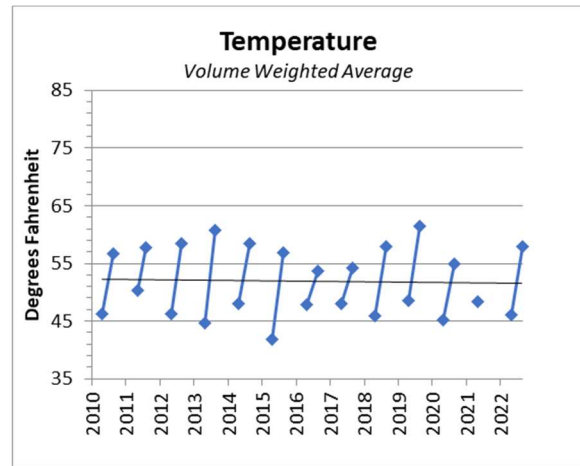
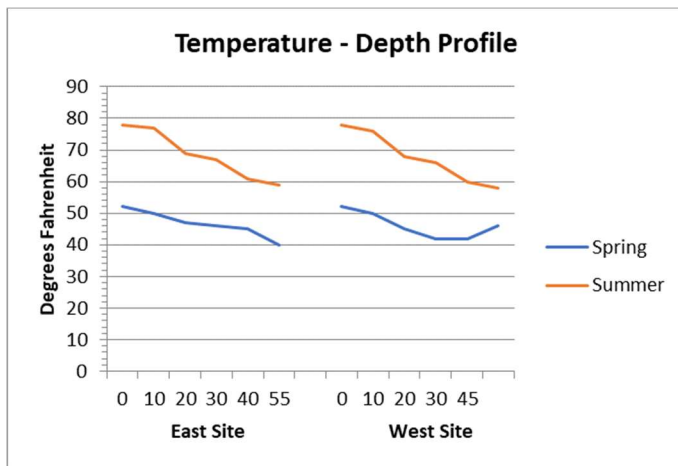


