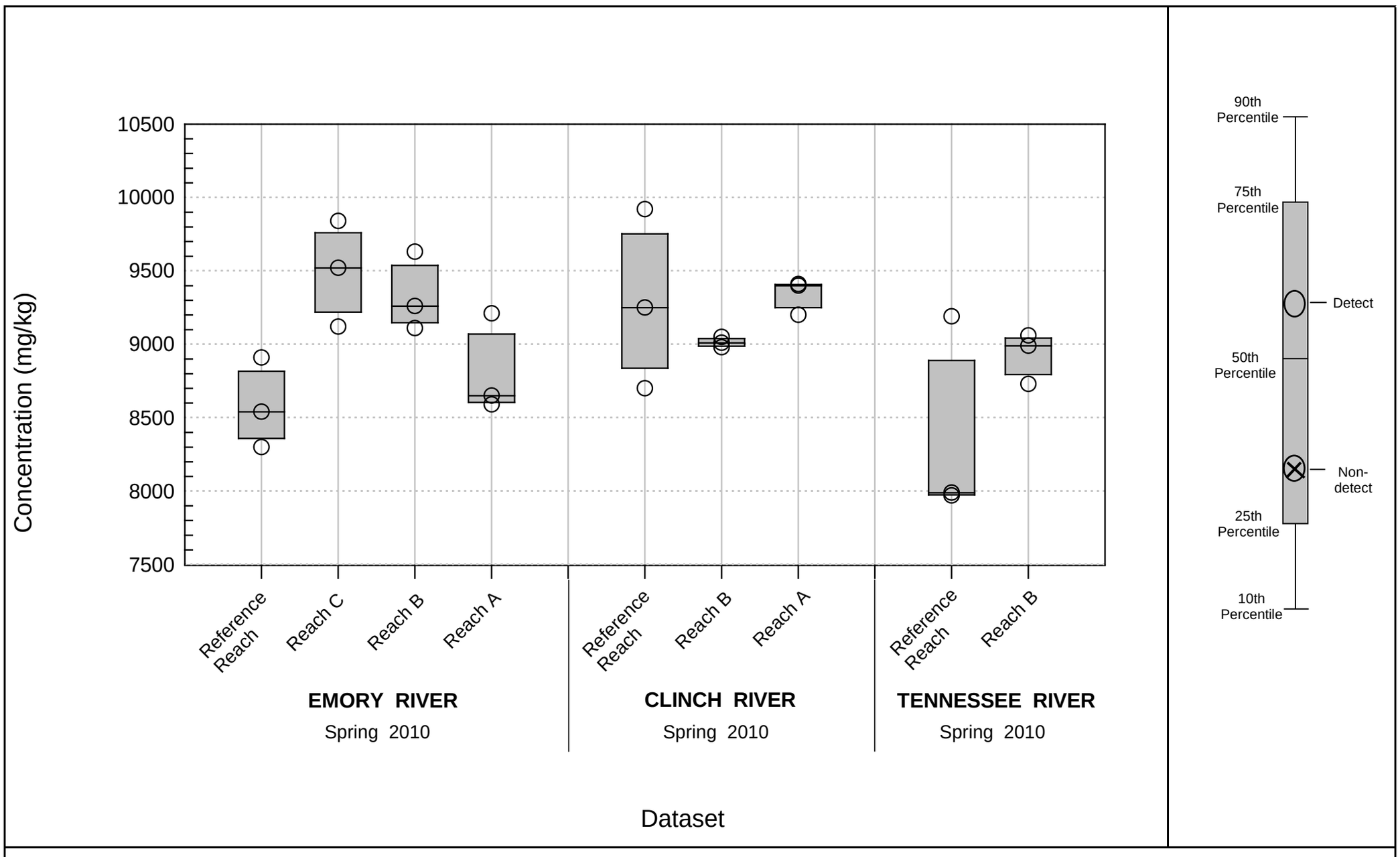
R = Reference Reach

TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.

Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.

Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

Mayfly Nymph Whole Body Tissue Without Gut or Gut Contents
Potassium
TVA Kingston

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-R	mg/kg	0	3	3	NA	NA	8,300	8,910	8,580	8,540	307	8,360	8,540	8,820
ER-C	mg/kg	0	3	3	NA	NA	9,120	9,840	9,490	9,520	361	9,220	9,520	9,760
ER-B	mg/kg	0	3	3	NA	NA	9,110	9,630	9,330	9,260	268	9,150	9,260	9,540
ER-A	mg/kg	0	3	3	NA	NA	8,590	9,210	8,820	8,650	342	8,610	8,650	9,070
CR-R	mg/kg	0	3	3	NA	NA	8,700	9,920	9,290	9,250	611	8,840	9,250	9,750
CR-B	mg/kg	0	3	3	NA	NA	8,980	9,050	9,010	9,010	35.1	8,990	9,010	9,040
CR-A	mg/kg	0	3	3	NA	NA	9,200	9,410	9,340	9,400	118	9,250	9,400	9,410
TR-R	mg/kg	0	3	3	NA	NA	7,970	9,190	8,380	7,990	699	7,980	7,990	8,890
TR-B	mg/kg	0	3	3	NA	NA	8,730	9,060	8,930	8,990	174	8,800	8,990	9,040

Notes:

