

TARRANT COUNTY WATER CONTROL AND
IMPROVEMENT DISTRICT NUMBER ONE

TEXAS WATER DEVELOPMENT BOARD

Upper West Fork and Clear Fork
Trinity River Basin
Water Quality and Regional
Facility Planning Study

FINAL REPORT

APPENDIX E
WATER QUALITY DATA

August 1988

Alan Plummer and Associates, Inc.

CIVIL/ENVIRONMENTAL ENGINEERS • ARLINGTON-FORT WORTH, TEXAS



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APPENDIX E
HISTORICAL WATER QUALITY DATA
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APPENDIX E
HISTORICAL WATER QUALITY DATA

INTRODUCTION

Water quality monitoring of the lakes and streams in the Upper Trinity River Basin has been conducted for many years by various federal, state, and local agencies. Data collected during the period 1980 through 1987 were used to assess historical water quality for this study. Agencies which have performed water quality monitoring or studies in this area include: the U.S. Geological Survey, the Texas Water Commission, the Fort Worth Water Department, the Texas Parks and Wildlife Department, the Texas Department of Health, and the Tarrant County Water Control and Improvement District No. 1. Data collected by other agencies (e.g., private firms or state universities) exist but have not been included in this study.

Intensive water quality surveys were performed for this study by Alan Plummer and Associates, Inc., in association with Tarrant County Water Control and Improvement District No. 1, the City of Arlington's Pierce-Burch Water Treatment Plant laboratory, and the Trinity River Authority's Central Regional Wastewater Treatment Plant laboratory.

Summaries of the water quality data available in the study area were included in Chapter III of the project summary report. Data for the individual stations are presented in this appendix. A listing of the water quality monitoring stations used in the historical water quality assessment is presented in Table E-1. The location of the monitoring stations are shown on Figures E-1 through E-6.

NUMERICAL CRITERIA FOR NON-TOXIC MATERIALS

The State of Texas has established numerical water quality criteria for chlorides, sulfates, total dissolved solids, dissolved oxygen, pH, fecal

coliforms and temperature for the waters of the State. Numerical criteria are developed based on the intended use of the stream or water body and historical water quality. The current numerical criteria for each of the segments in the study area are presented in Table E-2. In addition, the numerical criteria for 1985 and 1981 are listed in Table E-3 and Table E-4, respectively to present all of the numerical criteria which was in existence over the course of the reporting period.

Water quality data for those parameters listed in the numerical criteria were summarized for each monitoring station and by segment over the reporting period of 1980 through 1987. The summary of the water quality data for each segment is presented in Table E-5. The summary of the water quality data for each monitoring station is presented in Table E-6 for the same parameters.

NUTRIENTS

The nutrients of primary concern in the water quality assessment include nitrogen and phosphorus. The nitrogen series consists of total kjeldahl nitrogen (organic plus ammonia), ammonia, nitrites, and nitrates. The phosphorus series includes total phosphorus and dissolved orthophosphorus.

Applicable criteria for nutrients cannot be established because sufficient information on nutrient cycling in Texas waters and cause-effect relationships between nutrient concentrations and water quality is not presently available.

The water quality data for nutrients were summarized for each monitoring station and by segment over the reporting period of 1980 through 1987. The summary of the water quality data for each segment is presented in

Table E-7 and the nutrient water quality data for each monitoring station is summarized in Table E-8.

TOXIC MATERIALS

All of the waters in the Upper Trinity River Basin are classified for contact recreation, public water supply, and high quality aquatic life. They are therefore subject to the most stringent of the toxic material numerical criteria. Numerical criteria have been established for those specific toxic substances for which adequate toxicity information is available and which have the potential for exerting adverse impacts on the waters of the State. The State's numerical criteria applicable to toxic substances in the study area are presented in Table E-9.

The frequency and list of toxic parameters tested varied tremendously throughout the study area, and metals were measured more frequently than organics.

Metals were measured in Village Creek, Lake Arlington, Lake Benbrook, and the Clear Fork of the Trinity River. The metals data are presented in Table E-10. Organics were measured in whole water and bottom sediment samples in the study area. Organic data from whole water samples are presented only for Lake Arlington in Table E-11. Organic from sediment samples were measured in several lakes in the study area and the data are presented in Table E-12.

TABLES

TABLE E-1

WATER QUALITY SAMPLING AND MONITORING STATIONS
IN THE UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Station location symbol ^{1,2}	Station	Location	Data reporting period
<u>0831</u> (continued)	24	A-24	Underwood Branch at Center Point -	7/8/87
	25	A-25	South Fork at FM 5	7/8/87
<u>0832</u>				
Lake Weatherford	67	0832.0010	In pump house upstream from end of dam	(NO DATA)
	68	0832.0100	Mid lake near dam	12/16/81 - 9/11/82
	11	A-11	Lake Weatherford	8/3/87 - 8/17/87
	12	A-12	Lake Weatherford	8/3/87
	13	A-13	Lake Weatherford	8/3/87 - 8/17/87
	14	A-14	Lake Weatherford	8/3/87
	15	A-15	Lake Weatherford	8/3/87 - 8/17/87

¹Reporting Agencies:

○ Texas Water Commission

△ United States Geological Survey

◇ Fort Worth Water Department

□ Alan Plummer and Associates, Inc.

²Station location symbols refer to Figures III-1 through III-6.

TABLE E-1

WATER QUALITY SAMPLING AND MONITORING STATIONS
 IN THE UPPER TRINITY RIVER BASIN
 (continued)

Stream segment	Station location symbol ^{1,2}	Station	Location	Data reporting period
0833				
Clear Fork Trinity River above Lake Weatherford	⊙	0833.0100	At FM 41 northeast of Weatherford	4/8/80 - 3/13/86

¹Reporting Agencies:

- Texas Water Commission
- △ United States Geological Survey
- ◇ Fort Worth Water Department
- Alan Plummer and Associates, Inc.

²Station location symbols refer to Figures III-1 through III-6.

TABLE E-1

WATER QUALITY SAMPLING AND MONITORING STATIONS
IN THE UPPER TRINITY RIVER BASIN

Stream segment	Station location symbol ^{1,2}	Station	Location	Data reporting period
<u>0800</u>				
Village Creek	①	0800.1710	At IH-20 in Arlington	1/8/80 - 6/21/85
	②	0800.1720	At U.S. 287 southwest of Arlington	1/21/80 - 6/14/85
	③	0800.1760	Oak Grove-Rendon Road northwest of Rendon (FM 1187)	1/21/80 - 6/14/85
	④	0800.1770	At Rendon Road southwest of Arlington	1/21/80 - 6/14/85
<u>0807</u>				
Lake Worth	⑤	0807.0100	Mid lake near dam	2/28/80 - 8/28/87
	△ ₁₈	0804.5400	Lake Worth above Fort Worth, Texas	9/8/80 - 5/10/84

¹Reporting Agencies:

○ Texas Water Commission

△ United States Geological Survey

◇ Fort Worth Water Department

□ Alan Plummer and Associates, Inc.

²Station location symbols refer to Figures III-1 through III-6.

TABLE E-1

WATER QUALITY SAMPLING AND MONITORING STATIONS
IN THE UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Station location symbol ^{1,2}	Station	Location	Data reporting period
<u>0807</u> (continued)	6	A-6	Lake Worth	7/14/87
	7	A-7	Lake Worth	7/14/87
	8	A-8	Lake Worth	7/14/87
	9	A-9	Lake Worth	7/14/87
	10	A-10	Lake Worth	7/14/87
	17	F-17	Lake Worth	1/2/80 - 12/24/87
	19	F-19	Casino Beach at Lake Worth	1/20/80 - 12/24/87
<u>0808</u>				
West Fork of Trinity River-Lake Worth to Eagle Mountain Dam	6	0808.0100	At Ten Mile Bridge	4/8/80 - 8/4/87
	18	F-18	At Ten Mile Bridge	1/2/80 - 12/24/87
<u>0809</u>				
Eagle Mountain Reservoir	7	0809.0010	At right end of dam	7/29/86 - 8/4/87
	8	0809.0100	Mid lake near dam	5/14/80 - 8/28/87

¹Reporting Agencies:

- Texas Water Commission
- △ United States Geological Survey
- ◇ Fort Worth Water Department
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²Station location symbols refer to Figures III-1 through III-6.

