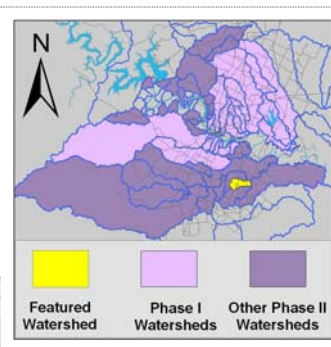


North Fork Dry Creek Watershed

Watershed Overview

Catchment	Total area	4 sq. miles						
	Area in recharge	0						
	Creek length	9 miles						
Demographics	Receiving water	Dry Creek						
	2000 population	590						
	2030 projected population	3,058						
	30 year projected % increase	418 %						
Land Use	Impervious cover (2003 estimate)	6.5 %						
	Impervious cover (2013 estimate)	6.5 %						
Overall EII Scores	1999	2002	2005	2008	2010	2012	2014	2016
	54	62	44	54	61	73	57	73



Flow Regime* for Sample Sites on North Fork Dry Creek

Site	2002					2005					2008					2010				2011				2012				2014					2016					
	Feb	Feb	May	Aug	Nov	Mar	Jun	Jun	Sep	Dec	Feb	May	Jun	Sep	Dec	Mar	May	May	Oct	Dec	Mar	May	Jul	Sep	Jan	Apr	May	Jul	Sep	Jan	Apr	May	Jul	Sep				
	WQ	Bio	WQ	WQ	WQ	WQ	WQ	Bio	WQ	WQ	WQ	WQ	WQ	WQ	WQ	WQ	WQ	Bio	WQ	WQ	WQ	Bio	WQ	WQ	WQ	WQ	WQ	Bio	WQ	WQ	WQ	WQ	WQ	WQ				
1217	B	B	n	n	B	B	n	n	n	n	B	n	n	n	n	B	B	B	n	n	B	n	n	n	B	B	n	n	n	B	B	n	n	B	B	B	n	B
1218	B		n	n	B																																	

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

Index Scores* for North Fork Dry Creek Sites by Year

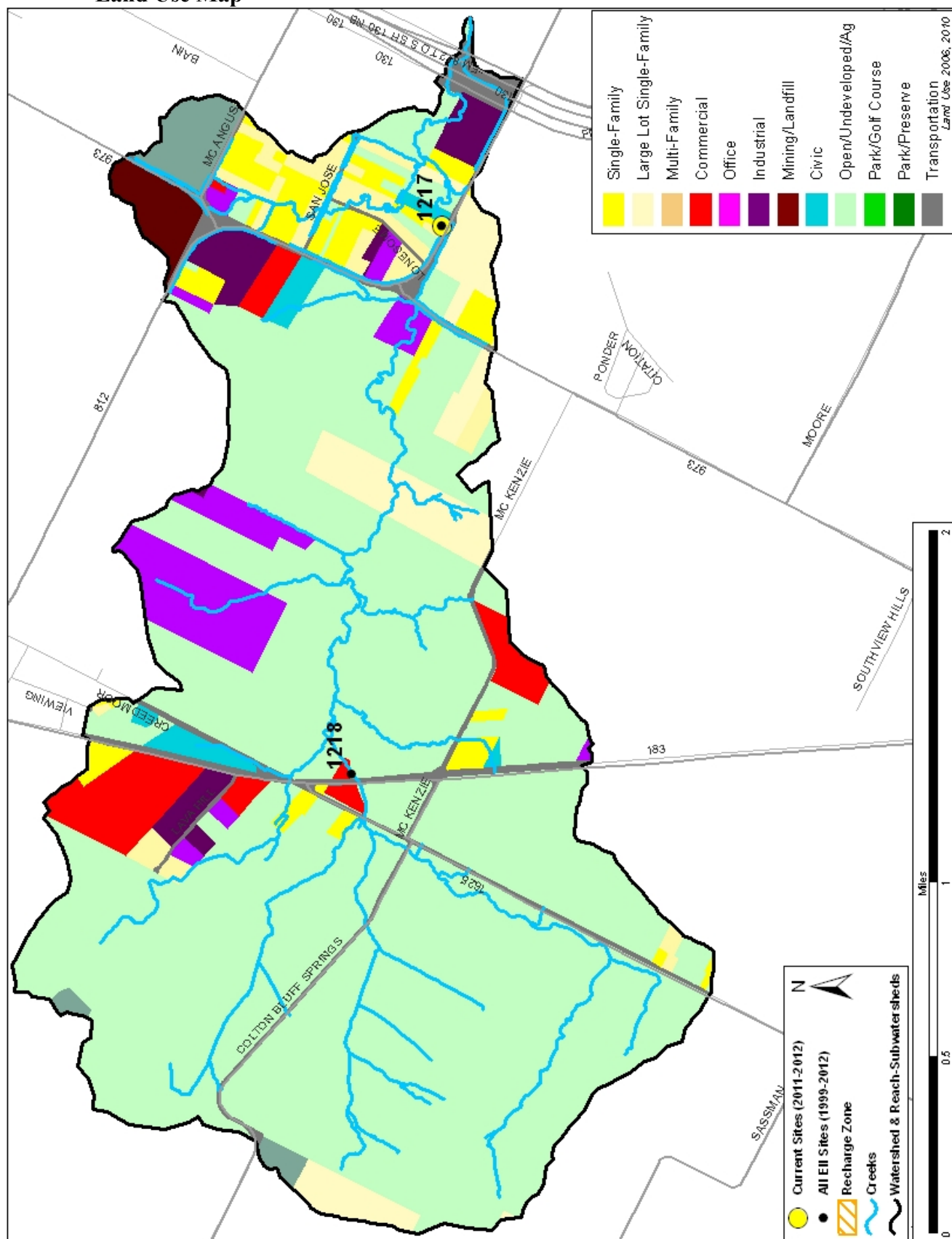
Reach	Site	Site Name	Year	Water Quality	Sediment**	Contact Rec.	Non-Contact Rec.	Physical Integrity	Aquatic Life	Benthic subindex	Diatom subindex	Total EII Score
NFD1	1217	North Fork Dry Creek @ FM812	1999	54	77	97	58	43				55
NFD1	1218	North Fork Dry Creek @ US183	1999	55	77	86	51	40				52
NFD1	1217	North Fork Dry Creek @ FM812	2002	58	83	99	77	52	48	36	60	70
NFD1	1218	North Fork Dry Creek @ US183	2002	48	83	85	65	41				54
NFD1	1217	North Fork Dry Creek @ FM812	2005	57	81	25	56	42				44
NFD1	1217	North Fork Dry Creek @ FM812	2008	58	79	51	43	35	60	60		54
NFD1	1217	North Fork Dry Creek @ FM812	2010	59	80	71	70	47	41	33	49	61
NFD1	1217	North Fork Dry Creek @ FM812	2012	74	83	98	54	48	79	77	80	73
NFD1	1217	North Fork Dry Creek @ FM812	2014	62	76	68	53	36	48	33	63	57
NFD1	1217	North Fork Dry Creek @ FM812	2016	71	80	85	67	59	78	84	71	73

