

**Appendix G. Segment 0831 Benthic Macroinvertebrate IBIs and Species Lists**

Metrics and Scoring for Kick Samples,  
Rapid Bioassessment Protocol - Benthic Macroinvertebrates

Metric	Value	Score
1. Taxa Richness	13	2
2. EPT Taxa Abundance	4	2
3. Biotic Index (HBI)	6.96	1
4. % Chironomidae	19.05	1
5. % Dominant taxon	28.57	3
6. % Dominant FFG	32.54	4
7. % Predators	30.16	2
8. Ratio of Intolerant:Tolerant taxa	0.03	1
9. % of total trichoptera as Hydropsychidae	66.67	2
10. # of non-insect taxa	4	3
11. % Collector-gatherers	32.54	2
12. % of total number as Elmidae	0	1

AQUATIC LIFE USE POINT SCORE  
RANGES:

Exceptional:	>36	Total Score:	24
High:	29 - 36	Aquatic Life Use:	<b>Intermediate</b>
Intermediate:	22 - 28		
Limited:	< 22		

STREAM : Clear Fork Trinity Seg. 0831  
 DATE: 8August2001  
 COUNTY: Parker  
 LOCATION: Station 17446

ECOREGION #: 29

PARAMETRIC DATA

Station 17446

8 August 2001

STORET CODE	(<) OR (>)	Value	Description
90075		1	Dugesia sp.
90913		1	Hirudinea
91241		18	Hyalella azteca
91600		14	Caenis sp.
91646		1	Baetis sp.
91683		7	Argia sp.
91718		1	Gomphus (Arigomphus) sp.
91923		3	Rhagovelia sp.
92154		1	Berosus sp.
92292		2	Cheumatopsyche sp.
92395		1	Triaenodes
92491		12	Chironomidae
92874		1	Physella sp.

Measurement Comments and Field Observations:

entire sample worked; water color milky to gray green; construction in area

Metrics and Scoring for Kick Samples,  
Rapid Bioassessment Protocol - Benthic Macroinvertebrates

Metric	Value	Score
1. Taxa Richness	16	3
2. EPT Taxa Abundance	6	2
3. Biotic Index (HBI)	4.75	2
4. % Chironomidae	11.11	2
5. % Dominant taxon	38.6	2
6. % Dominant FFG	73.73	1
7. % Predators	10.13	4
8. Ratio of Intolerant:Tolerant taxa	0.86	1
9. % of total trichoptera as Hydropsychidae	39.64	3
10. # of non-insect taxa	2	2
11. % Collector-gatherers	9.84	4
12. % of total number as Elmidae	7.6	4

AQUATIC LIFE USE POINT SCORE  
RANGES:

Exceptional:	>36	Total Score:	30
High:	29 - 36	Aquatic Life Use:	<b>High</b>
Intermediate:	22 - 28		
Limited:	< 22		

STREAM : Clear Fork Trinity Seg. 0831  
DATE: 8August2001  
COUNTY: Parker  
LOCATION: Station 11060

ECOREGION #: 29

PARAMETRIC DATA

Station 11060

8 August 2001

STORET CODE	(<) OR (>)	Value	Description
91600		6	Caenis sp.
91554		2	Choroterpes
91590		6	Isonychia sp.
92253		12	Stenelmis sp.
92242		1	Microcylloepus pusillus
92076		2	Corydalus cornutus
92069		3	Sialis sp.
92292		44	Cheumatopsyche sp.
92324		1	Hydroptila sp.
92268		66	Chimarra sp.
92491		19	Chironomidae
92622		1	Tabanus sp.
91777		1	Brechmorhoga mendax
91683		1	Argia sp.
93036		3	Corbicula sp.
90075		3	Dugesia sp.