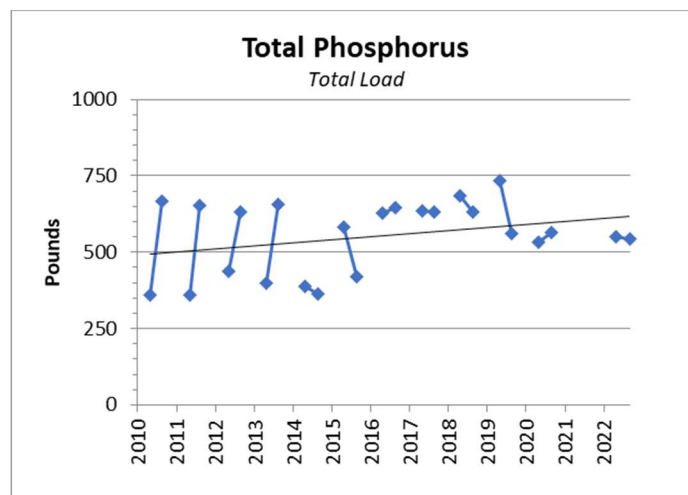
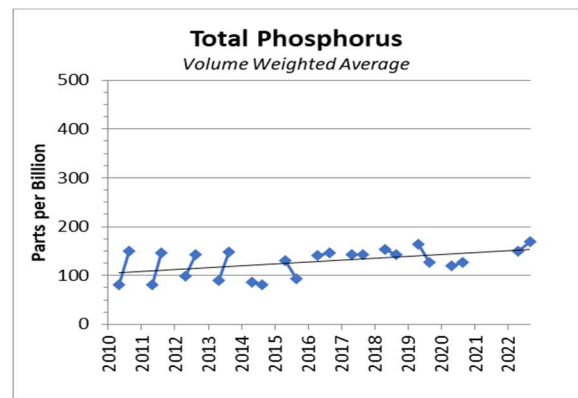
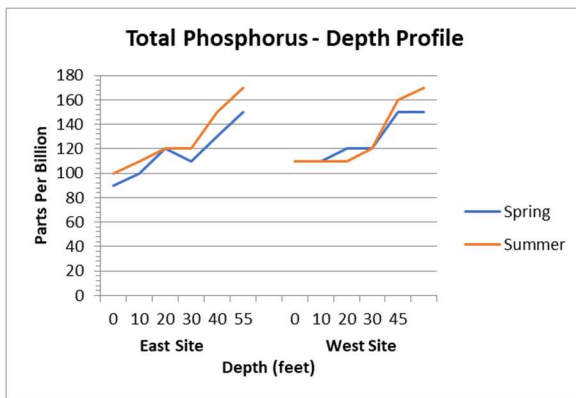
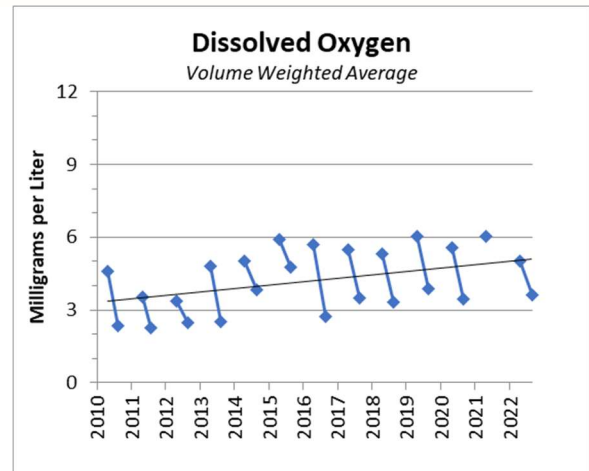
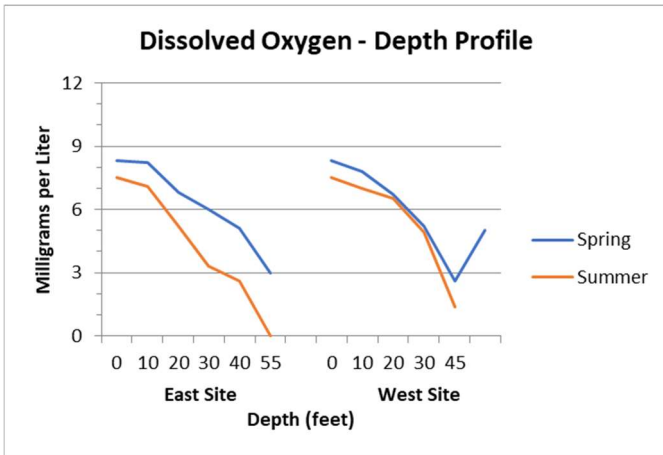