TABLE E-1
 WATER QUALITY SAMPLING AND MONITORING STATIONS
 IN THE UPPER TRINITY RIVER BASIN
 (continued)

Stream segment	Station location symbol ^{1,2}	Station	Location	Data reporting period
<u>0809</u> (continued)	⑨	0809.0200	Outer Dozier Slough Cove	7/29/86 - 8/4/87
	⑩	0809.0220	Mid Dozier Slough Cove	7/29/86 - 8/4/87
	⑪	0809.0230	Inner Dozier Slough Cove	7/29/86 - 8/4/87
	⑫	0809.0240	Outer Ash Creek Cove	7/29/86 - 8/4/87
	⑬	0809.0250	Mid Ash Creek Cove	7/29/86 - 8/4/87
	⑭	0809.0260	Inner Ash Creek Cove	7/29/86 - 8/4/87
	⑮	0809.0300	Near Texas Electric	7/29/86 - 8/4/87
	⑯	0809.0310	Outer Walnut Creek Cove	7/29/86 - 8/4/87
	⑰	0809.0320	Mid Walnut Creek Cove	7/29/86 - 8/4/87
	⑱	0809.0330	Inner Walnut Creek Cove	7/29/86 - 8/4/87

¹Reporting Agencies:

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²Station location symbols refer to Figures III-1 through III-6.

TABLE E-1

WATER QUALITY SAMPLING AND MONITORING STATIONS
IN THE UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Station location symbol ^{1,2}	Station	Location	Data reporting period
<u>0809</u> (continued)	①9	0809.0400	Near Cole Subdivision	7/29/86 - 8/4/87
	②0	0809.0410	Near Scotty's Camp	7/29/86 - 8/4/87
	②1	0809.0420	Outer Old Ranch Cove	1/27/87 - 8/4/87
	②2	0809.0430	Inner Old Ranch Cove	1/27/87 - 8/4/87
	②3	0809.0500	Near Indian Creek Cove	7/29/86 - 8/4/87
	②4	0809.0510	Outer Indian Creek Cove	7/29/86 - 8/4/87
	②5	0809.0520	Mid Indian Creek Cove	7/29/86 - 8/4/87
	②6	0809.0530	Inner Indian Creek Cove	7/29/86 - 8/4/87
	②7	0809.0600	Near Newark Beach	7/29/86 - 8/4/87
	②8	0809.0610	Mid Darrett Creek Cove	7/29/86 - 8/4/87
	◇20	F-20	Near dam	1/2/80 - 12/24/87

¹Reporting Agencies:

○ Texas Water Commission

△ United States Geological Survey

◇ Fort Worth Water Department

□ Alan Plummer and Associates, Inc.

²Station location symbols refer to
Figures III-1 through III-6.

TABLE E-1

WATER QUALITY SAMPLING AND MONITORING STATIONS
IN THE UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Station location symbol ^{1,2}	Station	Location	Data reporting period
0809 (continued)	⊙	0809.0700	Near Fort Worth ISD Outdoor Learning Center	7/29/86 - 8/4/87
Tributaries of Eagle Mountain Reservoir	⊙	0800.505	Briar Creek at FM 730	2/24/87 - 7/1/87
	⊙	0800.510	Walnut Creek at FM 1542	2/24/87 - 8/4/87
	⊙	0800.515	Ash Creek at SH 199	2/24/87 - 8/4/87
	⊙	0800.520	Dozier Creek at FM 1220	2/24/87 - 7/1/87
	⊙	0800.525	Indian Creek at FM 718	2/24/87 - 7/1/87
	⊙	0800.530	Darrett Creek at unnamed road in city	2/24/87 - 7/1/87
	⊙	0800.5225	Gilmore Branch at FM 1220	2/24/87 - 4/2/87

¹Reporting Agencies:

○ Texas Water Commission

△ United States Geological Survey

◇ Fort Worth Water Department

□ Alan Plummer and Associates, Inc.

²Station location symbols refer to Figures III-1 through III-6.

TABLE E-1
 WATER QUALITY SAMPLING AND MONITORING STATIONS
 IN THE UPPER TRINITY RIVER BASIN
 (continued)

Stream segment	Station location symbol ^{1,2}	Station	Location	Data reporting period
<u>0809</u> (continued)	◻	A-32	Walnut Creek at bridge southwest of Springtown WWT	7/28/87
	◻	A-33	Walnut Creek at bridge northeast, of Springtown WWT	7/28/87
	◻	A-34	Walnut Creek at FM 2257	7/28/87
	◻	A-35	Walnut Creek at FM 1540	7/28/87
	◻	A-36	Walnut Creek at FM 730	7/28/87

¹Reporting Agencies:

- Texas Water Commission
- △ United States Geological Survey
- ◇ Fort Worth Water Department
- ◻ Alan Plummer and Associates, Inc.

²Station location symbols refer to Figures III-1 through III-6.

TABLE E-1

WATER QUALITY SAMPLING AND MONITORING STATIONS
IN THE UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Station location symbol ^{1,2}	Station	Location	Data reporting period
<u>0810</u>				
West Fork Trinity - Eagle Mountain Lake Headwater to Bridgeport Dam	57	0810.0010	West Fork Trinity River at Van Meter Bridge	7/30/86 - 8/4/87
	58	0810.0050	At SH 114 east of Boyd	(NO DATA)
	59	0810.0100	At FM 730 northeast of Boyd	4/8/80 - 1/14/87
<u>0811</u>				
Lake Bridgeport Dam	60	0811.0001	At left end of dam	(NO DATA)
	61	0811.0100	Mid lake near dam	5/14/80 - 8/28/87
	62	0811.0200	At confluence with West Fork Arm	5/14/80 - 9/4/80
	17	0804.3000	Near dam	1/9/80 - 5/7/84
	1	A-1	Lake Bridgeport	7/13/87 - 8/11/87
2	A-2	Lake Bridgeport	7/13/87	

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○ Texas Water Commission

△ United States Geological Survey

◇ Fort Worth Water Department

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²Station location symbols refer to Figures III-1 through III-6.

TABLE E-1

WATER QUALITY SAMPLING AND MONITORING STATIONS
IN THE UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Station location symbol ^{1,2}	Station	Location	Data reporting period
<u>0811</u> (continued)	◻	A-3	Lake Bridgeport	7/11/87 - 8/11/87
	◻	A-4	Lake Bridgeport	7/13/87 - 8/11/87
	◻	A-5	Lake Bridgeport	7/13/87
<u>0812</u>				
West Fork Trinity River above Lake Bridgeport	⊙	0812.0100	At SH 59 northeast of Jacksboro	12/12/80 - 1/14/87
<u>0828</u>				
Lake Arlington	⊙	0828.0001	In pump house at right end of dam	7/9/84 - 12/30/87
	⊙	0828.0050	Near TESCO Outfall	9/11/84 - 9/8/86
	⊙	0828.0100	Mid lake near dam	5/16/80 - 5/12/83
	⊙	0828.0200	In Henderson's Cove	NO DATA ****
	⊙	0828.0300	At mid lake	4/10/84 - 2/24/86

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○ Texas Water Commission

△ United States Geological Survey

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²Station location symbols refer to Figures III-1 through III-6.

TABLE E-1

WATER QUALITY SAMPLING AND MONITORING STATIONS
IN THE UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Station location symbol ^{1,2}	Station	Location	Data reporting period
<u>0828</u> (continued)	④	0828.0400	Near center of lake, off end of Bowman Springs Road	7/10/84 - 9/8/86
		0804.9200		
	△8		AC	2/5/80 - 8/28/87
	△9		AL	2/5/80 - 8/28/87
	△10		BC	2/5/80 - 8/28/87
	△11		BL	2/5/80 - 8/28/87
	△12		CC	2/5/80 - 8/28/87
	△13		DC	2/5/80 - 8/28/87
	△14		EC	2/5/80 - 8/28/87
	△15		EL	2/5/80 - 8/28/87
	△16		FC	2/5/80 - 8/28/87

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TABLE E-1

WATER QUALITY SAMPLING AND MONITORING STATIONS
IN THE UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Station location symbol ^{1,2}	Station	Location	Data reporting period
<u>0829</u>				
Clear Fork Trinity River-West Fork Trinity River Confluence in Benbrook Dam	50	0829.0050	At Rogers Road in Fort Worth	(NO DATA)
	51	0829.0100	At Bryant-Irvin Road in Fort Worth	4/8/80 - 2/28/86
	10	F-10	General Dynamics Recreation Area	1/16/80 - 12/24/87
	11	F-11	Overton Park	1/16/80 - 12/24/87
	12	F-12	Como Drainage	1/16/80 - 12/24/87
	13	F-13	Colonial Golf Course	1/16/80 - 12/24/87

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Figures III-1 through III-6.

TABLE E-1

WATER QUALITY SAMPLING AND MONITORING STATIONS
IN THE UPPER TRINITY RIVER BASIN

Stream segment	Station location symbol ^{1,2}	Station	Location	Data reporting period
<u>0829</u> (continued)	◊14	F-14	Colonial Cafeteria	1/16/80 - 12/24/87
	◊15	F-15	Fort Worth Zoo	1/16/80 - 12/24/87
	◊16	F-16	Forest Lake	1/16/80 - 12/24/87
	△7	0804.7000	Clear Fork Near Benbrook, Texas	1/13/81 - 7/26/82
<u>0830</u>				
Benbrook Reservoir	○52	0830.0001	In intake structure of dam	(NO DATA)
	○53	0830.0100	Mid lake near dam	2/28/80 - 9/17/86

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Figures III-1 through III-6.