Measurement Comments and Field Observations:

Zsd is 9" in 2.5 ft; brownish water

Metrics and Scoring for Kick Samples,  
Rapid Bioassessment Protocol - Benthic Macroinvertebrates

Metric	Value	Score
1. Taxa Richness	28	4
2. EPT Taxa Abundance	7	3
3. Biotic Index (HBI)	6.06	1
4. % Chironomidae	3.31	4
5. % Dominant taxon	19.89	4
6. % Dominant FFG	48.9	2
7. % Predators	48.9	1
8. Ratio of Intolerant:Tolerant taxa	0.2	1
9. % of total trichoptera as Hydropsychidae	70	2
10. # of non-insect taxa	2	2
11. % Collector-gatherers	19.34	3
12. % of total number as Elmidae	20.99	2

AQUATIC LIFE USE POINT SCORE  
RANGES:

Exceptional:	>36	Total Score:	29
High:	29 - 36	Aquatic Life Use:	<b>High</b>
Intermediate:	22 - 28		
Limited:	< 22		

STREAM : Clear Fork Trinity Seg. 0831  
DATE: 9August2001  
COUNTY: Parker  
LOCATION: Station 17445

ECOREGION #: 29

PARAMETRIC DATA

Station 17445

9 August 2001

STORET CODE	(<) OR (>)	Value	Description
92044		1	Trichocorxia
92064		7	Ambrysus pulchellus
91919		1	Microvelia
91923		4	Rhagovelia sp.
91600		10	Caenis sp.
91646		1	Baetis sp.
91554		6	Choroterpes sp.
91590		1	Isonychia sp.
92128		3	Neoporus (=Hydroporus) sp.
92154		12	Berosus sp.
92178		2	Tropisternus sp.
92161		3	Enochrus sp.
92253		30	Stenelmis sp.
92230		1	Dubiraphia sp.
92242		7	Microcyloepus pusillus
92076		1	Corydalus cornutus
92069		7	Sialis sp.
92292		7	Cheumatopsyche sp.
92268		2	Chimarra sp.
92379		1	Marilia flexuosa
92491		6	Chironomidae
92715		2	Stratiomys sp.
92622		5	Tabanus sp.
91777		3	Brechmorhoga mendax
91718		5	Gomphus sp.
91683		36	Argia sp.
91241		4	Hyaella azteca
93036		13	Corbicula sp.

Measurement Comments and Field Observations:

abundant algae; cattle downstream

Metrics and Scoring for Leaf Pack<sup>1</sup> Samples,  
Rapid Bioassessment Protocol - Benthic Macroinvertebrates

Metric	Value	Score
1. Taxa Richness	20	3
2. EPT Taxa Abundance	5	2
3. Biotic Index (HBI)	5.58	1
4. % Chironomidae	10.1	2
5. % Dominant taxon	45.18	1
6. % Dominant FFG	33.33	4
7. % Predators	22.76	3
8. Ratio of Intolerant:Tolerant taxa	0.13	1
9. % of total trichoptera as Hydropsychidae	86.67	1
10. # of non-insect taxa	2	2
11. % Collector-gatherers	33.33	2
12. % of total number as Elmidae	52.79	1

AQUATIC LIFE USE POINT SCORE  
RANGES:

Exceptional:	>36	Total Score:	23
High:	29 - 36	Aquatic Life Use:	<b>Intermediate</b>
Intermediate:	22 - 28		
Limited:	< 22		

STREAM : Clear fork Trinity Seg. 0831  
DATE: 9August2001  
COUNTY: Parker  
LOCATION: Station 17444

ECOREGION #: 29

<sup>1</sup>Refer to text on page 25 for explanation



PARAMETRIC DATA

Station 17444

9 August 2001

STORET CODE	(<) OR (>)	Value	Description
91600		14	Caenis sp.
91646		1	Baetis sp.
91683		18	Argia sp.
91718		8	Gomphus sp.
92044		5	Trichocorxia sp.
92069		1	Sialis sp.
92090		1	Dineutus sp.
92128		6	Neoporus (=Hydroporus) sp.
92154		1	Berosus sp.
92161		1	Enochrus sp.
92232		9	Macrelmis sp.
92233		6	Heterelmis vulnerata
92253		89	Stenelmis sp.
92292		12	Cheumatopsyche sp.
92296		1	Hydrosyche sp.
92395		2	Triaenodes sp.
92491		10	Chironomidae
92622		1	Tabanus sp.
92762		1	Bulimidae
93036		10	Corbicula sp.