† Result value is < 25th percentile - 3*IQR or > 75th percentile + 3*IQR

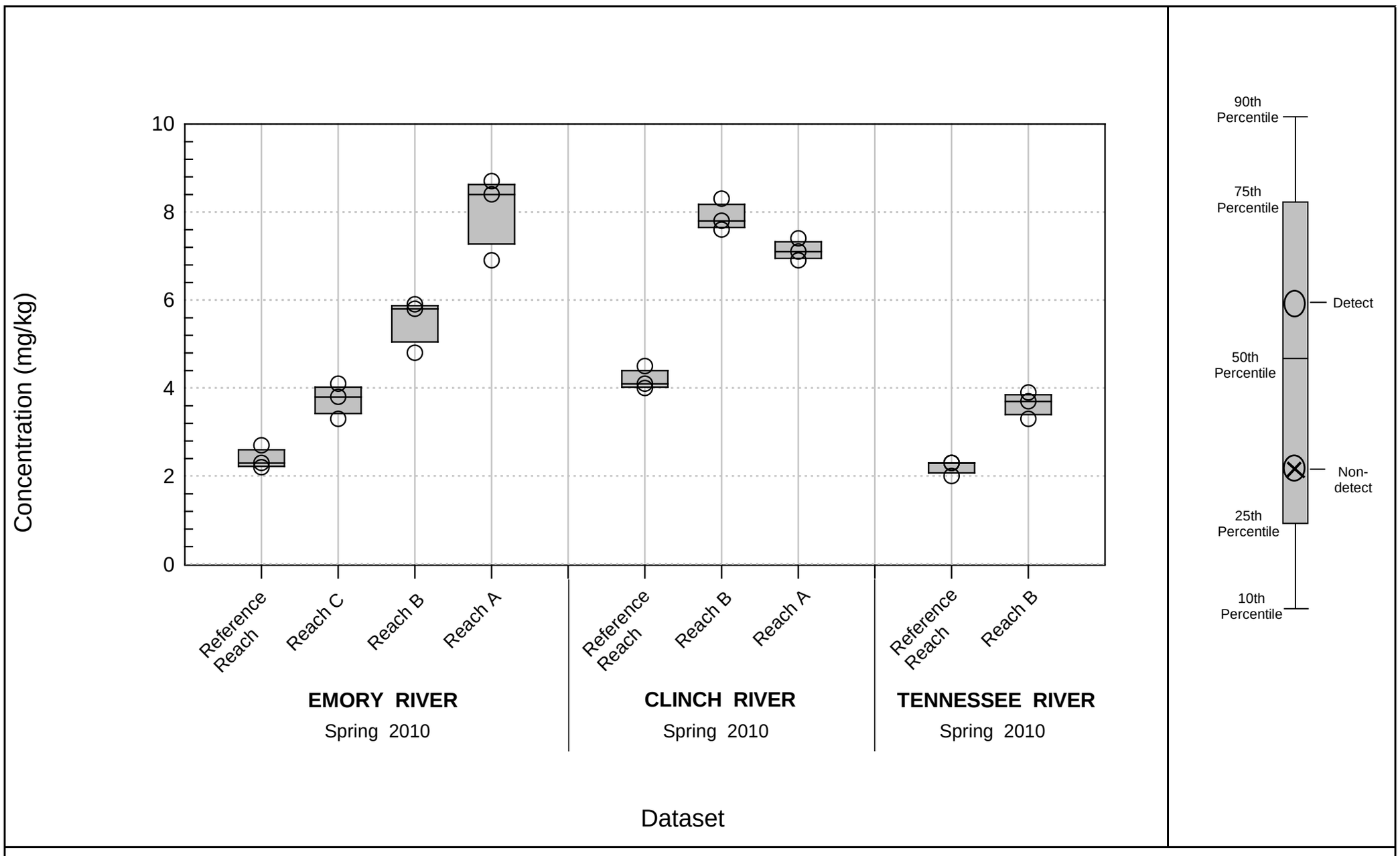
* Result value is < 25th percentile - 1.5*IQR or > 75th percentile + 1.5*IQR

-- = no data
All = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
IQR = interquartile range equals the 3rd quartile (75th percentile) - 1st quartile (25th percentile)
NA = value not applicable due to frequency of detection
ND = non-detect
R = Reference Reach
TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.

Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.

Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

Mayfly Nymph Whole Body Tissue Without Gut or Gut Contents
Selenium
TVA Kingston

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-R	mg/kg	0	3	3	NA	NA	2.2	2.7	2.4	2.3	0.26	2.2	2.3	2.6
ER-C	mg/kg	0	3	3	NA	NA	3.3	4.1	3.7	3.8	0.40	3.4	3.8	4.0
ER-B	mg/kg	0	3	3	NA	NA	4.8	5.9	5.5	5.8	0.61	5.1	5.8	5.9
ER-A	mg/kg	0	3	3	NA	NA	6.9	8.7	8.0	8.4	0.96	7.3	8.4	8.6
CR-R	mg/kg	0	3	3	NA	NA	4.0	4.5	4.2	4.1	0.26	4.0	4.1	4.4
CR-B	mg/kg	0	3	3	NA	NA	7.6	8.3	7.9	7.8	0.36	7.7	7.8	8.2
CR-A	mg/kg	0	3	3	NA	NA	6.9	7.4	7.1	7.1	0.25	6.9	7.1	7.3
TR-R	mg/kg	0	3	3	NA	NA	2.0	2.3	2.2	2.3	0.17	2.1	2.3	2.3
TR-B	mg/kg	0	3	3	NA	NA	3.3	3.9	3.6	3.7	0.31	3.4	3.7	3.8

Notes:

† Result value is < 25th percentile - 3*IQR or > 75th percentile + 3*IQR

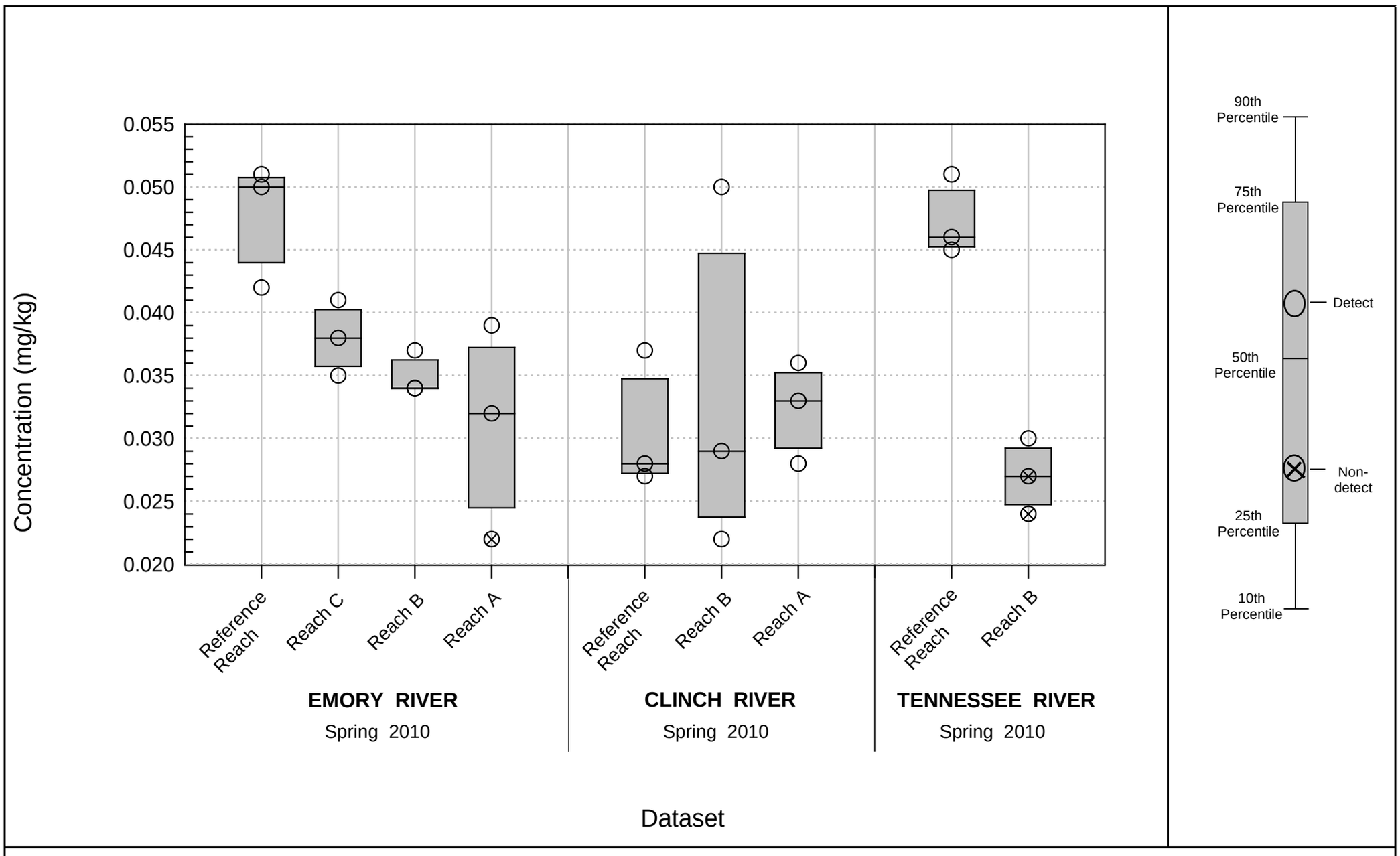
* Result value is < 25th percentile - 1.5*IQR or > 75th percentile + 1.5*IQR

-- = no data
All = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
IQR = interquartile range equals the 3rd quartile (75th percentile) - 1st quartile (25th percentile)
NA = value not applicable due to frequency of detection
ND = non-detect
R = Reference Reach
TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.

Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.

Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

Mayfly Nymph Whole Body Tissue Without Gut or Gut Contents
Silver
TVA Kingston

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-R	mg/kg	0	3	3	NA	NA	0.042	0.051	0.048	0.050	0.005	0.044	0.050	0.051
ER-C	mg/kg	0	3	3	NA	NA	0.035	0.041	0.038	0.038	0.003	0.036	0.038	0.040
ER-B	mg/kg	0	3	3	NA	NA	0.034	0.037	0.035	0.034	0.002	0.034	0.034	0.036
ER-A	mg/kg	1	2	3	0.022	0.022	0.032	0.039	0.036	0.036	0.005	0.024	0.032	0.037
CR-R	mg/kg	0	3	3	NA	NA	0.027	0.037	0.031	0.028	0.006	0.027	0.028	0.035
CR-B	mg/kg	0	3	3	NA	NA	0.022	0.050	0.034	0.029	0.015	0.024	0.029	0.045
CR-A	mg/kg	0	3	3	NA	NA	0.028	0.036	0.032	0.033	0.004	0.029	0.033	0.035
TR-R	mg/kg	0	3	3	NA	NA	0.045	0.051	0.047	0.046	0.003	0.045	0.046	0.050
TR-B	mg/kg	2	1	3	0.024	0.027	0.030	0.030	0.030	0.030	NA	0.025	0.027	0.029

Notes:

