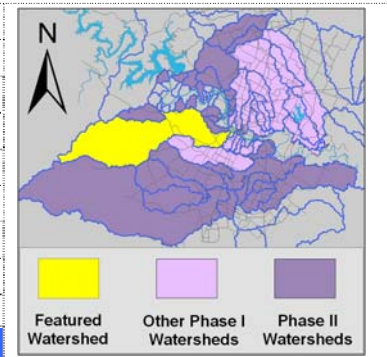


Barton Creek Watershed

Summary Sheet

Catchment	Total area	108.7 square miles		
	Area in recharge	7.8 square miles		
	Creek length	49.5 miles		
Demographics	Receiving water	Town Lake		
	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
	77	87	75	77



Flow Regime* for Sample Sites on Barton Creek

Site #	Site Name	2003					2006					2009				
		Feb WQ	Mar Bio	May WQ	Sep WQ	Dec WQ	Feb WQ	May WQ	Jul Bio	Aug WQ	Nov WQ	Feb WQ	Jun WQ	Jun Bio	Oct WQ	Dec WQ
44	Barton Creek @ Stark Pool	B	B	B	B	B	B	B	B	B	B	n	n	n	B	B
46	Barton Creek @ Shield Ranch Pool											n	n	n	B	B
48	Barton at Hwy71 Below L. Barton											B	B	n	B	B
49	Barton at Ogletree Pool	B	B	B	B	n	B		B	B						
88	Barton 350m d/s of Lost Cr	B	B	B	B	B										
51	Barton downstream of Lost Cr						B	B	B	B	B	B	B	B	B	B
50	Barton Creek @ Leif Johnson											B	B	B	B	B
879	Barton between dams abv pool	B	B	B	B	n	n	B	n	n	n	n	n	n	B	B

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

Summary of 2009 Data for Barton Creek

2009 Summary	Parameter	Mean	Max	Min	Discussion
Physicochemical	D.O. mg/l	8.0	11.6	1.9	Within normal range, no apparent spatial or temporal trends
	pH st.units	7.8	8.1	7.2	Within normal range, generally lower pH at mouth site
	Cond uS/cm	634	710	548	Within normal range, no apparent spatial or temporal trends
Nutrients	NH ₃ mg/l	0.01	0.02	0.005	Within normal range, no apparent spatial or temporal trends
	NO ₃ mg/l	0.47	3.56	0.004	Within normal range, no apparent trends, some values above average in 2009
	Ortho P mg/l	0.004	0.021	0.002	Within normal range, no apparent spatial or temporal trends
Sediment Load	TSS mg/l	1.3	3.6	0.5	Within normal range, no apparent spatial or temporal trends
	Turbidity ntu	1.0	4.8	0.4	Within normal range, no apparent spatial or temporal trends
Biology	E.Coli /100ml	55	135	5	Reliably low concentrations of bacteria
	Benthic Macs	Indicative of excellent water quality and quantity (some sites limited by summer low flow in recharge zone)			
	Diatoms	Indicative of excellent water quality and quantity, especially upstream, but to a lesser extent downstream, some sites not sampled due to lack of flow			

Index scores* for Barton Creek Sites by Year

Reach	Site	Site Name	Year	Water Quality	Sediment**	Contact Recreation	NonContact Recreation	Physical Integrity	Aquatic Life	Benthic subindex	Diatom subindex	Total EII Score
BAR1	53	Barton Above Barton Spring Pool	2000	74	65	99	81	55	69	45	93	74
BAR2	88	Barton 350m d/s of Lost Creek Blvd	2000	70	65	91	74	61	91	81	100	75
BAR3	49	Barton @ Ogletree Pool	2000	73	65	97	90	62	84	76	91	79
BAR4	78	Barton @ Hwy 71 Above Little Barton	2000	78	65	87	95	87	89	87	91	79
BAR1	879	Barton Between Dams Above Pool	2003	62	70	92	96	81	100	100	100	84
BAR2	88	Barton 350m d/s of Lost Creek Blvd	2003	75	70	97	93	95	81	72	90	85
BAR3	49	Barton @ Ogletree Pool	2003	84	70	99	99	92	89	84	93	89
BAR4	48	Barton @ Hwy 71 Below Little Barton	2003	82	70	95	98	88	94	87	100	88
BAR1	879	Barton Between Dams Above Pool	2006	68	75	50	60	62				53
BAR2	51	Barton d/s of Lost Creek Blvd	2006	59	75	93	82	86	88	81	94	81
BAR3	49	Barton @ Ogletree Pool	2006	73	75	91	91	88	97	96	97	86
BAR4	48	Barton @ Hwy 71 Below Little Barton	2006	73	75	62	92	80	98	96	99	80
BAR1	879	Barton Between Dams Above Pool	2009	67	82	67	47	71	54	54		65
BAR2	51	Barton d/s of Lost Creek Blvd	2009	75	82	88	86	72	97	100	93	83
BAR3	50	Barton @ Leif Johnson Pool	2009	74	82	82	93	77	97	100	94	84
BAR4	48	Barton @ Hwy 71 Below Little Barton	2009	70	82	71	79	75	100	100	100	80
BAR5	46	Barton @ Shield Ranch Pool	2009	69	82	60	72	83	74	74		73
BAR6	44	Barton @ Stark Pool	2009	75	82	53	68	72	92	92		74