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

**sediment samples only collected at the downstream site

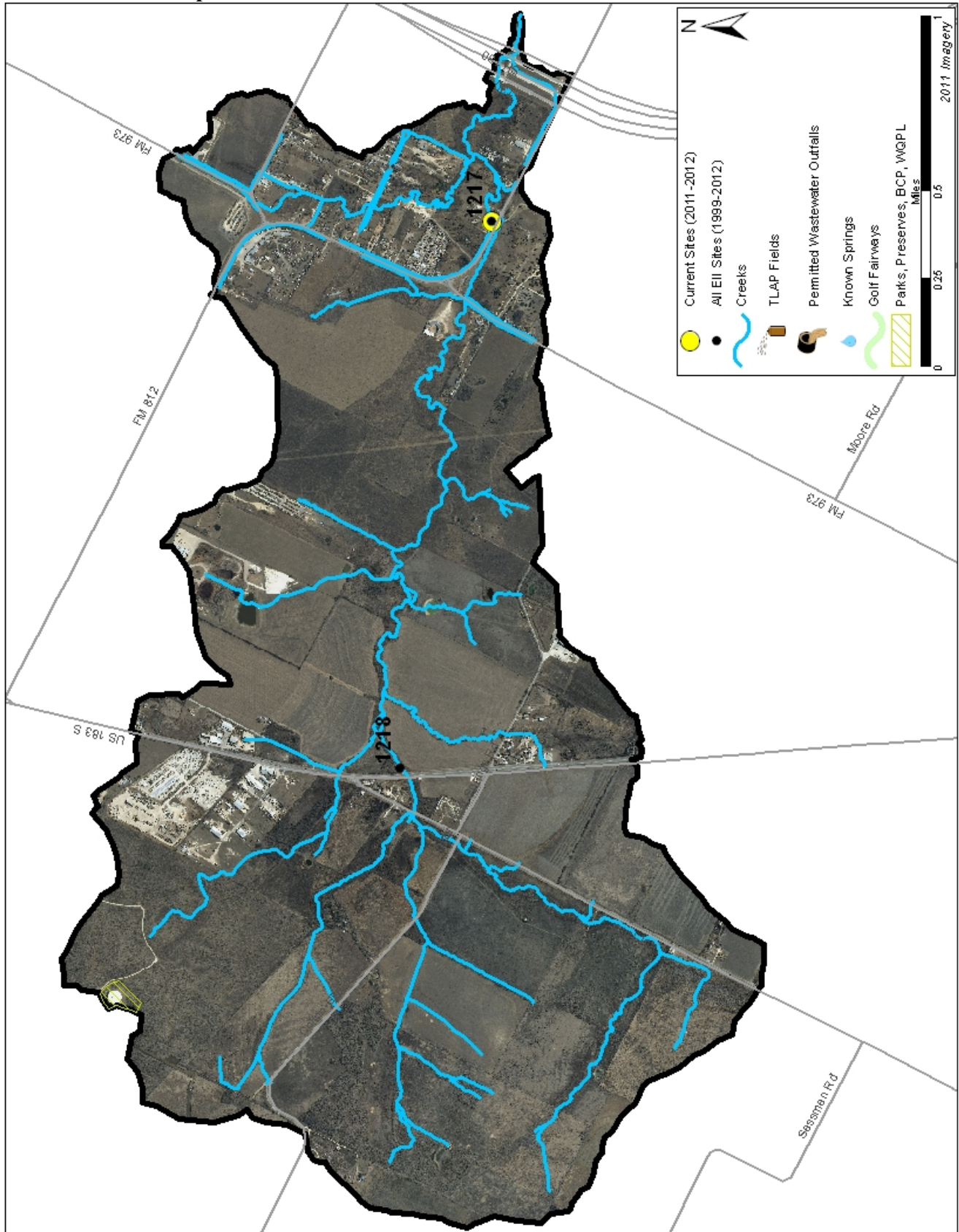
100-87.5 Excellent 87.5-75 V. Good 75-62.5 Good 62.5-50 Fair 50-37.5 Marginal 37.5-25 Poor 25-12.5 Bad 12.5-0 V. Bad

Land Use Map



North Fork Dry Creek Watershed

Aerial Map



North Fork Dry Creek Watershed

Water Quality Data – Temperature, Conductivity, pH, Dissolved Oxygen & E. coli for 2016 Sample Sites (Downstream to Upstream)

Qualifiers to the left of the value	>	Greater than	Qualifiers to the right of the value	(blank)	Useable
	<	Less than		S	Exceeds standard range
	<J	Less than detected limit		R	Rejected, failed QC
	J	Estimated			

Watershed	Site	EII Reach	Date	Temp. flag	Cond. flag	pH flag	D.O. flag	E. Coli flag
N Fork Dry	1217	NFD1	01/12/2016	9.4	602	8.03	9.2 R	38.8
N Fork Dry	1217	NFD1	04/12/2016	20.1	781	8.34	9.8	35.0
N Fork Dry	1217	NFD1	05/12/2016	25.1	703	8.03	6.2	
N Fork Dry	1217	NFD1	09/13/2016	28.3	685	7.73	4.9	2.0
NFD1 Mean				20.7	693	8.03	7.5	25.3
North Fork Dry Mean				20.7	693	8.03	7.5	25.3

Gray highlighting indicates that the value exceeds one standard deviation from the mean of all E.I.I. sites combined.

