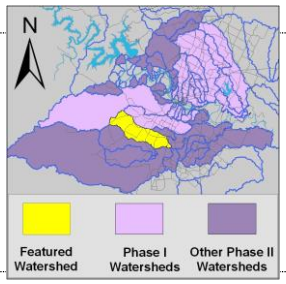
Slaughter Creek Watershed

Summary Sheet

Catchment	Total area	30.7 sq. miles			
	Area in recharge	10.7 sq. miles			
	Creek length	18 miles			
	Receiving water	Onion Creek			
Demographics	2000 population	33,471			
	2030 projected population	76,579			
	30 year projected % increase	129 %			
Land Use	Impervious cover (2003 estimate)	9.01 %			
Overall EII Scores	2001	2004	2007	2010	2012
	75	65	77	79	70



Flow Regime* for Sample Sites on Slaughter Creek

Site #	Site Name	2004						2007					2010				2011	2012	
		Mar	May	May	Jun	Oct	Dec	Feb	May	Jun	Sep	Dec	Mar	May	May	Oct	Dec	Mar	Apr
		WQ	WQ	Bio	WQ	WQ	WQ	WQ	WQ	Bio	WQ	WQ	WQ	WQ	Bio	WQ	WQ	WQ	Bio
623	FM 1826	B			B	n	B	B	B	B	B	B	B	B	B	B	n	B	B
1086	Young	B	B	B	B	n	B												
1084	HWY 45	B	n		B	n	B												
1085	Escarpment	n	n		n	n	B												
1082	Pine Vly	B	B	B	B	B	B	B	B	S	B	B	B	B	B	B	B	B	B
1083	River Oaks	B	B	B	B	n	B												

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

Summary of 2012 Data for Slaughter Creek

Summary	Parameter	Mean	Max	Min	Discussion
Physicochemical	**D.O.** mg/l	**5.8**	8.6	2.5	Downstream site shows some low concentrations.
	pH st.units	**7.84**	8.06	7.43	Mostly within normal range, some low values.
	Cond uS/cm	**540**	853	241	Within normal range, generally higher at upstream site.
Nutrients	**NH_3** mg/l	**0.022**	0.064	0.008	Within normal range.
	NO_3 mg/l	**0.408**	1.920	0.008	Wide range of values, but all within normal range.
	Ortho P mg/l	**0.012**	0.030	0.004	Within normal range.
Sediment Load	**TSS** mg/l	**4.2**	10.8	1.0	Above average values at downstream site, but all within normal range.
	Turbidity ntu	**5.16**	9.18	0.82	Above average values at downstream site, but all within normal range.
Biology	**E.Coli** /100ml	**119**	228	10	Within normal range, generally below average.
	Benthic Macroinvertebrates and Diatoms: evaluations are provided in the introduction of this report				

Index scores* for Slaughter Creek Sites by Year

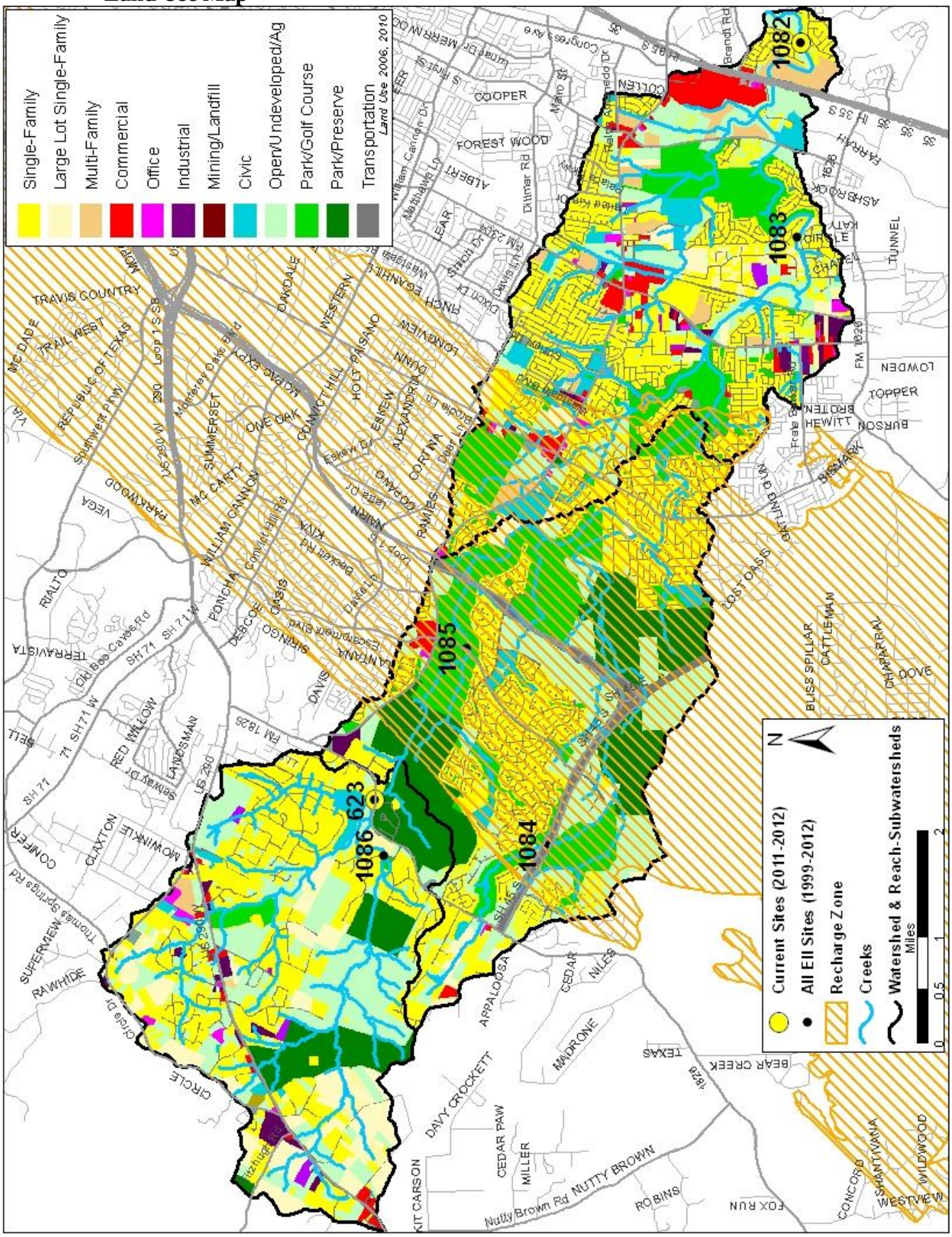
Reach	Site	Site Name	Year	Water Quality	Sediment**	Contact Rec.	Non-Contact Rec.	Physical Integrity	Aquatic Life	Benthic subindex	Diatom subindex	**Total EII Score**
SLA1	1082	Slaughter Creek @ Pine Valley Drive	1998	73	70	82	63	71	63	67	58	70
SLA1	1083	Slaughter Creek @ River Oaks Drive	1998	74	70	88	77	83	67	61	72	77
SLA2	1084	Slaughter Creek Branch @ Hwy 45 West	1998	70	70	86	46	74	62	72	52	68
SLA2	1085	Slaughter Creek @ Escarpment Blvd	1998	73	70	95	93	89	83	75	90	84
SLA3	1086	Slaughter Creek @ Young Lane	1998	75	70	87	96	80	68	67	68	79
SLA1	1082	Slaughter Creek @ Pine Valley Drive	2001	62	86	96	58	70	43	40	45	66
SLA1	1083	Slaughter Creek @ River Oaks Drive	2001	47	86	82	88	74	56	46	65	69
SLA2	1084	Slaughter Creek Branch @ Hwy 45 West	2001	67	86	87	80	72	59	57	61	72
SLA2	1085	Slaughter Creek @ Escarpment Blvd	2001	63	86	88	91	85	68	52	83	76
SLA3	1086	Slaughter Creek @ Young Lane	2001	75	86	48	100	96	75	70	80	75
SLA1	1082	Slaughter Creek @ Pine Valley Drive	2004	62	83	67	78	95	60	50	70	74
SLA1	1083	Slaughter Creek @ River Oaks Drive	2004	64	83	48	83	76	54	48	60	68
SLA2	1084	Slaughter Creek Branch @ Hwy 45 West	2004	60	83	62	78	43				54
SLA2	1085	Slaughter Creek @ Escarpment Blvd	2004	54	83	47	68	64				53
SLA3	1086	Slaughter Creek @ Young Lane	2004	67	83	51	93	82	82	80	84	76
SLA1	1082	Slaughter Creek @ Pine Valley Drive	2007	62	81	79	78	85	61	46	75	74
SLA3	623	Slaughter Creek @ FM 1826 (USGS)	2007	68	81	82	85	71	88	83	93	79
SLA1	1082	Slaughter Creek @ Pine Valley Drive	2010	74	80	77	79	78	70	61	78	76
SLA3	623	Slaughter Creek @ FM 1826 (USGS)	2010	74	80	89	86	68	91	95	87	81
SLA1	1082	Slaughter Creek @ Pine Valley Drive	2012	70	74	75	53	72	76	77	75	70
SLA3	623	Slaughter Creek @ FM 1826 (USGS)	2012	61	74	42	63	78	94	87	100	69