Measurement Comments and Field Observations:

CPOM (no riffles); clear water

Metrics and Scoring for Root Sweep<sup>1</sup> Samples,  
Rapid Bioassessment Protocol - Benthic Macroinvertebrates

Metric	Value	Score
1. Taxa Richness	24	4
2. EPT Taxa Abundance	5	2
3. Biotic Index (HBI)	5.8	1
4. % Chironomidae	0.51	1
5. % Dominant taxon	30.3	3
6. % Dominant FFG	35.27	4
7. % Predators	26.18	2
8. Ratio of Intolerant:Tolerant taxa	0.53	1
9. % of total trichoptera as Hydropsychidae	40	3
10. # of non-insect taxa	2	2
11. % Collector-gatherers	35.27	2
12. % of total number as Elmidae	55.05	1

AQUATIC LIFE USE POINT SCORE  
RANGES:

Exceptional:	>36	Total Score:	26
High:	29 - 36	Aquatic Life Use:	<b>Intermediate</b>
Intermediate:	22 - 28		
Limited:	< 22		

STREAM : Clear Fork Trinity Seg. 0831  
DATE: 9August2001  
COUNTY: Parker  
LOCATION: Station 17444

ECOREGION #: 29

<sup>1</sup>Refer to text on page 25 for explanation

PARAMETRIC DATA

Station 17444

9 August 2001

STORET CODE	(<) OR (>)	Value	Description
91600		3	Caenis sp.
91554		1	Choroterpes sp.
91683		28	Argia sp.
91669		1	Hetaerina sp.
91913		1	Hydrometra sp.
92044		15	Trichocorxia sp.
91944		4	Rhumatobates sp.
91946		1	Trepobates sp.
91923		2	Rhagovelia sp.
92221		3	Helichus sp.
92154		2	Berosus sp.
92161		4	Enochrus sp.
92253		60	Stenelmis sp.
92230		11	Dubiraphia sp.
92233		33	Heterelmis vulnerata
92242		5	Microcylloepus pusillus
92292		4	Cheumatopsyche sp.
92376		1	Helicopsyche sp.
92395		5	Triaenodes sp.
92491		1	Chironomidae
92715		1	Stratiomys sp.
92453		1	Culex sp.
93036		1	Corbicula sp.
92977		10	Unionidae

Measurement Comments and Field Observations:

Root sweep (no riffles); clear water

Metrics and Scoring for Kick Samples,  
Rapid Bioassessment Protocol - Benthic Macroinvertebrates

Metric	Value	Score
1. Taxa Richness	26	4
2. EPT Taxa Abundance	5	2
3. Biotic Index (HBI)	6.37	1
4. % Chironomidae	7.34	3
5. % Dominant taxon	35.14	2
6. % Dominant FFG	26.77	4
7. % Predators	17.12	3
8. Ratio of Intolerant:Tolerant taxa	0.13	1
9. % of total trichoptera as Hydropsychidae	88.89	1
10. # of non-insect taxa	2	2
11. % Collector-gatherers	26.58	3
12. % of total number as Elmidae	1.54	4

AQUATIC LIFE USE POINT SCORE  
RANGES:

Exceptional:	>36	Total Score:	30
High:	29 - 36	Aquatic Life Use:	<b>High</b>
Intermediate:	22 - 28		
Limited:	< 22		

STREAM : Clear Fork Trinity Seg. 0831  
DATE: 10August2001  
COUNTY: Parker  
LOCATION: Station 13691

ECOREGION #: 29

PARAMETRIC DATA

Station 13691

10 August 2001

STORET CODE	(<) OR (>)	Value	Description
91988		1	Belostoma sp.
91946		1	Trepobates sp.
91919		3	Microvelia sp.
91923		3	Rhagovelia sp.
91600		28	Caenis sp.
91554		1	Choroerpes sp.
91590		3	Isonychia sp.
92686		13	Petrophilia sp.
92090		1	Dineutus sp.
92128		1	Neoporus (=Hydroporus) sp.
92221		2	Helichus sp.
92154		1	Berosus sp.
92178		7	Tropisternus sp.
92100		2	Peltodytes sp.
92253		91	Stenelmis sp.
92230		1	Dubiraphia sp.
92233		1	Heterelmis vulnerita
92242		1	Microcylloepus pusillus
92292		48	Cheumatopsyche sp.
92268		6	Chimarra sp.
92491		19	Chironomidae
92622		5	Tabanus sp.
91718		7	Gomphus sp.
91683		6	Argia sp.
93036		6	Corbicula sp.
90913		1	Hirudinea