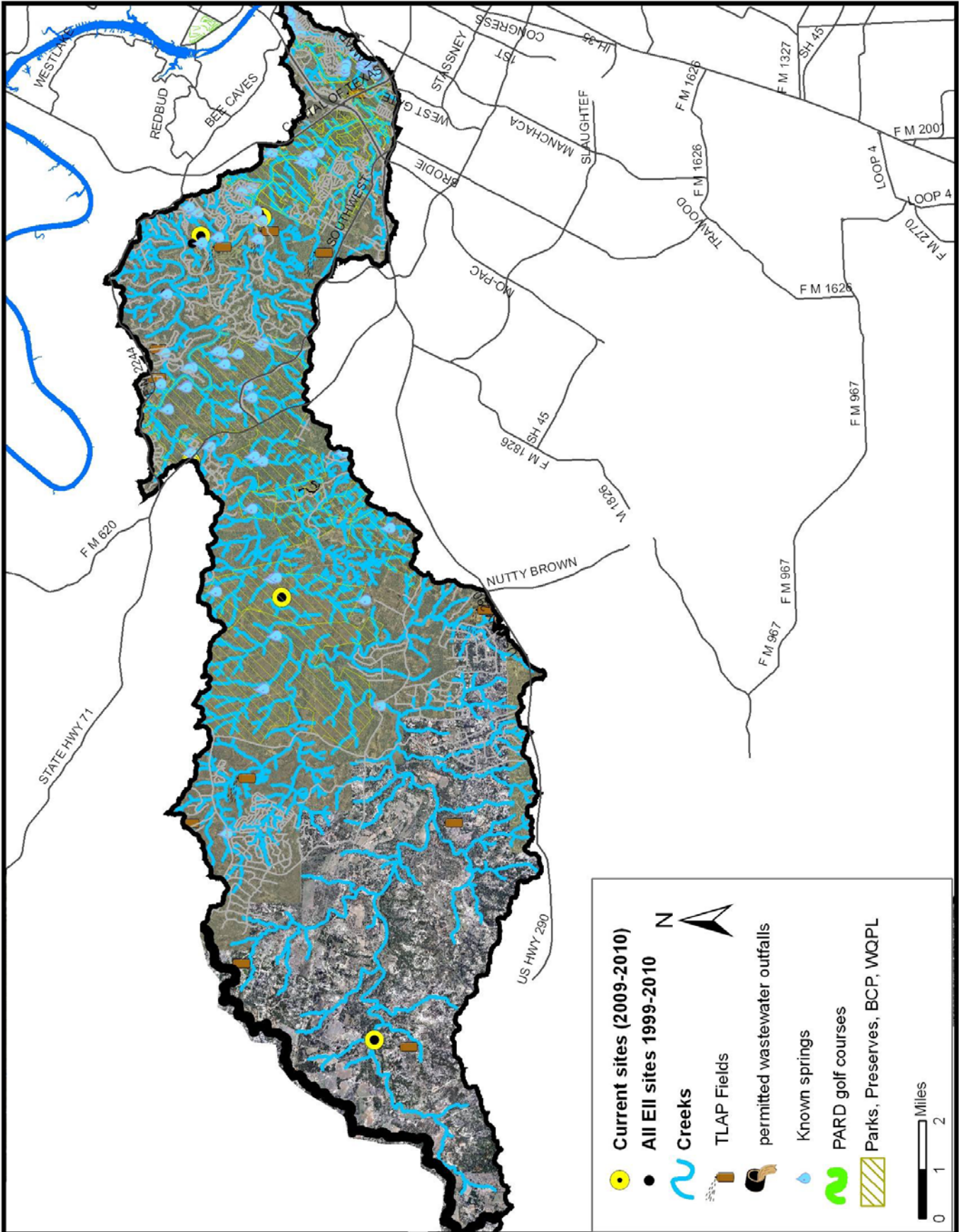
* blank cells indicate parameter was not collected, blank row indicate site was dropped

