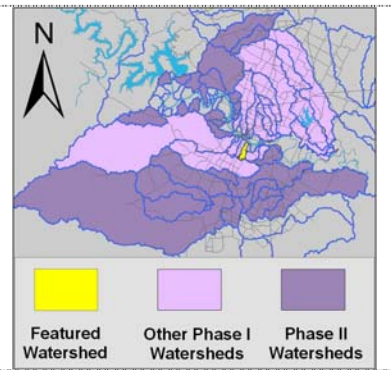


Blunn Creek Watershed

Summary Sheet

Catchment	Total area	1 square mile				
	Area in recharge	none				
	Creek length	3 miles				
Demographics	Receiving water	Town Lake				
	2000 population	6,000				
	2030 projected population	6,810				
	30 year projected % increase	14 %				
Land Use	Impervious cover (2003 estimate)	38.48 %				
Overall EII Scores	2000	2003	2006	2009	2011	
	57	61	61	59	56	



Flow Regime* for Sample Sites on Blunn Creek

Site #	Site Name	2006					2009					2010-2011				
		Feb	May	Jul	Aug	Nov	Feb	May	Jun	Oct	Dec	Dec	Mar	Jun	Jun	Sep
		WQ	WQ	Bio	WQ	WQ	WQ	WQ	Bio	WQ	WQ	WQ	WQ	WQ	Bio	WQ
362	Long Bow	B	B	B	B	B	B	B	B	B	B	B	B	B	B	n
364	u/s Stacy Pool	B	B	B	B	B	B	B	B	B	B	B	B	n	n	n
180	Riverside Dr	B	B	B	B	B	B	B	B	B	B	B	B	n	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 Blunn Creek

Summary	Parameter	Mean	Max	Min	Discussion
Physicochemical	D.O. mg/l	6.1	10.7	3.1	Wide range, some high values upstream, low values at downstream sites.
	pH st.units	7.67	7.90	7.44	Mostly within normal range, some low values. Decreasing downstream.
	Cond uS/cm	818	1302	696	Mostly within normal range, some high values at mouth site.
Nutrients	NH ₃ mg/l	0.043	0.202	0.008	Mostly within normal range, some high values at mouth site.
	NO ₃ mg/l	0.303	0.720	0.008	Within normal range, generally decreasing downstream.
	Ortho P mg/l	0.093	0.160	0.060	Within normal range, no apparent trends.
Sediment Load	TSS mg/l	2.1	8.5	0.5	Some above average readings, but within normal range.
	Turbidity ntu	3.59	5.94	0.98	Within normal range.
Biology	E.Coli /100ml	164	461	5	Wide range, but within normal range.
	Benthic Macroinvertebrates and Diatoms: evaluations are provided in the introduction of this report				

Index Scores* for Blunn Creek Sites by Year

Reach	Site	Site Name	Year	Water Quality	Sediment**	Contact Recreation	Non-Contact Rec.	Physical Integrity	Aquatic Life	Benthic subindex	Diatom subindex	Total EII Score
BLU1	180	Blunn Creek @ Riverside Drive	2000	49	69	45	66	40	31	31	31	50
BLU2	364	Blunn Creek Upstream of Big Stacy	2000	51	69	80	68	41	55	35	74	61
BLU3	362	Blunn Creek @ Long Bow	2000	47	69	78	73	47	44	29	58	60
BLU3	363	Blunn Creek @ Willow Run	2000	49	69	90	49	23	48	38	58	56
BLU1	180	Blunn Creek @ Riverside Drive	2003	47	71	73	63	67	37	44	30	60
BLU2	364	Blunn Creek Upstream of Big Stacy	2003	51	71	48	72	47	40	43	37	55
BLU3	362	Blunn Creek @ Long Bow	2003	49	71	66	86	85	46	54	37	67
BLU1	180	Blunn Creek @ Riverside Drive	2006	47	67	44	79	51	60	45	74	58
BLU2	364	Blunn Creek Upstream of Big Stacy	2006	52	67	35	73	72	57	44	70	59
BLU3	362	Blunn Creek @ Long Bow	2006	55	67	39	94	79	70	53	87	67
BLU1	180	Blunn Creek @ Riverside Drive	2009	58	63	37	63	50	45	24	66	53
BLU2	364	Blunn Creek Upstream of Big Stacy	2009	53	63	31	81	43	69	53	85	57
BLU3	362	Blunn Creek @ Long Bow	2009	59	63	33	88	75	78	60	95	66
BLU1	180	Blunn Creek @ Riverside Drive	2011	61	72	68	50	57	40	31	48	58
BLU2	364	Blunn Creek Upstream of Big Stacy	2011	62	72	36	53	61	20	20		51
BLU3	362	Blunn Creek @ Long Bow	2011	50	72	36	80	66	52	37	67	64