Measurement Comments and Field Observations:

Zsd is 12" in 18"; greenish color; attached & floating algae;

Metrics and Scoring for Kick Samples, Rapid  
Bioassessment Protocol - Benthic Macroinvertebrates

Metric	Value	Score
1. Taxa Richness	20	3
2. EPT Taxa Abundance	5	2
3. Biotic Index (HBI)	5.26	2
4. % Chironomidae	3.94	4
5. % Dominant taxon	18.72	4
6. % Dominant FFG	38.75	3
7. % Predators	37.28	1
8. Ratio of Intolerant:Tolerant taxa	0.88	1
9. % of total trichoptera as Hydropsychidae	20.41	4
10. # of non-insect taxa	5	3
11. % Collector-gatherers	5.5	1
12. % of total number as Elmidae	2.96	4

AQUATIC LIFE USE POINT SCORE  
RANGES:

Exceptional:	>36	Total Score:	32
High:	29 - 36	Aquatic Life Use:	<b>High</b>
Intermediate:	22 - 28		
Limited:	< 22		

STREAM : Clear Fork Trinity  
DATE: 8 May 2002  
COUNTY: Parker  
LOCATION: 17446

ECOREGION #: 29

PARAMETRIC DATA

Station 17446

8 May 2002

STORET CODE	(<) OR (>)	Value	Description
90075		38	Dugesia sp.
90382		5	Oligochaeta
90913		7	Hirudinea
91600		1	Caenis sp.
91669		2	Hetaerina sp.
91683		16	Argia sp.
91713		2	Erpetogomphus sp.
91930		3	Gerris sp.
92002		1	Ranatra sp.
92064		3	Ambrysus sp.
92253		6	Stenelmis sp.
92268		5	Chimarra sp.
92292		10	Cheumatopsyche sp.
92324		1	Hydroptila sp.
92376		33	Helicopsyche sp.
92491		8	Chironomidae
92596		24	Simulium sp.
92622		1	Tabanus sp.
93024		27	Sphaeriidae
93036		10	Corbicula sp.

Measurement Comments and Field Observations:

Kicknet effort

Metrics and Scoring for Kick Samples, Rapid  
Bioassessment Protocol - Benthic Macroinvertebrates

Metric	Value	Score
1. Taxa Richness	13	2
2. EPT Taxa Abundance	2	1
3. Biotic Index (HBI)	6.03	1
4. % Chironomidae	8.16	3
5. % Dominant taxon	37.76	2
6. % Dominant FFG	32.82	4
7. % Predators	18.03	3
8. Ratio of Intolerant:Tolerant taxa	0.29	1
9. % of total trichoptera as Hydropsychidae	68.75	2
10. # of non-insect taxa	4	3
11. % Collector-gatherers	24.15	3
12. % of total number as Elmidae	39.29	1

AQUATIC LIFE USE POINT SCORE  
RANGES:

Exceptional:	>36	Total Score:	26
High:	29 - 36	Aquatic Life Use:	<b>Intermediate</b>
Intermediate:	22 - 28		
Limited:	< 22		

STREAM : Clear Fork Trinity  
DATE: 8 May 2002  
COUNTY: Parker  
LOCATION: 11060

ECOREGION #: 29



PARAMETRIC DATA

Station 11060

8 May 2002

STORET CODE	(<) OR (>)	Value	Description
90075		24	Dugesia sp.
90382		3	Oligochaeta
91241		1	Hyaella sp.
91683		2	Argia sp.
91930		3	Gerris sp.
92074		1	Corydalis sp.
92242		3	Microcylleopus sp.
92253		74	Stenelmis sp.
92292		22	Cheumatopsyche sp.
92376		10	Helicopsyche sp.
92491		16	Chironomidae
92596		30	Simulium sp.
93036		7	Corbicula sp.