* 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

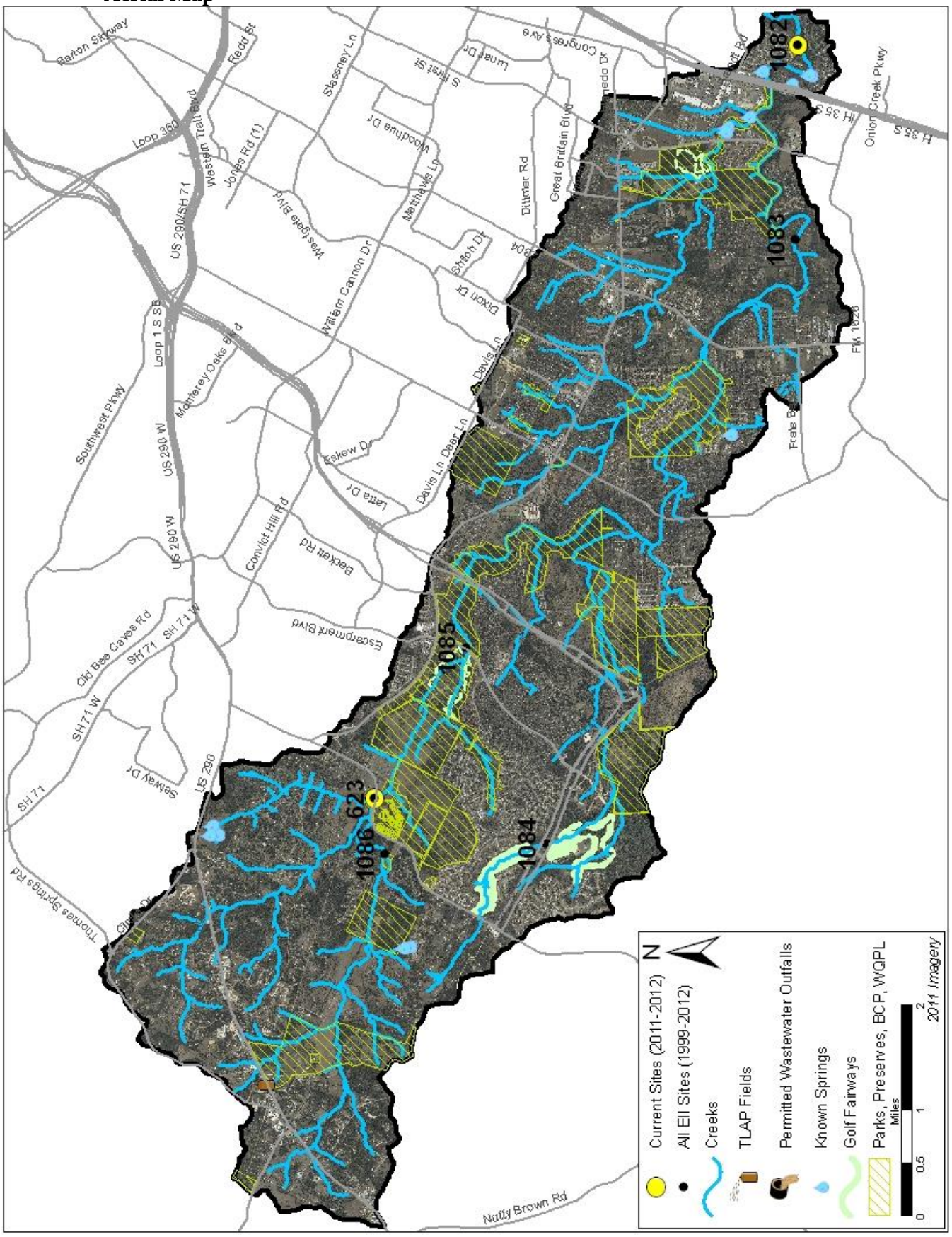
Slaughter Creek Watershed

Land Use Map



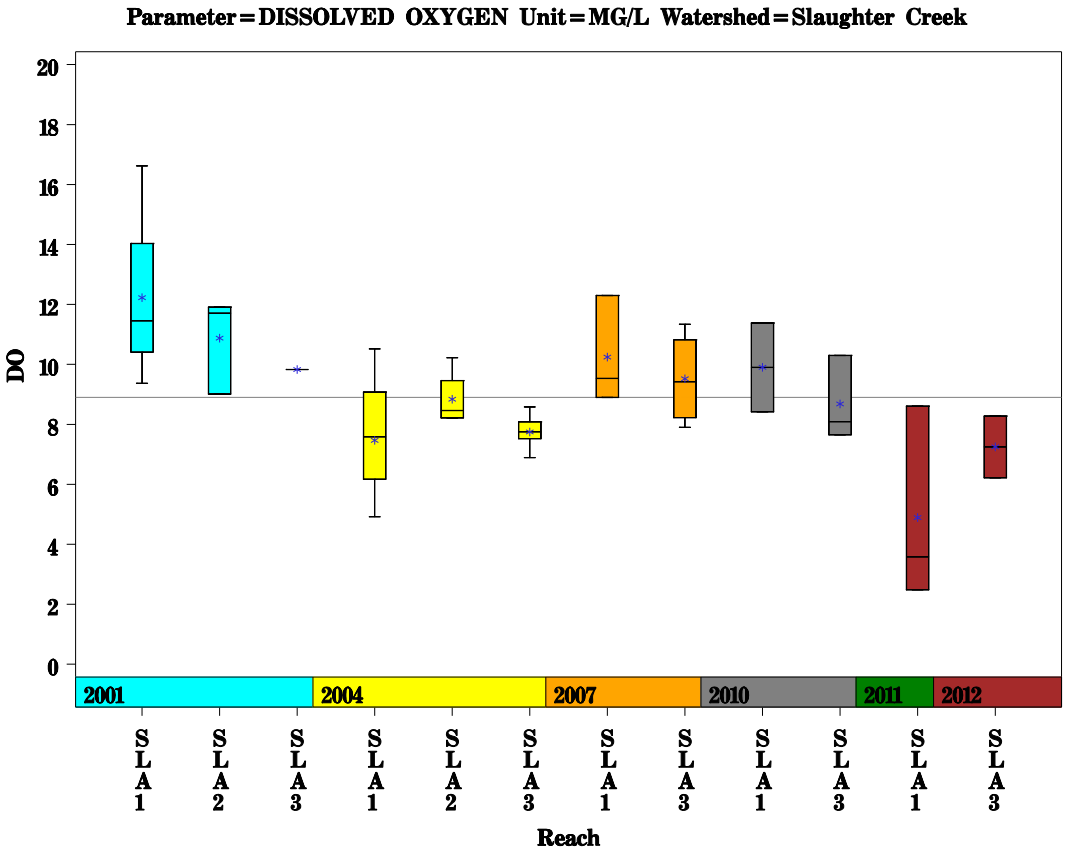
Slaughter Creek Watershed