**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

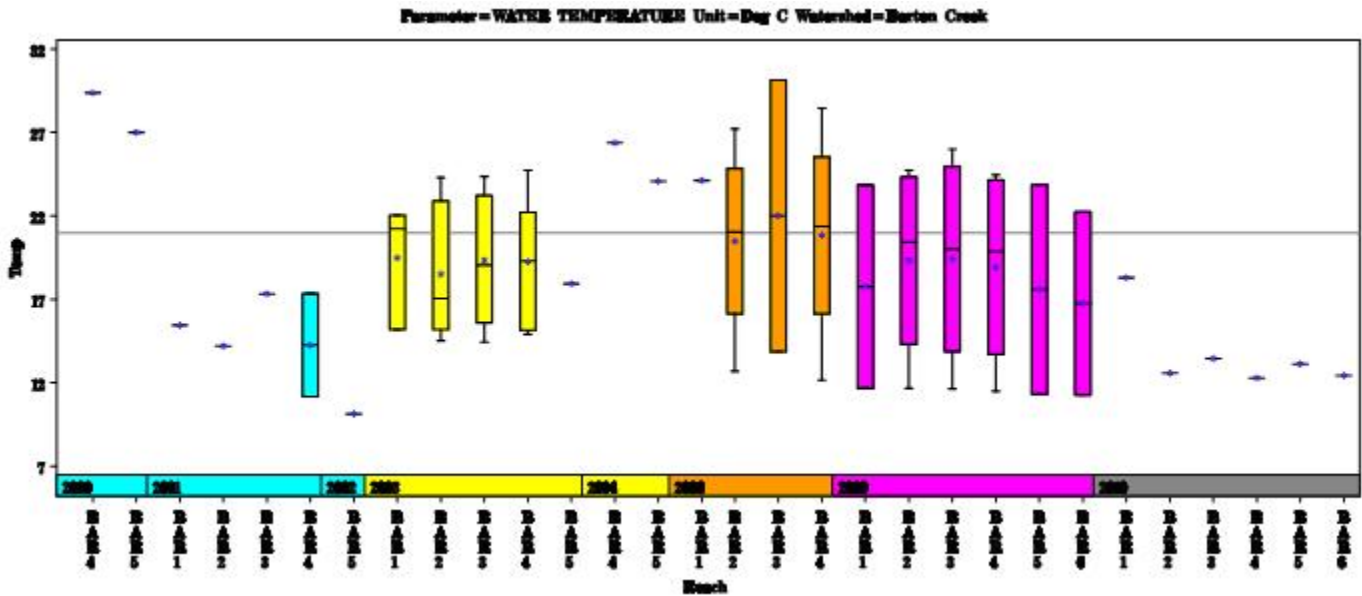
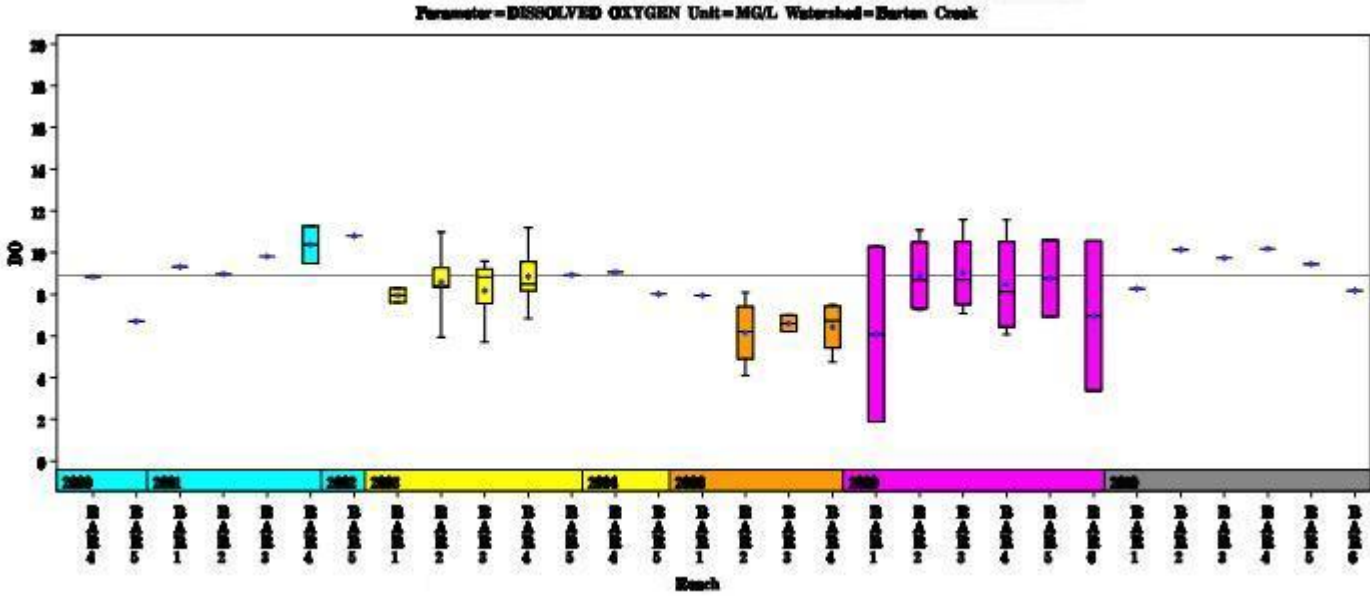
Barton Creek Watershed

Aerial Map



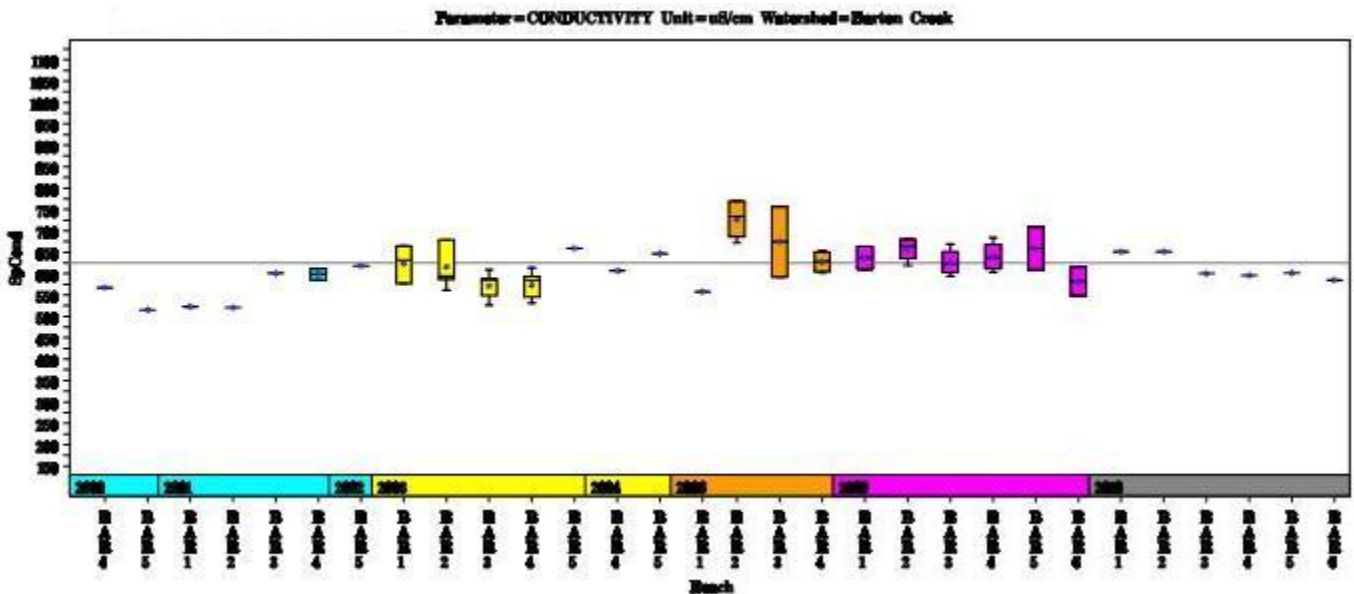
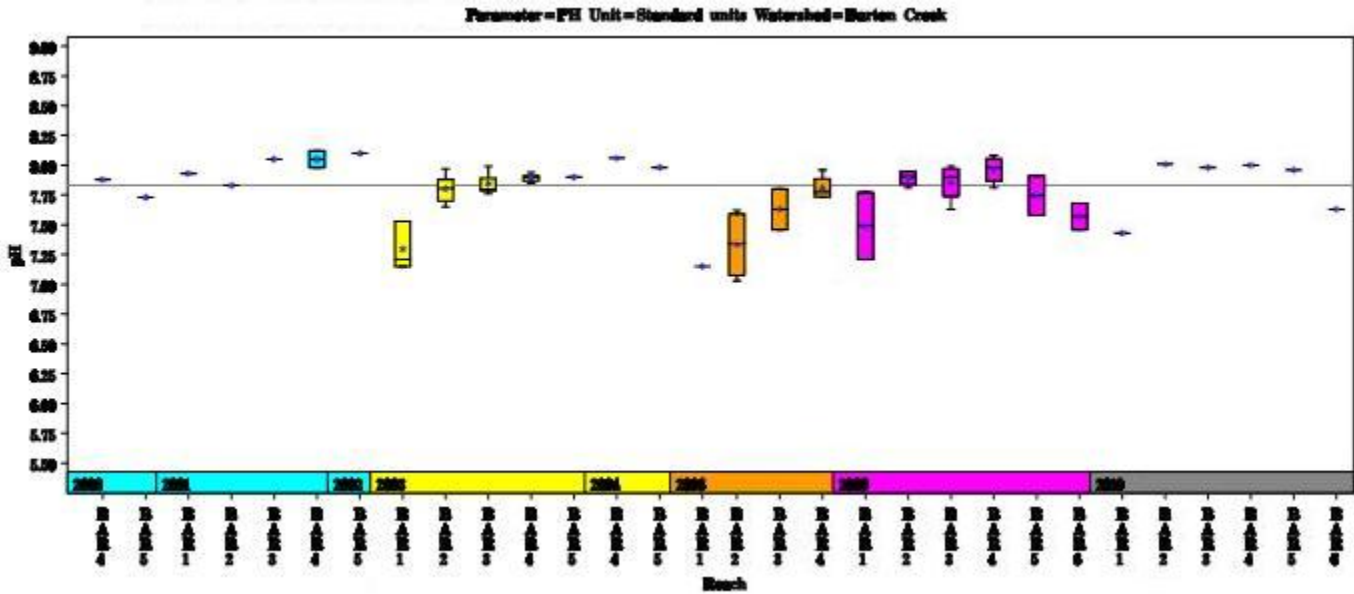
Barton Creek Watershed