TABLE E-1

WATER QUALITY SAMPLING AND MONITORING STATIONS
IN THE UPPER TRINITY RIVER BASIN

Stream segment	Station location symbol ^{1,2}	Station	Location	Data reporting period
<u>0830</u> (continued)	54	0830.0600	At Pipeline Cove 18 feet deep	4/16/85 - 6/3/85
	55	0830.0605	At Pipeline Cove 16 feet deep	4/16/85 - 6/3/85
	56	0830.0610	At Pipeline Cove 9 feet deep	4/15/85 - 6/5/85
	57	0830.0615	At Pipeline Cove 2 feet deep	4/16/85 - 6/3/85
	58	0830.0700	In Boat Ramp Cove 9 feet deep	4/23/85 - 6/3/85
	59	0830.0705	In Boat Ramp Cove 6 feet deep	4/16/85 - 6/3/85
	60	0830.0710	In Boat Ramp Cove 5 feet deep	4/15/85 - 6/5/85
	61	0830.0715	In Boat Ramp Cove 1 feet deep	4/16/85 - 6/3/85

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²Station location symbols refer to
Figures III-1 through III-6.

TABLE E-1
 WATER QUALITY SAMPLING AND MONITORING STATIONS
 IN THE UPPER TRINITY RIVER BASIN
 (continued)

Stream segment	Station location symbol ^{1,2}	Station	Location	Data reporting period
<u>0830</u> (continued)	◊ 4	F-4	Bear Creek	8/4/86 - 12/15/87
	◊ 5	F-5	Clear Fork	8/4/86 - 11/15/87
	◊ 6	F-6	Dutch Branch	8/4/86 - 8/11/87
<u>0831</u>				
Clear Fork Trinity River-Benbrook Reservoir Headwater to Weatherford	○ 66	0831.0100	At U.S. 377 southeast of Aledo	4/8/80 - 3/13/85
	△ 19	0804.5850	Clear Fork near Weatherford, Texas	10/20/80 - 8/23/82

¹Reporting Agencies:

○ Texas Water Commission

△ United States Geological Survey

◊ Fort Worth Water Department

□ Alan Plummer and Associates, Inc.

²Station location symbols refer to Figures III-1 through III-6.

TABLE E-1

WATER QUALITY SAMPLING AND MONITORING STATIONS
IN THE UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Station location symbol ^{1,2}	Station	Location	Data reporting period
0831 (continued)	26	A-26	Clear Fork below Lake Weatherford	7/8/87
	27	A-27	Clear Fork below IH-20	7/8/87
	28	A-28	Clear Fork above confluence with South Fork	7/8/87
	29	A-29	Clear Fork 1.5 miles west of Aledo	7/8/87
	30	A-30	Clear Fork at FM 5	7/8/87
	31	A-31	Clear Fork downstream of Turkey Creek	7/8/87
Tributaries of the Clear Fork	20	A-20	Town Creek in Weatherford, Texas	7/8/87
	21	A-21	Town Creek upstream of the Weatherford WWTP	7/8/87
	22	A-22	Town Creek at IH-20	7/8/87
	23	A-23	Town Creek at Center Point	7/8/87

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²Station location symbols refer to Figures III-1 through III-6.

TABLE E-2

CURRENT TEXAS SURFACE WATER QUALITY STANDARDS
UPPER TRINITY RIVER BASIN

Segment Number	Segment Name	Water Uses ¹				CL ² (mg/l)	SO ₄ ³ (mg/l)	TDS ⁴ (mg/l)	DO ⁵ (mg/l)	pH (S.U.)	Fecal ⁶ Coliform	Temp ⁷ (°F)
		A	B	C	D							
0807	Lake Worth	CR	H	PS		100	100	500	5.0	6.5-9.0	200	91
0808	West Fork Trinity River Below Eagle Mountain Reservoir	CR	H	PS		100	100	500	5.0	6.5-9.0	200	91
0809	Eagle Mountain Reservoir	CR	H	PS		75	75	300	5.0	6.5-9.0	200	94
0810	West Fork Trinity River Below Bridgeport Reservoir	CR	H	PS		100	100	500	5.0	6.5-9.0	200	90
0811	Bridgeport Reservoir	CR	H	PS		75	75	300	5.0	6.5-9.0	200	90
0812	West Fork Trinity River Above Lake Bridgeport	CR	H	PS		100	100	500	5.0	6.5-9.0	200	88
0828	Lake Arlington	CR	H	PS		100	100	300	5.0	6.5-9.0	200	95
0829	Clear Fork Trinity River Below Benbrook Lake	CR	H	PS		100	100	500	5.0	6.5-9.0	200	93
0830	Benbrook Lake	CR	H	PS		75	75	300	5.0	6.5-9.0	200	93
0831	Clear Fork Trinity River Below Lake Weatherford	CR	H	PS		100	100	500	5.0	6.5-9.0	200	90
0832	Lake Weatherford	CR	H	PS		100	100	500	5.0	6.5-9.0	200	93
0833	Clear Fork Trinity River Above Lake Weatherford	CR	H	PS		125	125	750	5.0	6.5-9.0	200	95

Source: Texas Water Commission SURFACE WATER QUALITY STANDARDS

¹Class A: Recreation (CR - Contact Recreation)

Class B: Aquatic Life (H - High Quality)

Class C: Domestic Water Supply (PS - Public Water Supply)

Class D: Other

²Chlorides: Annual average not to exceed this value.

³Sulfate: Annual average not to exceed this value.

⁴Total Dissolved Solids: Annual average not to exceed this value.

⁵Dissolved Oxygen:

⁶Fecal Coliform: For contact recreation, fecal coliform content shall not exceed 200 colonies per 100 ml as a geometric mean based on a representative sampling of not less than five samples collected over not more than thirty days.

⁷Temperature: Not to exceed this value.

TABLE E-3

1985 TEXAS SURFACE WATER QUALITY STANDARDS
UPPER TRINITY RIVER BASIN

Segment Number	Segment Name	Water Uses ¹				CL ² (mg/l)	SO ₄ ³ (mg/l)	TDS ⁴ (mg/l)	DO ⁵ (mg/l)	pH (S.U.)	Fecal ⁶ Coliform	Temp ⁷ (°F)
		A	B	C	D							
0807	Lake Worth	CR	H	PS	100	100	500	5.0	6.5-9.0	200	91	
0808	West Fork Trinity River Below Eagle Mountain Reservoir	CR	H	PS	100	100	500	5.0	6.5-9.0	200	91	
0809	Eagle Mountain Reservoir	CR	H	PS	75	75	300	5.0	6.5-9.0	200	94	
0810	West Fork Trinity River Below Bridgeport Reservoir	CR	H	PS	100	100	500	5.0	6.5-9.0	200	90	
0811	Bridgeport Reservoir	CR	H	PS	75	75	300	5.0	6.5-9.0	200	90	
0812	West Fork Trinity River Above Lake Bridgeport	CR	H	PS	100	100	500	5.0	6.5-9.0	200	90	
0828	Lake Arlington	CR	H	PS	100	100	300	5.0	6.5-9.0	200	95	
0829	Clear Fork Trinity River Below Benbrook Lake	CR	H	PS	100	100	500	5.0	6.5-9.0	200	93	
0830	Benbrook Lake	CR	H	PS	75	75	300	5.0	6.5-9.0	200	93	
0831	Clear Fork Trinity River Below Lake Weatherford	CR	H	PS	100	100	500	5.0	6.5-9.0	200	90	
0832	Lake Weatherford	CR	H	PS	100	100	500	5.0	6.5-9.0	200	93	
0833	Clear Fork Trinity River Above Lake Weatherford	CR	H	PS	125	125	750	5.0	6.5-9.0	200	95	

Source: Texas Water Commission SURFACE WATER QUALITY STANDARDS

¹Class A: Recreation (CR - Contact Recreation)

Class B: Aquatic Life (H - High Quality)

Class C: Domestic Water Supply (PS - Public Water Supply)

Class D: Other

²Chlorides: Annual average not to exceed this value.

³Sulfate: Annual average not to exceed this value.

⁴Total Dissolved Solids: Annual average not to exceed this value.

⁵Dissolved Oxygen:

⁶Fecal Coliform: For contact recreation, fecal coliform content shall not exceed 200 colonies per 100 ml as a geometric mean based on a representative sampling of not less than five samples collected over not more than thirty days.

⁷Temperature: Not to exceed this value.