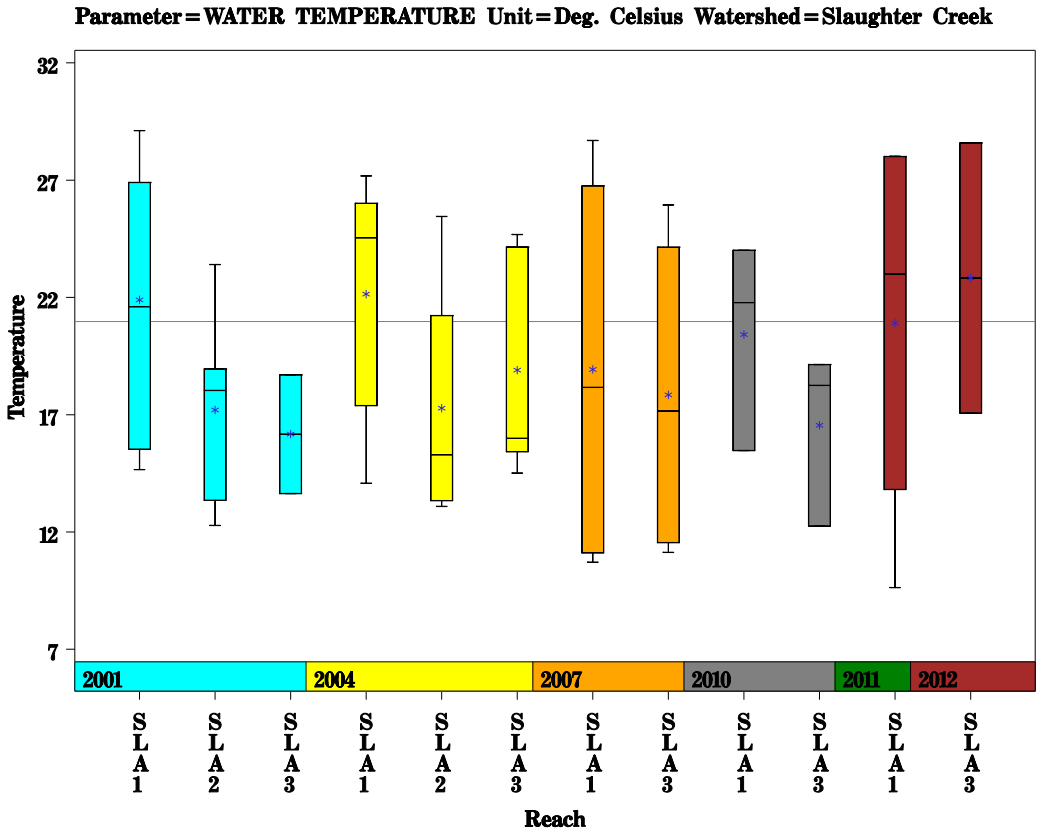
Aerial Map



Slaughter Creek Watershed

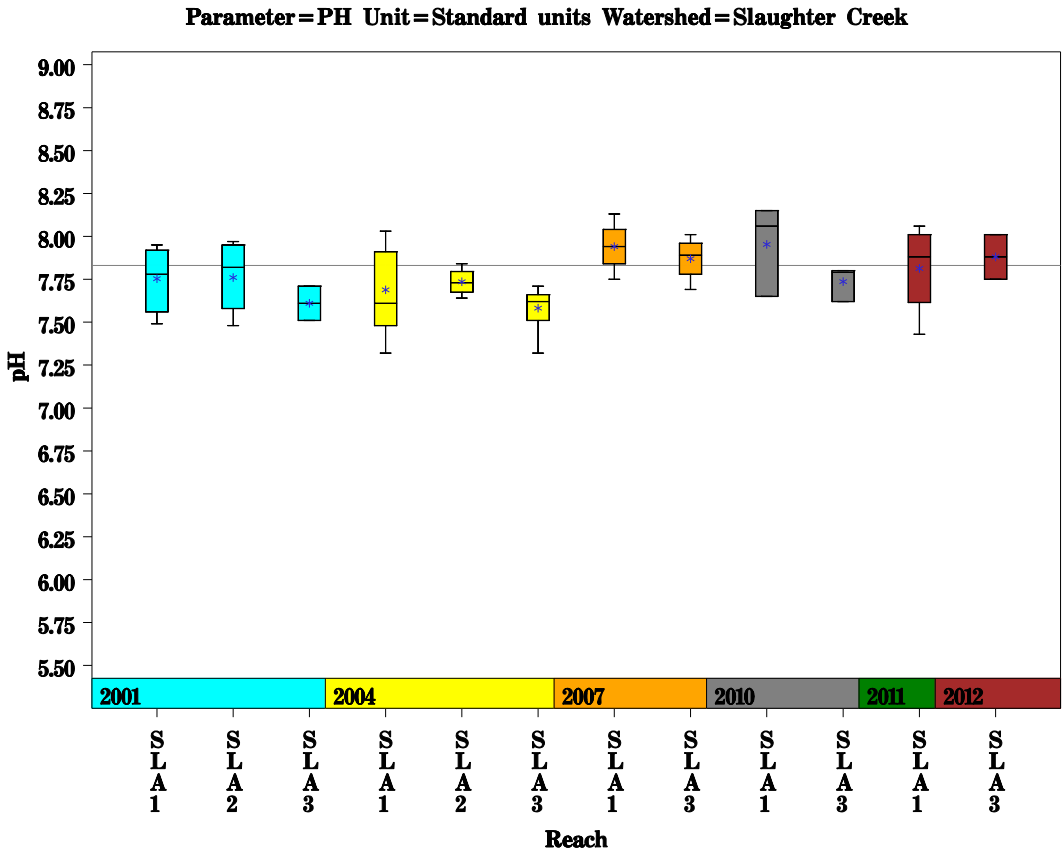
Data Summary Graphs – Dissolved Oxygen and Temperature (Downstream to Upstream by Year)