2022 Island Lake Water Quality Review

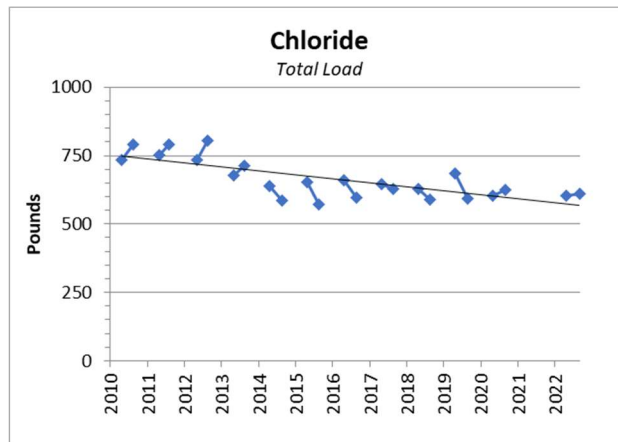
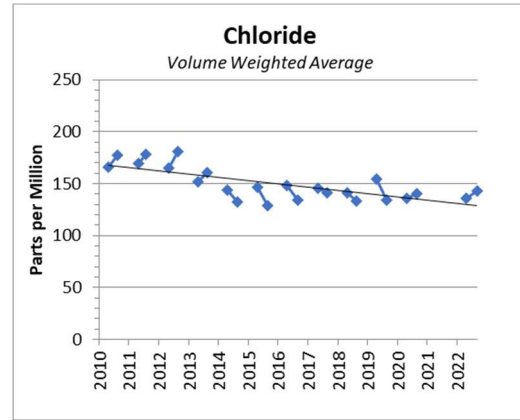
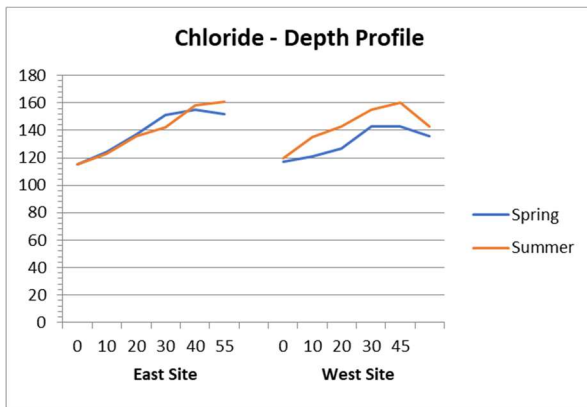
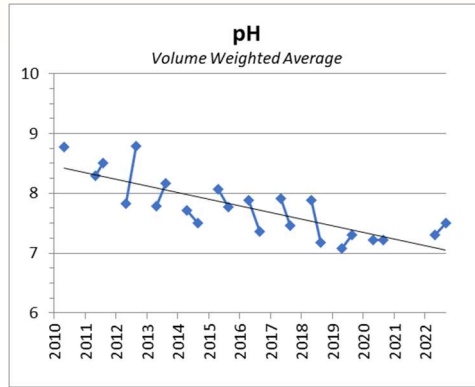
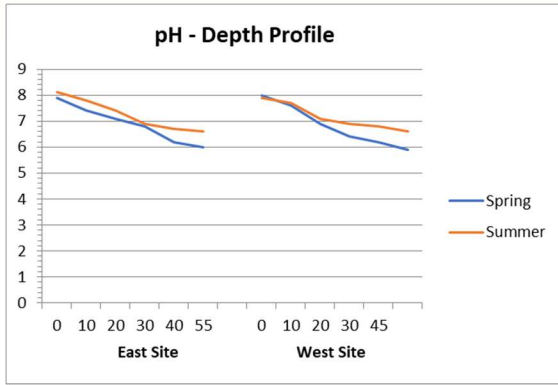
Results

Parameter	2022 Season Average	Target Range	Status
Temperature	65.4 °F	Less than 75 °F	● Healthy
Dissolved Oxygen	7.8 mg/L	4.0 – 12.0 mg/L	● Healthy
Total Phosphorus	85 ppb	0 – 100 ppb	● Healthy
Phosphate	50 ppb	0 – 100 ppb	● Healthy
Nitrate-Nitrogen	70 ppb	0 – 200 ppb	● Healthy
Chlorophyll-a	5.0 ppb	0 – 7.3 ppb	● Healthy
Transparency	6.3 feet	More than 6.5 feet	● Healthy
pH	8.1 S.U.	7.0 – 9.0 S.U.	● Healthy
Total Dissolved Solids	374 ppm	0 – 1,000 ppm	● Healthy
Conductivity	716 ppm	0 – 1,500 ppm	● Healthy
Alkalinity	140 ppm	100 – 250 ppm	● Healthy
Sulfate	11.6 ppm	3 – 30 ppm	● Healthy
Fluoride	0.10 ppm	0.01 – 0.30 ppm	● Healthy
Chloride	115 ppm	0 – 230 ppm	● Healthy



