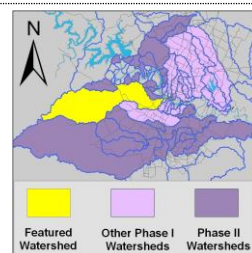


Barton Creek Watershed

Summary Sheet

Summary Sheet					
Catchment	Total area		108.7 square miles		
	Area in recharge		7.8 square miles		
	Creek length		49.5 miles		
	Receiving water		Town Lake		
Demographics	2000 population		35,792		
	2030 projected population		52,000		
	30 year projected % increase		145 %		
Land Use	Impervious cover (2003 estimate)		3.84 %		
Overall EII Scores	2000	2003	2006	2009	2011
	77	87	75	77	77



Flow Regime* for Sample Sites on Barton Creek

Site #	Site Name	2006					2009					2010	2011			
		Feb	Mar	Jul	Aug	Nov	Feb	Mar	Jun	Oct	Dec	Dec	Mar	Jun	Jun	Sep
		WO	WO	Bio	WO	WO	WO	WO	Bio	WO	WO	WO	WO	WO	Bio	WO
44	Stark						n	n	n	B	B	B	B	B	B	n
46	Shield						n	n	n	B	B	B	B	B	B	n
48	Hwy71 ds LBA	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
49	Onletree	B		B	B							B	B	B	B	n
50	Leif Johnson						B	B	B	B	B					
51	Lost Ck	B	B	B	B	B	B	B	B	B	B	B	B	B	B	n
88	350m ds Lost Ck Blvd															
879	btwn dams us BSP	n	B	N	n	n	n	n	n	B	B	B	B	B	n	n

* B = baseflow n = no flow S = storm flow blue = Samples were taken grey = Samples were not taken blank = not visited

Summary of 2011 Data for Barton Creek

Summary	Parameter	Mean	Max	Min	Discussion
Physicochemical	D.O. mg/l	7.0	10.2	3.5	Within normal range, some low values especially in June 2011.
	pH st.units	7.84	8.19	7.43	Within normal range, low values.
	Cond uS/cm	638	773	529	Within normal range, no apparent spatial or temporal trends.
Nutrients	NH ₃ mg/l	0.018	0.143	0.008	Within normal range, some high values.
	NO ₃ mg/l	0.152	1.870	0.008	Within normal range, increasing downstream.
	Ortho P mg/l	0.005	0.020	0.004	Within normal range.
Sediment Load	TSS mg/l	4.3	24.9	1.0	Mostly within normal range, some high values in June, 2011.
	Turbidity ntu	4.65	24.07	0.22	Mostly within normal range, some high values in June, 2011.
Biology	E.Coli /100ml	86	775	5	Mostly low readings.
Benthic Macroinvertebrates and Diatoms: evaluations are provided in the introduction of this report					

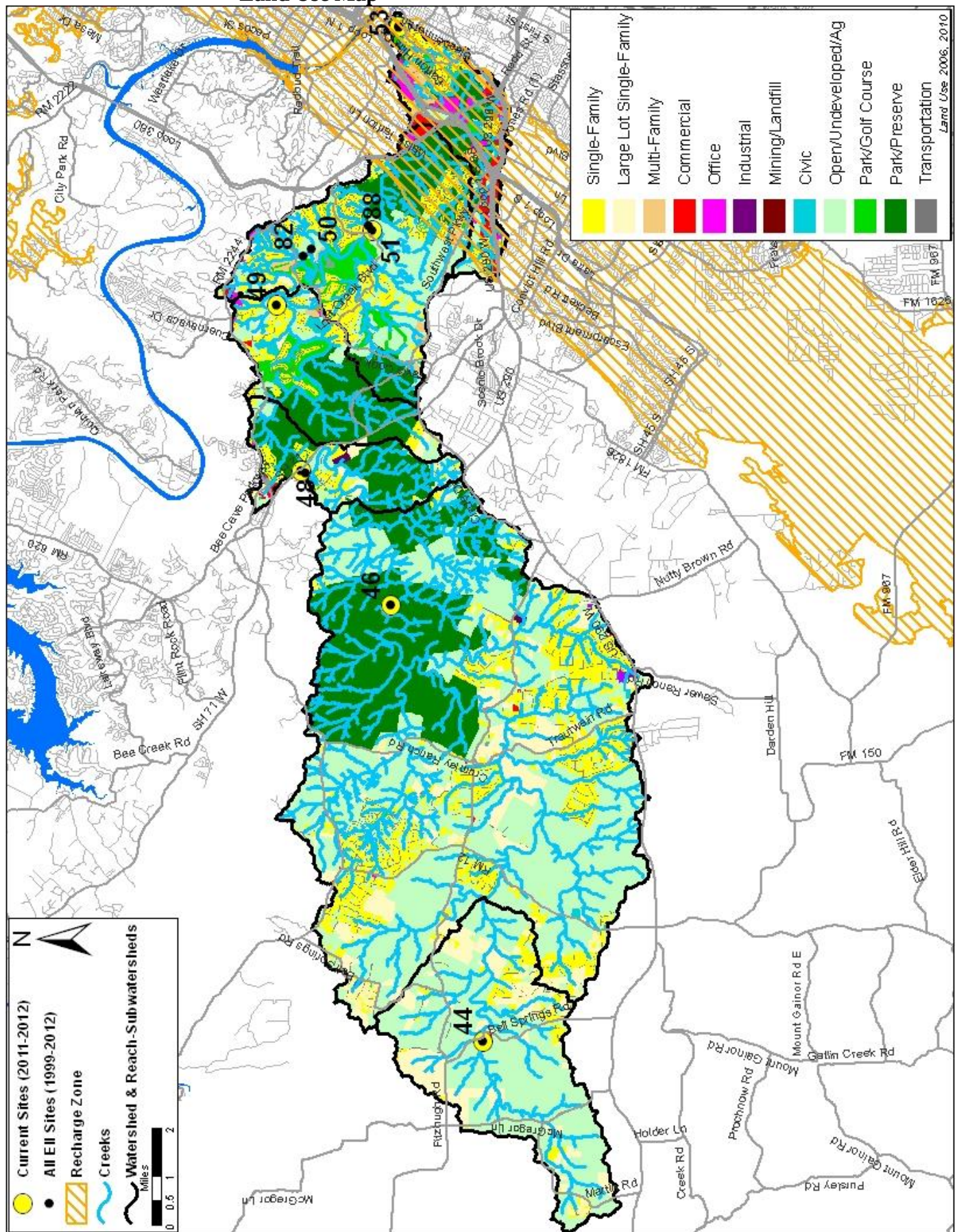
Index scores* for Barton Creek Sites by Year