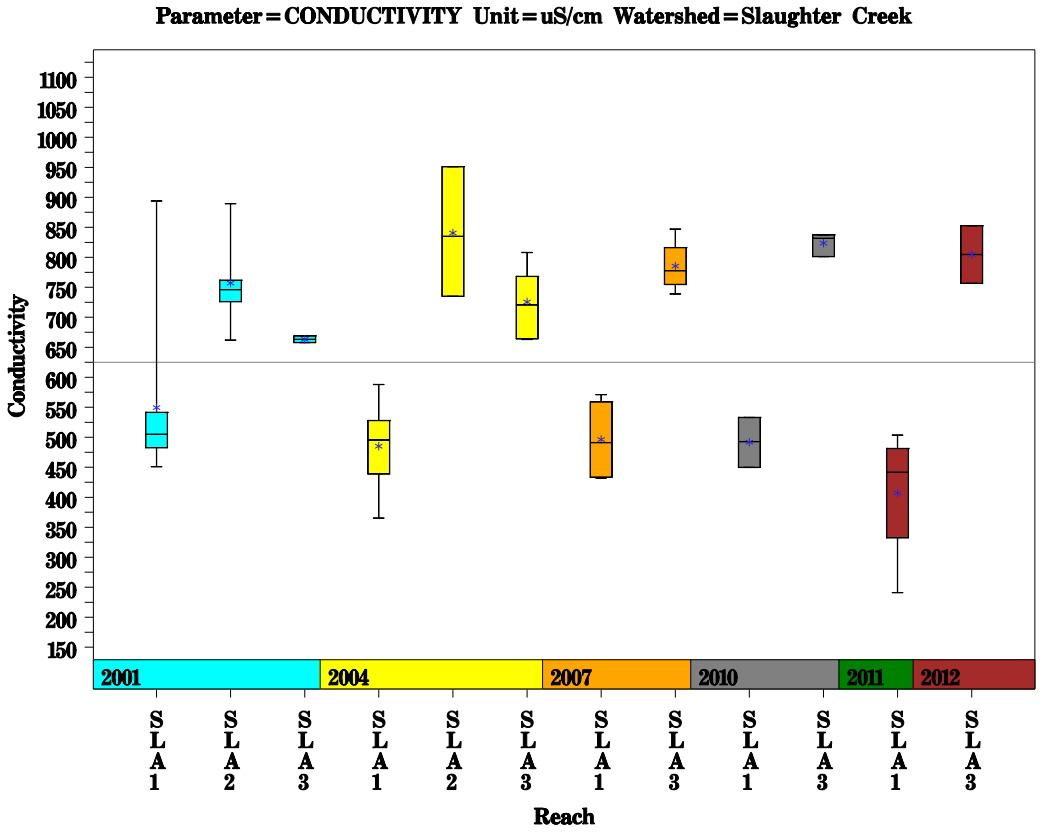




Slaughter Creek Watershed

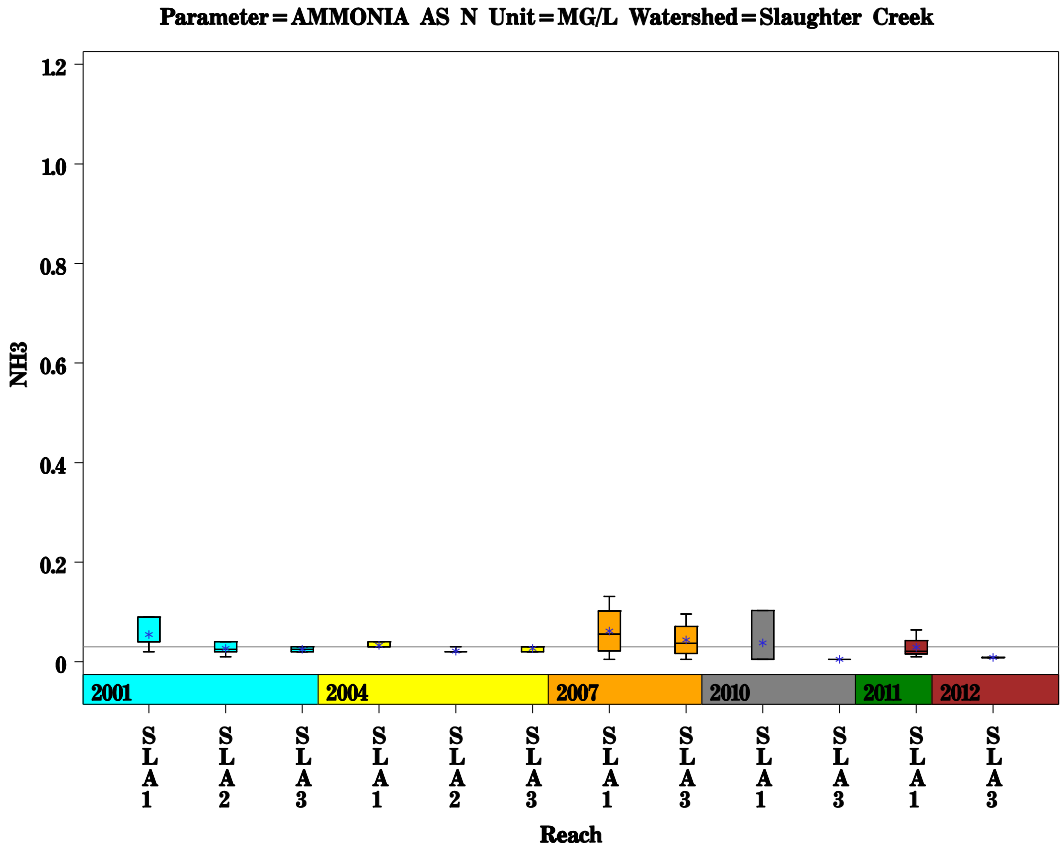
Data Summary Graphs – pH and Conductivity (Downstream to Upstream by Year)