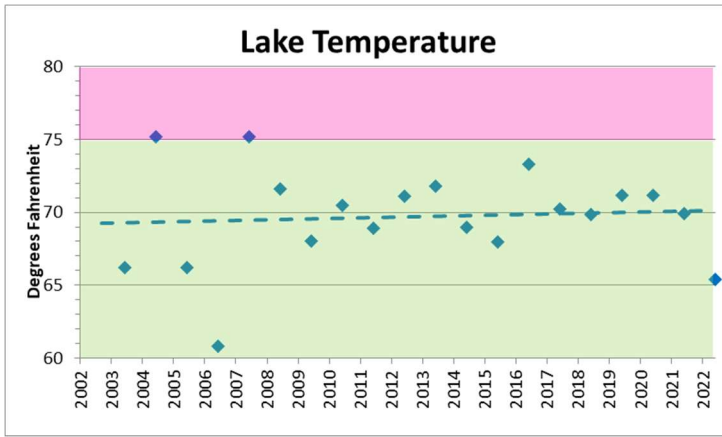


Category	Water Quality Parameter	Trophic State Index (season average)	Classification
Nutrients	Total Phosphorus	68	Eutrophic
Plant Production	Chlorophyll	46	Mesotrophic
Clarity	Transparency	52	Eutrophic

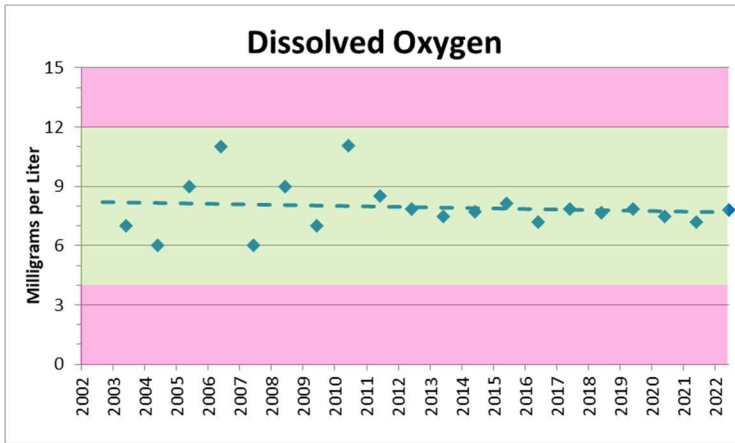




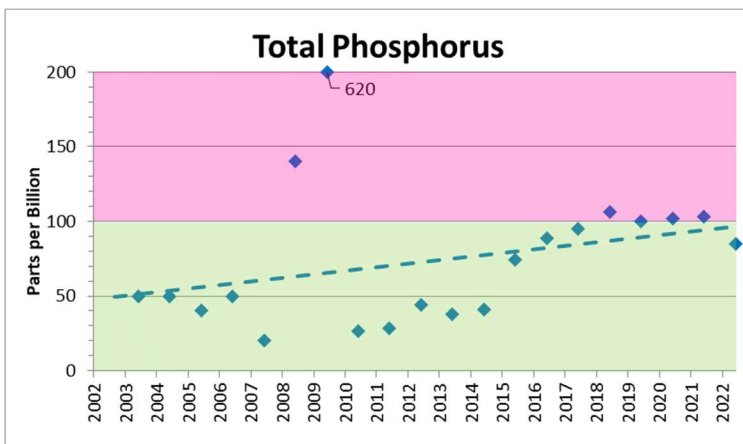
Historical Trends & Monthly Data



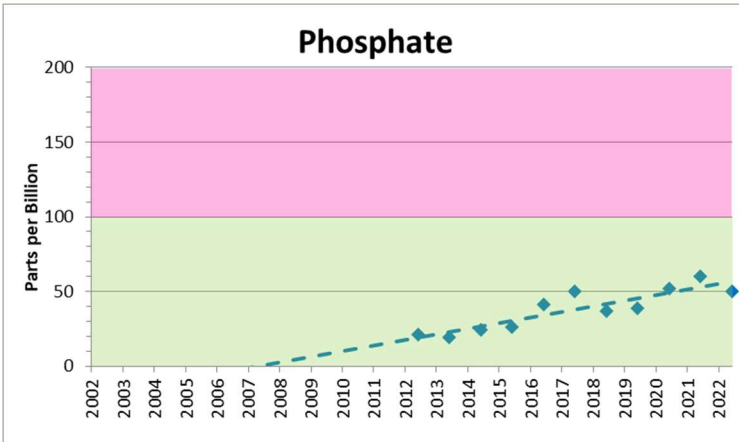
Lake Temperature (°F)		
	April	August
West	53.5	78.5
East	53.1	78.5
Season Average	65.4	