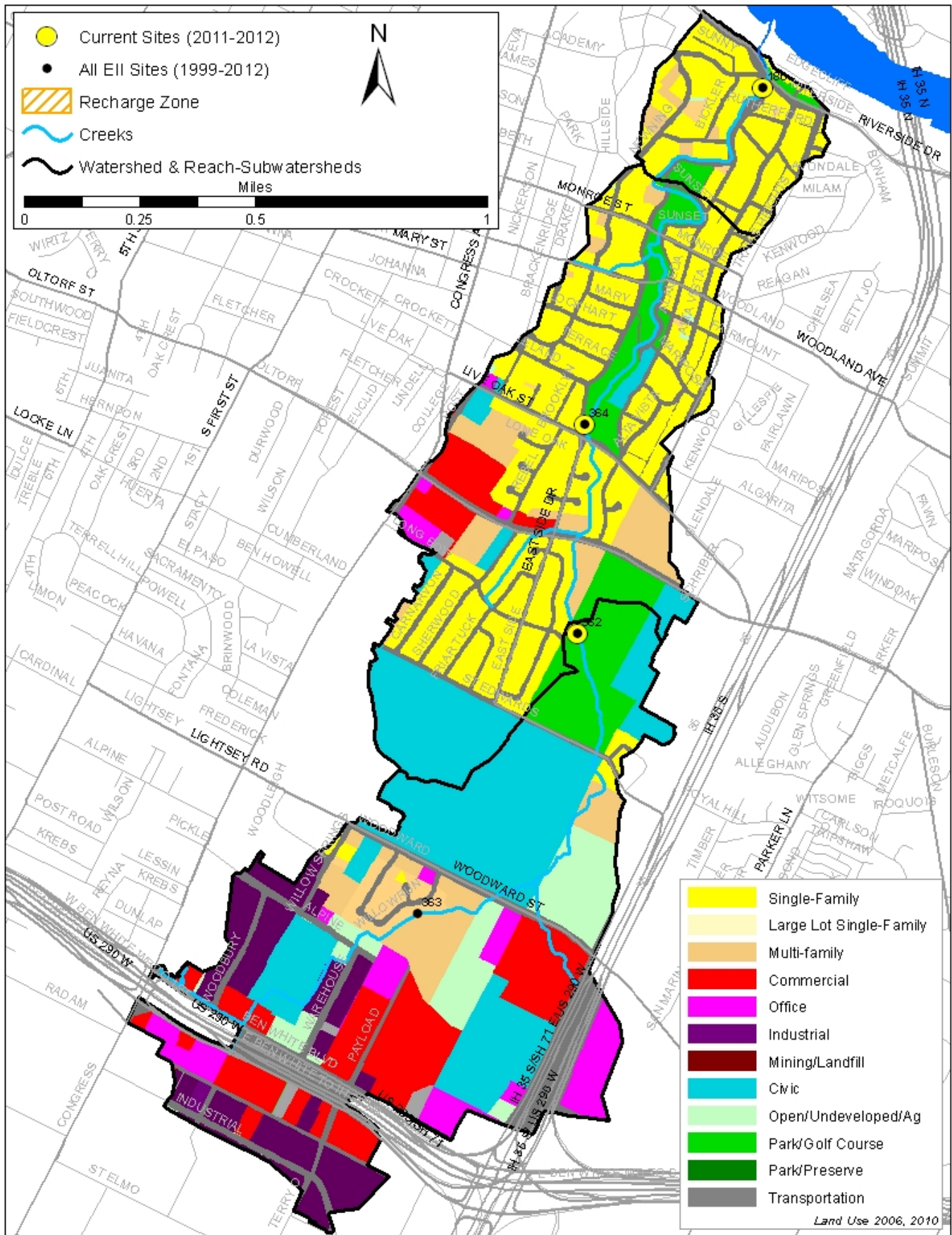
* blank cells indicate parameter was not collected, blank row indicate site was dropped

**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

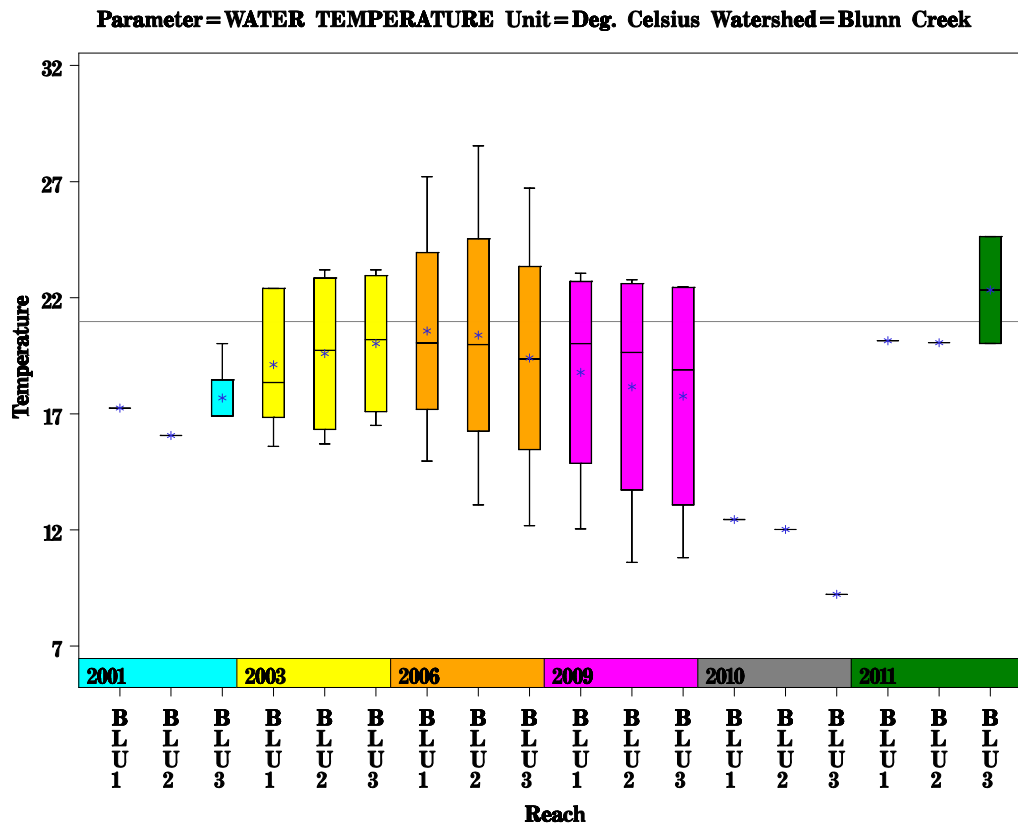
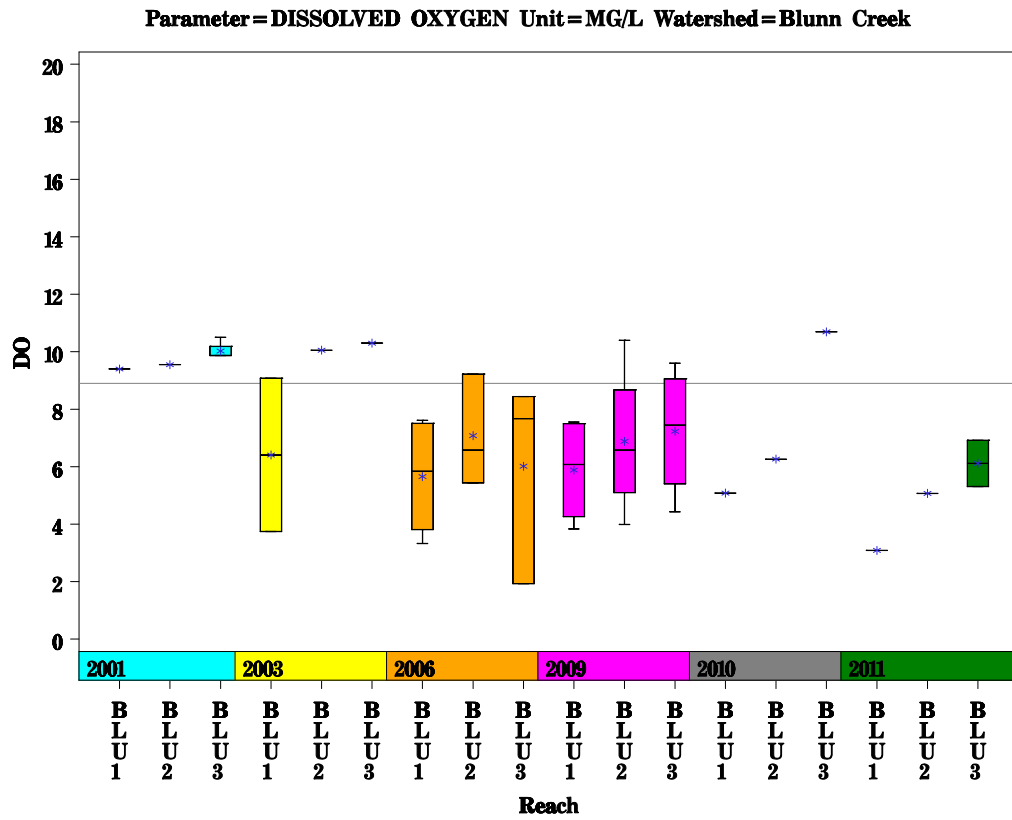
Blunn Creek Watershed