Summary Statistics for all 2015-2016 E.I.I. Sites Combined					
Parameter	2015-2016 Average	2015-2016 Minimum	2015-2016 Maximum	1 Standard Deviation Above	1 Standard Deviation Below
Temperature (C°)	20.7	5.8	34.2	27.5	
Conductivity (uS/cm)	722	160	3549	955	
pH (Standard units)	7.86	5.85	10.25	8.24	7.47
D.O. (mg/l)	7.9	0.1	18.7	10.4	5.5
E. Coli (col/100ml)	316.1	1.0	2420.0	883.7	

North Fork Dry Creek Watershed

Water Quality Data – Ammonia, Nitrate / Nitrite, Ortho-Phosphorus, Total Suspended Solids & Turbidity
for 2016 Sample Sites (Downstream to Upstream)

Qualifiers to the left of the value	>	Greater than	Qualifiers to the right of the value	(blank)	Useable
	<	Less than		S	Exceeds standard range
	<J	Less than detected limit		R	Rejected, failed QC
	J	Estimated			

Watershed	Site	EII Reach	Date	NH3-N		NO3/NO2		Ortho-P		T.S.S		Turb.	
				<>	flag	<>	flag	<>	flag	<>	flag	<>	flag
N Fork Dry	1217	NFD1	01/12/2016	<J	0.008	<J	0.01	<J	0.004		13.9		24.2 R
N Fork Dry	1217	NFD1	04/12/2016	<J	0.008	<J	0.01	<J	0.004		5.0		3.4
N Fork Dry	1217	NFD1	05/12/2016										
N Fork Dry	1217	NFD1	09/13/2016	<J	0.008	<J	0.01	<J	0.004		5.8		8.0
NFD1 Mean					0.008		0.01		0.004		8.2		11.8
North Fork Dry Mean					0.008		0.01		0.004		8.2		11.8

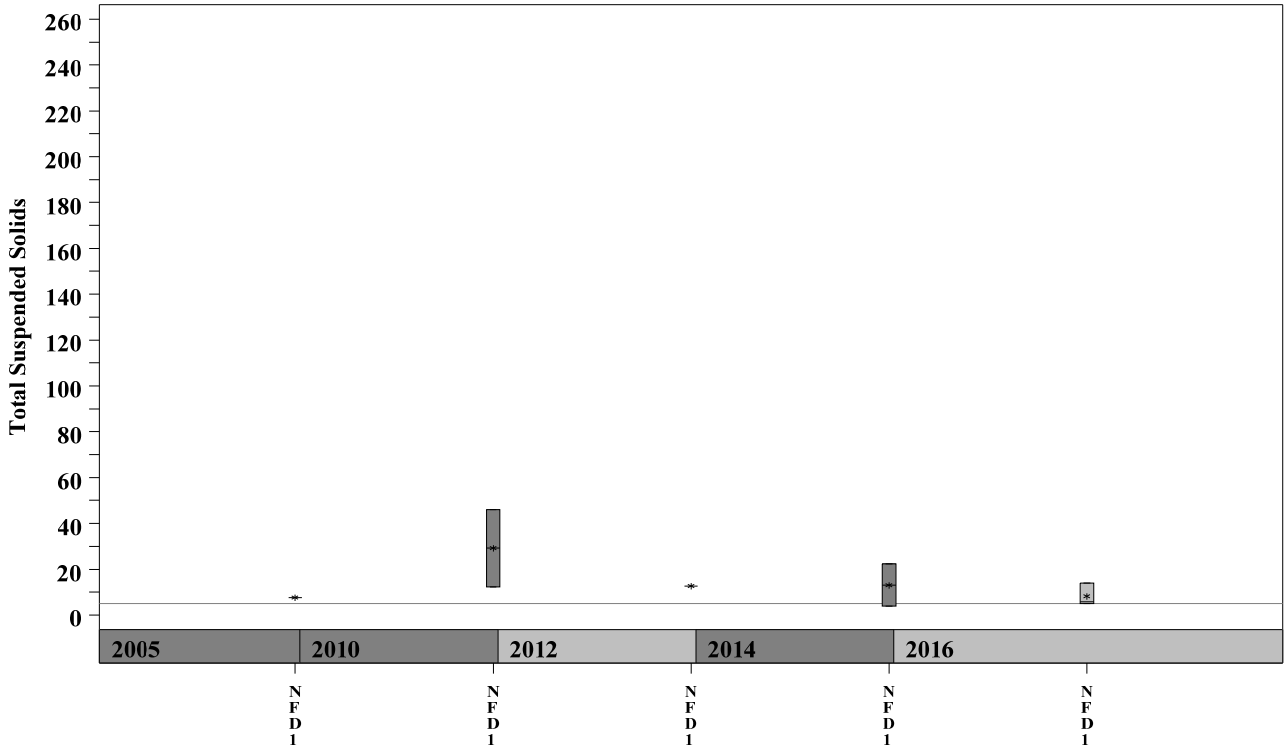
Gray highlighting indicates that the value exceeds one standard deviation from the mean of all E.I.I. sites combined.

Summary Statistics for all 2015-2016 E.I.I. Sites Combined				
Parameter	2015-2016 Average	2015-2016 Minimum	2015-2016 Maximum	1 Standard Deviation Above
NH3-N (mg/l)	0.018	0.008	0.881	0.085
NO3-N (mg/l)	1.14	0.01	12.0	3.16
Ortho-P (mg/l)	0.016	0.004	0.661	0.08
T.S.S. (mg/l)	3.7	1.0	58.2	9.7
Turbidity (NTU)	4.4	0.2	98.6	11.7