Measurement Comments and Field Observations:

Kicknet effort

Metrics and Scoring for Kick Samples, Rapid  
Bioassessment Protocol - Benthic Macroinvertebrates

Metric	Value	Score
1. Taxa Richness	19	3
2. EPT Taxa Abundance	6	2
3. Biotic Index (HBI)	5.12	2
4. % Chironomidae	5.42	3
5. % Dominant taxon	17.24	4
6. % Dominant FFG	44.66	3
7. % Predators	13.14	4
8. Ratio of Intolerant:Tolerant taxa	0.65	1
9. % of total trichoptera as Hydropsychidae	100	1
10. # of non-insect taxa	3	2
11. % Collector-gatherers	25.21	3
12. % of total number as Elmidae	17.73	3

AQUATIC LIFE USE POINT SCORE  
RANGES:

Exceptional:	>36	Total Score:	31
High:	29 - 36	Aquatic Life Use:	<b>High</b>
Intermediate:	22 - 28		
Limited:	< 22		

STREAM : Clear Fork Trinity  
DATE: 7 May 2002  
COUNTY: Parker  
LOCATION: 17445

ECOREGION #: 29

PARAMETRIC DATA

Station 17445

7 May 2002

STORET CODE	(<) OR (>)	Value	Description
90382		13	Oligochaeta
91241		1	Hyaella sp.
91590		31	Isonychia sp.
91600		9	Caenis sp.
91613		21	Stenonema sp.
91646		2	Baetis sp.
91669		1	Hetaerina sp.
91683		2	Argia sp.
91713		4	Erpetogomphus sp.
91883		12	Perlesta sp.
92002		1	Ranatra sp.
92074		1	Corydalus sp.
92242		1	Microcylleopus sp.
92253		35	Stenelmis sp.
92292		26	Cheumatopsyche sp.
92491		11	Chironomidae
92596		9	Simulium sp.
92622		2	Tabanus sp.
93036		21	Corbicula sp.

Measurement Comments and Field Observations:

Kicknet effort

Metrics and Scoring for Kick Samples, Rapid  
Bioassessment Protocol - Benthic Macroinvertebrates

Metric	Value	Score
1. Taxa Richness	16	3
2. EPT Taxa Abundance	6	2
3. Biotic Index (HBI)	4.65	2
4. % Chironomidae	2.4	4
5. % Dominant taxon	21.15	4
6. % Dominant FFG	61.38	1
7. % Predators	15.23	3
8. Ratio of Intolerant:Tolerant taxa	1.17	1
9. % of total trichoptera as Hydropsychidae	100	1
10. # of non-insect taxa	2	2
11. % Collector-gatherers	12.34	4
12. % of total number as Elmidae	14.9	3

AQUATIC LIFE USE POINT SCORE  
RANGES:

Exceptional:	>36	Total Score:	30
High:	29 - 36	Aquatic Life Use:	<b>High</b>
Intermediate:	22 - 28		
Limited:	< 22		

STREAM : Clear Fork Trinity  
DATE: 15 May 2002  
COUNTY: Parker  
LOCATION: 17444

ECOREGION #: 29

PARAMETRIC DATA

Station 17444

15 May 2002

STORET CODE	(<) OR (>)	Value	Description
90382		1	Oligochaeta
91590		38	Isonychia sp.
91600		8	Caenis sp.
91613		4	Stenonema sp.
91713		10	Erpetogomphus sp.
91730		2	Progomphus sp.
91769		1	Macromia sp.
91883		15	Perlesta sp.
91923		2	Rhagovelia sp.
92221		3	Helichus sp.
92242		2	Microcylleopus sp.
92253		29	Stenelmis sp.
92292		44	Cheumatopsyche sp.
92296		37	Hydropsyche sp.
92491		5	Chironomidae
93036		7	Corbicula sp.