Land Use Map



Blunn Creek Watershed

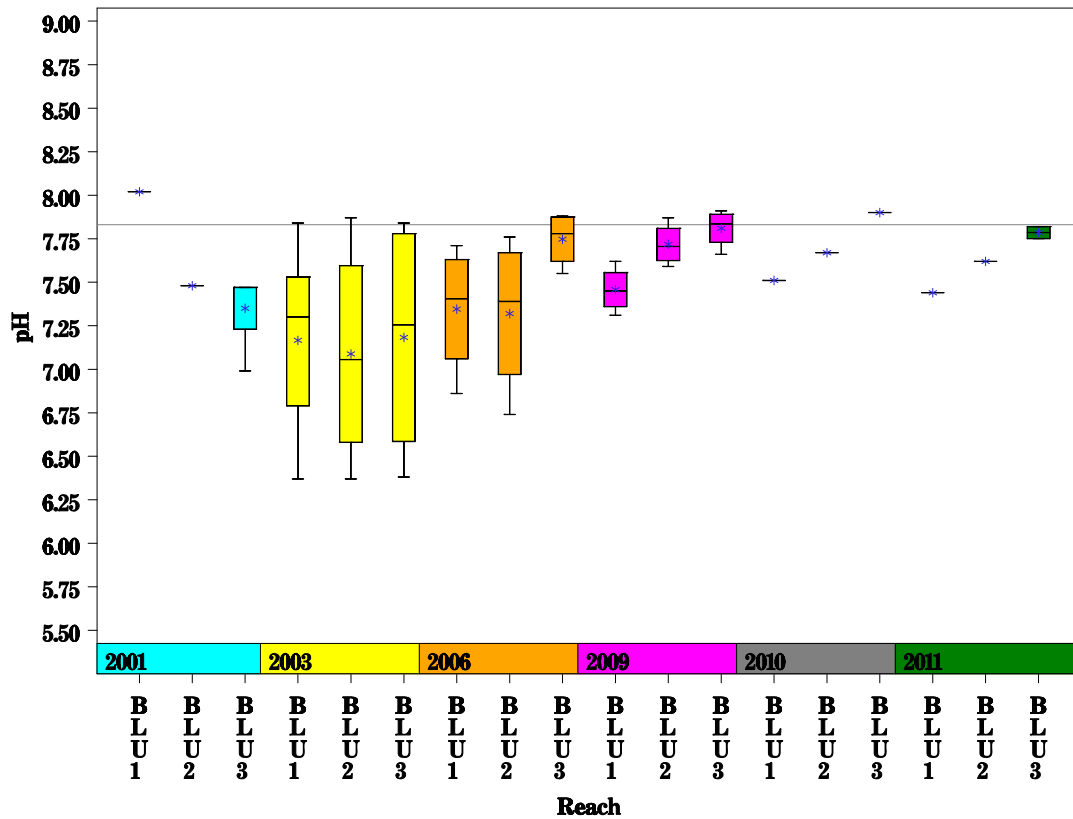
Data Summary Graphs – Dissolved Oxygen and Temperature (Downstream to Upstream by Year)