TABLE E-4

1981 TEXAS SURFACE WATER QUALITY STANDARDS
UPPER TRINITY RIVER BASIN

Segment Number	Segment Name	Water Uses ¹				Cl ² (mg/l)	SO ₄ ³ (mg/l)	TDS ⁴ (mg/l)	DO ⁵ (mg/l)	pH (S.U.)	Fecal ⁶ Coliform	Temp ⁷ (°F)
		A	B	C	D							
0807	Lake Worth	CR	H	PS	100	100	500	5.0	6.5-9.0	200	91	
0808	West Fork Trinity River Below Eagle Mountain Reservoir	CR	H	PS	100	100	500	5.0	6.5-9.0	200	91	
0809	Eagle Mountain Reservoir	CR	H	PS	75	75	300	5.0	6.5-9.0	200	94	
0810	West Fork Trinity River Below Bridgeport Reservoir	CR	H	PS	100	100	500	5.0	6.5-9.0	200	90	
0811	Bridgeport Reservoir	CR	H	PS	75	75	300	5.0	6.5-9.0	200	90	
0812	West Fork Trinity River Above Lake Bridgeport	CR	H	PS	100	100	500	5.0	6.5-9.0	200	90	
0828	Lake Arlington	CR	H	PS	100	100	300	5.0	6.5-9.0	200	95	
0829	Clear Fork Trinity River Below Benbrook Lake	CR	H	PS	100	100	500	5.0	6.5-9.0	200	93	
0830	Benbrook Lake	CR	H	PS	75	75	300	5.0	6.5-9.0	200	93	
0831	Clear Fork Trinity River Below Lake Weatherford	CR	H	PS	100	100	500	5.0	6.5-9.0	200	90	
0832	Lake Weatherford	CR	H	PS	100	100	500	5.0	6.5-9.0	200	93	
0833	Clear Fork Trinity River Above Lake Weatherford	CR	H	PS	125	125	750	5.0	6.5-9.0	200	95	

Source: Texas Water Commission SURFACE WATER QUALITY STANDARDS

¹Class A: Recreation (CR - Contact Recreation)

Class B: Aquatic Life (H - High Quality)

Class C: Domestic Water Supply (PS - Public Water Supply)

Class D: Other

²Chlorides: Annual average not to exceed this value.

³Sulfate: Annual average not to exceed this value.

⁴Total Dissolved Solids: Annual average not to exceed this value.

⁵Dissolved Oxygen:

⁶Fecal Coliform: For contact recreation, fecal coliform content shall not exceed 200 colonies per 100 ml as a geometric mean based on a representative sampling of not less than five samples collected over not more than thirty days.

⁷Temperature: Not to exceed this value.

TABLE E-5

SUMMARY OF STANDARD WATER QUALITY PARAMETERS BY SEGMENT
UPPER TRINITY RIVER BASIN

Stream segment	Sample measurement	Temp (oC)	DO (mg/l)	pH (mg/l)	C1 (mg/l)	SO ₄ (mg/l)	Fecal coliform (#/100 ml)	TDS (mg/l)
<u>0807</u>								
Lake Worth	Number of samples	175	15	178	180	14	65	5
	Minimum	6.0	4.5	7.3	8.0	10.0	1.0	170.0
	Maximum	32.2	11.8	8.7	46.0	22.7	600.0	384.0
	Average	20.2	7.9	8.3	44.8	23.7	-	217.0
<u>0808</u>								
West Fork of Trinity River - Lake Worth to Eagle Mountain Dam	Number of samples	93	31	95	100	32	79	13
	Minimum	5.0	1.8	7.1	15.0	3.9	1.0	210.0
	Maximum	31.1	12.9	9.7	71.9	60.0	800.0	384.0
	Average	19.2	8.7	8.1	42.2	24.1	-	277.2
<u>0809</u>								
Eagle Mountain Reservoir	Number of samples	434	343	436	288	193	187	179
	Minimum	4.4	1.9	6.5	12.0	3.9	1.0	124.0
	Maximum	35.8	14.6	9.7	207.0	145.0	3200.0	1424.0
	Average	22.3	9.0	8.2	43.3	27.0	-	318.6

TABLE E-5

SUMMARY OF STANDARD WATER QUALITY PARAMETERS BY SEGMENT
UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Sample measurement	Temp (oC)	DO (mg/l)	pH (mg/l)	Cl (mg/l)	SO ₄ (mg/l)	Fecal coliform (#/100 ml)	TDS (mg/l)
<u>0810</u>								
West Fork Trinity River -	Number of samples	37	37	34	37	37	33	11
Eagle Mountain Lake	Minimum	6.6	5.6	6.9	14.5	6.6	10.0	252.0
Headwater to Bridgeport Dam	Maximum	29.2	13.5	8.2	230.0	230.0	41000.0	764.0
	Average	17.7	8.5	7.7	83.2	58.7	-	577.1
<u>0811</u>								
Lake Bridgeport Dam	Number of samples	22	16	15	14	14	6	5
	Minimum	8.5	5.7	7.4	18.0	3.0	1.0	134.0
	Maximum	34.0	11.3	8.6	36.0	23.0	40.0	216.0
	Average	25.1	7.6	8.2	26.8	14.8	-	172.6
<u>0812</u>								
West Fork Trinity River	Number of samples	20	19	19	20	20	17	-
above Lake Bridgeport	Minimum	5.2	2.5	5.8	14.0	4.0	10.0	-
	Maximum	30.4	11.7	8.2	1080.0	710.0	92000.0	-
	Average	16.9	7.4	7.3	174.9	152.8	-	-

TABLE E-5

SUMMARY OF STANDARD WATER QUALITY PARAMETERS BY SEGMENT
UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Sample measurement	Temp (°C)	DO (mg/l)	pH (mg/l)	C1 (mg/l)	SO ₄ (mg/l)	Fecal coliform (#/100 ml)	TDS (mg/l)
<u>0828</u>								
Lake Arlington	Number of samples	386	377	358	145	145	164	201
	Minimum	0.0	4.3	7.1	14.5	10.7	1.0	3.0
	Maximum	37.5	13.1	9.3	31.0	39.0	316.0	309.0
	Average	22.2	8.2	8.2	20.2	26.9	-	193.0
<u>0829</u>								
Clear Fork Trinity River Confluence in Benbrook Dam	Number of samples	516	29	539	543	29	422	6
	Minimum	0.6	4.7	6.9	14.0	4.3	1.0	174.0
	Maximum	34.4	16.2	9.0	93.0	100.0	21000.0	236.0
	Average	21.1	9.7	8.0	37.7	31.2	-	197.2
<u>0830</u>								
Benbrook Reservoir	Number of samples	270	161	171	151	77	94	27
	Minimum	5.6	5.7	7.1	17.0	12.0	1.0	167.0
	Maximum	36.7	11.8	8.8	58.0	37.5	250.0	231.0
	Average	21.6	8.8	8.2	32.5	24.4	-	191.0

TABLE E-5

SUMMARY OF STANDARD WATER QUALITY PARAMETERS BY SEGMENT
UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Sample measurement	Temp (oC)	DO (mg/l)	pH (mg/l)	C1 (mg/l)	SO ₄ (mg/l)	Fecal coliform (#/100 ml)	TDS (mg/l)
<u>0831</u>								
Clear Fork Trinity River - Benbrook Reservoir Headwater to Weatherford	Number of samples	44	43	41	32	32	19	12
	Minimum	5.5	2.8	6.9	10.0	5.0	11.0	132.0
	Maximum	33.0	12.0	9.4	78.0	104.0	7000.0	430.0
	Average	20.2	7.3	7.7	39.4	37.9	-	311.3
<u>0832</u>								
Lake Weatherford	Number of samples	12	12	12	4	4	4	-
	Minimum	10.9	6.8	7.2	17.0	18.0	14.0	-
	Maximum	31.0	11.9	8.5	48.0	37.0	136.0	-
	Average	26.7	7.9	8.1	32.8	27.3	-	-
<u>0833</u>								
Clear Fork Trinity River above Lake Weatherford	Number of samples	19	19	16	19	19	16	-
	Minimum	5.7	4.7	7.2	19.0	5.0	20.0	-
	Maximum	31.0	11.7	8.5	158.0	168.0	35000.0	-
	Average	17.6	8.4	7.7	109.0	78.6	769.0	-