Reach	Site	Site Name	Year	Water Quality	Sediment **	Contact Rec.	Non-Contact Rec.	Physical Integrity	Aquatic Life	Benthic subindex	Diatom subindex	Total EII Score
RAR1	53	Barton Creek US of Barton Spring Pool	2000	74	65	99	81	55	69	45	93	74
RAR2	88	Barton Creek 350m ds of Lost Creek Blvd	2000	70	65	91	74	61	91	81	100	75
RAR3	49	Barton Creek @ Onletree Pool	2000	73	65	97	90	62	84	76	91	79
RAR4	78	Barton Crk @ Hwy 71 us Little Barton (RC0)	2000	78	65	87	95	87	89	87	91	79
RAR4	78	Barton Crk @ Hwy 71 us Little Barton (RC0)	2000						88	91	85	88
RAR5	46	Barton Creek @ Shield Ranch Pool	2000						92	90	94	92
RAR1	879	Barton Creek Between Dams US of Pool	2003	62	70	92	96	81	10	100	100	84
RAR2	88	Barton Creek 350m ds of Lost Creek Blvd	2003	75	70	97	93	95	81	72	90	85
RAR3	49	Barton Creek @ Onletree Pool	2003	84	70	99	99	92	89	84	93	89
RAR4	48	Barton Creek @ Hwy 71 ds of Little Barton	2003	82	70	95	98	88	94	87	100	88
RAR1	879	Barton Creek Between Dams us of Pool	2006	68	75	50	60	62				53
RAR2	51	Barton Cree ds of Lost Creek Blvd	2006	59	75	93	82	86	88	81	94	81
RAR3	49	Barton Creek @ Onletree Pool	2006	73	75	91	91	88	97	96	97	86
RAR4	48	Barton Creek @ Hwy 71 ds of Little Barton	2006	73	75	62	92	80	98	96	99	80
RAR1	879	Barton Creek Between Dams US of Pool	2009	67	82	67	47	71	54	54		65
RAR2	51	Barton Creek ds of Lost Creek Blvd	2009	75	82	88	86	72	97	100	93	83
RAR3	50	Barton Creek @ Leif Johnson Pool	2009	74	82	82	83	77	97	100	94	84
RAR4	48	Barton Creek @ Hwy 71 ds of Little Barton	2009	70	82	71	79	75	10	100	100	80
RAR5	46	Barton Creek @ Shield Ranch Pool	2009	69	82	60	72	83	74	74		73
RAR6	44	Barton Creek @ Stark Pool	2009	75	82	53	68	72	92	92		74
RAR1	879	Barton Creek Between Dams us of Pool	2011	60	70	72	58	77	68	48	87	68
RAR2	51	Barton Creek DS of Lost Creek Blvd	2011	68	70	66	84	82	92	97	87	77
RAR3	49	Barton Creek @ Onletree Pool	2011	80	70	91	86	83	88	100	75	83
RAR4	48	Barton Creek @ Hwy 71 ds of Little Barton	2011	79	70	84	91	90	10	100	100	86
RAR5	46	Barton Creek @ Shield Ranch Pool	2011	81	70	79	88	72	91	90	91	80
RAR6	44	Barton Creek @ Stark Pool	2011	68	70	60	88	79	54	71	55	70

* blank cells indicate parameter was not collected, blank row indicate site was dropped

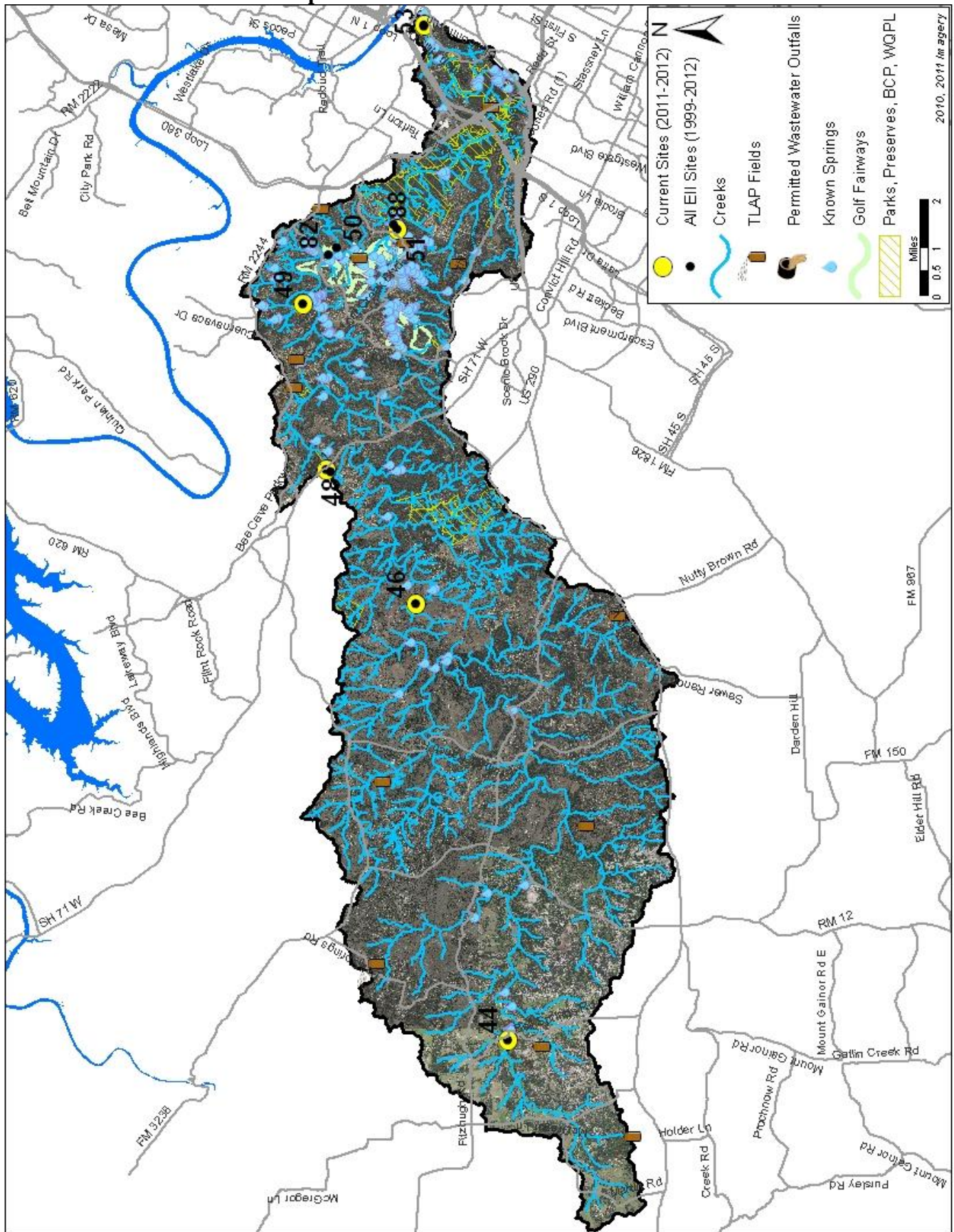
**sediment samples only collected at the downstream site