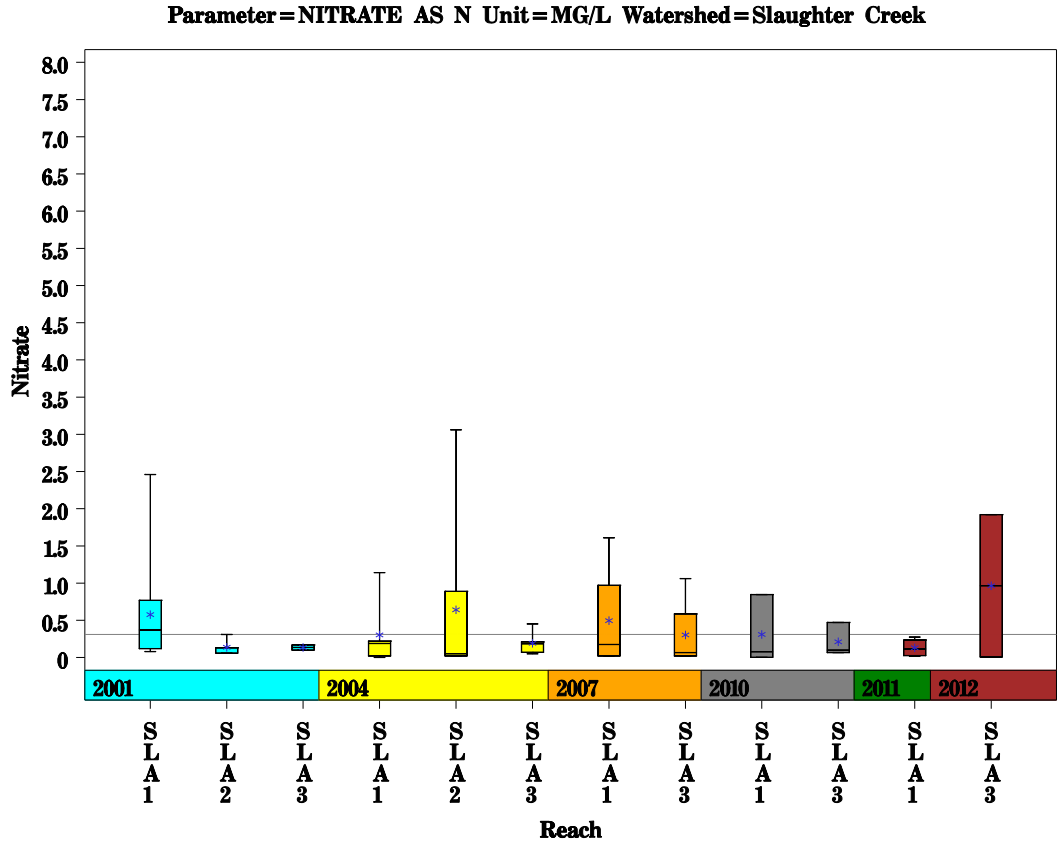




Slaughter Creek Watershed

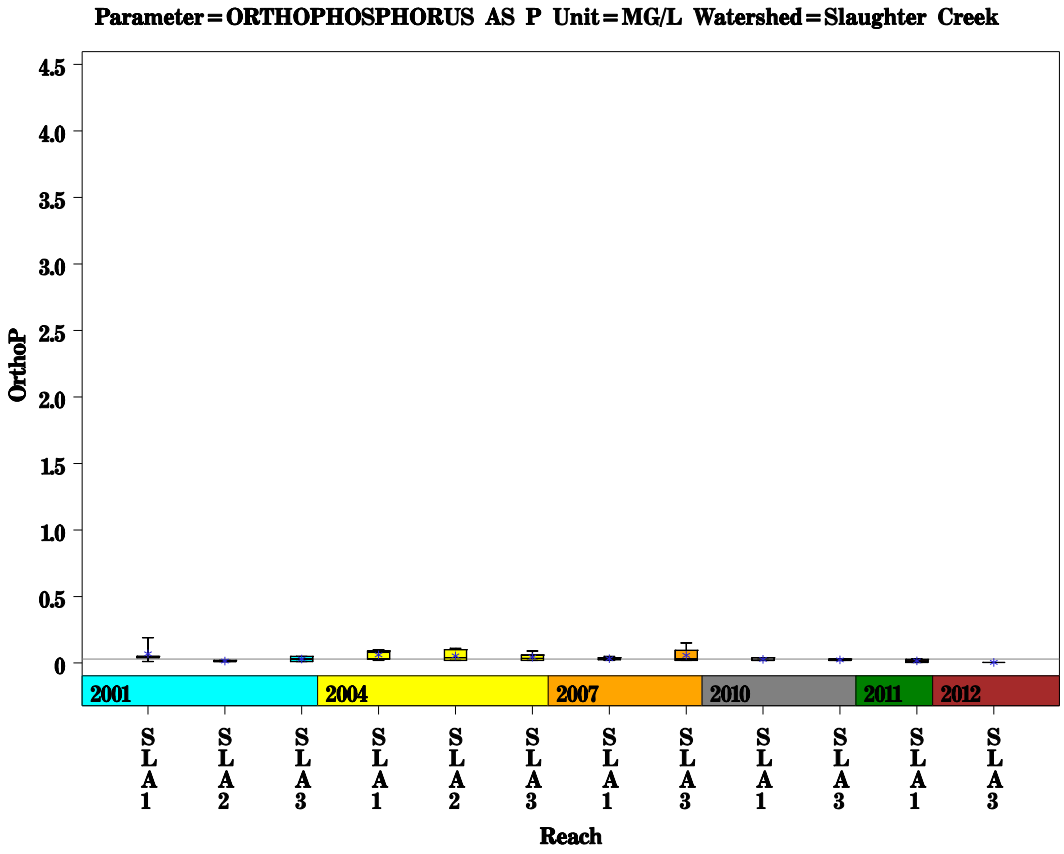
Data Summary Graphs – Ammonia and Nitrate/Nitrite (Downstream to Upstream by Year)