TABLE E-6

SUMMARY OF STANDARD WATER QUALITY PARAMETERS
UPPER TRINITY RIVER BASIN

Stream segment	Station	Sample measurement	Temp (oC)	DO (mg/l)	pH (mg/l)	C1 (mg/l)	SO ₄ (mg/l)	Fecal coliform (#/100 ml)	TDS (mg/l)
<u>0800</u>									
Village Creek	0800.1710	Number of samples	61	64	59	-	-	59	-
		Minimum	2.0	5.8	5.9	-	-	1	-
		Maximum	32.0	13.2	9.0	-	-	35,000	-
		Average	18.6	9.4	7.5	-	-	96	-
		Standard deviation	8.3	1.9	0.5	-	-	5,098	-
	0800.1720	Number of samples	32	33	30	-	-	26	-
		Minimum	4.0	6.8	4.5	-	-	1	-
		Maximum	30.0	12.6	8.9	-	-	54,400	-
		Average	21.1	9.2	7.5	-	-	205	-
		Standard deviation	7.4	1.7	0.8	-	-	10,658.5	-
	0800.1760	Number of samples	25	25	22	-	-	19	-
		Minimum	4.0	2.6	4.6	-	-	6	-
		Maximum	28.0	15.6	8.5	-	-	22,600	-
		Average	18.1	9.1	7.6	-	-	402	-
		Standard deviation	7.7	3.5	0.8	-	-	5,167.9	-
	0800.1770	Number of samples	22	22	19	-	-	19	-
		Minimum	4.0	4.7	7.3	-	-	4.0	-
		Maximum	29.0	19.0	8.4	-	-	29,200.0	-
		Average	17.6	10.9	7.9	-	-	199	-
		Standard deviation	8.1	3.6	0.4	-	-	6,679.6	-

TABLE E-6

SUMMARY OF STANDARD WATER QUALITY PARAMETERS
UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Station	Sample measurement	Temp (°C)	DO (mg/l)	pH (mg/l)	C1 (mg/l)	SO ₄ (mg/l)	Fecal coliform (#/100 ml)	TDS (mg/l)
<u>0807</u>									
Lake Worth	0807.0100	Number of samples	10	10	7	9	9	8	-
		Minimum	8.0	4.5	8.1	8.0	10.0	2.0	-
		Maximum	31.1	11.8	8.7	40.0	37.5	80.0	-
		Average	21.9	8.4	8.3	30.1	22.3	15	-
		Standard deviation	8.5	2.0	0.2	9.0	8.0	26.4	-
	08045400	Number of samples	5	-	-	5	5	-	5
		Minimum	13.0	-	-	17.0	16.0	-	170.0
		Maximum	28.0	-	-	43.0	29.0	-	240.0
		Average	20.1	-	-	34.8	23.4	-	217.0
		Standard deviation	6.6	-	-	11.3	5.6	-	27.9
	A-6	Number of samples	1	1	1	-	-	-	-
		Minimum	28.0	7.8	8.20	-	-	-	-
		Maximum	28.0	7.8	8.20	-	-	-	-
		Average	28.0	7.8	8.20	-	-	-	-
		Standard deviation	-	-	-	-	-	-	-
	A-7	Number of samples	1	1	1	-	-	-	-
		Minimum	27.9	7.3	8.10	-	-	-	-
		Maximum	27.9	7.3	8.10	-	-	-	-
		Average	27.9	7.3	8.10	-	-	-	-
		Standard deviation	-	-	-	-	-	-	-

TABLE E-6

SUMMARY OF STANDARD WATER QUALITY PARAMETERS
UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Station	Sample measurement	Temp (oC)	DO (mg/l)	pH (mg/l)	C1 (mg/l)	SO ₄ (mg/l)	Fecal coliform (#/100 ml)	TDS (mg/l)
<u>0807</u> (continued)	A-8	Number of samples	1	1	1	-	-	-	-
		Minimum	27.6	6.7	8.00	-	-	-	-
		Maximum	27.6	6.7	8.00	-	-	-	-
		Average	27.6	6.7	8.00	-	-	-	-
		Standard deviation	-	-	-	-	-	-	-
	A-9	Number of samples	1	1	1	-	-	-	-
		Minimum	27.5	6.8	8.10	-	-	-	-
		Maximum	27.5	6.8	8.10	-	-	-	-
		Average	27.5	6.8	8.10	-	-	-	-
		Standard deviation	-	-	-	-	-	-	-
	A-10	Number of samples	1	1	1	-	-	-	-
		Minimum	27.5	6.2	7.80	-	-	-	-
		Maximum	27.5	6.2	7.8	-	-	-	-
		Average	27.5	6.2	7.8	-	-	-	-
		Standard deviation	-	-	-	-	-	-	-
	F-17	Number of samples	93	-	98	98	-	57	-
		Minimum	6.0	-	7.3	20.0	-	1.0	-
		Maximum	31.1	-	8.8	68.0	-	600.0	-
		Average	19.7	-	8.3	49.4	-	11	-
		Standard deviation	7.9	-	0.2	12.3	-	83.6	-

TABLE E-6

SUMMARY OF STANDARD WATER QUALITY PARAMETERS
UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Station	Sample measurement	Temp (oC)	DO (mg/l)	pH (mg/l)	C1 (mg/l)	SO ₄ (mg/l)	Fecal coliform (#/100 ml)	TDS (mg/l)
<u>0807</u> (continued)	F-19	Number of samples	62	-	68	68	-	52	-
		Minimum	6.0	-	7.7	19.0	-	2.0	-
		Maximum	32.2	-	8.7	66.0	-	800.0	-
		Average	20.1	-	8.3	44.6	-	37	-
		Standard deviation	7.8	-	0.2	9.7	-	172.9	-
<u>0808</u>									
West Fork of Trinity River-Lake Worth to Eagle Mountain Dam	0808.0100	Number of samples	31	31	27	32	32	29	13
		Minimum	6.4	1.8	7.1	15.0	3.9	4.0	210.0
		Maximum	29.1	12.9	9.7	71.9	60.0	500.0	384.0
		Average	18.9	8.7	7.9	37.3	24.1	40.0	277.2
		Standard deviation	7.6	2.1	0.5	10.4	14.6	99.8	40.4
	F-18	Number of samples	62	-	68	68	-	50	-
		Minimum	5.0	-	7.6	23.0	-	1.0	-
		Maximum	31.1	-	8.6	63.0	-	800.0	-
		Average	19.4	-	8.2	44.5	-	22	-
		Standard deviation	7.8	-	0.2	8.8	-	129.9	-
<u>0809</u>									
Eagle Mountain Reservoir	0809.0010	Number of samples	19	19	19	13	13	5	13
		Minimum	7.2	4.8	7.4	28.8	3.9	1	190
		Maximum	33	11.8	8.6	136.8	74	10	964
		Average	21.4	8.9	8.0	44.1	26.7	3.0	365
		Standard deviation	9.1	2.0	0.3	29.1	18.7	3.5	227.2

TABLE E-6

SUMMARY OF STANDARD WATER QUALITY PARAMETERS
UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Station	Sample measurement	Temp (°C)	DO (mg/l)	pH (mg/l)	C1 (mg/l)	SO ₄ (mg/l)	Fecal coliform (#/100 ml)	TDS (mg/l)
0809 (continued)	0809.0100	Number of samples	26	26	24	20	20	16	13
		Minimum	6.7	5.6	7.6	30.0	11.0	1.0	240.0
		Maximum	32.8	12.1	8.6	62.8	63.0	73.0	352.0
		Average	22.1	9.1	8.2	35.9	25.4	5	297.9
		Standard Deviation	8.6	1.7	0.2	7.4	13.7	17.9	37.5
	0809.0200	Number of samples	12	12	12	5	5	3	5
		Minimum	7.2	6.5	7.4	30.1	20.0	1.0	260.0
		Maximum	33.2	11.9	8.6	42.3	29.0	10.0	324.0
		Average	23.6	8.9	8.1	34.5	23.7	4	291.6
		Standard Deviation	8.7	1.5	0.4	4.7	3.4	4.9	28.3
	0809.0220	Number of samples	13	13	13	5	5	3	5
		Minimum	7.4	6.5	7.6	31.1	19.0	1.0	124.0
		Maximum	33.3	12.1	8.7	40.4	28.0	14.0	308.0
		Average	23.8	9.6	8.2	33.7	23.3	5	231.0
		Standard Deviation	8.5	1.7	0.3	3.9	3.4	6.7	86.3
	0809.0230	Number of samples	13	13	13	5	5	3	5
		Minimum	7.7	5.9	7.5	29.2	21.0	1.0	230.0
		Maximum	33.3	12.8	8.7	40.7	28.0	51.0	680.0
		Average	24.1	9.3	8.2	34.0	23.9	8	354.4
		Standard Deviation	8.5	2.0	0.3	4.6	2.6	26.7	185.0