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



Barton Creek Watershed

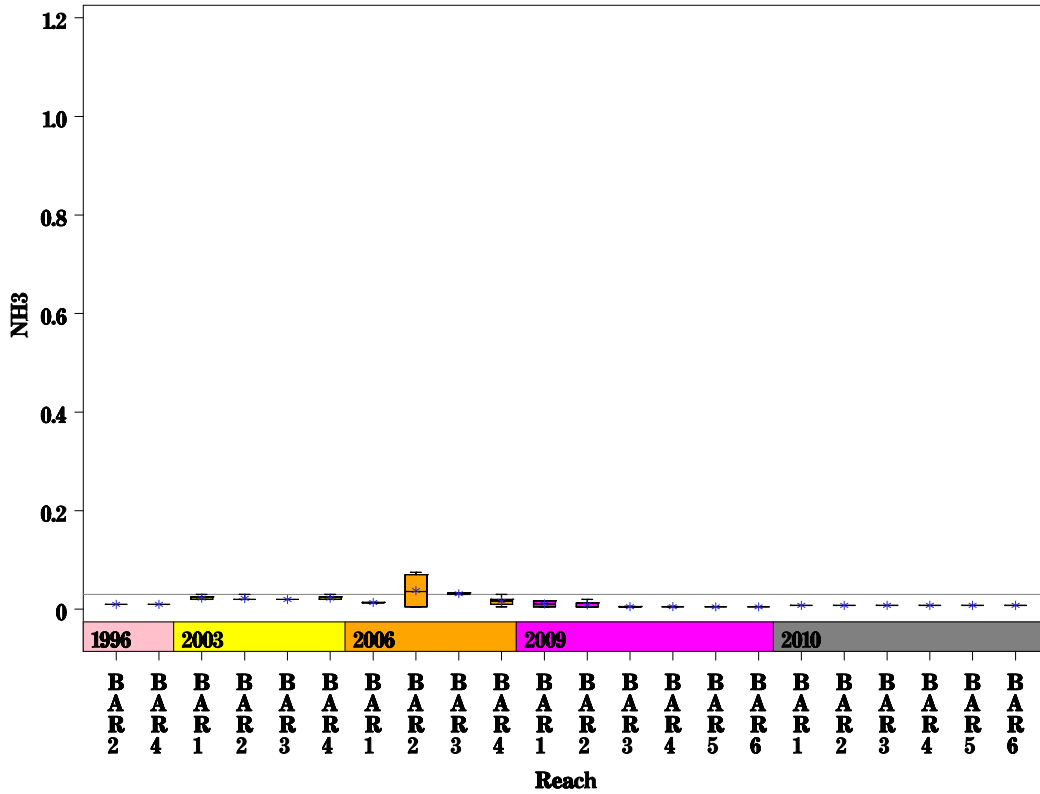
Data Summary Graphs – pH and Conductivity (Downstream to Upstream by Year)