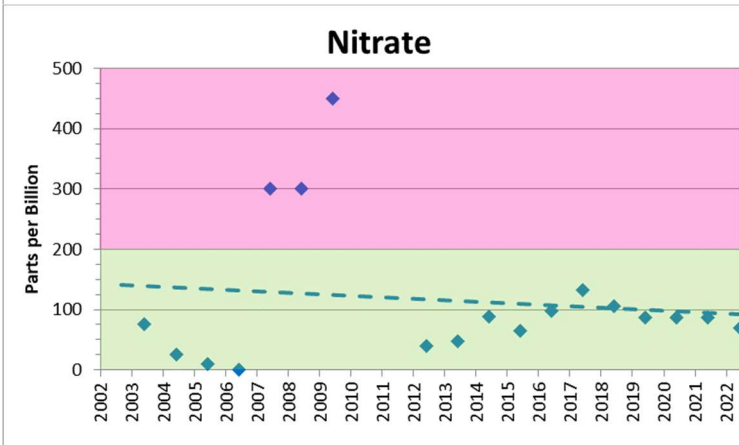
Dissolved Oxygen (mg/L)		
	April	August
West	8.1	6.1
East	8.3	6.3
Season Average	7.2	



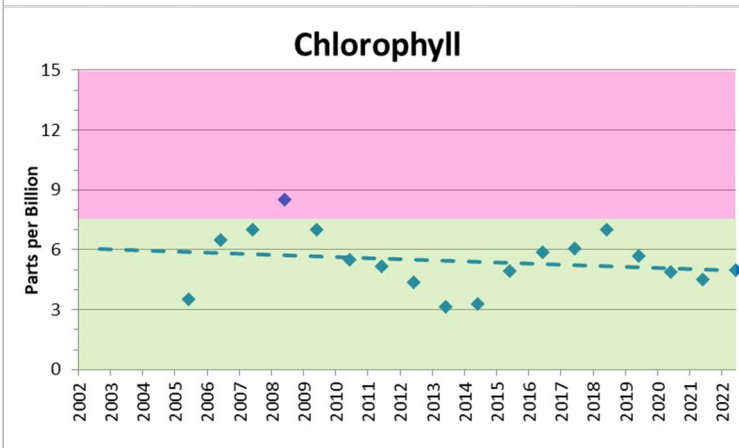
Total Phosphorus (ppb)		
	April	August
West	80	110
East	120	120
Season Average	108	



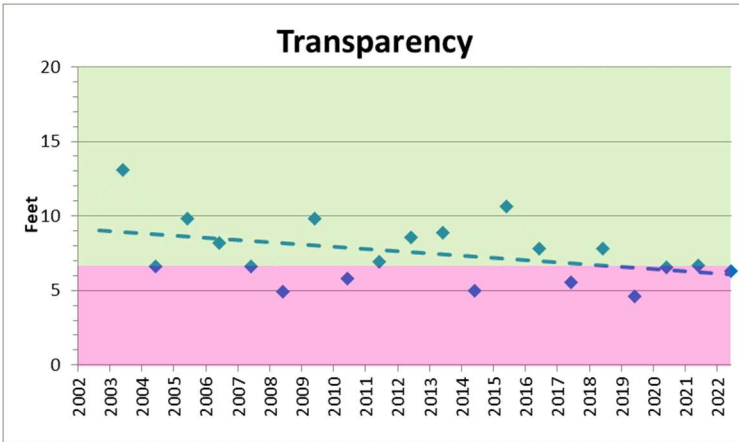
Phosphate (ppb)		
	April	August
West	50	50
East	80	60
Season Average		60