100-87.5 Excellent 87.5-75 V. Good 75-62.5 Good 62.5-50 Fair 50-37.5 Marginal 37.5-25 Poor 25-12.5 Bad 12.5-0 V. Bad



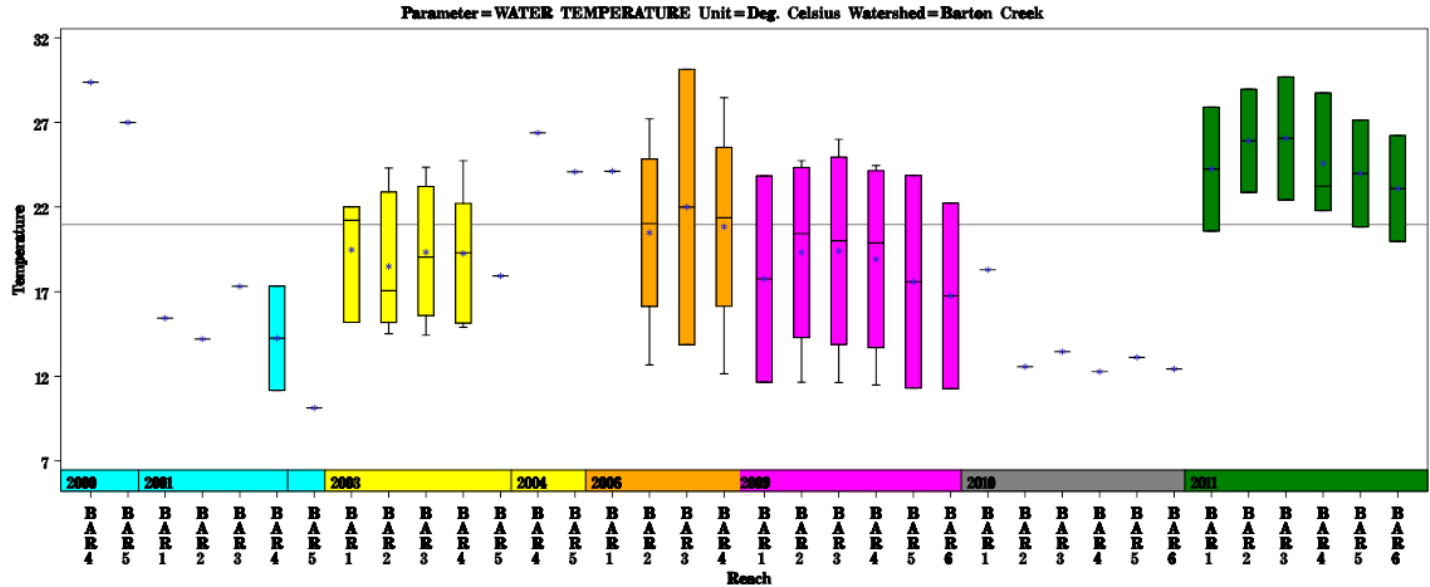
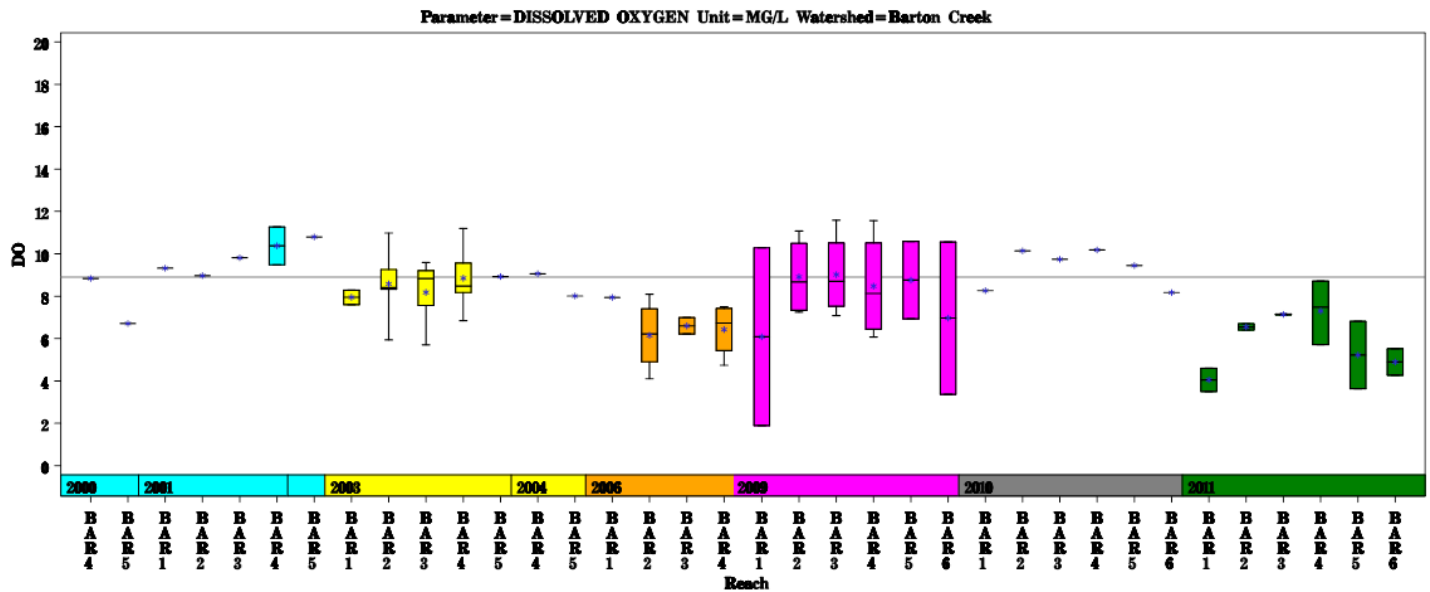
Barton Creek Watershed