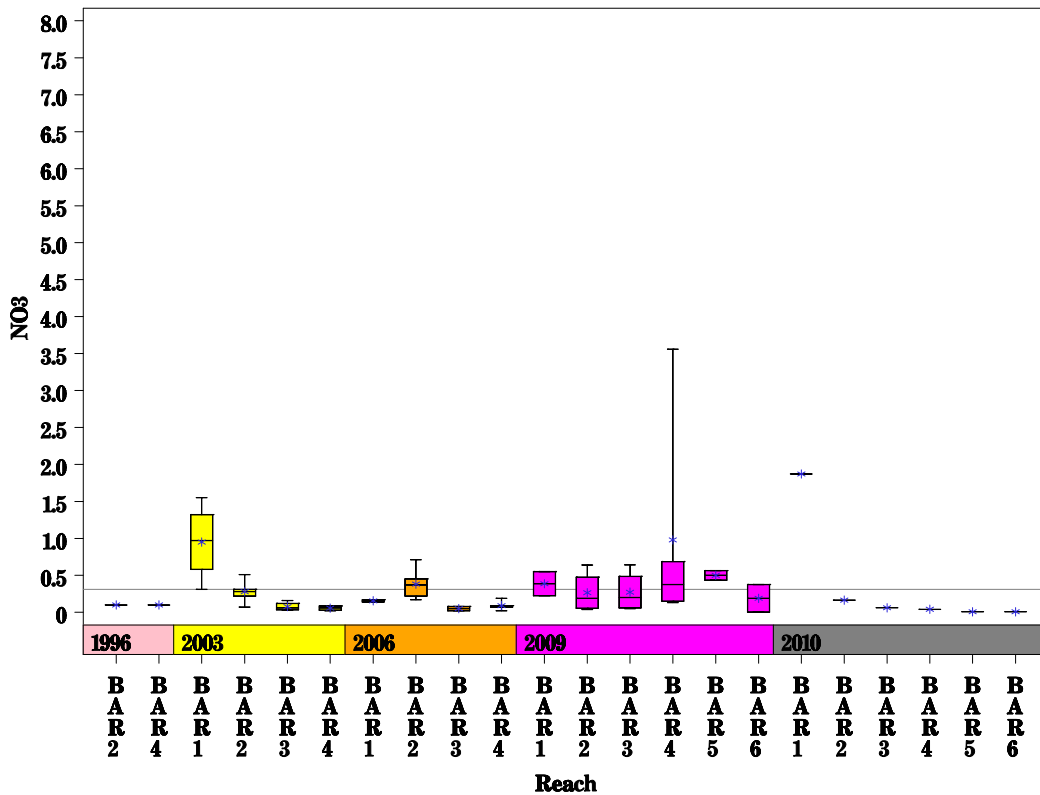
Barton Creek Watershed

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

Parameter=AMMONIA AS N Unit=MG/L Watershed=Barton Creek



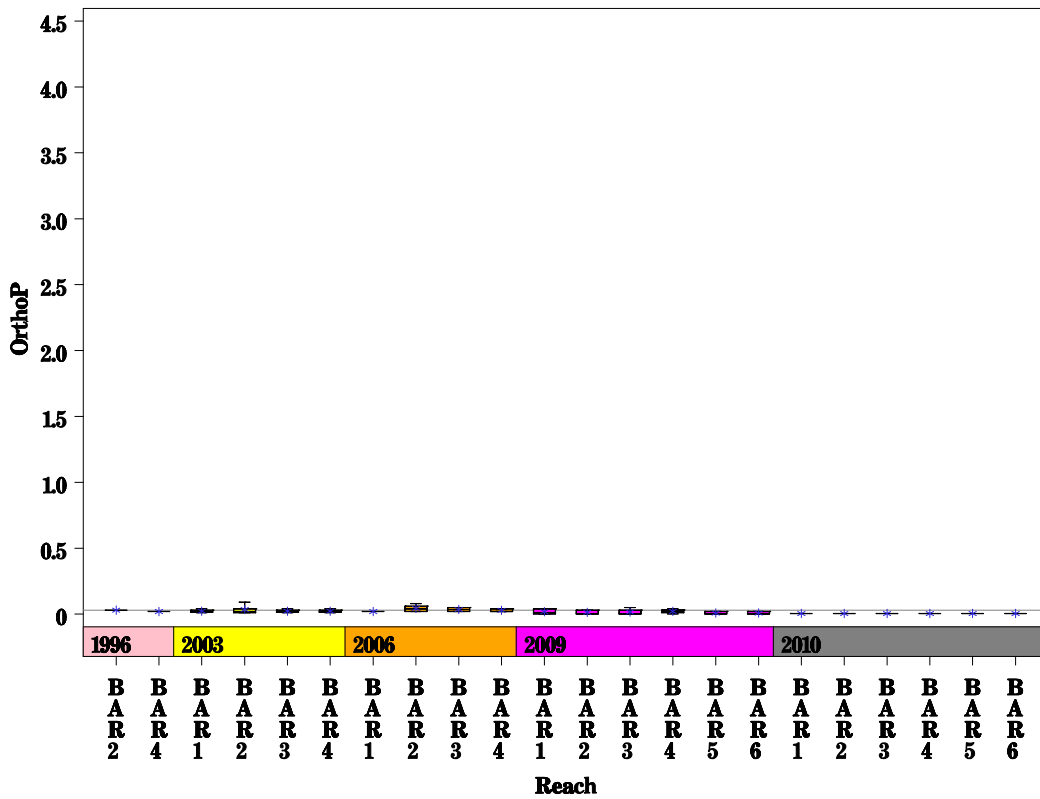
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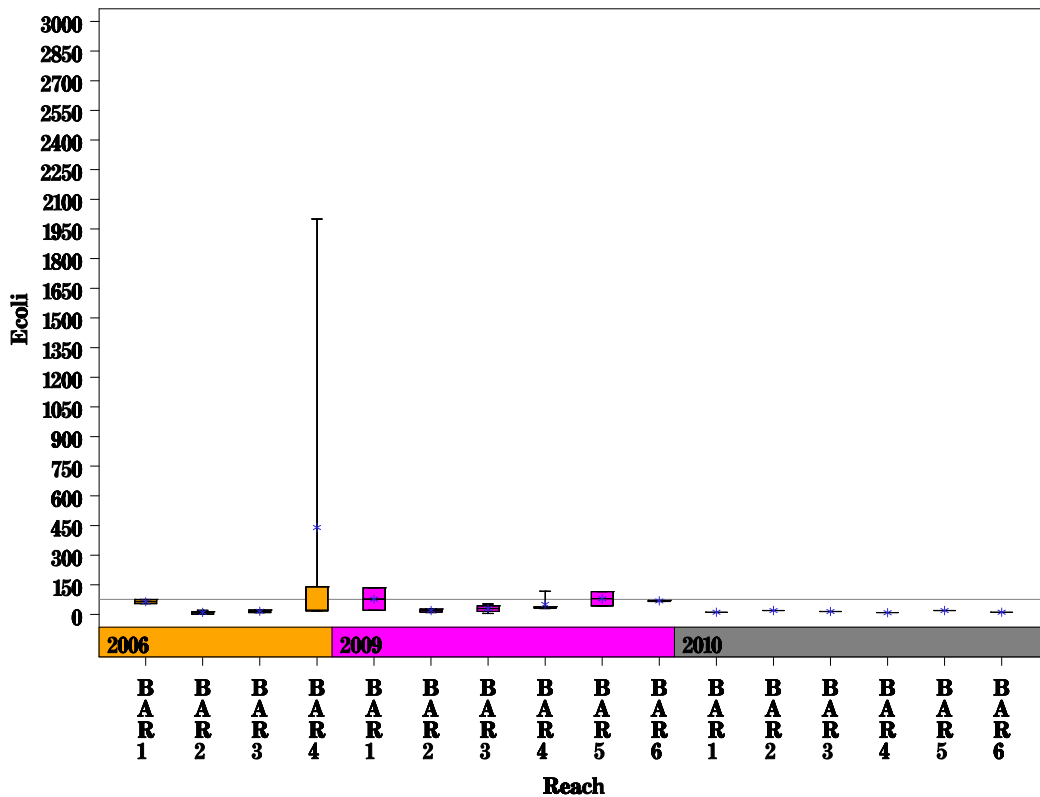
Barton Creek Watershed