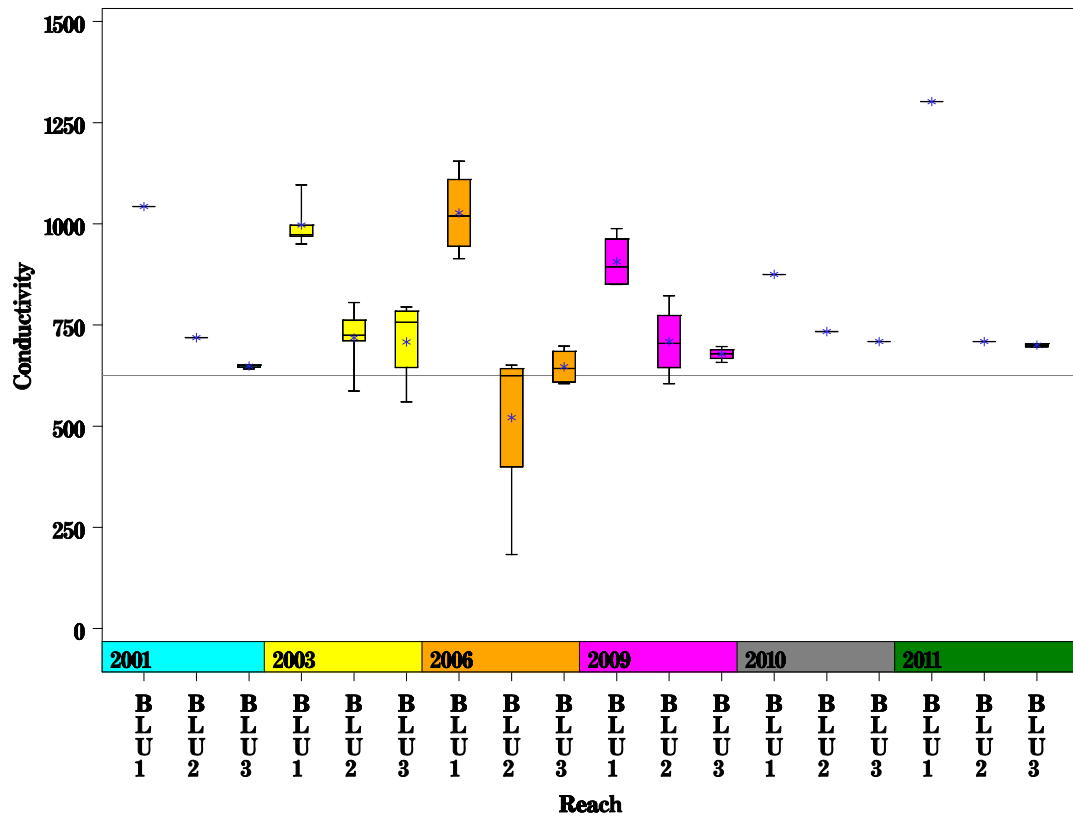
Blunn Creek Watershed

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

Parameter=PH Unit=Standard units Watershed=Blunn Creek



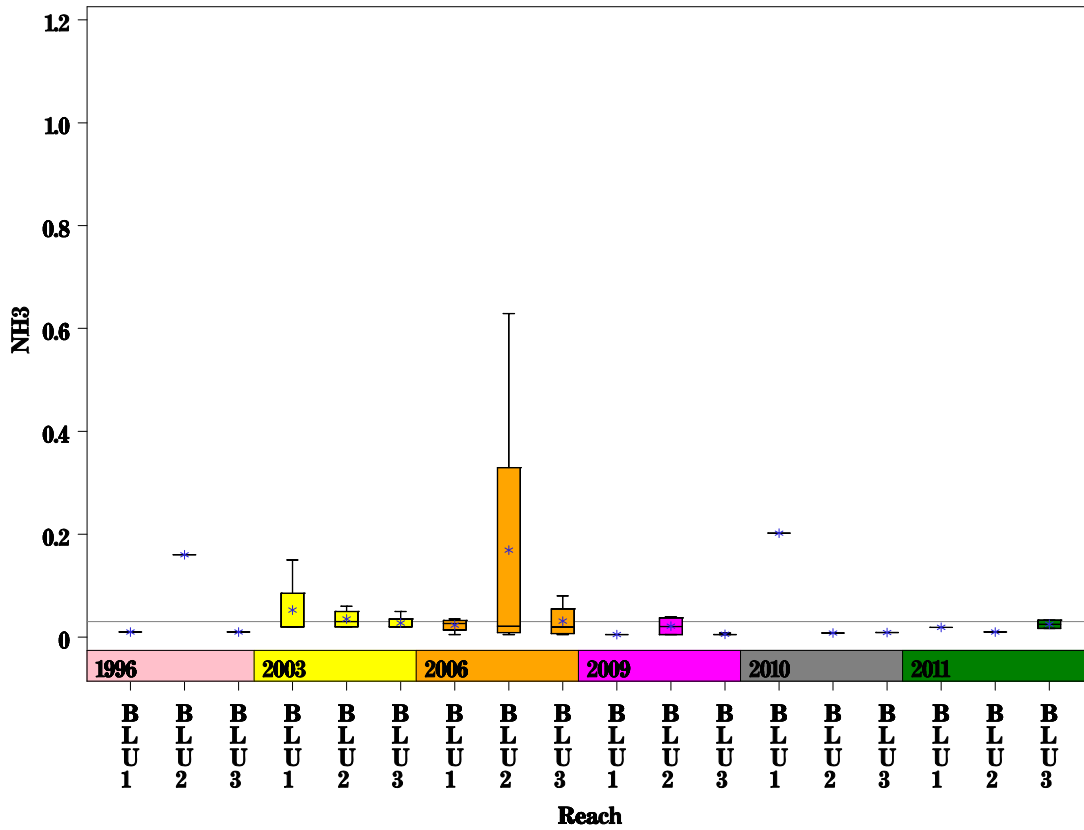
Parameter=CONDUCTIVITY Unit=uS/cm Watershed=Blunn Creek