Aerial Map



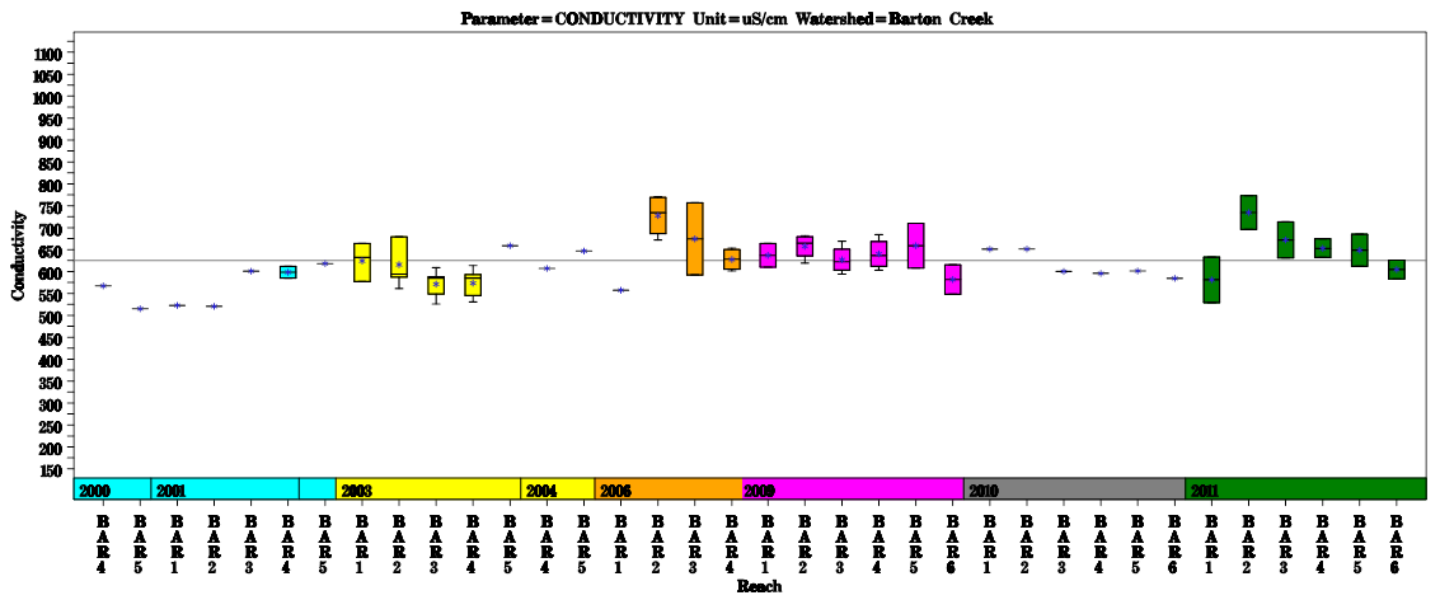
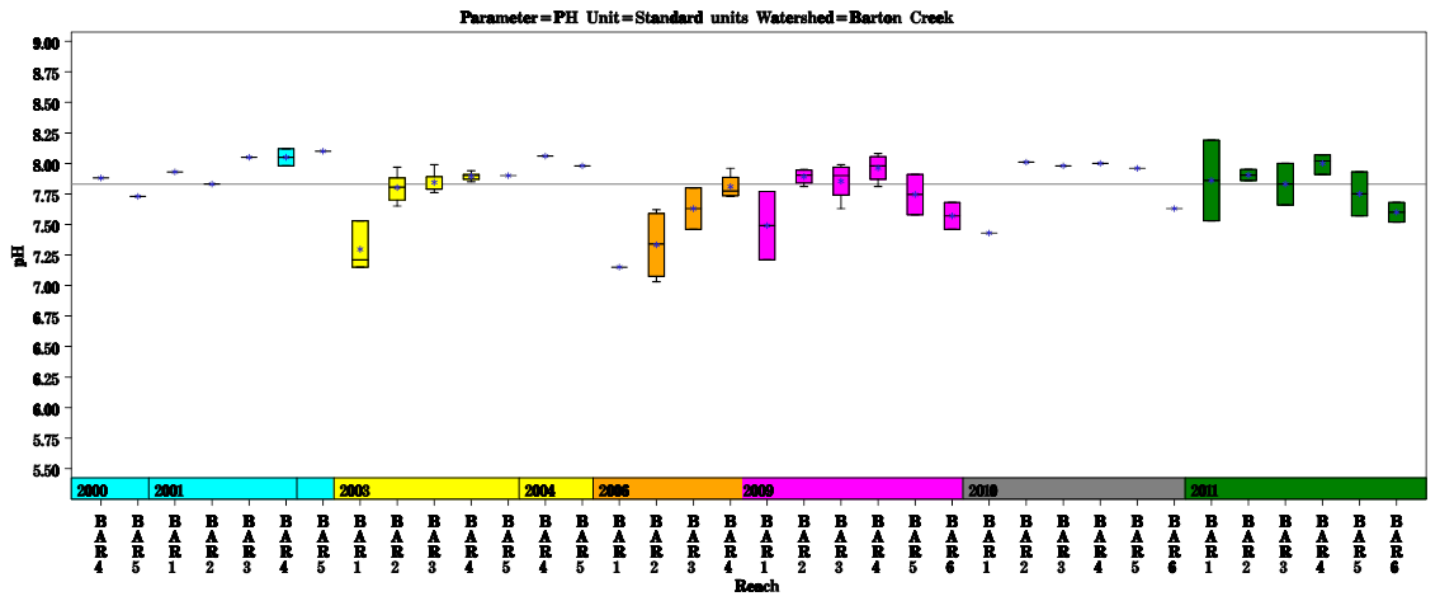
Barton Creek Watershed

Data Summary Graphs – Dissolved Oxygen and Temperature (Downstream to Upstream by Year)