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

Parameter=ORTHOPHOSPHORUS AS P Unit=MG/L Watershed=Barton Creek



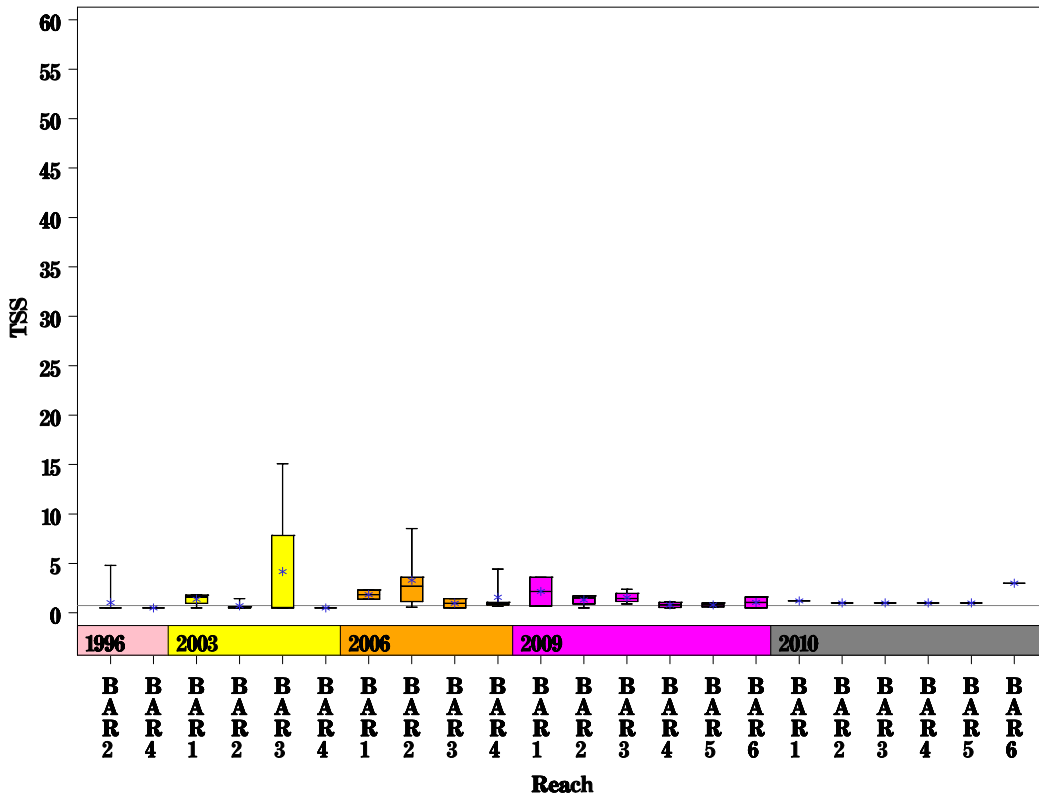
Parameter=E COLI BACTERIA Unit=MPN/dL Watershed=Barton Creek