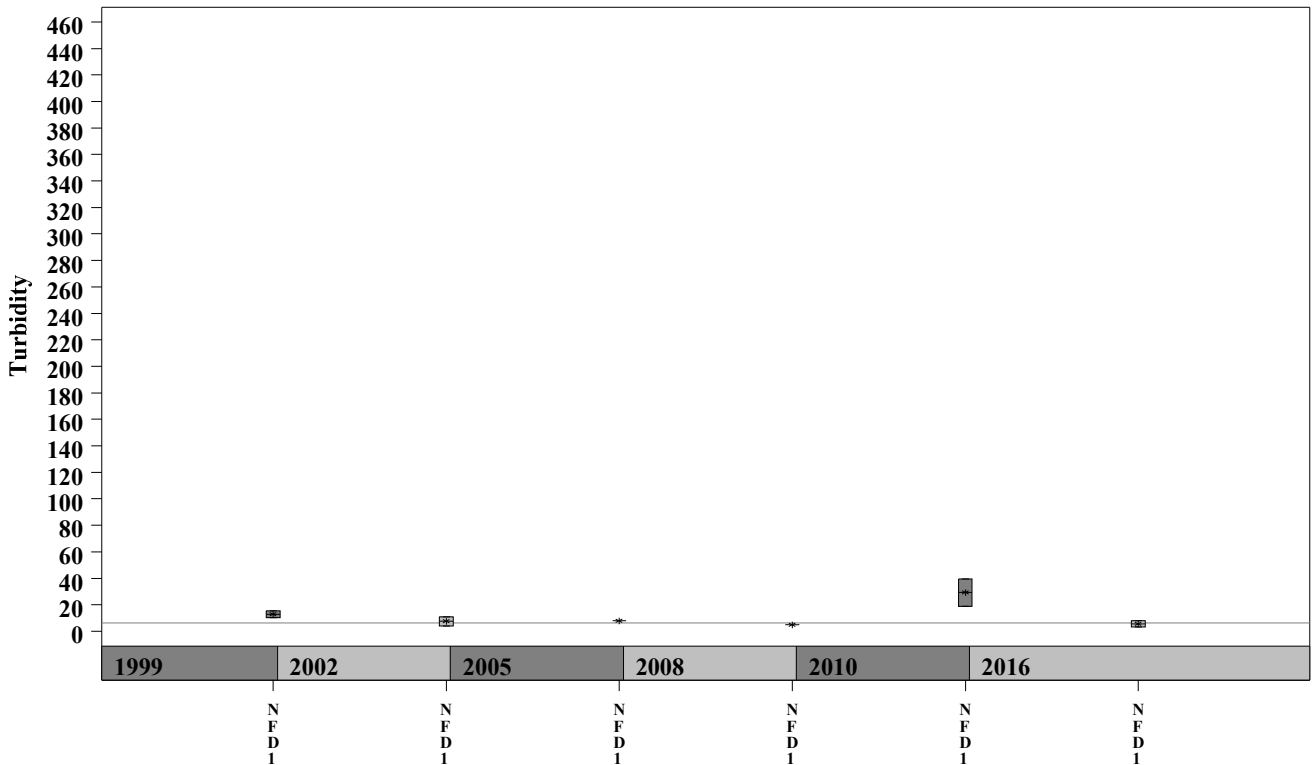
North Fork Dry Creek Watershed

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

Parameter = TOTAL SUSPENDED SOLIDS Unit = mg/L Watershed = North Fork Dry



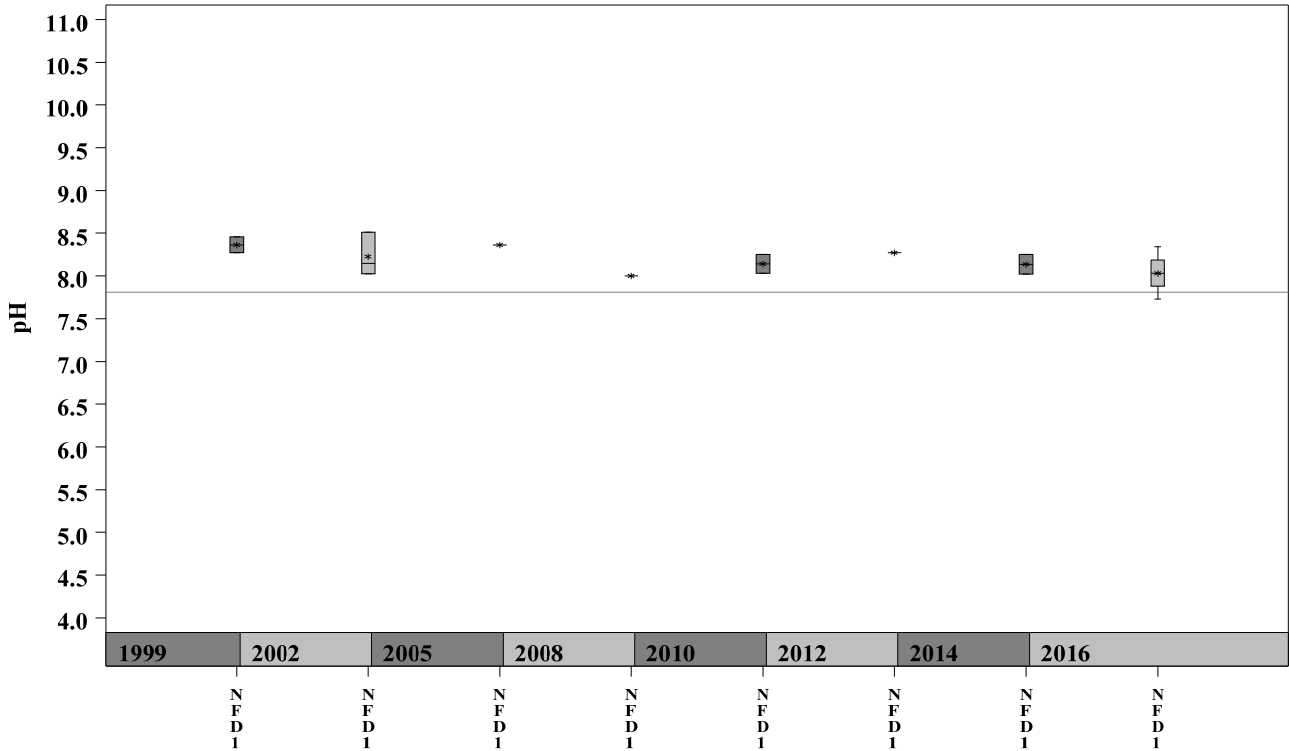
Parameter = TURBIDITY Unit = NTU Watershed = North Fork Dry