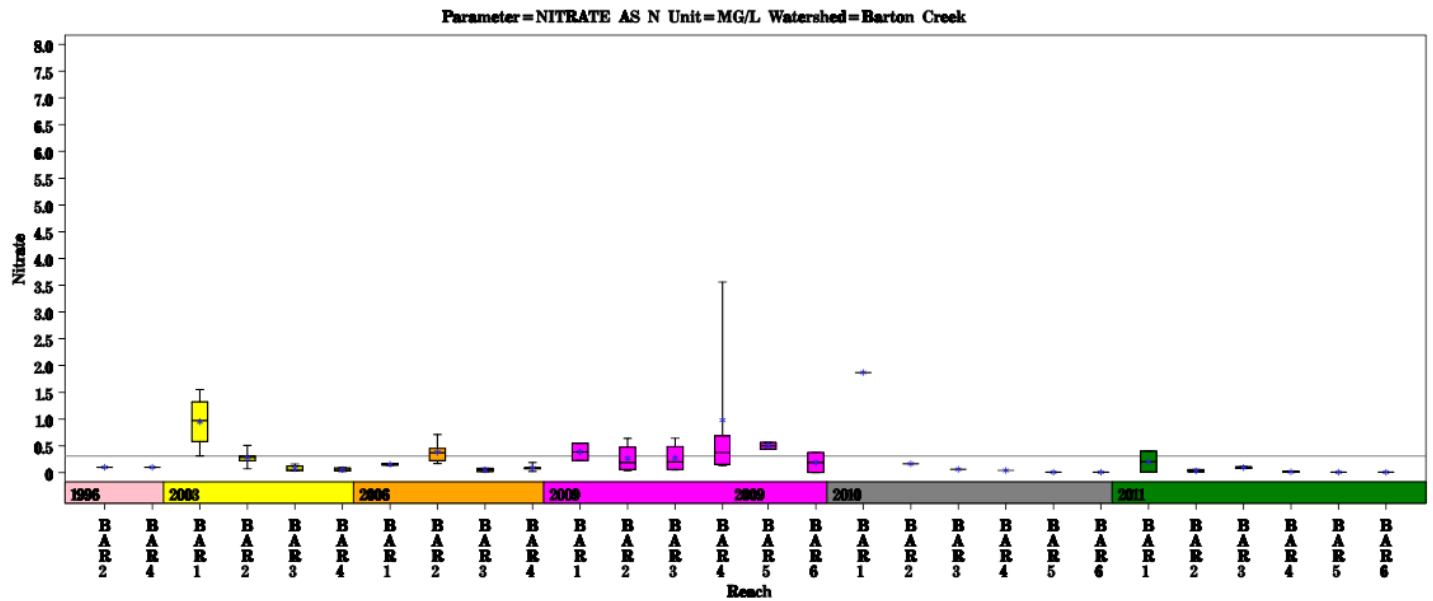
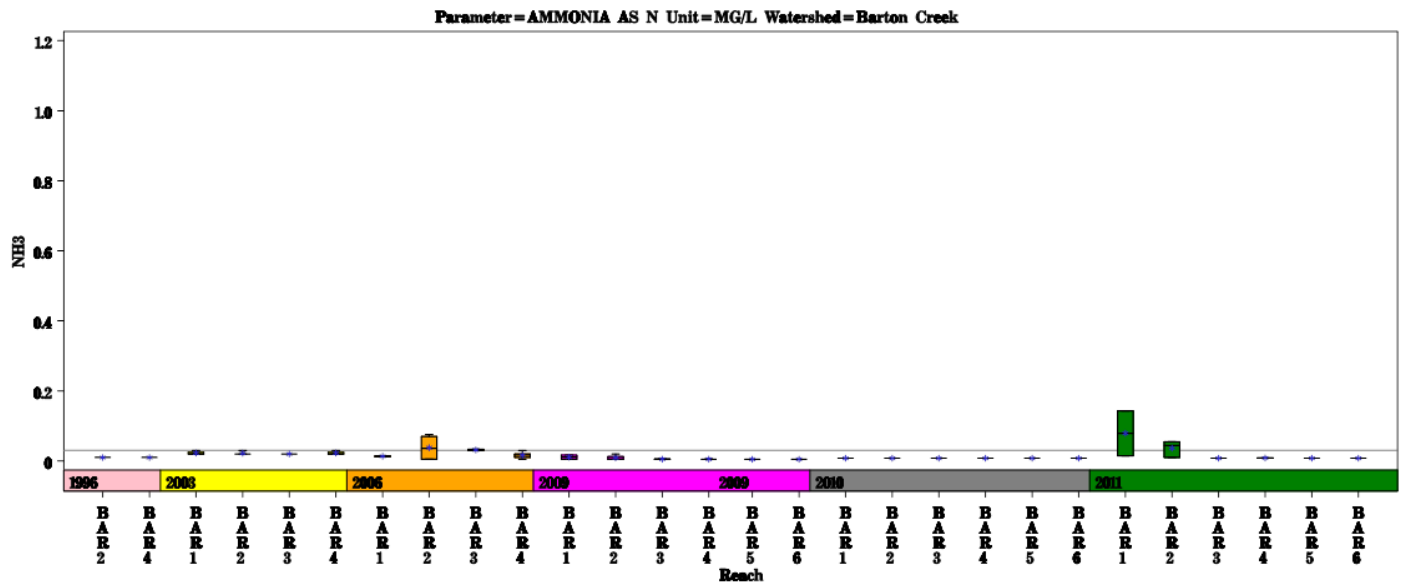
Barton Creek Watershed

Data Summary Graphs – pH and Conductivity (Downstream to Upstream by Year)