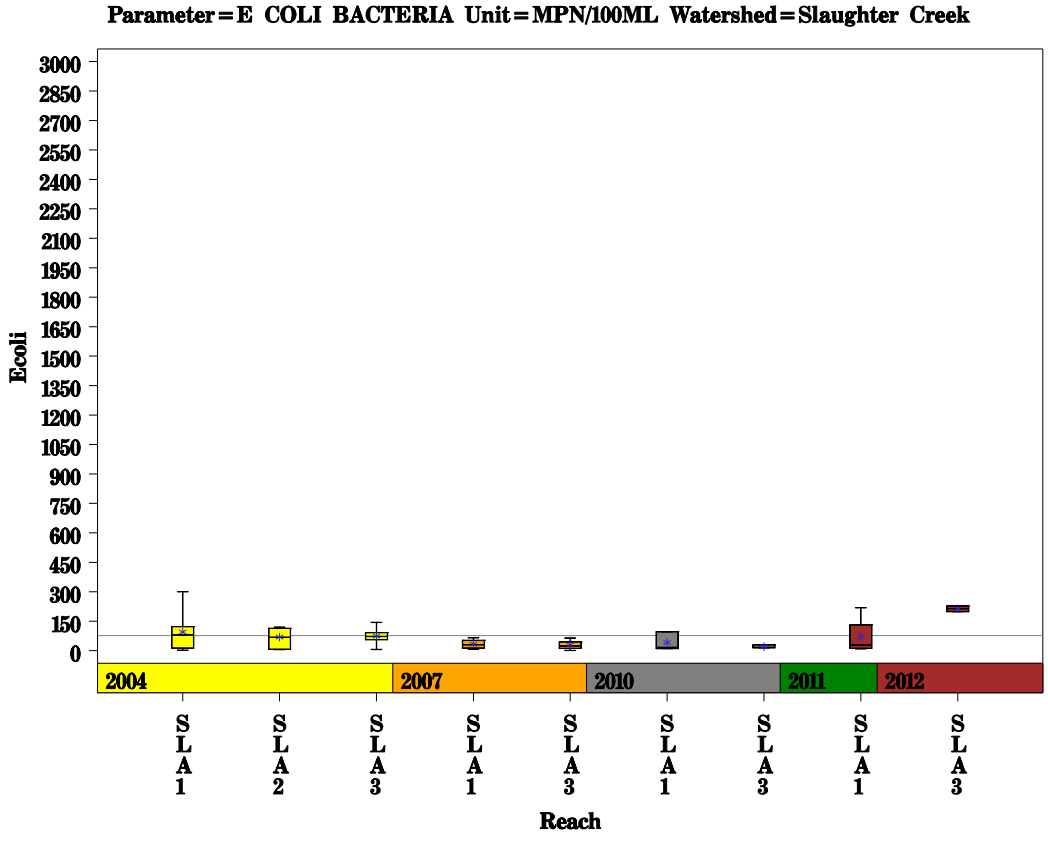




Slaughter Creek Watershed

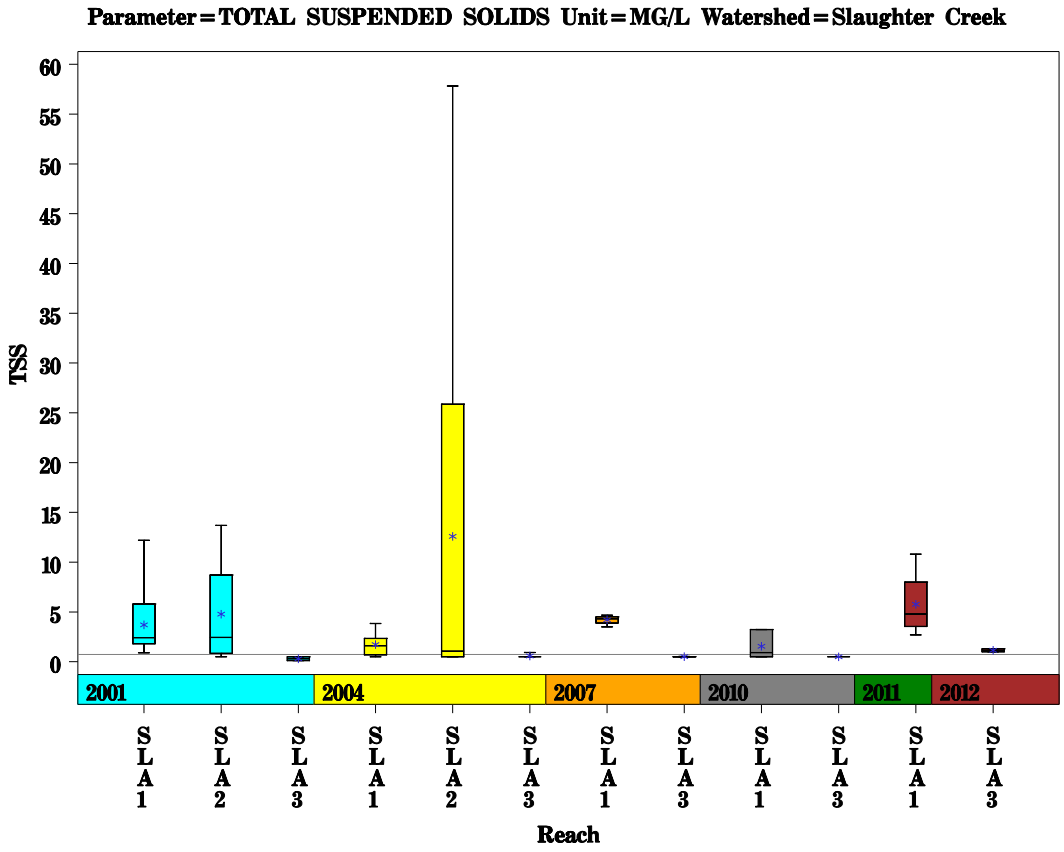
Data Summary Graphs – Orthophosphate and *E.coli* (Downstream to Upstream by Year)