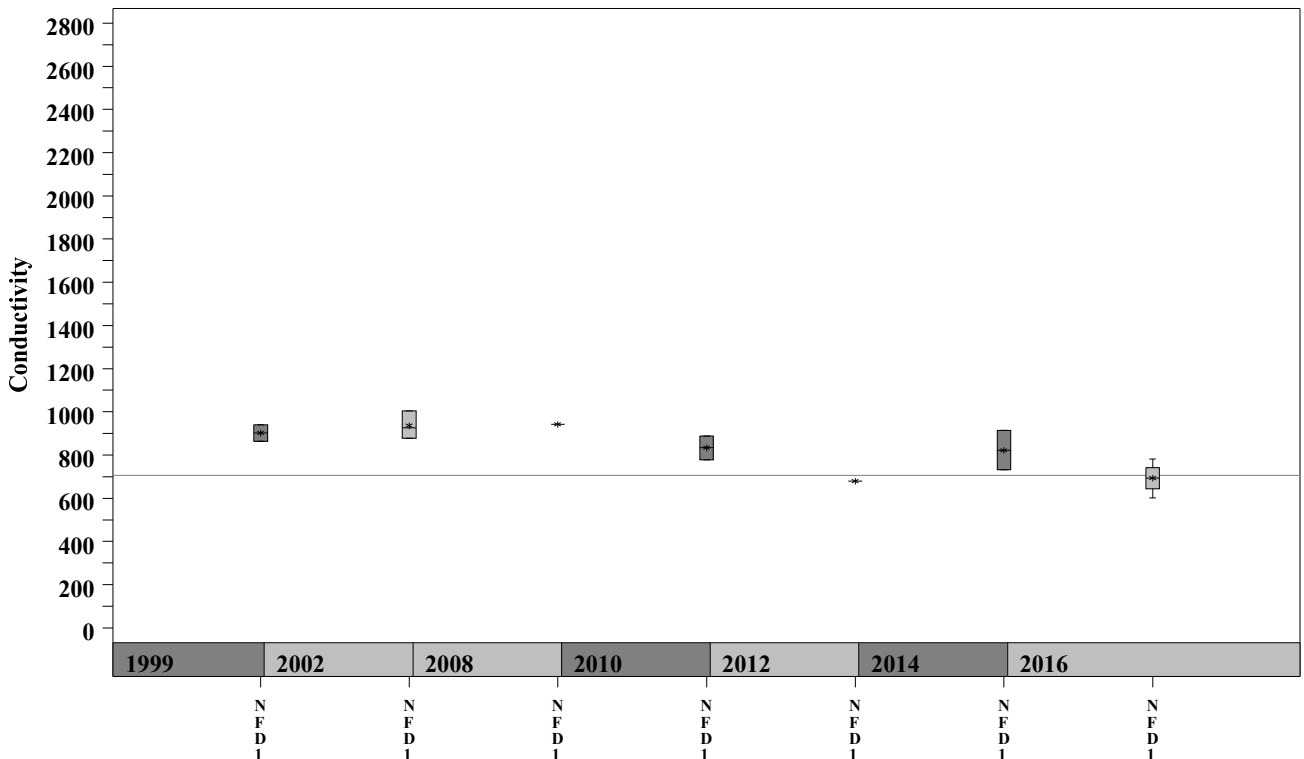
North Fork Dry Creek Watershed

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

Parameter=pH Unit=Standard Units Watershed=North Fork Dry



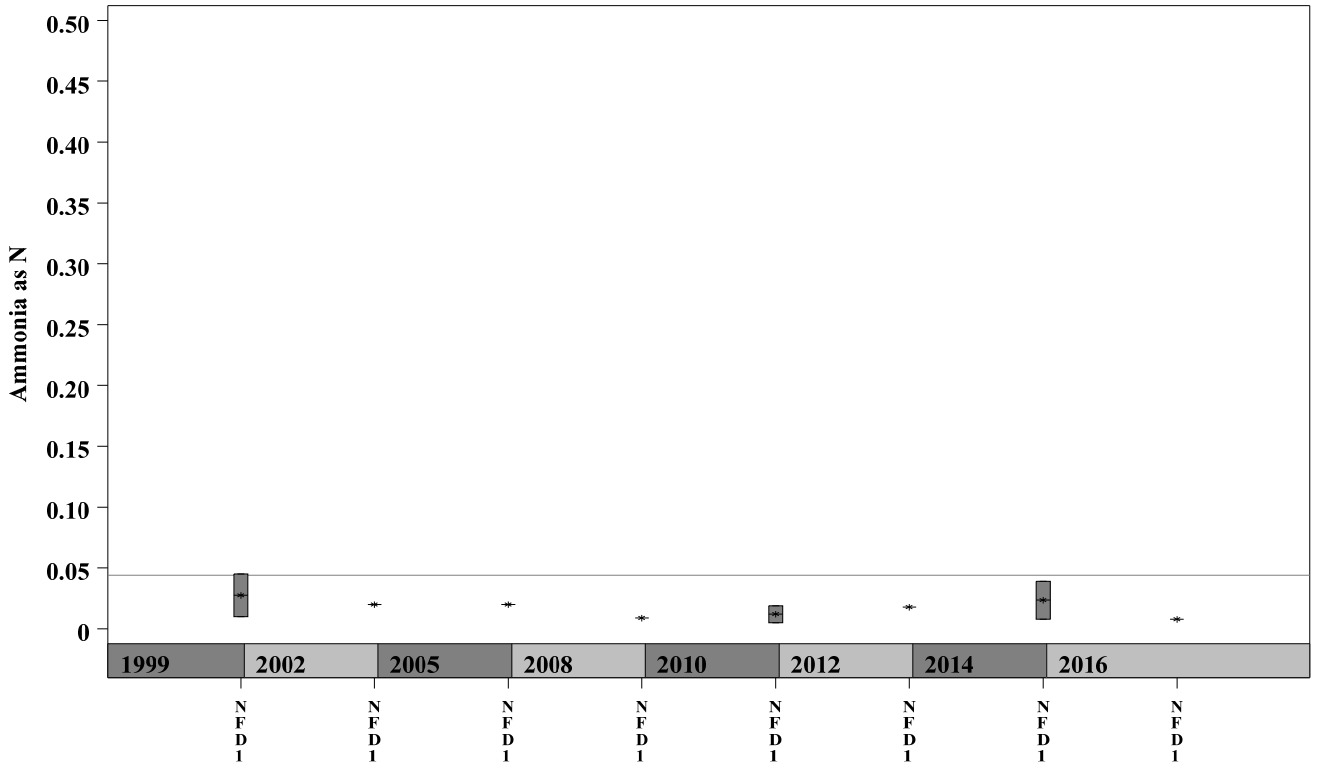
Parameter=CONDUCTIVITY Unit=uS/cm Watershed=North Fork Dry