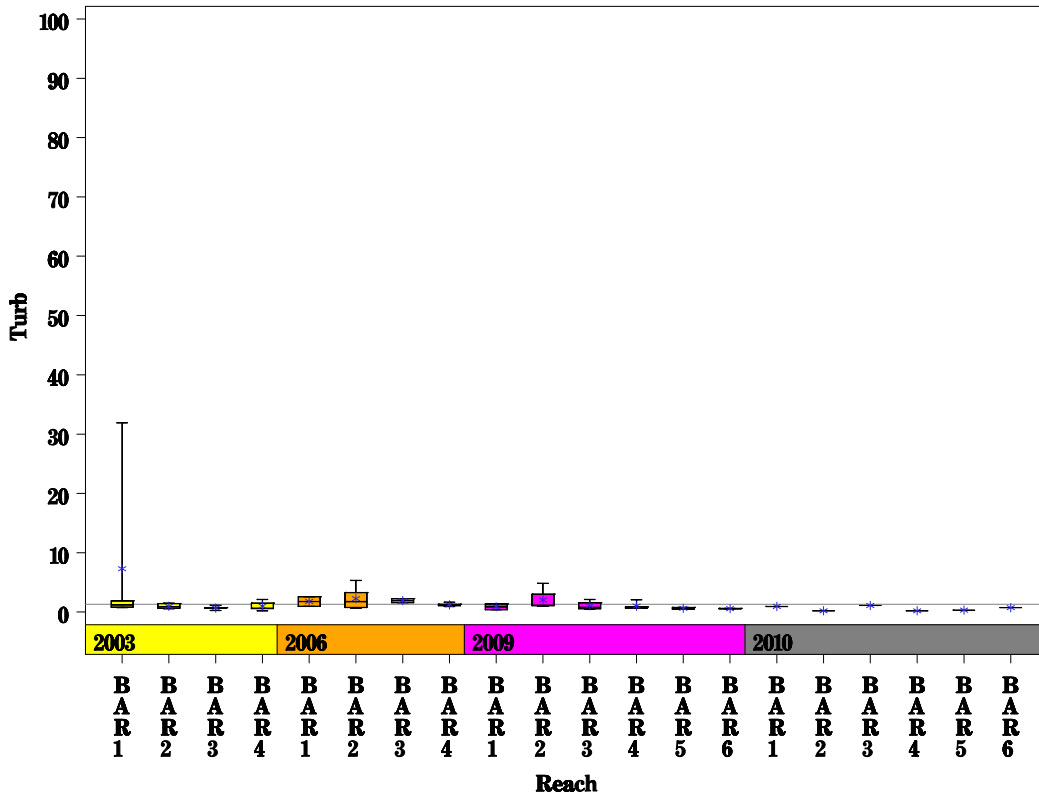
Barton Creek Watershed

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

Parameter=TOTAL SUSPENDED SOLIDS Unit=MG/L Watershed=Barton Creek

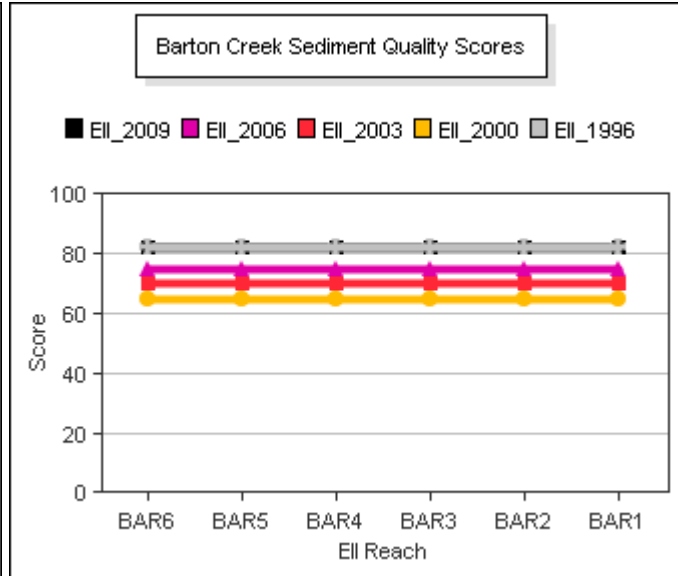
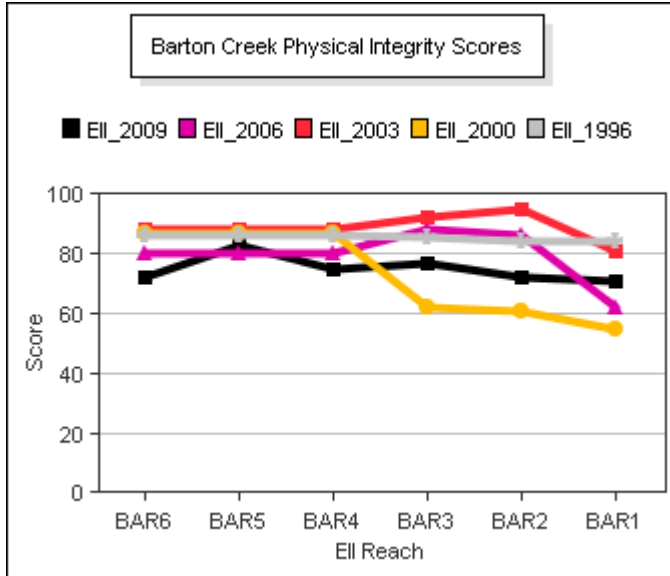
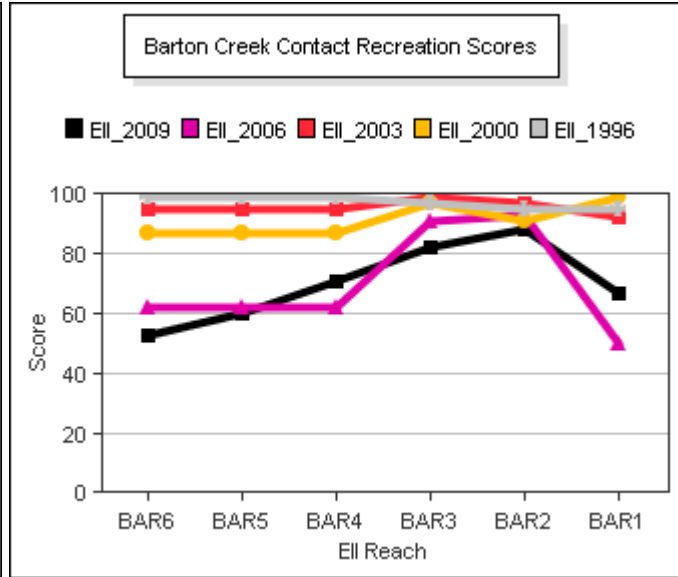
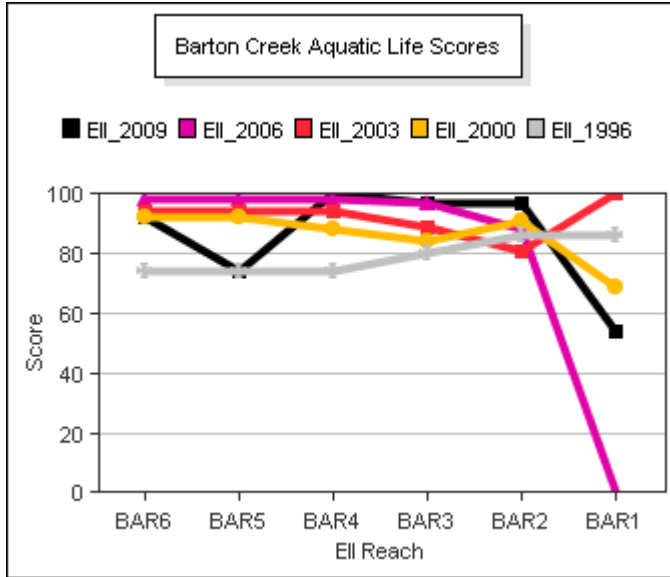
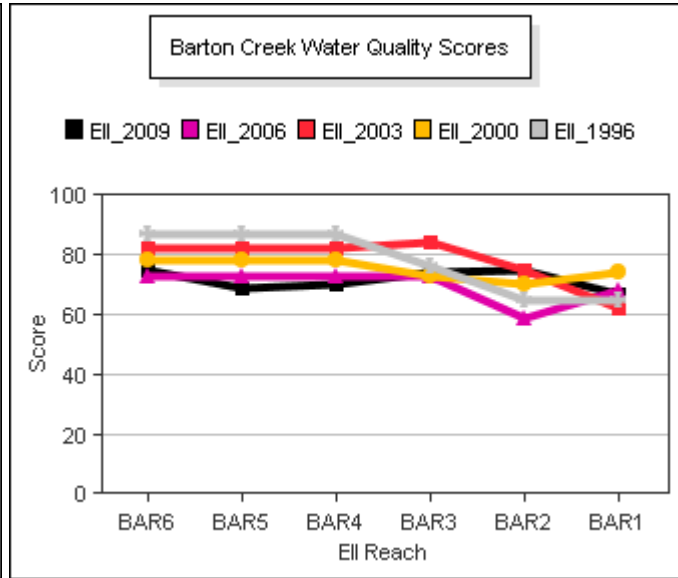
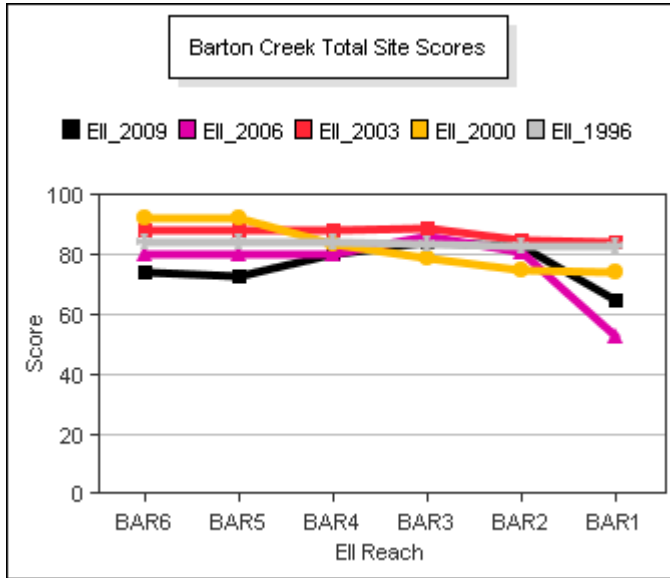