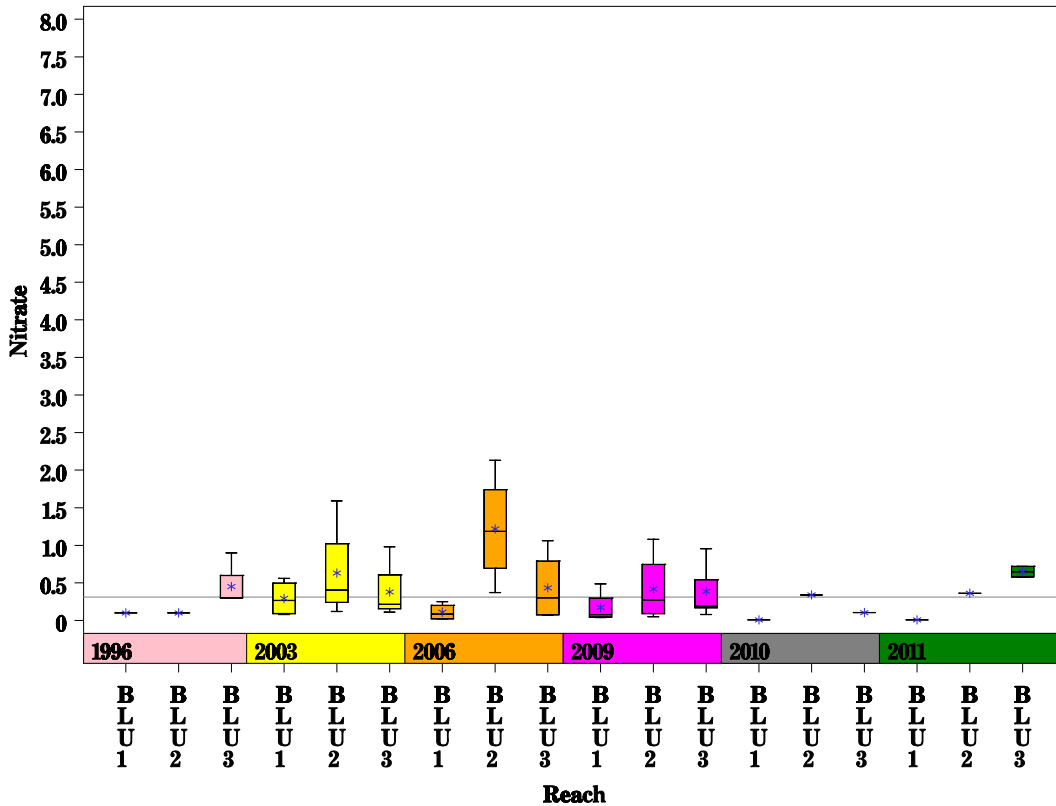
Blunn Creek Watershed

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

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



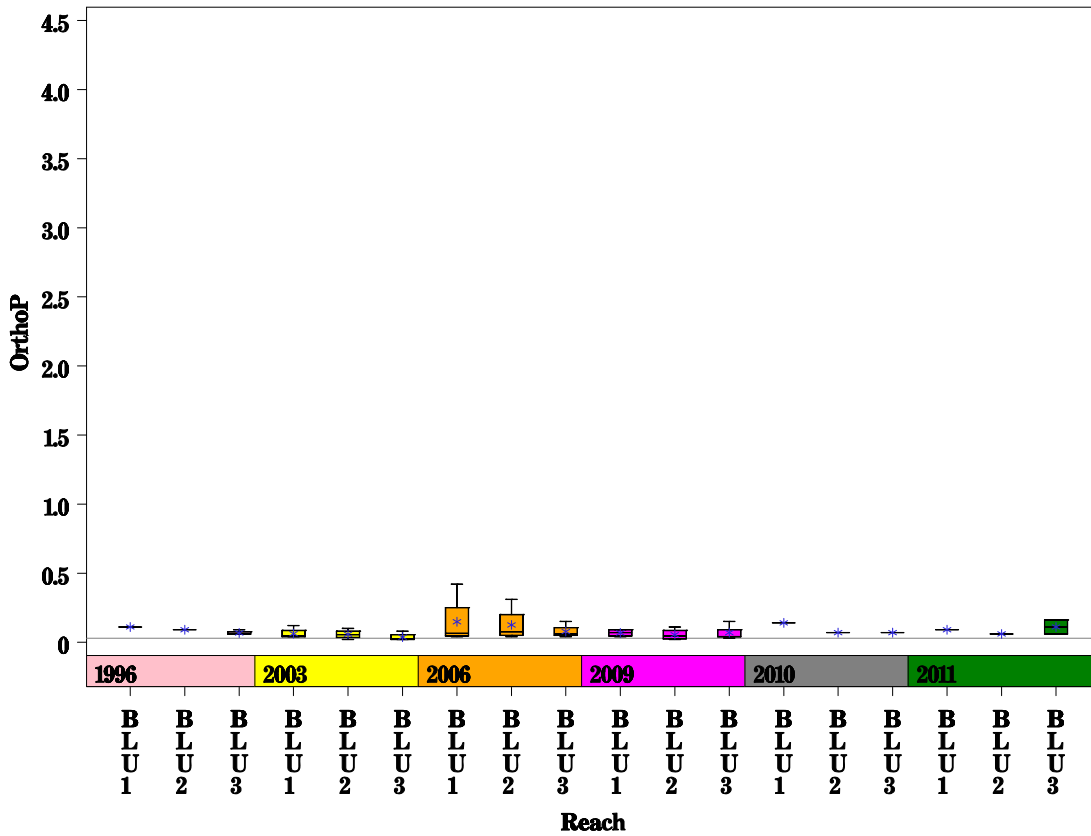
Parameter=NITRATE AS N Unit=MG/L Watershed=Blunn Creek