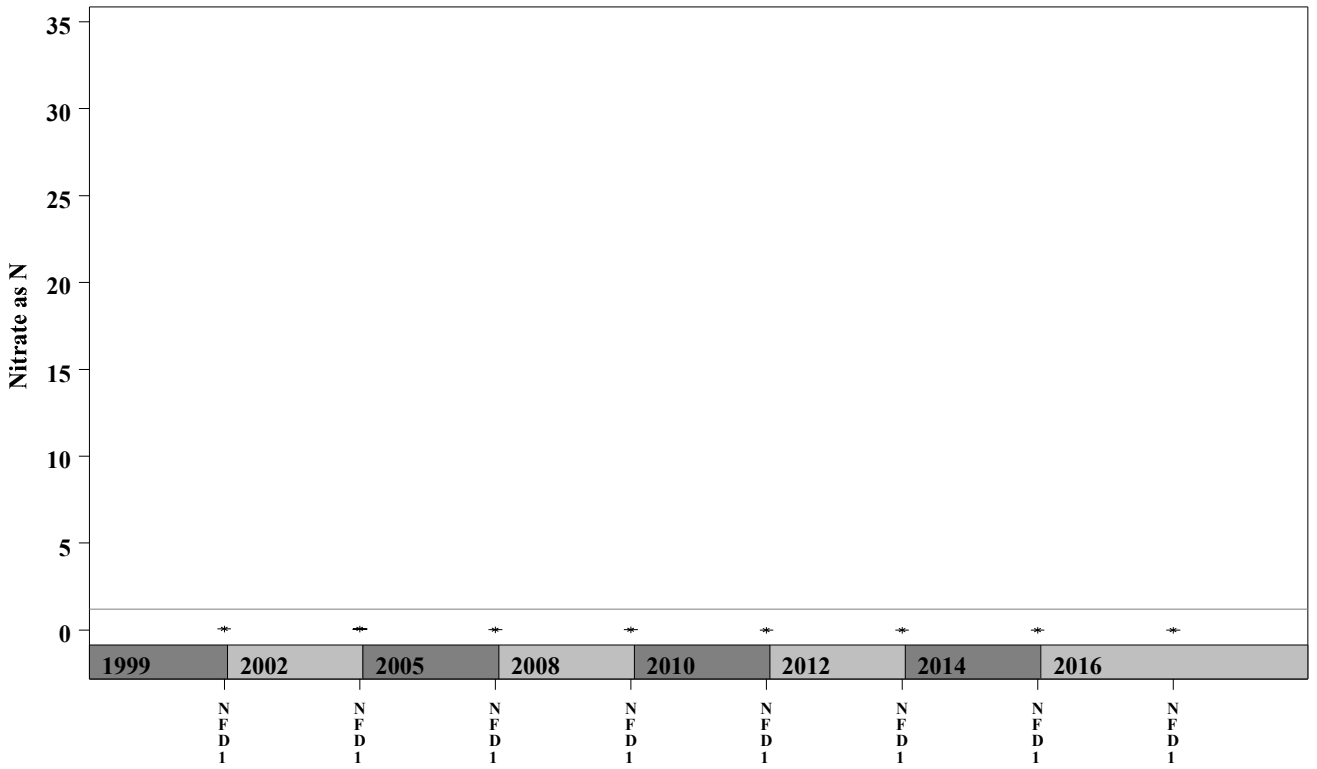
North Fork Dry Creek Watershed

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

Parameter=AMMONIA AS N Unit=mg/L Watershed=North Fork Dry



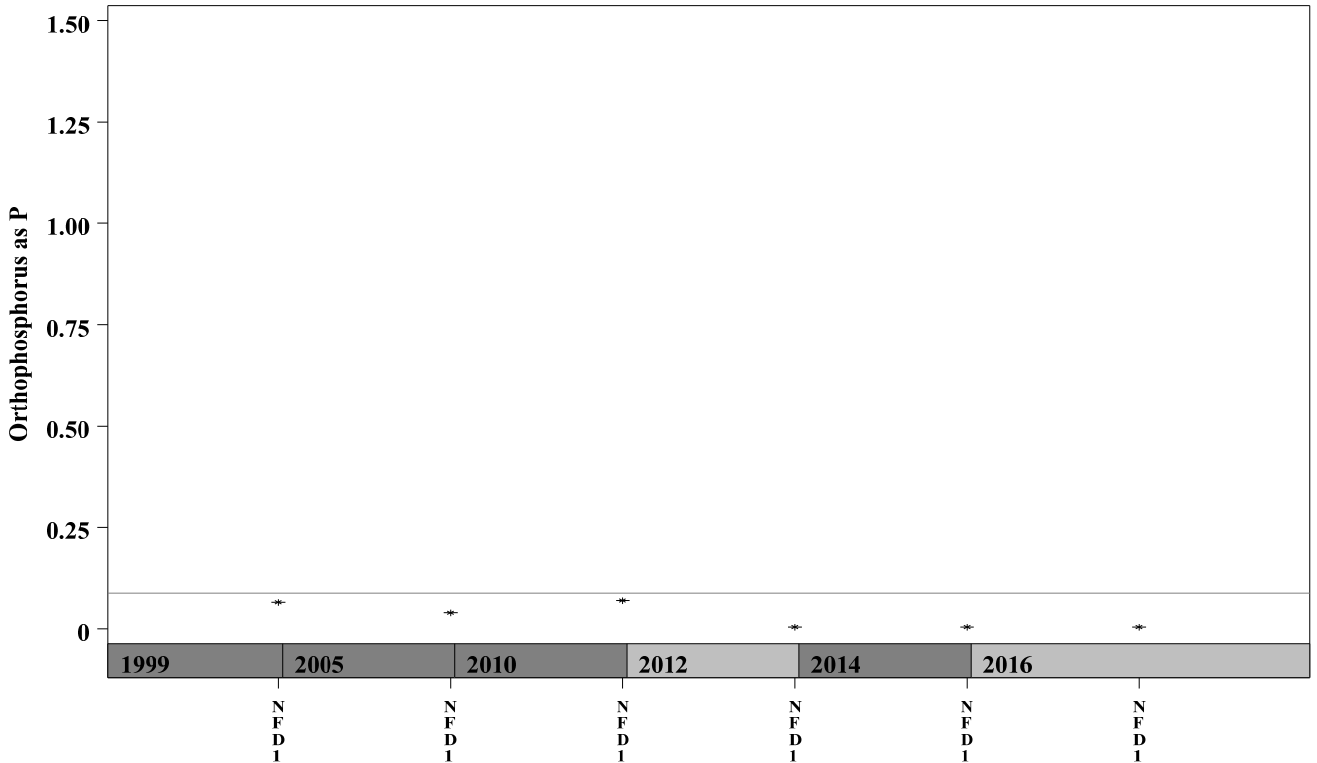
Parameter=NITRATE AS N Unit=mg/L Watershed=North Fork Dry