TABLE E-6

SUMMARY OF STANDARD WATER QUALITY PARAMETERS
UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Station	Sample measurement	Temp (oC)	DO (mg/l)	pH (mg/l)	C1 (mg/l)	SO ₄ (mg/l)	Fecal coliform (#/100 ml)	TDS (mg/l)
0809 (continued)	0809.0240	Number of samples	14	14	14	7	7	5	7
		Minimum	6.9	5.5	7.6	29.7	12	1	145
		Maximum	32	12.2	8.7	40.5	58	80	400
		Average	23.9	8.9	8.2	34.6	26.1	13	282.7
		Standard deviation	7.9	2.1	0.4	3.3	15.0	31.1	80.9
	0809.0250	Number of samples	15	15	15	7	7	4	7
		Minimum	6.7	6.2	7.5	29.1	12.0	1.0	250.0
		Maximum	32.2	11.9	8.7	44.5	29.0	19.0	356.0
		Average	24.4	9.0	8.2	34.0	21.5	5	290.7
		Standard deviation	7.8	1.9	0.4	5.6	5.4	7.9	32.3
	0809.0260	Number of samples	15	15	15	7	7	4	7
		Minimum	7.0	5.0	6.6	32.0	20.0	1.0	290.0
		Maximum	34.4	12.1	8.7	47.6	39.0	16.0	380.0
		Average	24.7	8.8	8.0	36.1	26.8	4	330.1
		Standard deviation	8.1	2.2	0.5	5.6	6.7	8.7	33.8
	0809.0300	Number of samples	18	18	18	13	13	11	13
		Minimum	7.8	6.8	7.6	30.0	8.9	1.0	170.0
		Maximum	32.6	12.2	8.8	64.5	58.0	50.0	332.0
		Average	21.2	9.5	8.2	37.1	24.5	7	284.6
		Standard deviation	9.2	1.7	0.3	9.2	12.5	13.6	40.8

TABLE E-6

SUMMARY OF STANDARD WATER QUALITY PARAMETERS
UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Station	Sample measurement	Temp (oC)	DO (mg/l)	pH (mg/l)	C1 (mg/l)	SO ₄ (mg/l)	Fecal coliform (#/100 ml)	TDS (mg/l)
0809 (continued)	0809.0310	Number of samples	13	13	13	7	7	5	7
		Minimum	6.8	6.8	7.6	30.1	10.0	1.0	205.0
		Maximum	33.2	12.2	8.6	52.5	59.0	44.0	352.0
		Average	24.1	9.0	8.2	35.4	26.3	5	278.7
		Standard deviation	8.6	1.7	0.3	7.9	15.7	197.4	51.8
	0809.0320	Number of samples	15	15	15	7	7	4	7
		Minimum	7	6.8	7.6	30.8	10	1	184
		Maximum	33.7	12.2	8.8	45.7	65	10	316
		Average	24.6	9.0	8.3	35.1	27.5	3	266.4
		Standard deviation	8.3	1.7	0.3	5.0	17.9	4.7	47.3
	0809.0330	Number of samples	15	15	15	7	7	5	7
		Minimum	7.2	5.5	7.5	29.6	11.0	1.0	260.0
		Maximum	34.2	13.0	8.7	44.0	61.0	372.0	388.0
		Average	24.7	8.3	8.2	34.7	26.9	15	314.6
		Standard deviation	8.3	2.2	0.4	4.6	16.6	160.7	49.6
	0809.0400	Number of samples	17	17	17	13	13	7	13
		Minimum	6.7	6.8	7.8	29.6	11.0	2.0	195.0
		Maximum	32.7	12.6	8.6	73.0	65.0	20.0	470.0
		Average	21.6	9.4	8.3	40.9	26.6	6	307.7
		Standard deviation	9.3	1.7	0.2	12.4	15.2	6.0	75.3

TABLE E-6

SUMMARY OF STANDARD WATER QUALITY PARAMETERS
UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Station	Sample measurement	Temp (°C)	DO (mg/l)	pH (mg/l)	C1 (mg/l)	SO ₄ (mg/l)	Fecal coliform (#/100 ml)	TDS (mg/l)
0809 (continued)	0809.0410	Number of samples	15	15	15	7	7	5	7
		Minimum	7.3	6.1	7.6	30.5	10.0	1.0	210.0
		Maximum	32.8	12.7	8.6	47.1	29.0	380.0	345.0
		Average	24.6	8.9	8.3	36.5	21.4	20	294.1
		Standard deviation	8.1	1.8	0.3	6.1	6.6	161.8	48.1
	0809.0420	Number of samples	6	6	6	3	3	1	-
		Minimum	8.0	7.0	8.0	33.3	17.0	10.0	-
		Maximum	32.3	12.2	8.6	65.6	29.0	10.0	-
		Average	20.9	10.0	8.4	45.0	22.7	10.0	-
		Standard deviation	10.7	1.8	0.2	17.9	6.0	-	-
	0809.0430	Number of samples	6	6	6	2	2	1	-
		Minimum	7.6	8.4	7.9	36.0	20.0	10.0	-
		Maximum	33.6	12.0	8.5	48.3	24.0	10.0	-
		Average	21.4	10.0	8.3	42.2	22.0	10.0	-
		Standard deviation	11.0	1.5	0.3	8.7	2.8	-	-
	0809.0500	Number of samples	18	18	18	13	13	11	13
		Minimum	6.4	6.7	7.6	30.4	9.0	1.0	54.0
		Maximum	33.3	12.9	8.5	78.6	62.0	100.0	1424.0
		Average	20.9	9.4	8.2	43.6	28.9	6	370.9
		Standard deviation	9.9	1.8	0.3	14.3	15.1	28.6	325.8

TABLE E-6

SUMMARY OF STANDARD WATER QUALITY PARAMETERS
UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Station	Sample measurement	Temp (oC)	DO (mg/l)	pH (mg/l)	C1 (mg/l)	SO ₄ (mg/l)	Fecal coliform (#/100 ml)	TDS (mg/l)
0809 (continued)	0809.0510	Number of samples	14	14	14	7	7	5	7
		Minimum	6.6	6.3	7.9	22.2	16.0	1.0	256.00
		Maximum	34.0	13.1	8.9	54.4	32.0	572.0	724.0
		Average	24.2	9.1	8.4	34.6	25.1	12	368.1
		Standard deviation	8.7	1.9	0.3	10.6	6.4	250.5	159.8
	0809.0520	Number of samples	15	15	15	7	7	5	7
		Minimum	6.9	4.3	7.5	28.7	9.0	1.0	252.0
		Maximum	34.3	12.8	8.5	55.3	30.0	652.0	680.0
		Average	24.9	8.4	8.2	38.8	22.5	12	405.1
		Standard deviation	8.4	2.2	0.3	8.4	7.4	285.3	187.6
	0809.0530	Number of samples	15	15	15	7	7	5	7
		Minimum	7.2	1.9	6.5	22.4	9.0	1.0	190.0
		Maximum	35.8	11.0	8.3	46.7	39.0	356.0	336.0
		Average	25.2	6.1	7.7	33.1	22.6	26	274.7
		Standard deviation	8.5	2.8	0.5	7.9	10.7	147.8	56.6
	0809.0600	Number of samples	19	19	19	13	13	11	13
		Minimum	6.4	5.8	7.6	30.5	16.0	1.0	240.0
		Maximum	33.9	12.3	8.6	96.2	66.0	3200.0	440.0
		Average	21.2	9.5	8.2	52.0	32.9	19	319.5
		Standard deviation	10.0	1.7	0.3	19.5	14.1	958.3	65.0

TABLE E-6

SUMMARY OF STANDARD WATER QUALITY PARAMETERS
UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Station	Sample measurement	Temp (oC)	DO (mg/l)	pH (mg/l)	C1 (mg/l)	SO ₄ (mg/l)	Fecal coliform (#/100 ml)	TDS (mg/l)
0809 (continued)	0809.0610	Number of samples	13	13	13	5	5	3	4
		Minimum	6.8	6.9	7.5	30.4	20.5	7.0	235.0
		Maximum	35.4	12.8	8.6	73.0	38.0	20.0	332.0
		Average	24.8	9.6	8.3	46.4	30.7	11	295.8
		Standard deviation	9.4	1.8	0.3	17.4	8.4	6.8	44.0
	0809.0700	Number of samples	17	17	17	13	13	11	12
		Minimum	6.7	5.5	6.9	28.8	9.0	1.0	220.0
		Maximum	31.4	14.6	8.7	112.1	75.0	1500.0	568.0
		Average	19.7	9.1	8.0	66.6	41.1	28	369.3
		Standard deviation	9.3	2.4	0.4	24.9	20.1	445.0	103.1
	F-20	Number of samples	91	0	95	95	0	54	0
		Minimum	4.4	-	7.4	22.0	-	2.0	-
		Maximum	31.1	-	9.1	67.0	-	480.0	-
		Average	19.2	-	8.3	48.8	-	13	-
		Standard deviation	8.1	-	0.2	10.9	-	86.5	-
	0800.0505	Number of samples	4	4	4	4	4	-	4
		Minimum	8.9	5.1	7.3	22.0	30.0	-	360.0
		Maximum	22.9	9.8	8.1	207.0	88.0	-	580.0
		Average	16.1	7.7	7.6	107.3	66.8	-	446.0
		Standard deviation	7.7	2.4	0.4	76.7	25.7	-	101.2