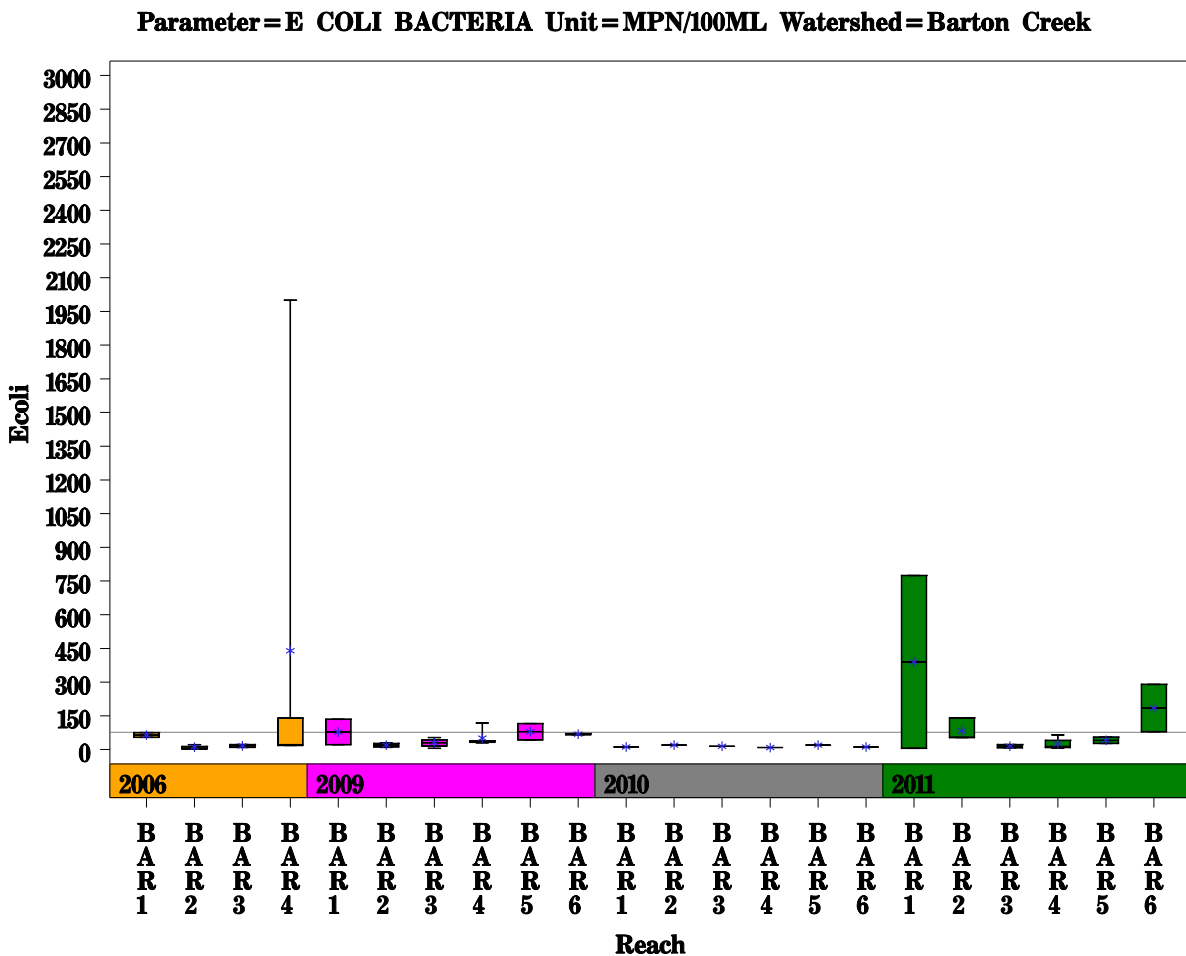
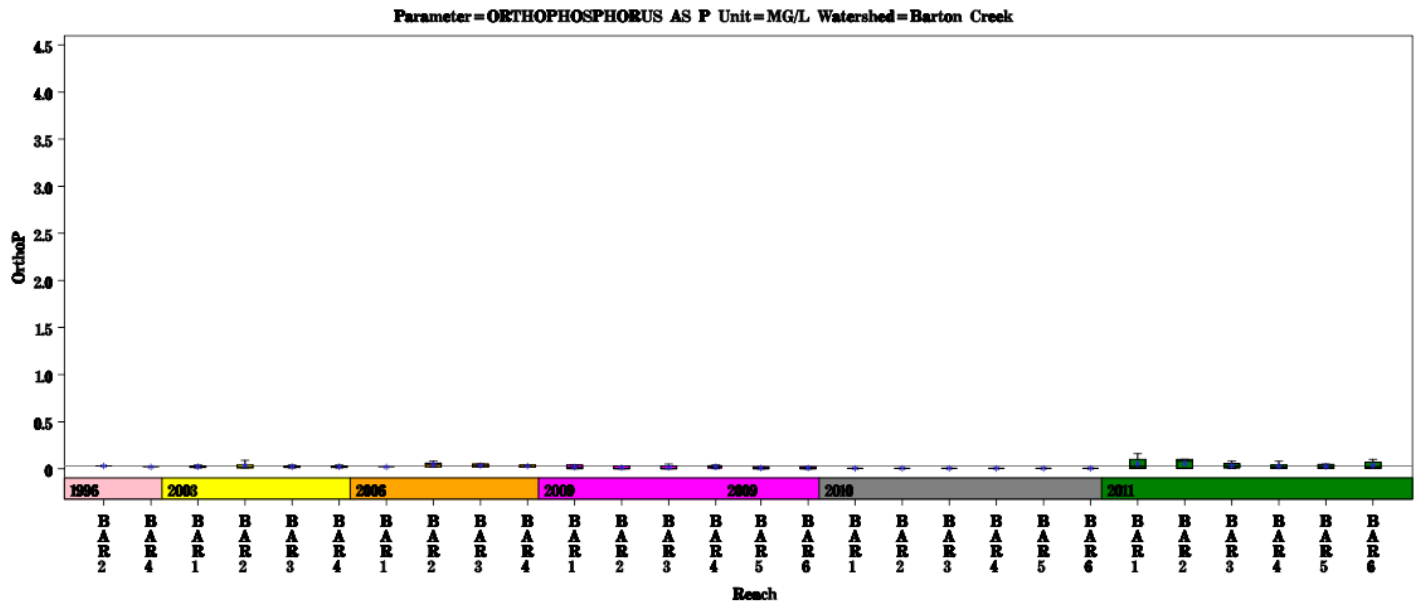


Barton Creek Watershed

Data Summary Graphs – Ammonia and Nitrate/Nitrite (Downstream to Upstream by Year)