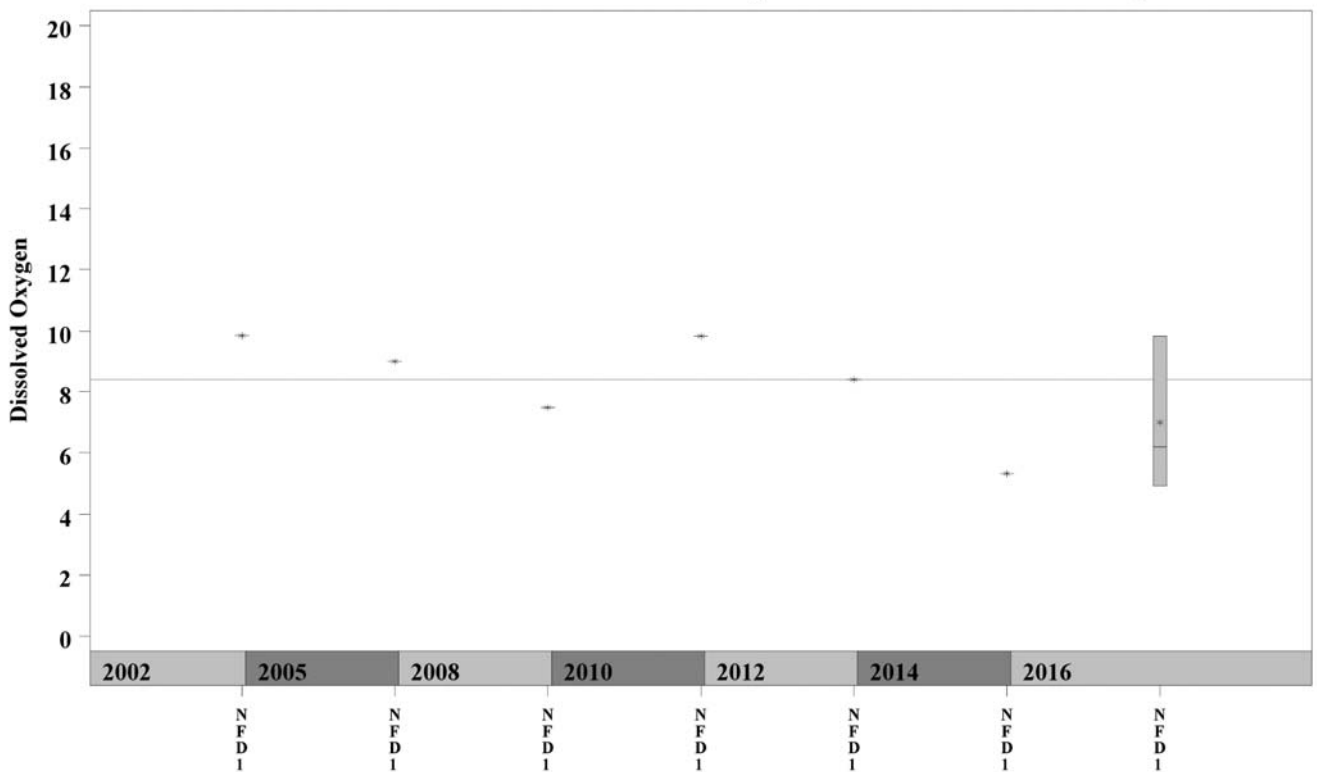
North Fork Dry Creek Watershed

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

Parameter = ORTHOPHOSPHORUS AS P Unit = mg/L Watershed = North Fork Dry

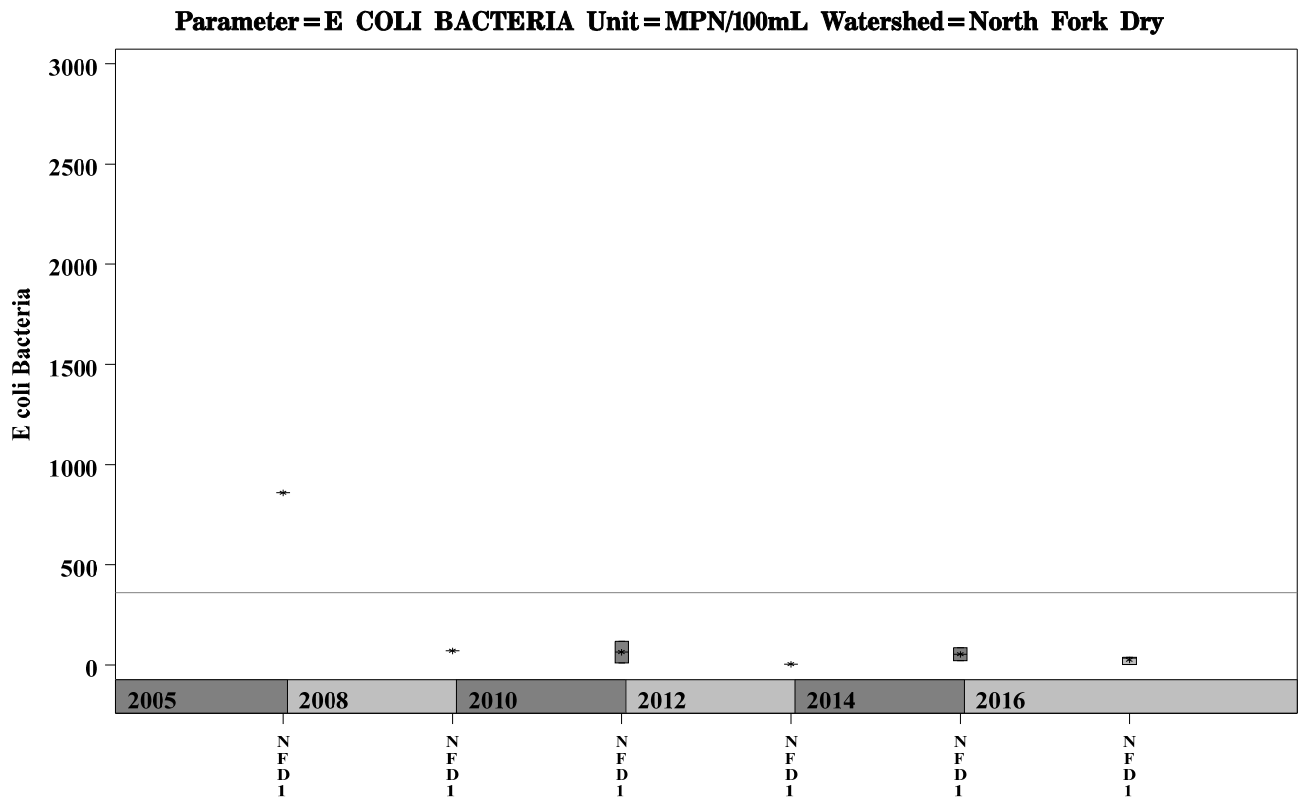


Parameter = DISSOLVED OXYGEN Unit = mg/L Watershed = North Fork Dry



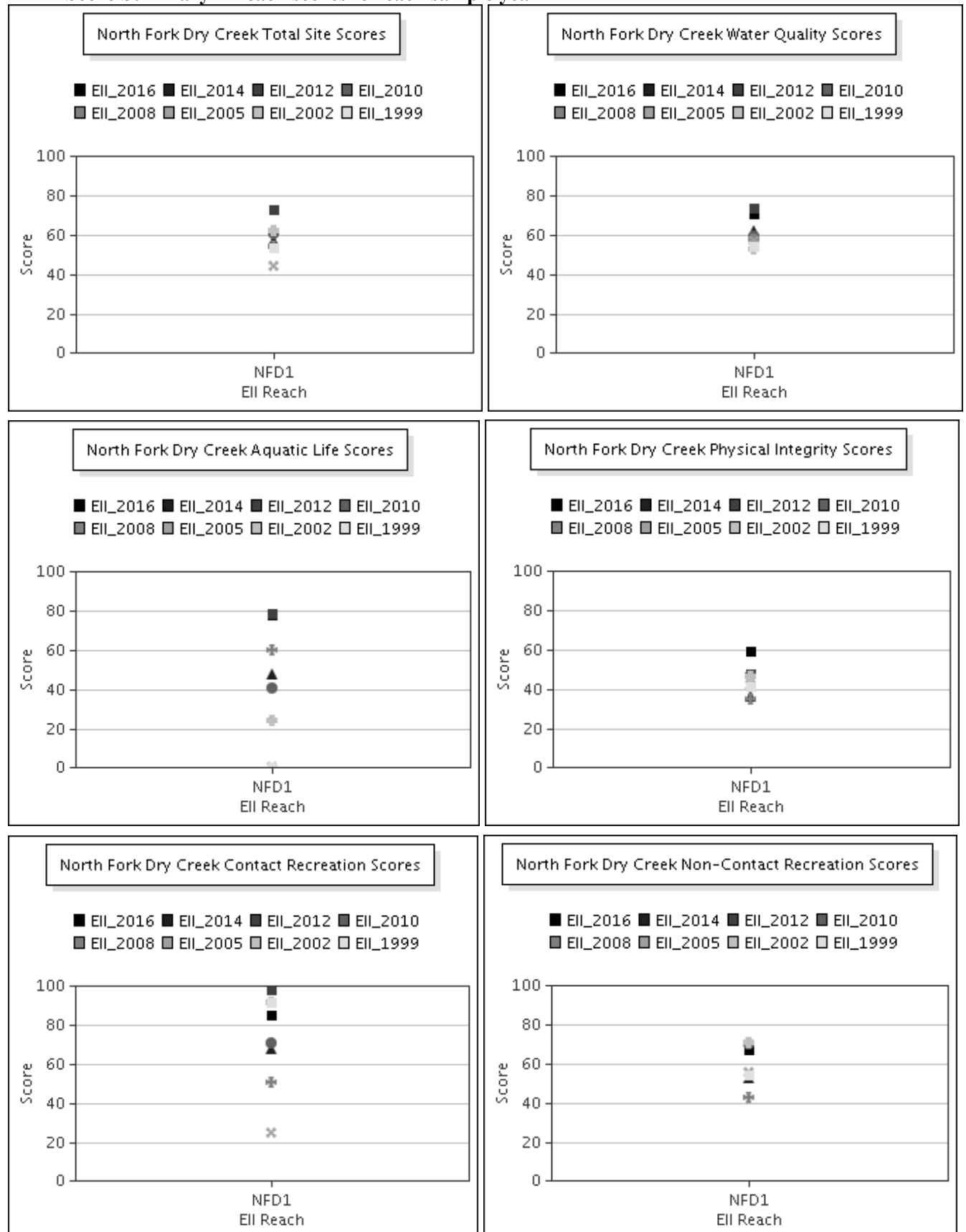
North Fork Dry Creek Watershed

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



North Fork Dry Creek Watershed

Score Summary – Reach scores for each sample year



North Fork Dry Creek Watershed

**Benthic Macroinvertebrates – Taxa List, Pollution Tolerance Index & Functional Feeding Group
for 2016 Sample Sites (Downstream to Upstream)**

Benthic Macroinvertebrates - North Fork Dry Creek			NFD @ FM 812 (1217)
Benthic Macroinvertebrate ID	PTI	FFG	05/12/2016 (WRE)
Chimarra	2	FC	6
Gammarus	3	CG,SH	1
Fallceon	4	CG,SC	182
Neochoroterpes	4	CG	2
Simulium	4	FC	22
Argia	6	P	3
Cheumatopsyche	6	FC	115
Chironomidae	6	FC,P	10
Caenis	7	CG,SC	2
Oligochaeta	8	CG	3
Physella	9	SC	1

North Fork Dry Creek Watershed

Site Photographs



1217_t00-us-03_28_2002



1217_t00-ds-03_28_2002



1217_t00-ds-06_16_2005



1217_t0-ds-06_27_2008



1217_00-us-05_18_2010



1217_00-ds-05_18_2010

North Fork Dry Creek Watershed

Site Photographs



1218_t00-us-06_21_2000



1218_t00-ds-06_21_2000



1218_t00-us-03_28_2002



1218_t00-ds-03_28_2002



1218_t00-ur-03_28_2002