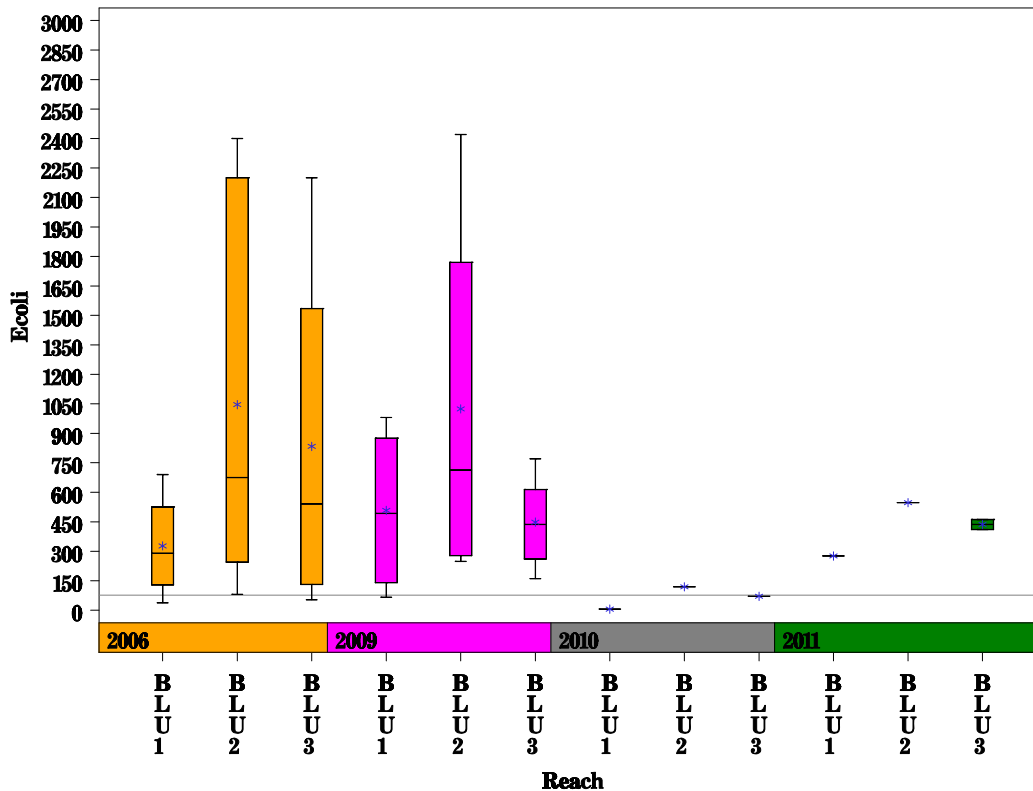
Blunn Creek Watershed

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

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



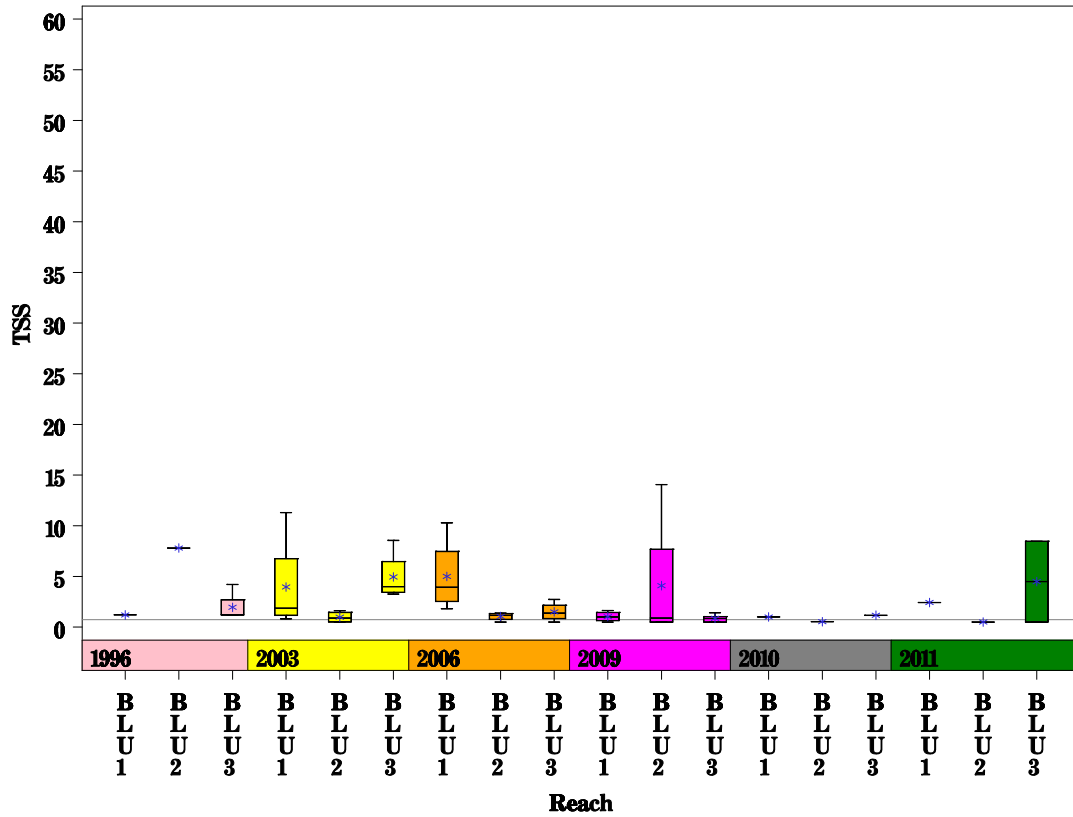
Parameter = E COLI BACTERIA Unit = MPN/100ML Watershed = Blunn Creek