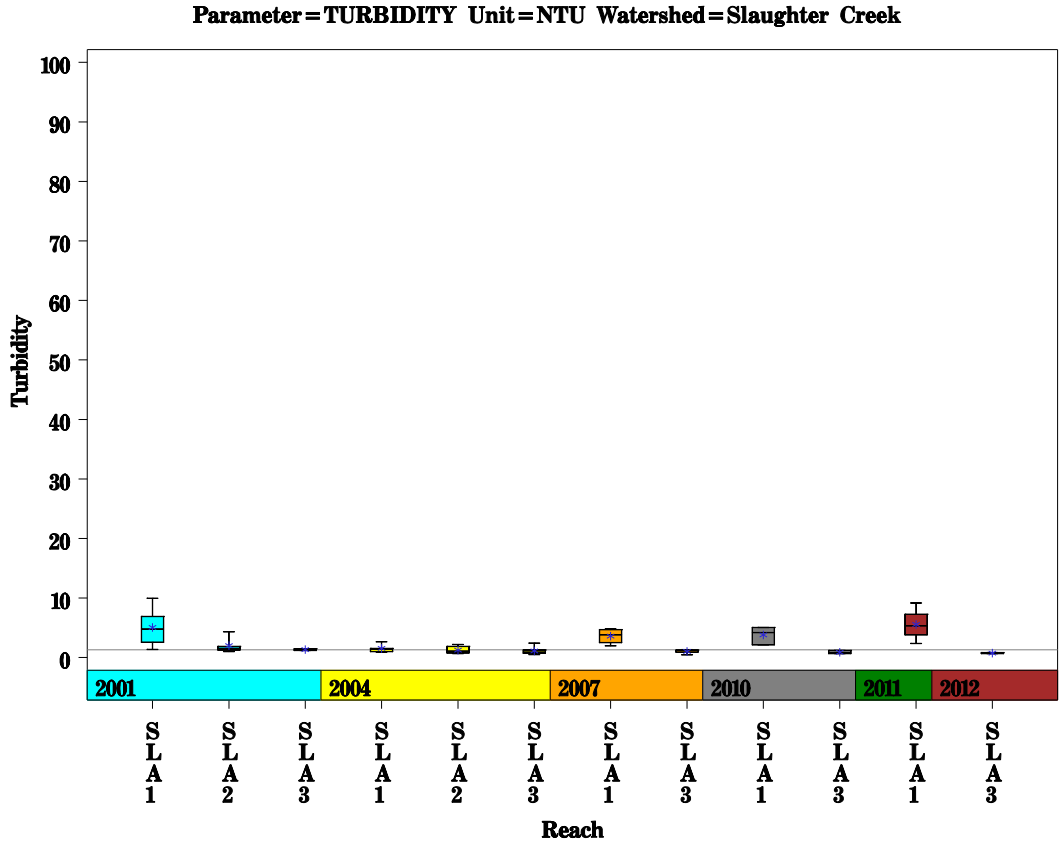




Slaughter Creek Watershed

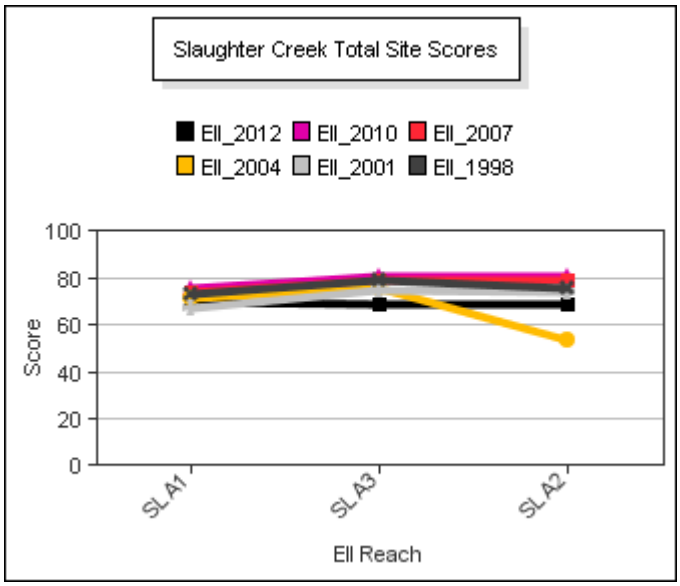
Data Summary Graphs – Total Suspended Solids and Turbidity (Downstream to Upstream by Year)