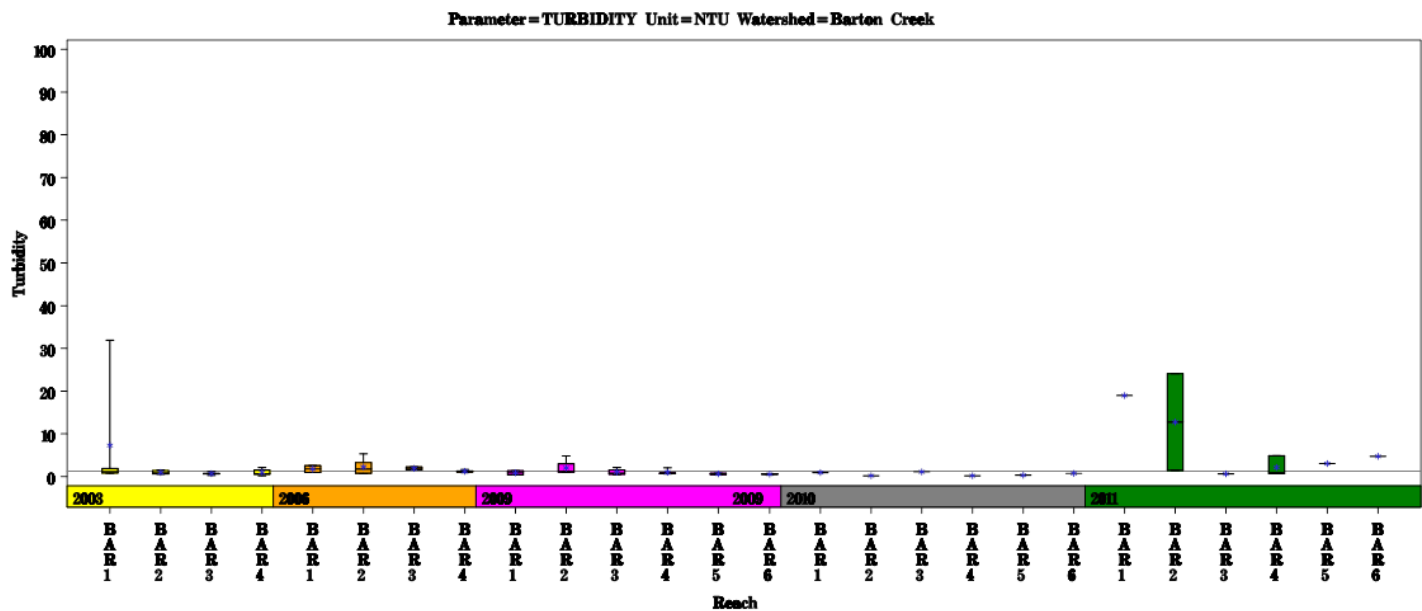
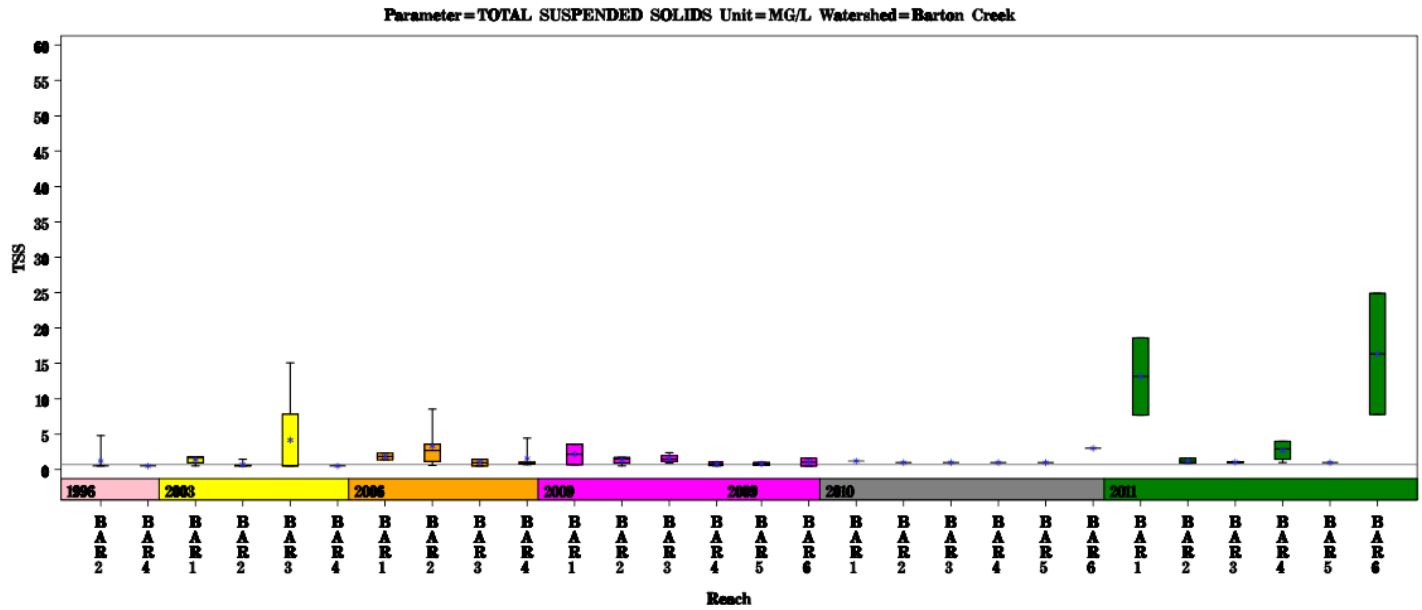


Data Summary Graphs – Orthophosphate and E.coli (Downstream to Upstream by Year)