† Result value is < 25th percentile - 3*IQR or > 75th percentile + 3*IQR

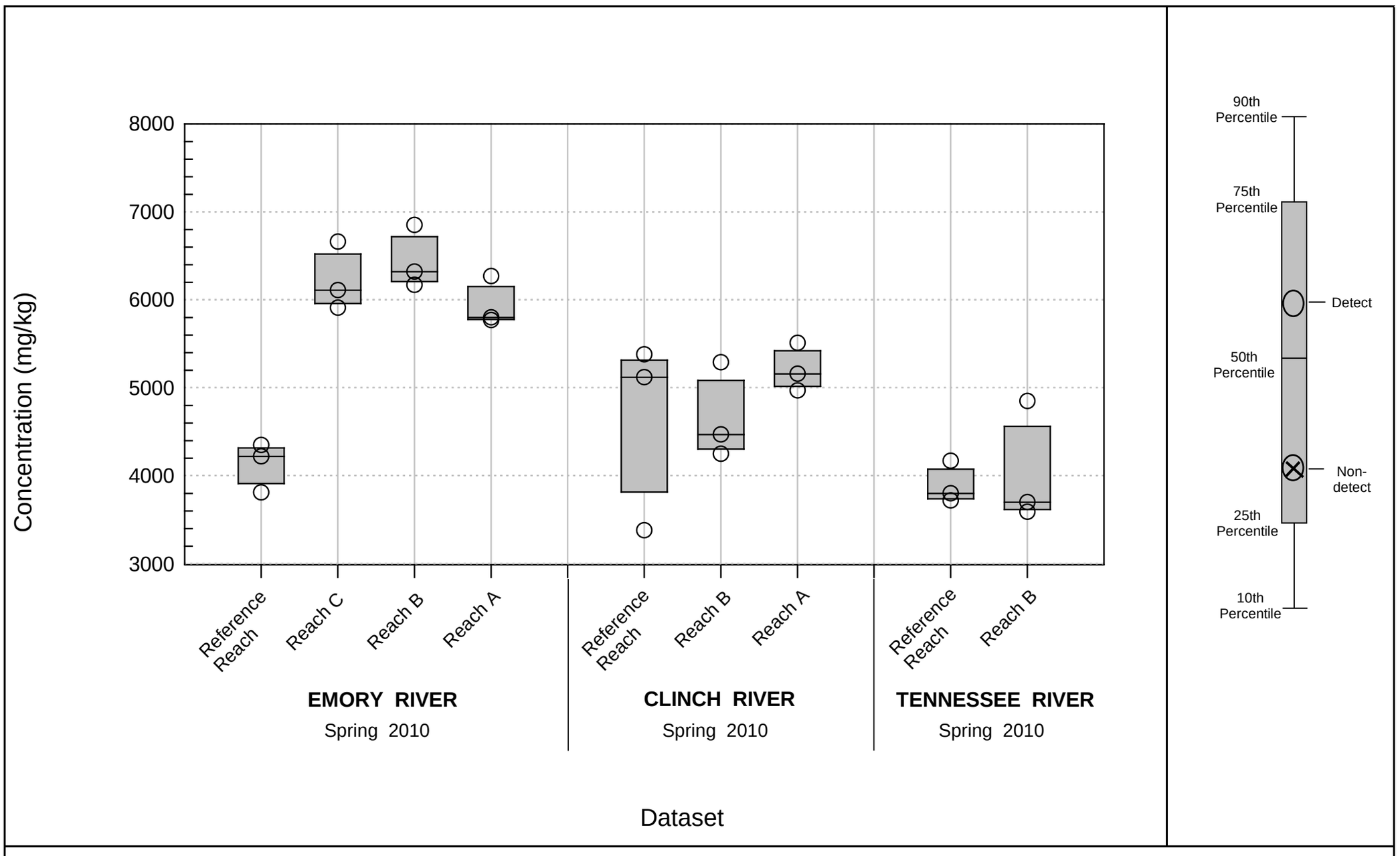
* Result value is < 25th percentile - 1.5*IQR or > 75th percentile + 1.5*IQR

-- = no data
All = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
IQR = interquartile range equals the 3rd quartile (75th percentile) - 1st quartile (25th percentile)
NA = value not applicable due to frequency of detection
ND = non-detect
R = Reference Reach
TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.

Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.

Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

Mayfly Nymph Whole Body Tissue Without Gut or Gut Contents
Sodium
TVA Kingston

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-R	mg/kg	0	3	3	NA	NA	3,810	4,350	4,130	4,220	282	3,910	4,220	4,320
ER-C	mg/kg	0	3	3	NA	NA	5,910	6,660	6,230	6,110	388	5,960	6,110	6,520
ER-B	mg/kg	0	3	3	NA	NA	6,170	6,850	6,450	6,320	357	6,210	6,320	6,720
ER-A	mg/kg	0	3	3	NA	NA	5,770	6,270	5,950	5,800	280	5,780	5,800	6,150
CR-R	mg/kg	0	3	3	NA	NA	3,380	5,380	4,630	5,120	1,090	3,820	5,120	5,320
CR-B	mg/kg	0	3	3	NA	NA	4,250	5,290	4,670	4,470	548	4,310	4,470	5,090
CR-A	mg/kg	0	3	3	NA	NA	4,970	5,510	5,210	5,160	274	5,020	5,160	5,420
TR-R	mg/kg	0	3	3	NA	NA	3,720	4,170	3,900	3,800	240	3,740	3,800	4,080
TR-B	mg/kg	0	3	3	NA	NA	3,590	4,850	4,050	3,700	698	3,620	3,700	4,560

Notes:

† Result value is < 25th percentile - 3*IQR or > 75th percentile + 3*IQR

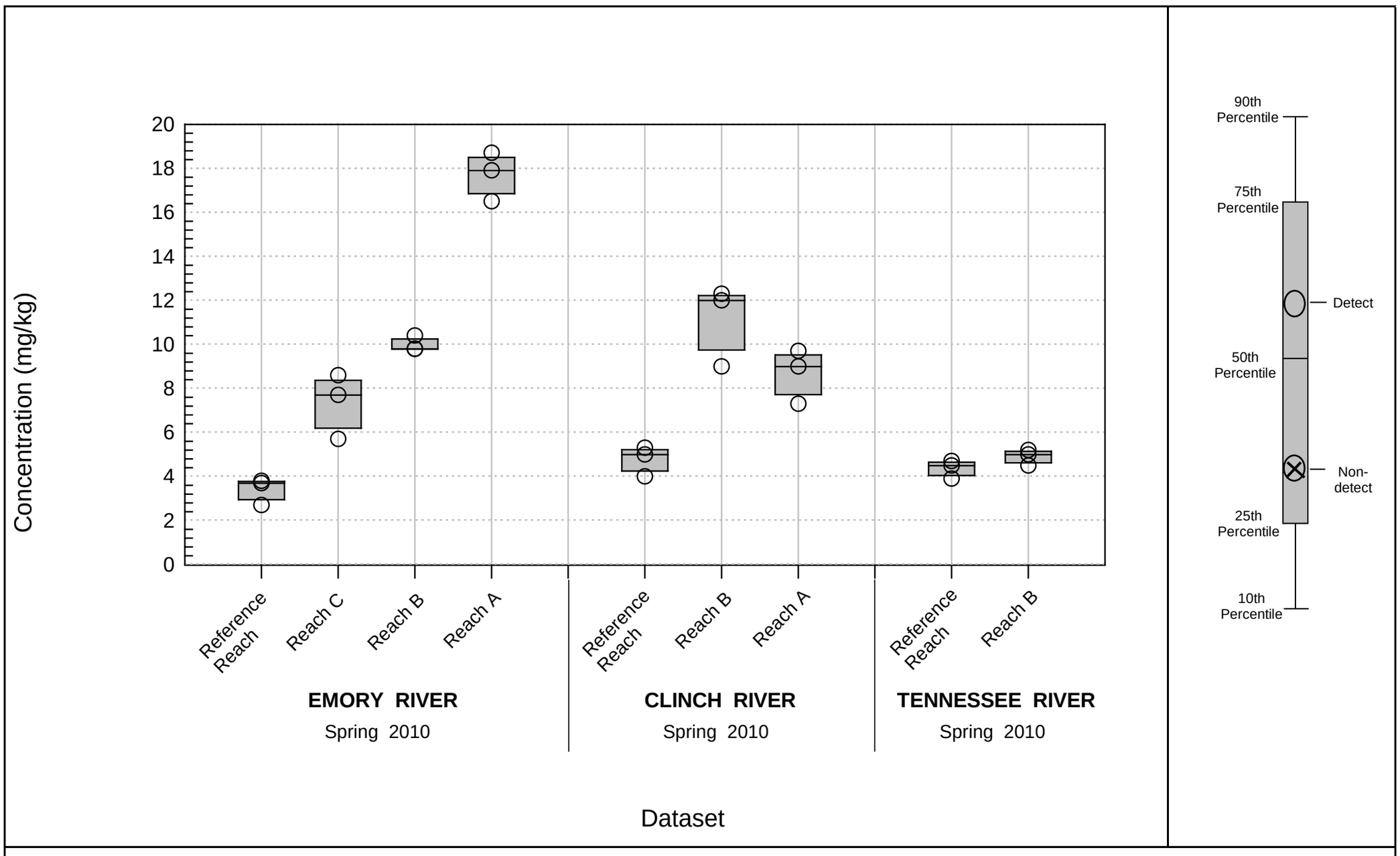
* Result value is < 25th percentile - 1.5*IQR or > 75th percentile + 1.5*IQR

-- = no data
All = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
IQR = interquartile range equals the 3rd quartile (75th percentile) - 1st quartile (25th percentile)
NA = value not applicable due to frequency of detection
ND = non-detect
R = Reference Reach
TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.

Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.

Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

Mayfly Nymph Whole Body Tissue Without Gut or Gut Contents
Strontium
TVA Kingston

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-R	mg/kg	0	3	3	NA	NA	2.7	3.8	3.4	3.7	0.61	3.0	3.7	3.8
ER-C	mg/kg	0	3	3	NA	NA	5.7	8.6	7.3	7.7	1.5	6.2	7.7	8.4
ER-B	mg/kg	0	3	3	NA	NA	9.8	10.4	10.0	9.8	0.35	9.8	9.8	10.3
ER-A	mg/kg	0	3	3	NA	NA	16.5	18.7	17.7	17.9	1.1	16.9	17.9	18.5
CR-R	mg/kg	0	3	3	NA	NA	4.0	5.3	4.8	5.0	0.68	4.3	5.0	5.2
CR-B	mg/kg	0	3	3	NA	NA	9.0	12.3	11.1	12.0	1.8	9.8	12.0	12.2
CR-A	mg/kg	0	3	3	NA	NA	7.3	9.7	8.7	9.0	1.2	7.7	9.0	9.5
TR-R	mg/kg	0	3	3	NA	NA	3.9	4.7	4.4	4.5	0.42	4.1	4.5	4.7
TR-B	mg/kg	0	3	3	NA	NA	4.5	5.2	4.9	5.0	0.36	4.6	5.0	5.2

Notes:

† Result value is < 25th percentile - 3*IQR or > 75th percentile + 3*IQR

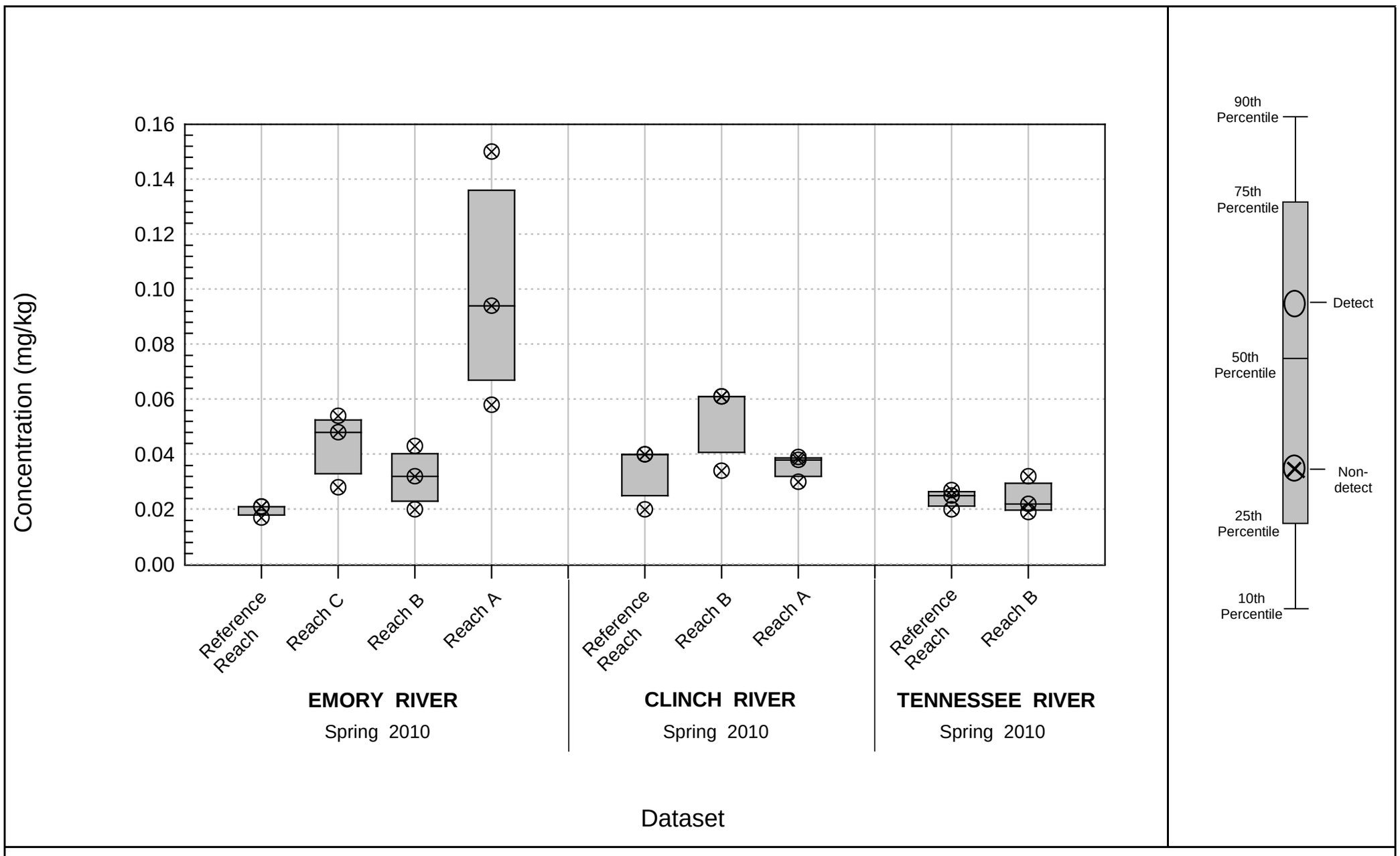
* Result value is < 25th percentile - 1.5*IQR or > 75th percentile + 1.5*IQR

-- = no data
All = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
IQR = interquartile range equals the 3rd quartile (75th percentile) - 1st quartile (25th percentile)
NA = value not applicable due to frequency of detection
ND = non-detect
R = Reference Reach
TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.

Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.

Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

Mayfly Nymph Whole Body Tissue Without Gut or Gut Contents
Thallium
TVA Kingston

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-R	mg/kg	3	0	3	0.017	0.021	ND	ND	ND	ND	ND	0.018	0.021	0.021
ER-C	mg/kg	3	0	3	0.028	0.054	ND	ND	ND	ND	ND	0.033	0.048	0.052
ER-B	mg/kg	3	0	3	0.020	0.043	ND	ND	ND	ND	ND	0.023	0.032	0.040
ER-A	mg/kg	3	0	3	0.058	0.15	ND	ND	ND	ND	ND	0.067	0.094	0.14
CR-R	mg/kg	3	0	3	0.020	0.040	ND	ND	ND	ND	ND	0.025	0.040	0.040
CR-B	mg/kg	3	0	3	0.034	0.061	ND	ND	ND	ND	ND	0.041	0.061	0.061
CR-A	mg/kg	3	0	3	0.030	0.039	ND	ND	ND	ND	ND	0.032	0.038	0.039
TR-R	mg/kg	3	0	3	0.020	0.027	ND	ND	ND	ND	ND	0.021	0.025	0.026
TR-B	mg/kg	3	0	3	0.019	0.032	ND	ND	ND	ND	ND	0.020	0.022	0.030

Notes:

† Result value is < 25th percentile - 3*IQR or > 75th percentile + 3*IQR

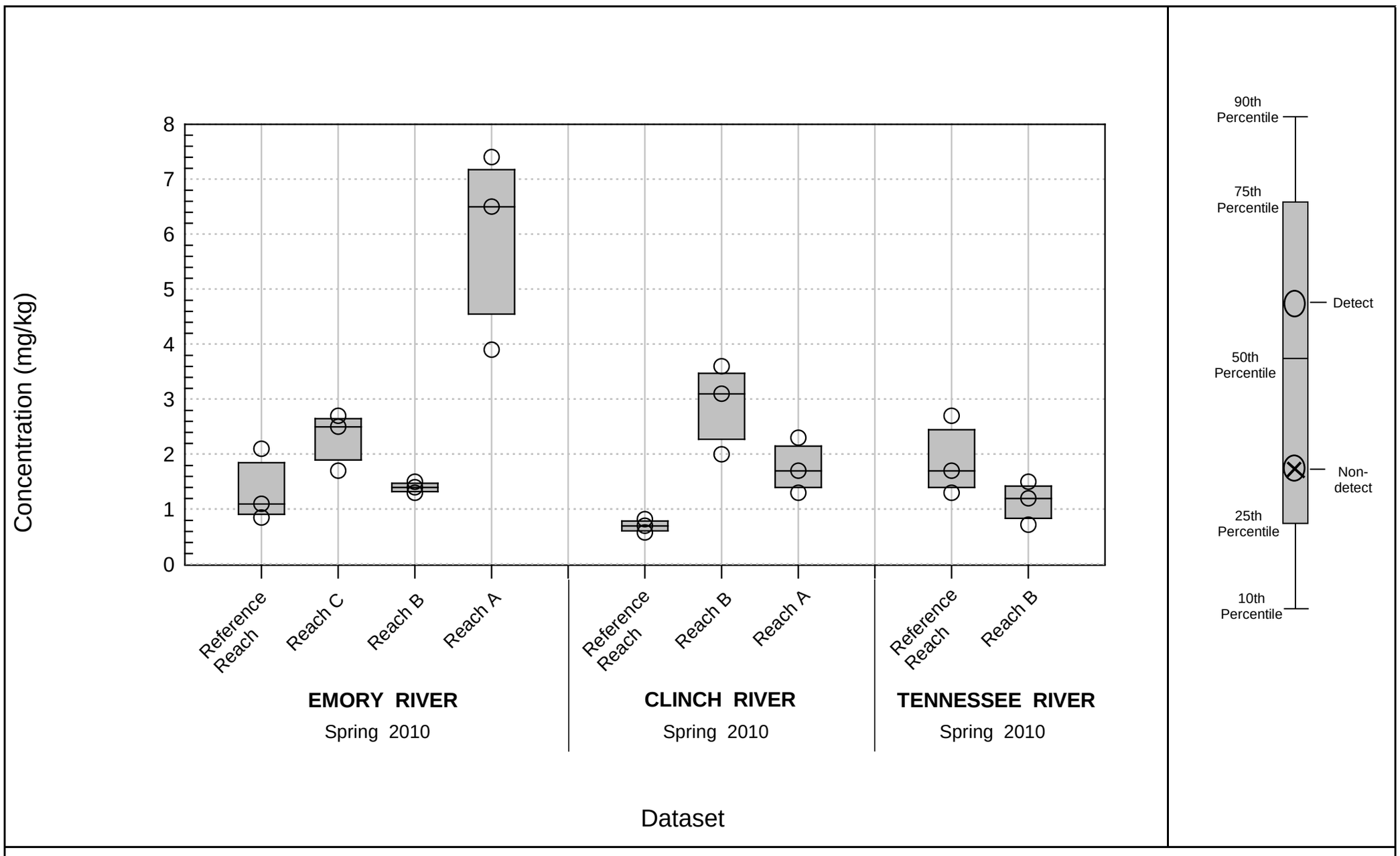
* Result value is < 25th percentile - 1.5*IQR or > 75th percentile + 1.5*IQR

-- = no data
All = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
IQR = interquartile range equals the 3rd quartile (75th percentile) - 1st quartile (25th percentile)
NA = value not applicable due to frequency of detection
ND = non-detect
R = Reference Reach
TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.

Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.

Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

Mayfly Nymph Whole Body Tissue Without Gut or Gut Contents
Vanadium
TVA Kingston

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-R	mg/kg	0	3	3	NA	NA	0.85	2.1	1.4	1.1	0.66	0.91	1.1	1.9
ER-C	mg/kg	0	3	3	NA	NA	1.7	2.7	2.3	2.5	0.53	1.9	2.5	2.7
ER-B	mg/kg	0	3	3	NA	NA	1.3	1.5	1.4	1.4	0.10	1.3	1.4	1.5
ER-A	mg/kg	0	3	3	NA	NA	3.9	7.4	5.9	6.5	1.8	4.6	6.5	7.2
CR-R	mg/kg	0	3	3	NA	NA	0.58	0.82	0.70	0.70	0.12	0.61	0.70	0.79
CR-B	mg/kg	0	3	3	NA	NA	2.0	3.6	2.9	3.1	0.82	2.3	3.1	3.5
CR-A	mg/kg	0	3	3	NA	NA	1.3	2.3	1.8	1.7	0.50	1.4	1.7	2.2
TR-R	mg/kg	0	3	3	NA	NA	1.3	2.7	1.9	1.7	0.72	1.4	1.7	2.5
TR-B	mg/kg	0	3	3	NA	NA	0.72	1.5	1.1	1.2	0.39	0.84	1.2	1.4

Notes:

† Result value is < 25th percentile - 3*IQR or > 75th percentile + 3*IQR

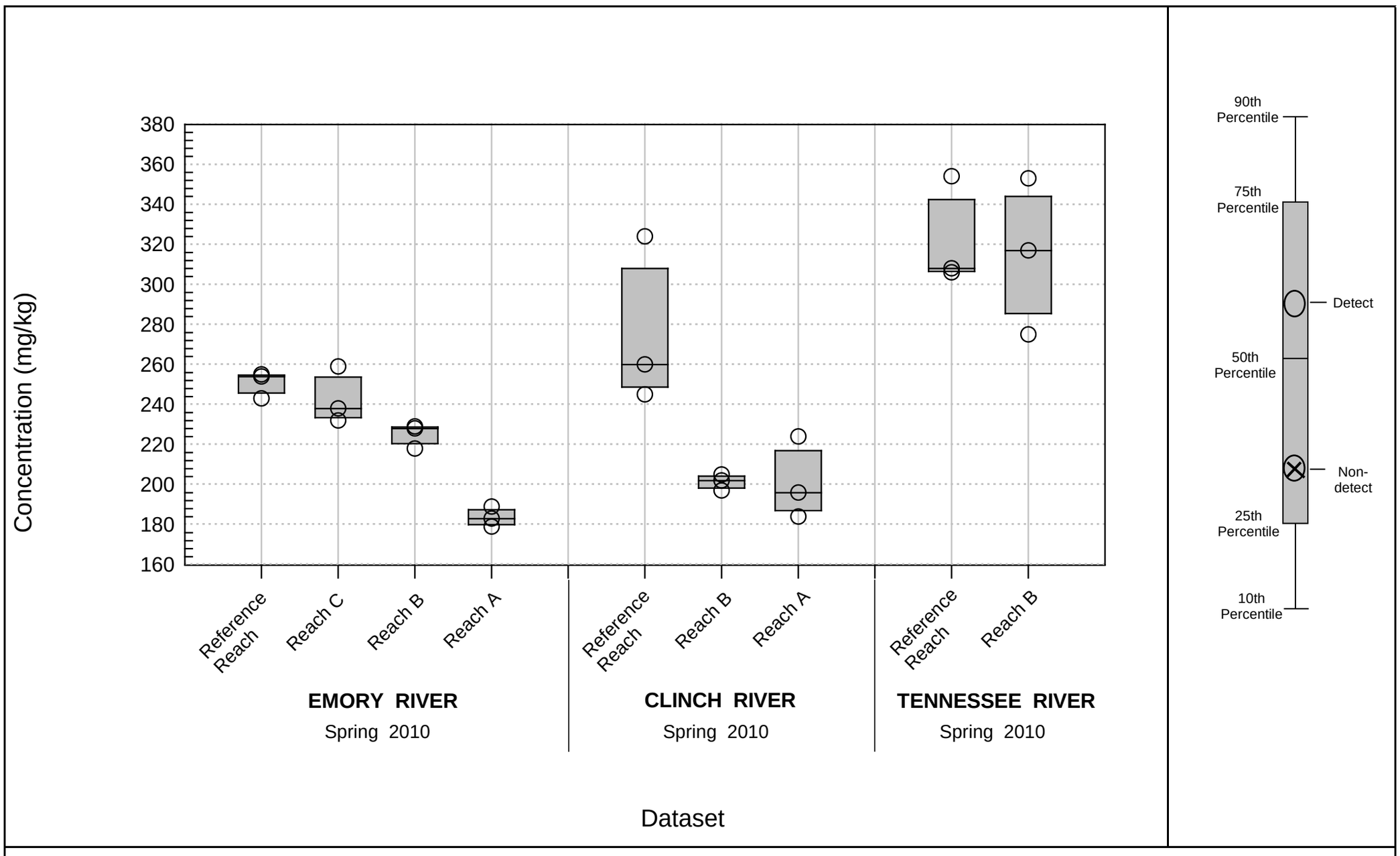
* Result value is < 25th percentile - 1.5*IQR or > 75th percentile + 1.5*IQR

-- = no data
All = Reach A
B = Reach B
C = Reach C
CR = Clinch River
ER = Emory River
IQR = interquartile range equals the 3rd quartile (75th percentile) - 1st quartile (25th percentile)
NA = value not applicable due to frequency of detection
ND = non-detect
R = Reference Reach
TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.

Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.

Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.



ARCADIS

Mayfly Nymph Whole Body Tissue Without Gut or Gut Contents

Zinc

TVA Kingston

Dataset	Units	Sample Size			ND Range		Detects					Percentiles (All Data)		
		NDs	Detects	Total	Min	Max	Min	Max	Mean	Median	SD	25th	50th	75th
ER-R	mg/kg	0	3	3	NA	NA	243	255	251	254	6.7	246	254	255
ER-C	mg/kg	0	3	3	NA	NA	232	259	243	238	14.2	234	238	254
ER-B	mg/kg	0	3	3	NA	NA	218	229	225	228	6.1	221	228	229
ER-A	mg/kg	0	3	3	NA	NA	179	189	184	183	5.0	180	183	188
CR-R	mg/kg	0	3	3	NA	NA	245	324	276	260	42.0	249	260	308
CR-B	mg/kg	0	3	3	NA	NA	197	205	201	202	4.0	198	202	204
CR-A	mg/kg	0	3	3	NA	NA	184	224	201	196	20.5	187	196	217
TR-R	mg/kg	0	3	3	NA	NA	306	354	323	308	27.2	307	308	343
TR-B	mg/kg	0	3	3	NA	NA	275	353	315	317	39.0	286	317	344

Notes:

† Result value is < 25th percentile - 3*IQR or > 75th percentile + 3*IQR

* Result value is < 25th percentile - 1.5*IQR or > 75th percentile + 1.5*IQR

-- = no data

All = Reach A

B = Reach B

C = Reach C

CR = Clinch River

ER = Emory River

IQR = interquartile range equals the 3rd quartile (75th percentile) - 1st quartile (25th percentile)

NA = value not applicable due to frequency of detection

ND = non-detect

R = Reference Reach

TR = Tennessee River

Reporting limit is used for non-detects unless otherwise noted.

Values less than 10 are reported to 2 significant figures. Values greater than 10 are reported to 3 significant figures.

Percentiles are calculated using the Cleveland method as described in SigmaPlot for Windows Version 11.0, Systat Software 2008.