Measurement Comments and Field Observations:

Kicknet effort

Metrics and Scoring for Kick Samples, Rapid  
Bioassessment Protocol - Benthic Macroinvertebrates

Metric	Value	Score
1. Taxa Richness	15	3
2. EPT Taxa Abundance	8	3
3. Biotic Index (HBI)	5.58	1
4. % Chironomidae	5.16	3
5. % Dominant taxon	44.6	1
6. % Dominant FFG	36.93	3
7. % Predators	9.7	4
8. Ratio of Intolerant:Tolerant taxa	0.57	1
9. % of total trichoptera as Hydropsychidae	76.9	1
10. # of non-insect taxa	2	2
11. % Collector-gatherers	36.93	2
12. % of total number as Elmidae	44.6	1

AQUATIC LIFE USE POINT SCORE  
RANGES:

Exceptional:	>36	Total Score:	25
High:	29 - 36		
Intermediate:	22 - 28	Aquatic Life Use:	<b>Intermediate</b>
Limited:	< 22		

STREAM : Clear Fork Trinity  
DATE: 15 May 2002  
COUNTY: Tarrant  
LOCATION: 13691

ECOREGION #: 29

PARAMETRIC DATA

Station 13691

15 May 2002

STORET CODE	(<) OR (>)	Value	Description
90075		5	Dugesia sp.
91590		19	Isonychia sp.
91600		16	Caenis sp.
91613		35	Stenonema sp.
91646		4	Baetis sp.
91683		1	Argia sp.
91713		5	Erpetogomphus sp.
91883		5	Perlesta sp.
92090		1	Dinuetus sp.
92253		95	Stenelmis sp.
92292		5	Cheumatopsyche sp.
92296		5	Hydropsyche sp.
92376		3	Helicopsyche sp.
92491		11	Chironomidae
93036		3	Corbicula sp.

Measurement Comments and Field Observations:

Kicknet effort

Metrics and Scoring for Kick Samples, Rapid  
Bioassessment Protocol - Benthic Macroinvertebrates

Metric	Value	Score
1. Taxa Richness	24	4
2. EPT Taxa Abundance	7	3
3. Biotic Index (HBI)	6.31	1
4. % Chironomidae	6.90	3
5. % Dominant taxon	29.74	3
6. % Dominant FFG	76.87	1
7. % Predators	76.87	1
8. Ratio of Intolerant:Tolerant taxa	21.24	4
9. % of total trichoptera as Hydropsychidae	23.81	4
10. # of non-insect taxa	6	4
11. % Collector-gatherers	7.26	1
12. % of total number as Elmidae	0.00	1

AQUATIC LIFE USE POINT SCORE  
RANGES:

Exceptional:	>36	Total Score:	30
High:	29 - 36	Aquatic Life Use:	<b>High</b>
Intermediate:	22 - 28		
Limited:	< 22		

STREAM : Clear Fork Trinity  
DATE: 30 July 2002  
COUNTY: Parker  
LOCATION: 17446

ECOREGION #: 29



PARAMETRIC DATA

Station 17446

30 July 2002

STORET CODE	(<) OR (>)	Value	Description
90075		49	Dugesia sp.
90382		1	Oligochaeta
90913		13	Hirudinea
91241		1	Hyalolella azteca
91600		3	Caenis sp.
91646		1	Baetis sp.
91669		28	Hetaerina sp.
91683		69	Argia sp.
91806		1	Libellula sp.
91923		1	Rhagovelia sp.
91953		1	Mesovelia sp.
91988		4	Belostoma sp.
92064		4	Ambrysus pulchellus
92268		4	Chimarra sp.
92292		5	Cheumatopsyche sp.
92324		6	Hydroptila sp.
92376		2	Helicopsyche sp.
92391		4	Oecetis sp.
92478		1	Bezzia sp.
92491		16	Chironomidae
92596		5	Simulium sp.
92874		2	Physella sp.
93024		3	Sphaeriidae
97298		8	Ostracoda

Measurement Comments and Field Observations:

Kicknet effort

Metrics and Scoring for Kick Samples, Rapid  
Bioassessment Protocol - Benthic Macroinvertebrates