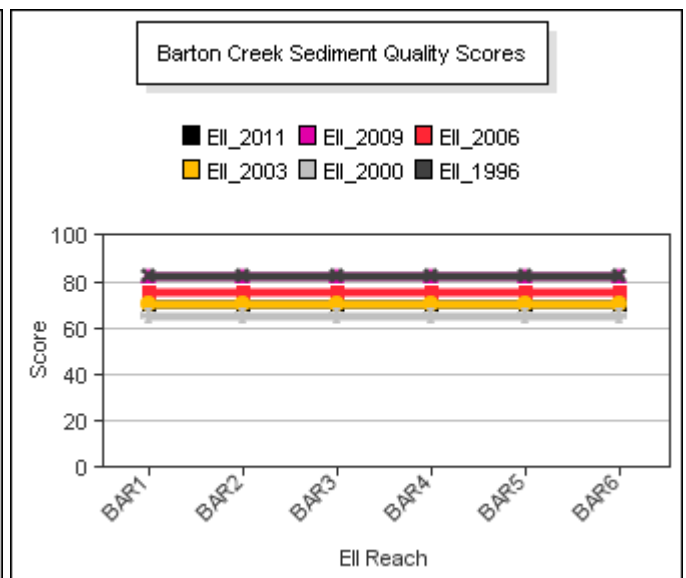
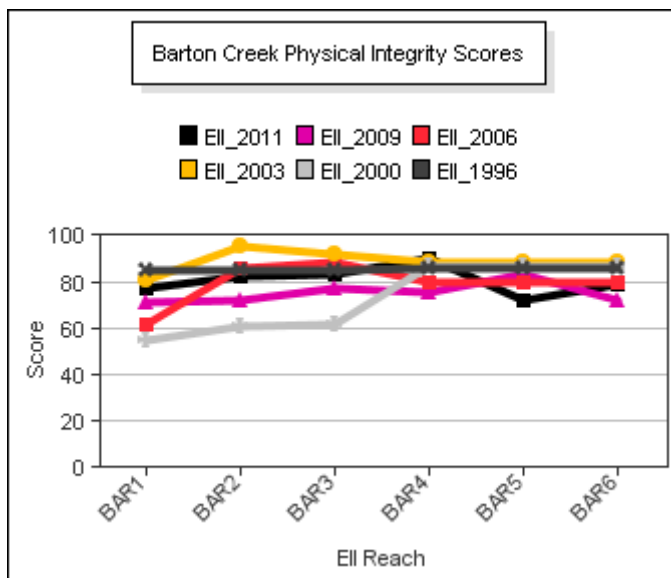
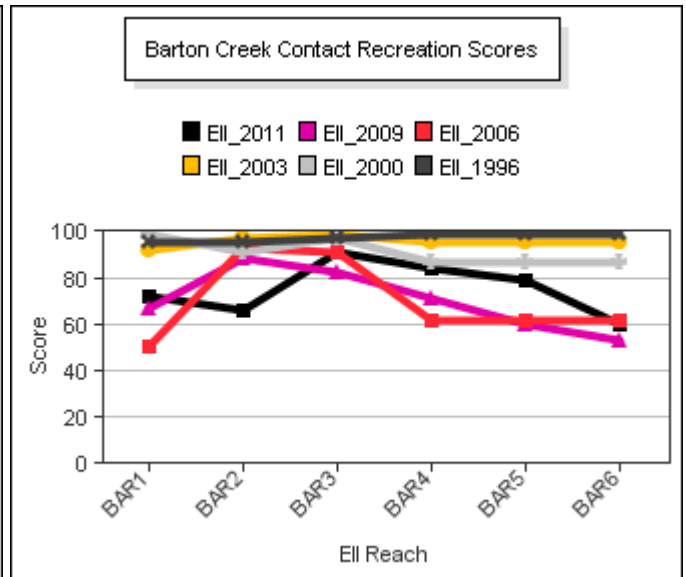
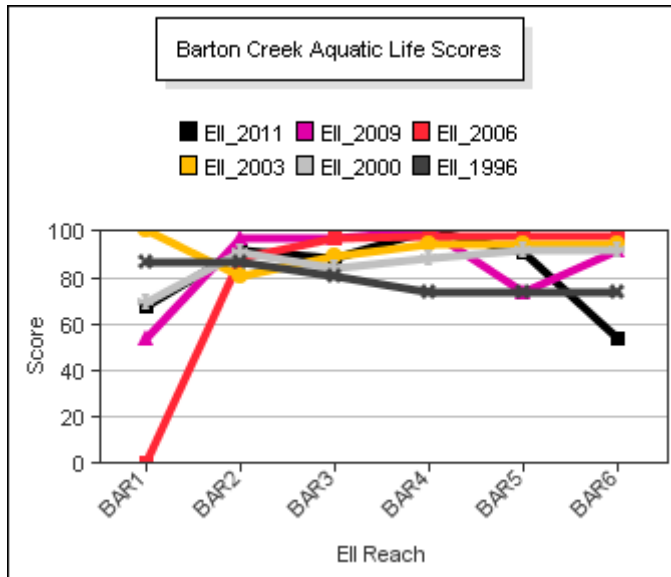
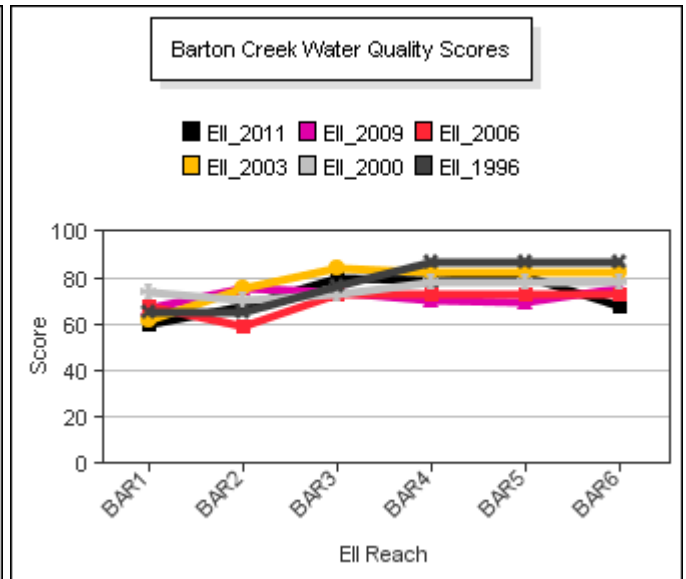
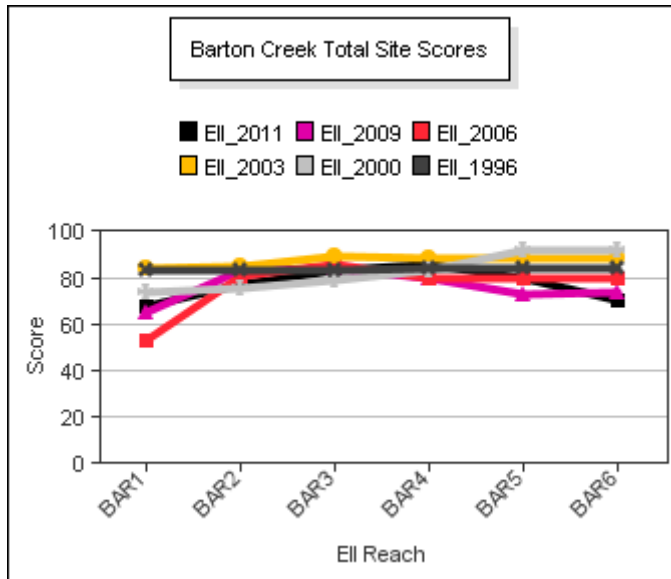
Barton Creek Watershed

Data Summary Graphs – Total Suspended Solids and Turbidity (Downstream to Upstream by Year)



Barton Creek Watershed

Score Summary – Reach scores for each sample year



Barton Creek Watershed

Site Photographs



44_t3-ds-10_03_2007



44_t03-ds-09_17_2008



46_t00-us-05_19_2004



46_t00-ds-06_01_2009



48_t3-ds-07_28_2005



48_t00-ds-06_01_2009

Barton Creek Watershed

Site Photographs



50_t3-ds-08_02_2005



50_t00-us-06_02_2009



51_t3-us-08_01_2006



51_t03-us-09_16_2008



879_t2-ds-08_01_2006



879_t00-ds-06_02_2009

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