TABLE E-6

SUMMARY OF STANDARD WATER QUALITY PARAMETERS
UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Station	Sample measurement	Temp (oC)	DO (mg/l)	pH (mg/l)	C1 (mg/l)	SO ₄ (mg/l)	Fecal coliform (#/100 ml)	TDS (mg/l)
0809 (continued)	0800.0530	Number of samples	4	4	4	4	4	-	4
		Minimum	9.1	5.0	7.2	12.0	46.0	-	292.0
		Maximum	20.3	10.1	8.1	37.0	113.0	-	372.0
		Average	15.2	7.9	7.5	22.5	65.3	-	350.5
		Standard deviation	5.7	2.6	0.4	12.6	31.9	-	39.0
	0800.5225	Number of samples	2	2	2	2	2	-	2
		Minimum	8.4	9.4	7.7	19.0	17.0	-	280.0
		Maximum	10.4	9.7	8.0	32.0	46.0	-	372.0
		Average	9.4	9.6	7.9	25.5	31.5	-	326.0
		Standard deviation	1.4	0.2	0.2	9.2	20.5	-	65.1
	A-32	Number of samples	2	2	2	-	-	-	-
		Minimum	27.0	5.9	6.60	-	-	-	-
		Maximum	29.0	7.8	7.10	-	-	-	-
		Average	28.0	6.9	6.85	-	-	-	-
		Standard deviation	1.4	1.3	0.35	-	-	-	-
	A-33	Number of samples	2	2	2	-	-	-	-
		Minimum	26.5	6.2	7.5	-	-	-	-
		Maximum	27.5	7.5	7.7	-	-	-	-
		Average	27.0	6.9	7.6	-	-	-	-
		Standard deviation	0.7	0.9	0.1	-	-	-	-

TABLE E-6

SUMMARY OF STANDARD WATER QUALITY PARAMETERS
UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Station	Sample measurement	Temp (oC)	DO (mg/l)	pH (mg/l)	Cl (mg/l)	SO ₄ (mg/l)	Fecal coliform (#/100 ml)	TDS (mg/l)
<u>0809</u> (continued)	A-34	Number of samples	2	2	2	-	-	-	-
		Minimum	28.0	7.2	7.6	-	-	-	-
		Maximum	31.0	12.4	8.1	-	-	-	-
		Average	29.5	9.8	7.9	-	-	-	-
		Standard deviation	2.1	3.7	0.4	-	-	-	-
	A-35	Number of samples	2	2	2	-	-	-	-
		Minimum	28.0	5.3	7.3	-	-	-	-
		Maximum	33.0	12.6	7.4	-	-	-	-
		Average	30.5	9.0	7.4	-	-	-	-
		Standard deviation	3.5	5.2	0.1	-	-	-	-
	A-36	Number of samples	2	2	2	-	-	-	-
		Minimum	27.0	2.9	6.9	-	-	-	-
		Maximum	30.0	7.2	7.2	-	-	-	-
		Average	28.5	5.1	7.1	-	-	-	-
		Standard deviation	2.1	3.0	0.2	-	-	-	-
<u>0810</u>									
West Fork Trinity River-Eagle Mountain Lake Headwater to Bridgeport Dam	0810.0010	Number of samples	13	13	13	13	13	13	11
		Minimum	6.6	5.6	7.3	14.5	11.9	10.0	252.0
		Maximum	27.8	11.9	8.2	215.0	138.0	1000.0	764.0
		Average	18.2	7.9	7.8	86.3	69.0	114	577.1
		Standard deviation	7.6	2.2	0.3	62.6	37.0	337.4	171.8

TABLE E-6

SUMMARY OF STANDARD WATER QUALITY PARAMETERS
UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Station	Sample measurement	Temp (oC)	DO (mg/l)	pH (mg/l)	C1 (mg/l)	SO ₄ (mg/l)	Fecal coliform (#/100 ml)	TDS (mg/l)
<u>0810</u> (continued)	0810.0100	Number of samples	24	24	21	24	24	20	-
		Minimum	6.6	6.1	6.9	18.0	6.6	16.0	-
		Maximum	29.2	13.5	8.1	260.0	230.0	41,000.0	-
		Average	17.5	8.9	7.7	81.5	53.1	429	-
		Standard deviation	7.3	2.0	0.3	66.1	61.6	9,057.7	-
<u>0811</u>									
Lake Bridgeport Dam	0811.0100	Number of samples	8	8	6	7	7	5	-
		Minimum	9.2	5.7	8.0	18.0	3.0	1.0	-
		Maximum	31.1	11.3	8.6	36.0	20.2	40.0	-
		Average	24.5	7.9	8.3	25.6	11.7	4	-
		Standard deviation	7.6	1.9	0.2	6.6	6.7	16.8	-
	0811.0200	Number of samples	2	2	-	2	2	1	-
		Minimum	23.3	7.2	-	32.5	17.7	2.0	-
		Maximum	28.5	7.9	-	36.0	21.2	2.0	-
		Average	25.9	7.6	-	34.3	19.5	2.0	-
		Standard deviation	3.7	0.5	-	2.5	2.5	-	-
	08043000	Number of samples	4	-	-	5	5	-	5
		Minimum	8.5	-	-	15.0	11.0	-	134.0
		Maximum	34.0	-	-	36.0	23.0	-	216.0
		Average	19.5	-	-	25.6	17.2	-	172.6
		Standard deviation	10.7	-	-	8.3	5.1	-	34.3

TABLE E-6

SUMMARY OF STANDARD WATER QUALITY PARAMETERS
UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Station	Sample measurement	Temp (°C)	DO (mg/l)	pH (mg/l)	C1 (mg/l)	SO ₄ (mg/l)	Fecal coliform (#/100 ml)	TDS (mg/l)
0811 (continued)	A-1	Number of samples	2	2	2	-	-	-	-
		Minimum	26.5	6.7	7.4	-	-	-	-
		Maximum	29.7	7.1	8.1	-	-	-	-
		Average	28.1	6.9	7.8	-	-	-	-
		Standard deviation	2.3	0.3	0.5	-	-	-	-
	A-2	Number of samples	1	1	1	-	-	-	-
		Minimum	26.7	7.1	8.1	-	-	-	-
		Maximum	26.6	7.1	8.1	-	-	-	-
		Average	26.7	7.1	8.1	-	-	-	-
		Standard deviation	-	-	-	-	-	-	-
	A-3	Number of samples	2	2	2	-	-	-	-
		Minimum	26.7	7.2	8.0	-	-	-	-
		Maximum	30.1	7.3	8.2	-	-	-	-
		Average	28.4	7.3	8.1	-	-	-	-
		Standard deviation	2.4	0.1	0.1	-	-	-	-
	A-4	Number of samples	2	-	2	-	-	-	-
		Minimum	27.6	-	8.2	-	-	-	-
		Maximum	31.1	-	8.3	-	-	-	-
		Average	29.4	-	8.3	-	-	-	-
		Standard deviation	2.5	-	0.1	-	-	-	-

TABLE E-6

SUMMARY OF STANDARD WATER QUALITY PARAMETERS
UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Station	Sample measurement	Temp (oC)	DO (mg/l)	pH (mg/l)	Cl (mg/l)	SO ₄ (mg/l)	Fecal coliform (#/100 ml)	TDS (mg/l)
0829									
Clear Fork Trinity River Confluence in Benbrook Dam	0829.0100	Number of samples	23	23	19	23	23	19	-
		Minimum	3.0	4.7	6.9	14.0	4.3	18.0	-
		Maximum	32.0	16.2	8.1	53.0	100.0	2600.0	-
		Average	18.9	10.0	7.6	24.6	32.7	163	-
		Standard deviation	8.2	2.9	0.4	8.5	21.1	701.1	-
	F-10	Number of samples	66		70	70		58	-
		Minimum	2.2		7.6	19.0		1.0	-
		Maximum	33.3		8.9	55.0		4000.0	-
		Average	20.9		8.1	32.4		72	-
		Standard deviation	7.7		0.2	7.4		930.0	-
	F-11	Number of samples	71		75	75		55	-
		Minimum	5.0		7.5	18.0		5.0	-
		Maximum	34.4		8.6	78.0		2400.0	-
		Average	21.3		8.1	41.8		133	-
		Standard deviation	7.7		0.2	14.6		637.8	-
	F-12	Number of samples	70		74	74		58	-
		Minimum	4.0		7.3	19.0		3.0	-
		Maximum	33.9		8.6	90.0		4000.0	-
		Average	21.5		8.1	42.7		180	-
		Standard deviation	7.5		0.2	17.1		771.4	-