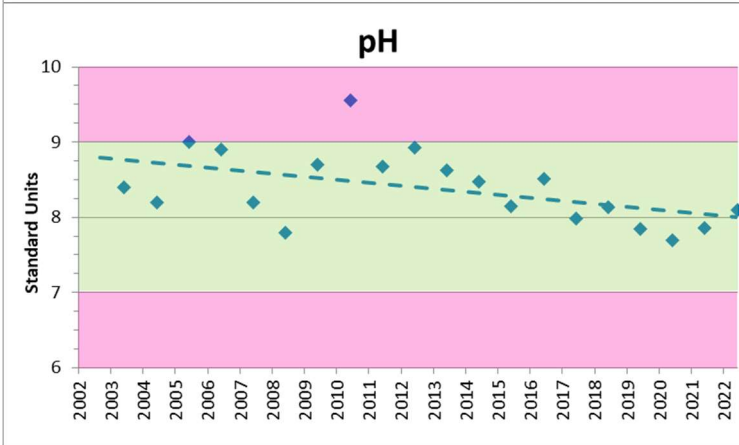
Nitrate-Nitrogen (ppb)		
	April	August
West	130	20
East	90	40
Season Average		70



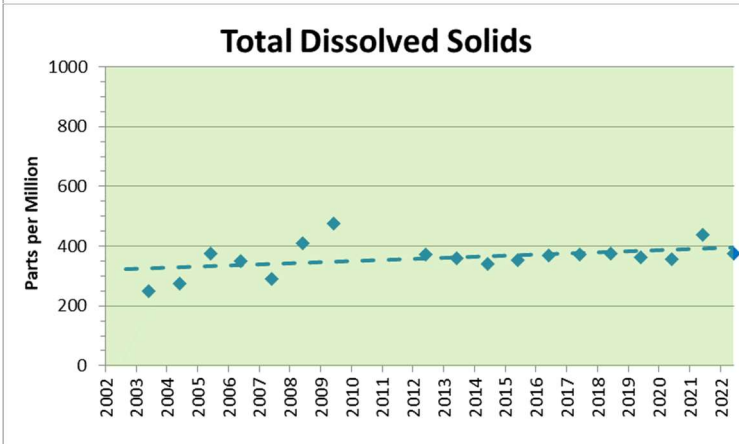
Chlorophyll (ppb)		
	April	August
West	2.7	4.6
East	3.1	6.9
Season Average		4.3



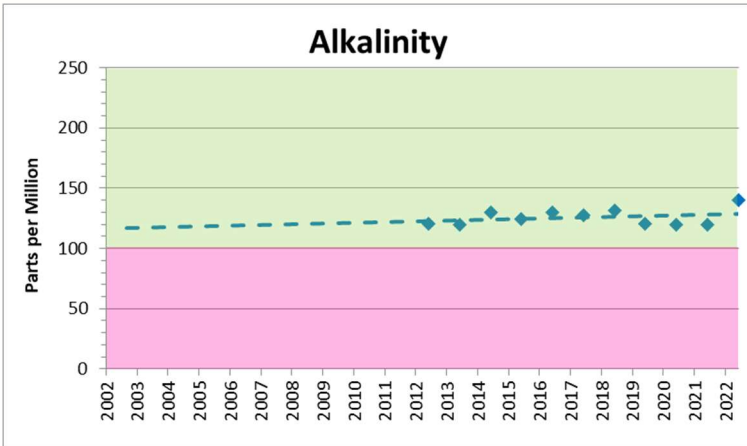
Transparency		
	April	August
West	2.3	7.3
East	2.1	8.2
Season Average	5.0	



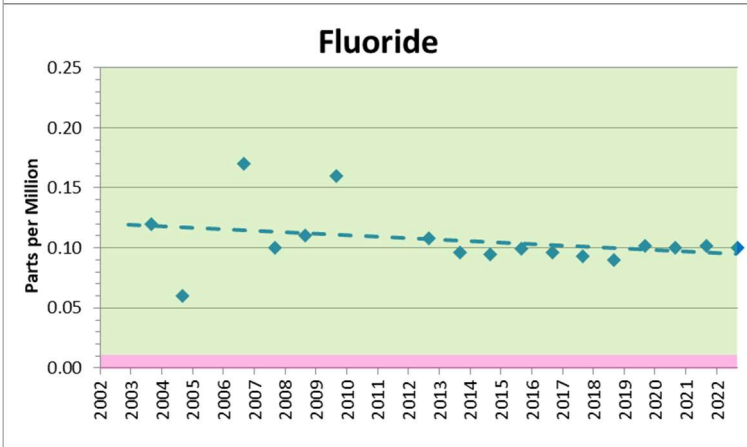
pH		
	April	August
West	8.1	7.7
East	7.3	7.9
Season Average	7.8	