Parameter=TURBIDITY Unit=NTU Watershed=Barton Creek



Barton Creek Watershed

Score Summary – Reach scores for each sample year



Barton Creek Watershed

Site Photographs



44_t3-ds-10_03_2007



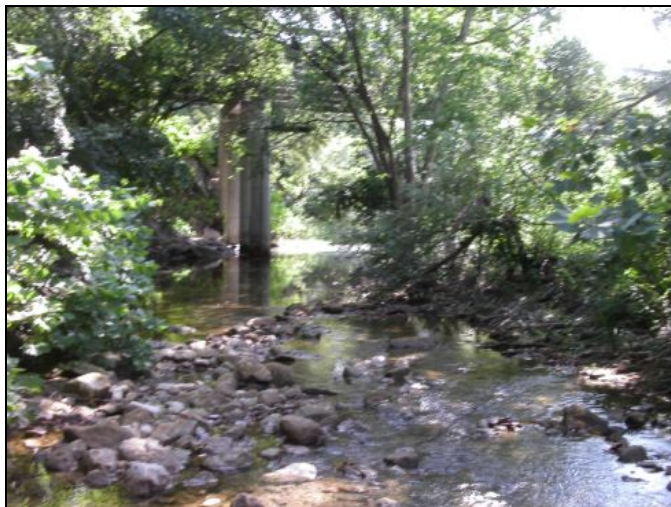
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46_t00-us-05_19_2004



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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