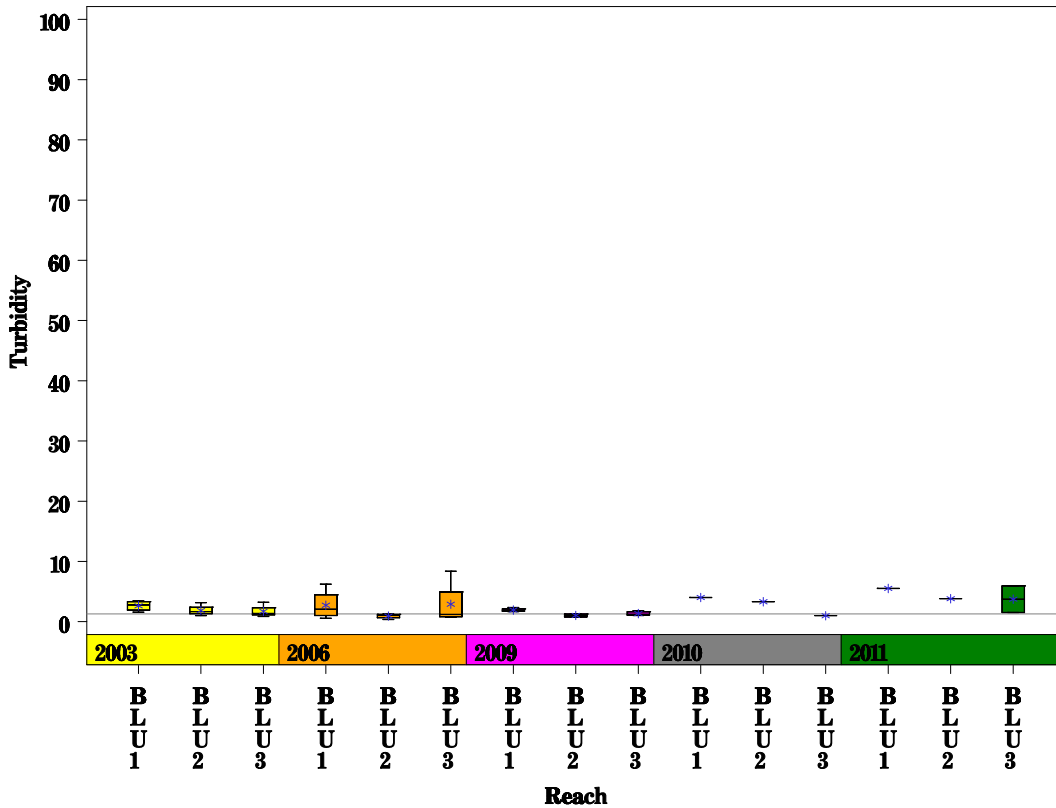
Blunn Creek Watershed

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

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

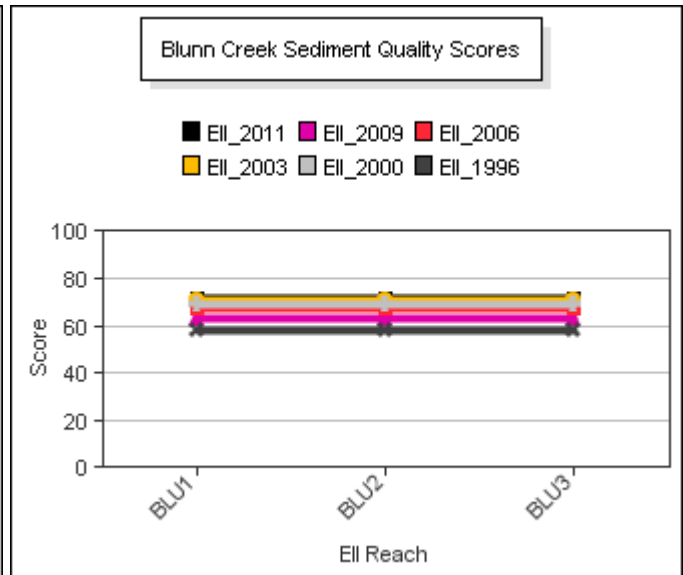
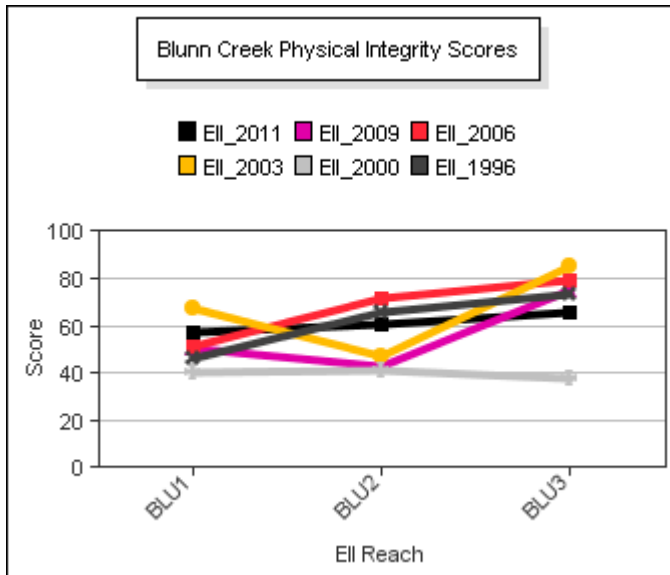
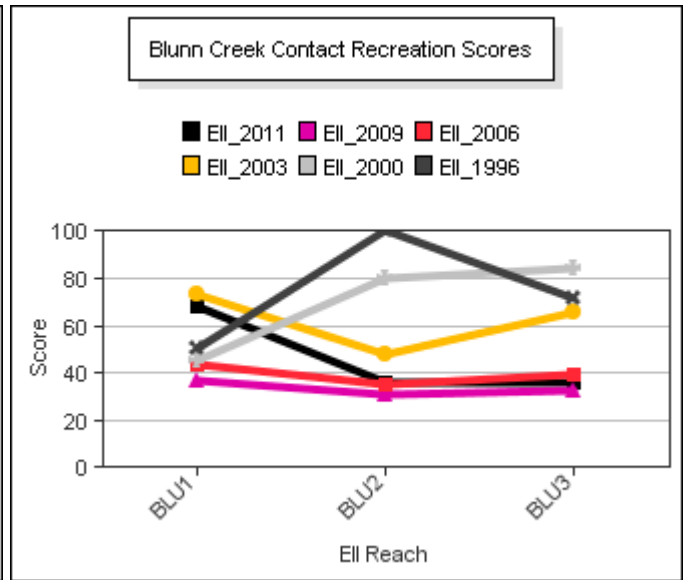
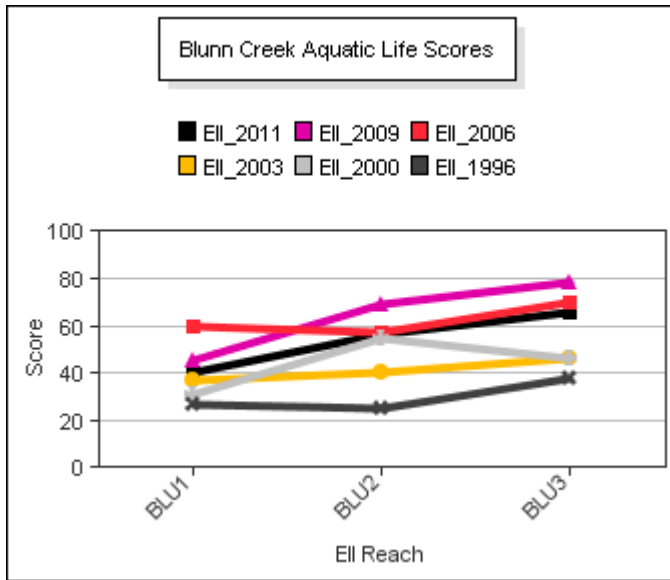
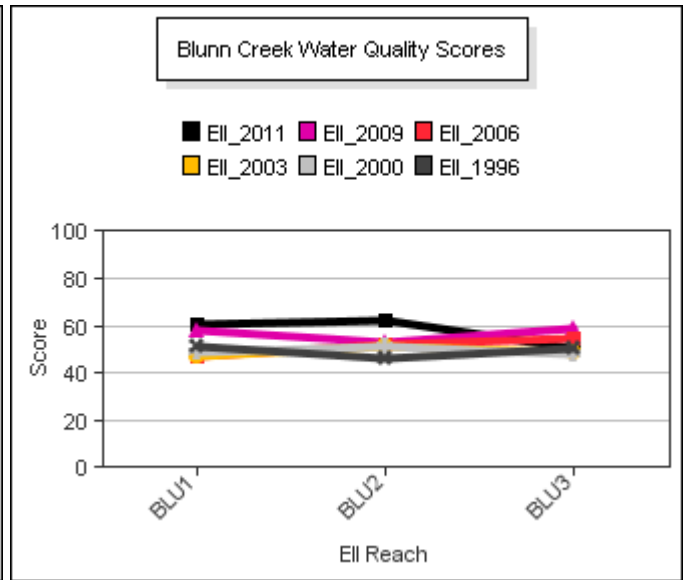
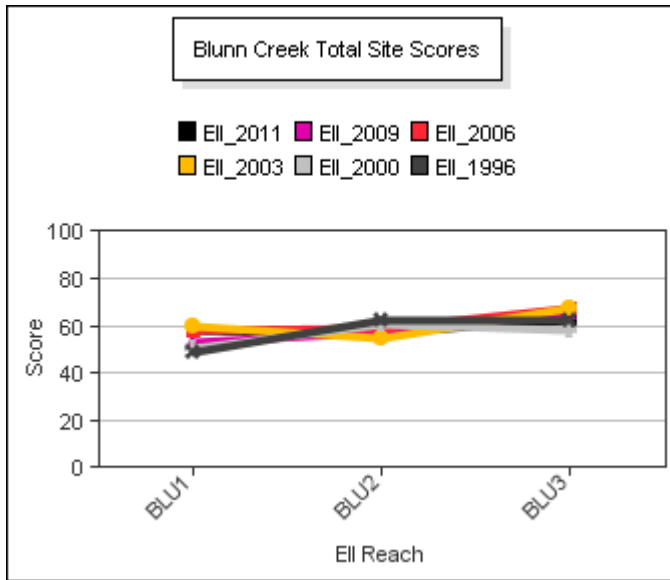