Metric	Value	Score
1. Taxa Richness	16	3
2. EPT Taxa Abundance	6	2
3. Biotic Index (HBI)	5.94	1
4. % Chironomidae	10.63	2
5. % Dominant taxon	25.25	3
6. % Dominant FFG	37.43	3
7. % Predators	35.11	2
8. Ratio of Intolerant:Tolerant taxa	0.34	1
9. % of total trichoptera as Hydropsychidae	41.67	3
10. # of non-insect taxa	3	2
11. % Collector-gatherers	16.83	4
12. % of total number as Elmidae	18.94	3

AQUATIC LIFE USE POINT SCORE  
RANGES:

Exceptional:	>36	Total Score:	29
High:	29 - 36	Aquatic Life Use:	<b>High</b>
Intermediate:	22 - 28		
Limited:	< 22		

STREAM : Clear fork Trinity  
DATE: 31 July 2002  
COUNTY: Parker  
LOCATION: 11060

ECOREGION #: 29

PARAMETRIC DATA

Station 11060

31 July 2002

STORET CODE	(<) OR (>)	Value	Description
90075		76	Dugesia sp.
90382		8	Oligochaeta
91600		6	Caenis sp.
91613		1	Stenonema sp.
91669		1	Hetaerina sp.
91683		11	Argia sp.
92074		6	Corydalus sp.
92242		2	Microcylleopus pusillus
92253		55	Stenelmis sp.
92268		56	Chimarra sp.
92292		23	Cheumatopsyche sp.
92296		1	Hydropsyche sp.
92308		16	Smicridea sp.
92478		1	Bezzia sp.
92491		32	Chironomidae
93036		6	Corbicula sp.

Measurement Comments and Field Observations:

Kicknet effort

Metrics and Scoring for Kick Samples, Rapid  
Bioassessment Protocol - Benthic Macroinvertebrates

Metric	Value	Score
1. Taxa Richness	30	4
2. EPT Taxa Abundance	8	3
3. Biotic Index (HBI)	5.75	1
4. % Chironomidae	0.81	4
5. % Dominant taxon	27.02	3
6. % Dominant FFG	54.90	1
7. % Predators	54.90	1
8. Ratio of Intolerant:Tolerant taxa	0.32	1
9. % of total trichoptera as Hydropsychidae	34.62	3
10. # of non-insect taxa	4	3
11. % Collector-gatherers	17.41	4
12. % of total number as Elmidae	14.52	3

AQUATIC LIFE USE POINT SCORE  
RANGES:

Exceptional:	>36	Total Score:	31
High:	29 - 36	Aquatic Life Use:	<b>High</b>
Intermediate:	22 - 28		
Limited:	< 22		

STREAM : Clear Fork Trinity  
DATE: 31 July 2002  
COUNTY: Parker  
LOCATION: 17445

ECOREGION #: 29

PARAMETRIC DATA

Station 17445

31 July 2002

STORET CODE	(<) OR (>)	Value	Description
90075		67	Dugesia sp.
90382		8	Oligochaeta
91554		19	Choroterpes sp.
91600		13	Caenis sp.
91669		6	Hetaerina sp.
91683		38	Argia sp.
91687		1	Enallagma sp.
91713		5	Erpetogomphus sp.
91718		1	Gomphus sp.
91777		5	Brechmorhga mendax
92064		2	Ambrysus pulchellus
92074		3	Corydalis sp.
92100		2	Peltodytes sp.
92178		2	Tropisternus sp.
92221		1	Helichus sp.
92230		2	Dubiraphia sp.
92242		14	Microcylleopus pusillus
92253		20	Stenelmis sp.
92268		6	Chimarra sp.
92292		8	Cheumatopsyche sp.
92296		1	Hydropsyche sp.
92376		9	Helicopsyche sp.
92378		1	Marilia flexuosa
92391		1	Oecetis sp.
92477		1	Atrichopogon sp.
92478		2	Bezzia sp.
92491		2	Chironomidae
92622		2	Tabanus sp.
92874		1	Physella sp.
93036		5	Corbicula sp.