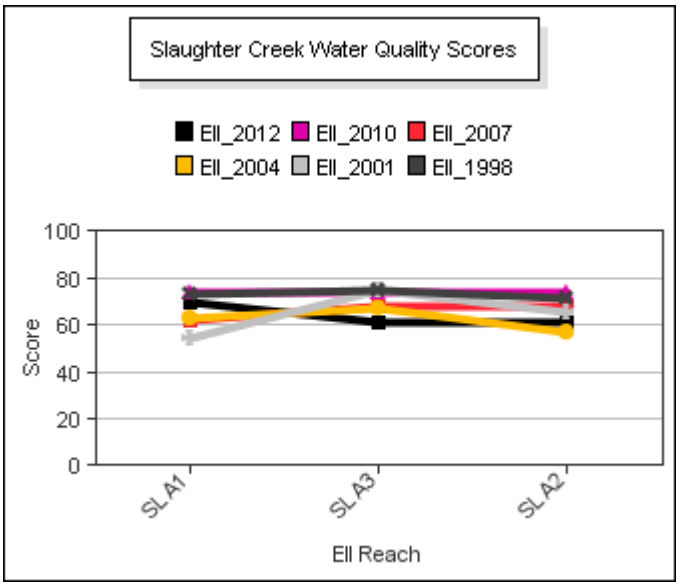


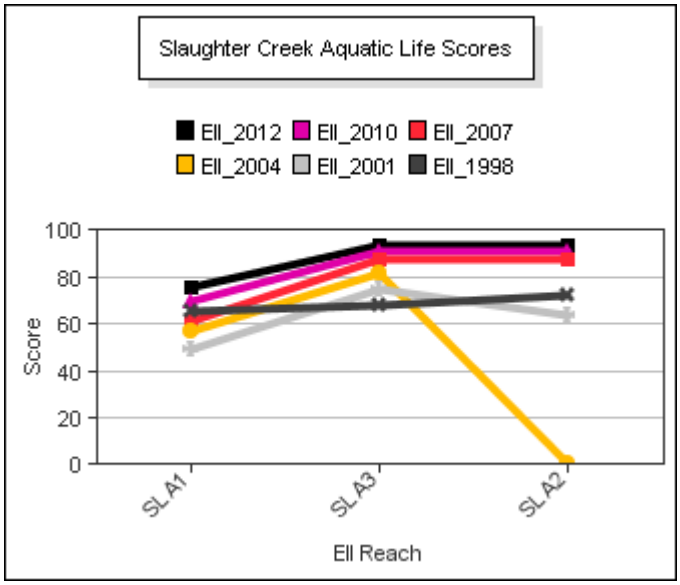


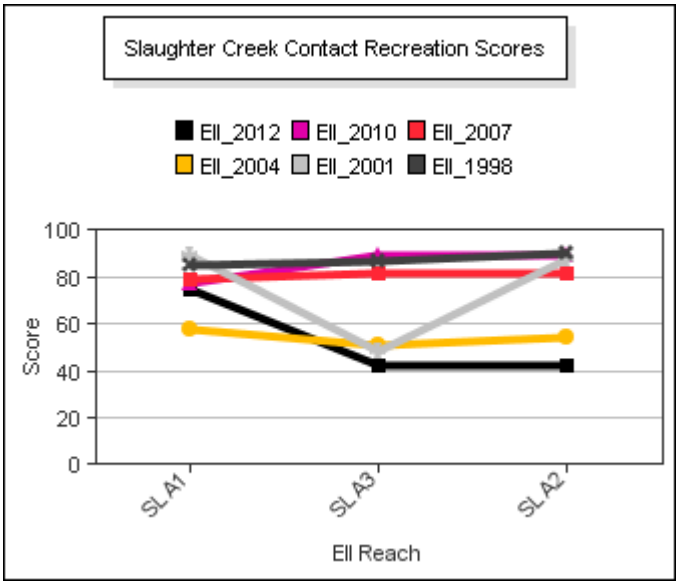
Slaughter Creek Watershed

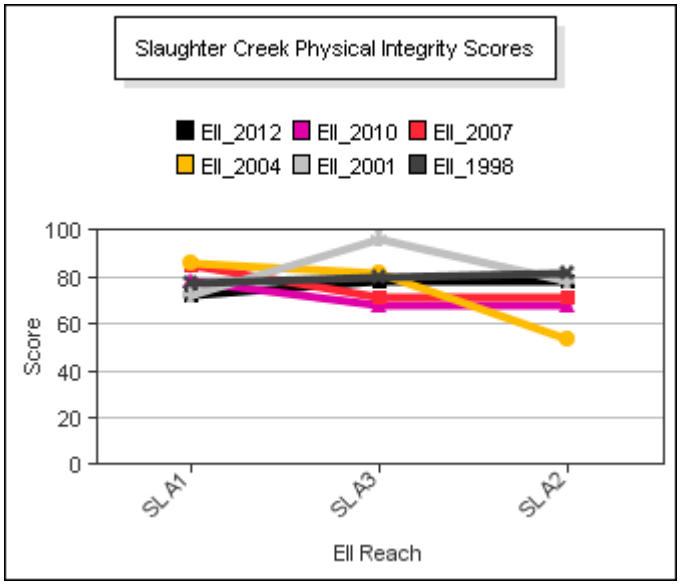
Score Summary – Reach scores for each sample year

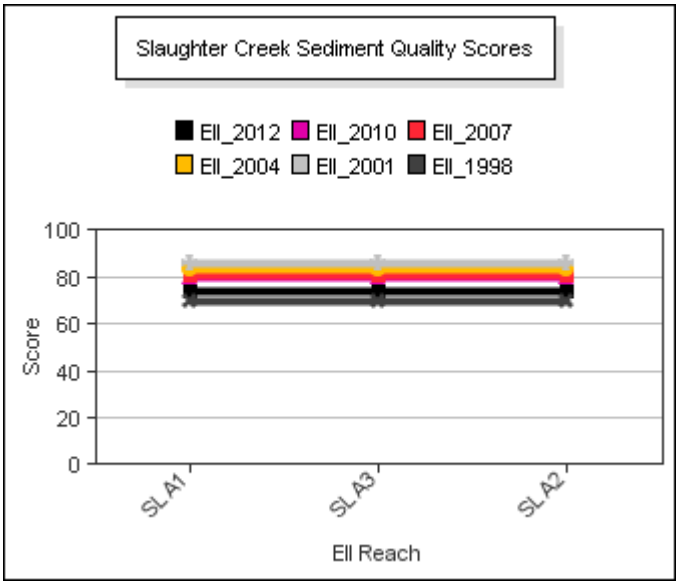












Slaughter Creek Watershed

Site Photographs

1082_ds_07_13_2007

1082_us_07_13_2007

1082_00-ds-05_27_2010

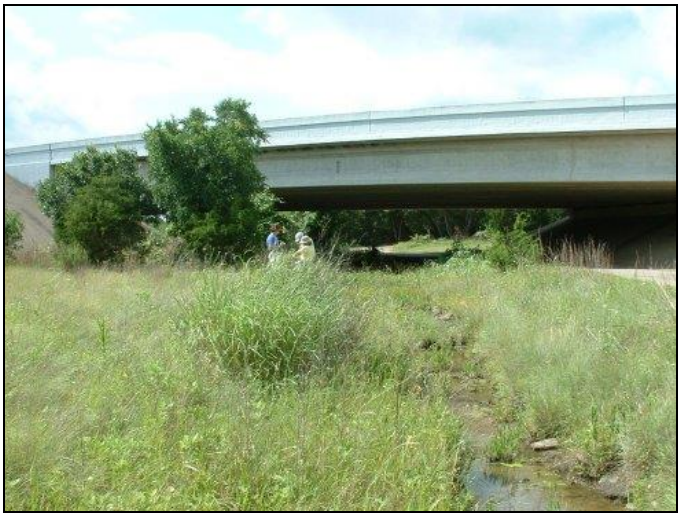
1082_00-us-05_27_2010

1083_t00-ur-05_24_2004

1083_t00-us-05_24_2004

Slaughter Creek Watershed

Site Photographs



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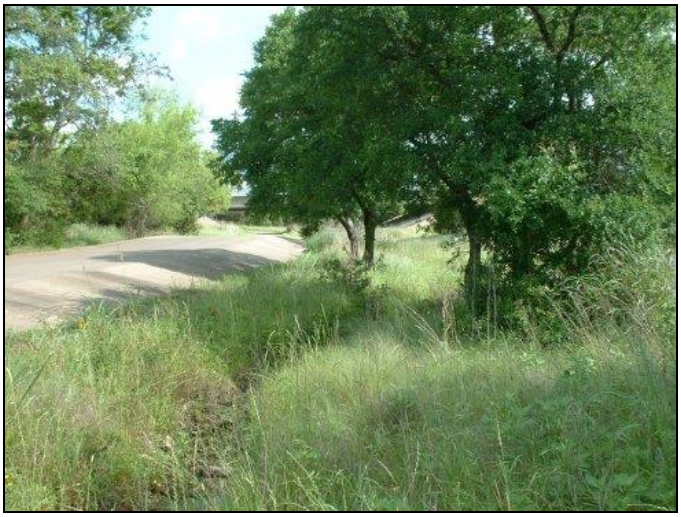

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623_ds_06_20_2007

623_us_06_20_2007

623_00-ds-05_28_2010

623_00-us-05_28_2010

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