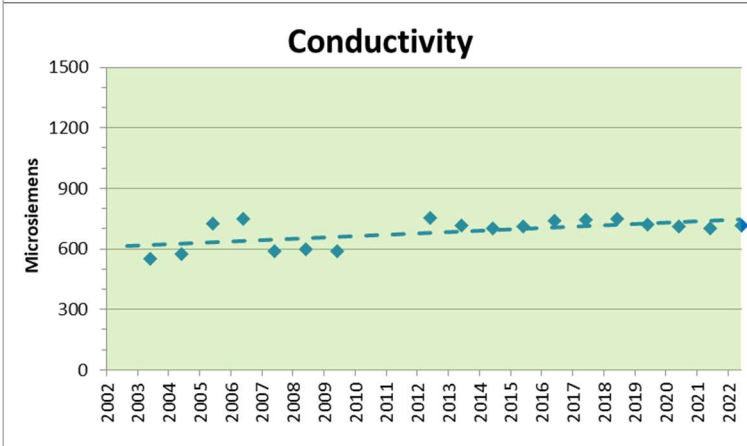
Total Dissolved Solids (ppm)		
	April	August
West	379	358
East	379	357
Season Average	368	



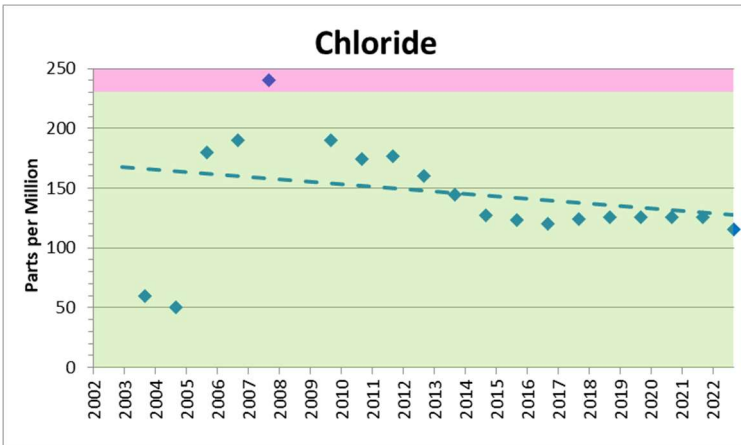
Alkalinity (ppm)		
	April	August
West	135	115
East	138	109
Season Average		124



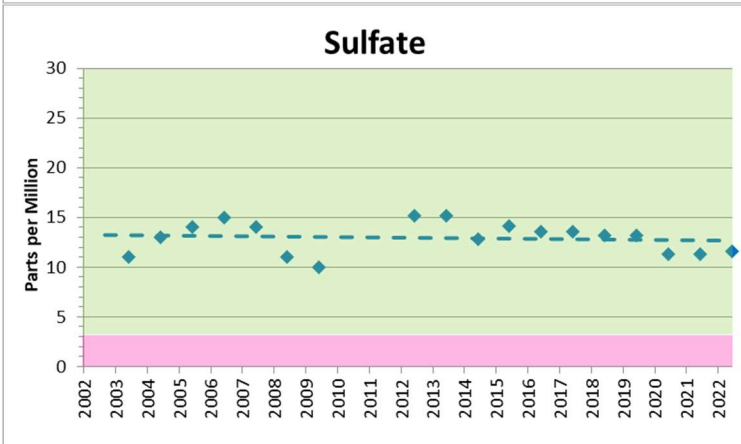
Fluoride (ppm)		
	April	August
West	0.09	0.10
East	0.09	0.11
Season Average		0.10



Conductivity (µS)		
	April	August
West	757	715
East	757	714
Season Average		736



Chloride (ppm)		
	April	August
West	115	120
East	117	125
Season Average	119	



Sulfate (ppm)		
	April	August
West	12.5	11.1
East	12.2	10.8
Season Average	11.7	