Measurement Comments and Field Observations:

Kicknet effort

Metrics and Scoring for Kick Samples, Rapid  
Bioassessment Protocol - Benthic Macroinvertebrates

Metric	Value	Score
1. Taxa Richness	19	3
2. EPT Taxa Abundance	7	3
3. Biotic Index (HBI)	5.96	1
4. % Chironomidae	0.40	1
5. % Dominant taxon	66.80	1
6. % Dominant FFG	77.60	1
7. % Predators	13.57	4
8. Ratio of Intolerant:Tolerant taxa	0.12	1
9. % of total trichoptera as Hydropsychidae	98.34	1
10. # of non-insect taxa	3	2
11. % Collector-gatherers	4.68	1
12. % of total number as Elmidae	4.74	4

AQUATIC LIFE USE POINT SCORE  
RANGES:

Exceptional:	>36	Total Score:	23
High:	29 - 36	Aquatic Life Use:	<b>Intermediate</b>
Intermediate:	22 - 28		
Limited:	< 22		

STREAM : Clear Fork Trinity

DATE: 1 August 2002

COUNTY: Parker

ECOREGION #: 29

LOCATION: 17444

PARAMETRIC DATA

Station 17444

12 August 2002

STORET CODE	(<) OR (>)	Value	Description
90075		22	Dugesia sp.
90382		2	Oligochaeta
91590		5	Isonychia sp.
91600		4	Caenis sp.
91613		3	Stenonema sp.
91713		4	Erpetogomphus sp.
91777		1	Brechmorhga mendax
91923		1	Rhagovelia sp.
92074		3	Corydalis sp.
92090		1	Dineutus sp.
92242		1	Microcylleopus pusillus
92253		11	Stenelmis sp.
92268		2	Chimarra sp.
92292		169	Cheumatopsyche sp.
92296		9	Hydropsyche sp.
92376		1	Helicopsyche sp.
92491		1	Chironomidae
92622		2	Tabanus sp.
93036		11	Corbicula sp.

Measurement Comments and Field Observations:

Kicknet effort

Metrics and Scoring for Kick Samples, Rapid  
Bioassessment Protocol - Benthic Macroinvertebrates

Metric	Value	Score
1. Taxa Richness	20	3
2. EPT Taxa Abundance	9	3
3. Biotic Index (HBI)	5.12	2
4. % Chironomidae	1.94	4
5. % Dominant taxon	14.73	4
6. % Dominant FFG	50.64	2
7. % Predators	18.48	3
8. Ratio of Intolerant:Tolerant taxa	0.80	1
9. % of total trichoptera as Hydropsychidae	55.66	2
10. # of non-insect taxa	2	2
11. % Collector-gatherers	13.44	4
12. % of total number as Elmidae	8.14	4

AQUATIC LIFE USE POINT SCORE  
RANGES:

Exceptional:	>36	Total Score:	34
High:	29 - 36	Aquatic Life Use:	<b>High</b>
Intermediate:	22 - 28		
Limited:	< 22		

STREAM : Clear Fork Trinity

DATE: 1 August 2002

COUNTY: Tarrant

ECOREGION #: 29

LOCATION: 13691



PARAMETRIC DATA

Station 13691

12 August 2002

STORET CODE	(<) OR (>)	Value	Description
90075		27	Dugesia sp.
91554		10	Choroterpes sp.
91590		26	Isonychia sp.
91600		28	Caenis sp.
91613		1	Stenonema sp.
91646		5	Baetis sp.
91683		9	Argia sp.
91713		1	Erpetogomphus sp.
91923		2	Rhagovelia sp.
92074		1	Corydalus sp.
92221		1	Helichus sp.
92242		2	Microcylleopus pusillus
92253		19	Stenelmis sp.
92268		35	Chimarra sp.
92292		38	Cheumatopsyche sp.
92296		21	Hydropsyche sp.
92376		12	Helicopsyche sp.
92491		5	Chironomidae
92622		6	Tabanus sp.
93036		9	Corbicula sp.

Measurement Comments and Field Observations:

Kicknet effort; glide no true pool