Parameter = TURBIDITY Unit = NTU Watershed = Blunn Creek



Blunn Creek Watershed

Score Summary – Reach scores for each sample year



Blunn Creek Watershed

Site Photographs



180_t00-ds-02_22_2001



180_t00-ds-07_11_2006



180_t00-us-02_22_2001



180-t00-us-06-01-2009



362_t00-us-07_11_2006



362-t00-ur-06-01-2009

Blunn Creek Watershed

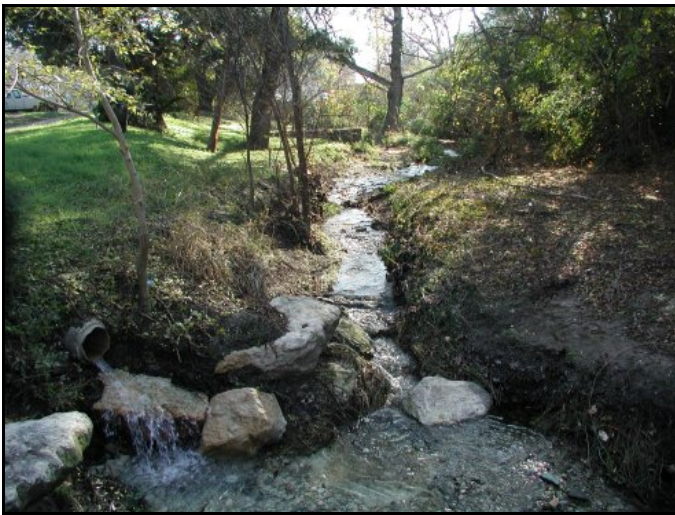
Site Photographs



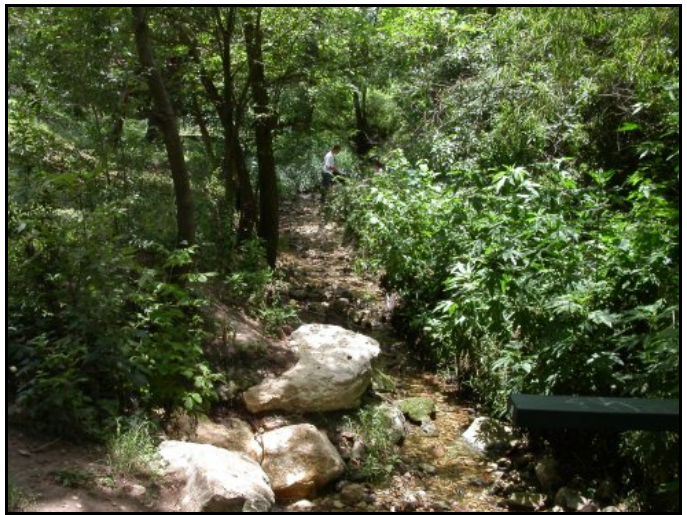
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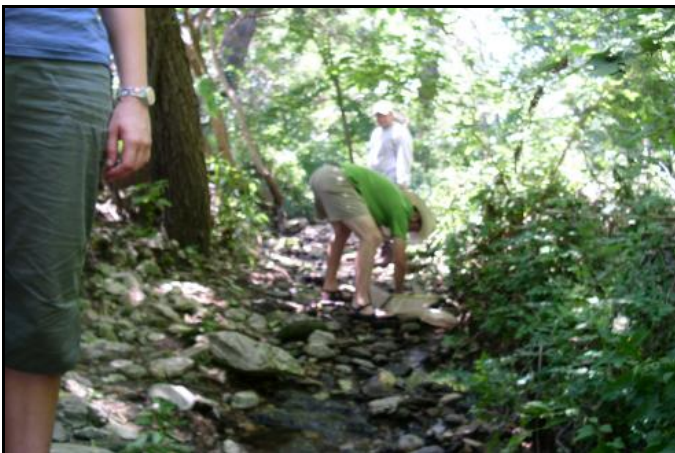
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364_t00-us- 12_18_2000



364_t00-us1-07_05_2006



364-t00-ur-06-01-2009



364-t00-us-06-01-2009

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