TABLE E-6

SUMMARY OF STANDARD WATER QUALITY PARAMETERS
UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Station	Sample measurement	Temp (°C)	DO (mg/l)	pH (mg/l)	Cl (mg/l)	SO ₄ (mg/l)	Fecal coliform (#/100 ml)	TDS (mg/l)
<u>0829</u> (continued)	08047000	Number of samples	6	6	6	6	6	-	6
		Minimum	8.5	6.2	7.4	15.0	17.0	-	174.0
		Maximum	30.0	11.1	8.5	23.0	31.0	-	236.0
		Average	19.9	8.4	7.8	19.2	25.3	-	197.2
		Standard deviation	9.2	2.1	0.4	2.7	5.6	-	22.0
<u>0830</u>									
Benbrook Reservoir	0830.0100	Number of samples	9	9	-	9	8	8	-
		Minimum	7.9	7.2	-	17.5	12.0	2.0	-
		Maximum	30.2	11.8	-	57.0	23.0	116.0	-
		Average	21.0	9.1	-	25.8	19.9	17	-
		Standard deviation	8.5	1.5	-	12.0	3.9	36.8	-
	0830.0600	Number of samples	8	8	-	-	-	-	-
		Minimum	20.5	8.0	-	-	-	-	-
		Maximum	26.0	10.2	-	-	-	-	-
		Average	23.1	8.6	-	-	-	-	-
		Standard deviation	1.9	0.7	-	-	-	-	-
	0830.0605	Number of samples	8	8	-	-	-	-	-
		Minimum	20.5	8.0	-	-	-	-	-
		Maximum	26.0	10.2	-	-	-	-	-
		Average	23.1	8.6	-	-	-	-	-
		Standard deviation	1.8	0.7	-	-	-	-	-

TABLE E-6

SUMMARY OF STANDARD WATER QUALITY PARAMETERS
UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Station	Sample measurement	Temp (oC)	DO (mg/l)	pH (mg/l)	Cl (mg/l)	SO ₄ (mg/l)	Fecal coliform (#/100 ml)	TDS (mg/l)
0830 (continued)	0830.0610	Number of samples	8	8	-	3	3	-	-
		Minimum	21.0	8.0	-	22.0	26.0	-	-
		Maximum	26.5	10.0	-	28.0	32.0	-	-
		Average	23.3	8.5	-	25.7	28.7	-	-
		Standard deviation	1.8	0.6	-	3.2	3.1	-	-
	0830.0615	Number of samples	8	8	-	-	-	-	-
		Minimum	21.0	8.0	-	-	-	-	-
		Maximum	26.5	10.0	-	-	-	-	-
		Average	23.3	8.6	-	-	-	-	-
		Standard deviation	1.8	0.6	-	-	-	-	-
	0830.0700	Number of samples	7	7	-	-	-	-	-
		Minimum	20.5	7.8	-	-	-	-	-
		Maximum	25.5	9.0	-	-	-	-	-
		Average	22.9	8.1	-	-	-	-	-
		Standard deviation	1.6	0.4	-	-	-	-	-
	0830.0705	Number of samples	8	8	-	-	-	-	-
		Minimum	20.5	7.7	-	-	-	-	-
		Maximum	26.0	10.2	-	-	-	-	-
		Average	22.6	8.3	-	-	-	-	-
		Standard deviation	1.8	0.9	-	-	-	-	-

TABLE E-6

SUMMARY OF STANDARD WATER QUALITY PARAMETERS
UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Station	Sample measurement	Temp (oC)	DO (mg/l)	pH (mg/l)	Cl (mg/l)	SO ₄ (mg/l)	Fecal coliform (#/100 ml)	TDS (mg/l)
0830 (continued)	0830.0710	Number of samples	8	4	-	3	3	-	-
		Minimum	20.5	7.6	-	22.0	23.0	-	-
		Maximum	25.5	8.0	-	23.0	27.0	-	-
		Average	22.6	7.9	-	22.3	25.3	-	-
		Standard deviation	1.7	0.2	-	0.6	2.1	-	-
	0830.0715	Number of samples	8	8	-	-	-	-	-
		Minimum	21.0	7.1	-	-	-	-	-
		Maximum	25.0	9.9	-	-	-	-	-
		Average	22.6	8.1	-	-	-	-	-
		Standard deviation	1.5	1.0	-	-	-	-	-
	0830.0800	Number of samples	8	8	-	-	-	-	-
		Minimum	20.5	7.9	-	-	-	-	-
		Maximum	26.0	10.2	-	-	-	-	-
		Average	22.8	8.4	-	-	-	-	-
		Standard deviation	1.8	0.8	-	-	-	-	-
	0830.0805	Number of samples	8	8	-	-	-	-	-
		Minimum	20.5	7.8	-	-	-	-	-
		Maximum	26.0	10.0	-	-	-	-	-
		Average	22.8	8.4	-	-	-	-	-
		Standard deviation	1.8	0.8	-	-	-	-	-

TABLE E-6

SUMMARY OF STANDARD WATER QUALITY PARAMETERS
UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Station	Sample measurement	Temp (oC)	DO (mg/l)	pH (mg/l)	C1 (mg/l)	SO ₄ (mg/l)	Fecal coliform (#/100 ml)	TDS (mg/l)
0830 (continued)	08046500 BC	Number of samples	9	9	9	9	9	5	9
		Minimum	7.0	5.9	7.8	17.0	20.0	1.0	170.0
		Maximum	30.5	11.1	8.7	26.0	32.0	1.0	231.0
		Average	20.5	8.9	8.2	20.9	26.0	1.0	191.0
		Standard deviation	9.8	1.7	0.3	3.1	4.4	-	18.4
	CL	Number of samples	9	9	9	-	-	-	-
		Minimum	7.0	7.1	7.1	-	-	-	-
		Maximum	31.0	11.1	8.5	-	-	-	-
		Average	20.3	9.2	8.1	-	-	-	-
		Standard deviation	9.7	1.6	0.4	-	-	-	-
	CR	Number of samples	9	9	9	-	-	-	-
		Minimum	7.0	7.1	7.7	-	-	-	-
		Maximum	31.0	11.6	8.8	-	-	-	-
		Average	20.4	9.2	8.2	-	-	-	-
		Standard deviation	9.8	1.7	0.4	-	-	-	-
	DC	Number of samples	9	9	9	9	9	1	9
		Minimum	7.5	7.3	7.8	17.0	23.0	1.0	174.0
		Maximum	31.5	11.4	8.7	25.0	32.0	1.0	209.0
		Average	20.4	9.1	8.2	21.3	26.4	1.0	195.8
		Standard deviation	9.8	1.7	0.3	2.7	3.2	-	12.0

TABLE E-6

SUMMARY OF STANDARD WATER QUALITY PARAMETERS
UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Station	Sample measurement	Temp (°C)	DO (mg/l)	pH (mg/l)	C1 (mg/l)	SO ₄ (mg/l)	Fecal coliform (#/100 ml)	TDS (mg/l)
<u>0830</u> (continued)	A-16	Number of samples	2	2	2	-	-	-	-
		Minimum	27.7	8.0	7.7	-	-	-	-
		Maximum	29.8	8.0	8.2	-	-	-	-
		Average	28.8	8.0	8.0	-	-	-	-
		Standard deviation	1.5	0.0	0.4	-	-	-	-
	A-17	Number of samples	2	2	2	-	-	-	-
		Minimum	27.6	7.7	8.1	-	-	-	-
		Maximum	30.0	7.8	8.4	-	-	-	-
		Average	28.8	7.8	8.3	-	-	-	-
		Standard deviation	1.7	0.1	0.2	-	-	-	-
	A-18	Number of samples	1	1	1	-	-	-	-
		Minimum	27.9	10.3	8.30	-	-	-	-
		Maximum	27.9	10.3	8.30	-	-	-	-
		Average	27.9	10.3	8.30	-	-	-	-
		Standard deviation							
	A-19	Number of samples	2	2	2	-	-	-	-
		Minimum	28.1	5.7	7.9	-	-	-	-
		Maximum	29.7	10.0	7.9	-	-	-	-
		Average	28.9	7.9	7.9	-	-	-	-
		Standard deviation	1.1	3.0	-	-	-	-	-

TABLE E-6

SUMMARY OF STANDARD WATER QUALITY PARAMETERS
UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Station	Sample measurement	Temp (oC)	DO (mg/l)	pH (mg/l)	C1 (mg/l)	SO ₄ (mg/l)	Fecal coliform (#/100 ml)	TDS (mg/l)
0830 (continued)	F-7	Number of samples	17	-	17	16	17	16	-
		Minimum	10.0	-	7.9	25.0	12.5	1.0	-
		Maximum	33.0	-	8.7	33.0	37.5	100.0	-
		Average	20.2	-	8.4	28.6	23.6	7	-
		Standard deviation	6.8	-	0.2	2.8	5.6	28.3	-
	F-8	Number of samples	17	-	16	16	17	16	-
		Minimum	8.0	-	8.3	25.0	16.4	1.0	-
		Maximum	32.0	-	8.7	33.0	35.0	100.0	-
		Average	20.0	-	8.5	29.4	23.0	6	-
		Standard deviation	6.7	-	0.1	2.7	4.8	25.2	-
	F-9	Number of samples	71	0	77	75	0	43	-
		Minimum	5.6	-	7.5	20.0	-	1.0	-
		Maximum	36.7	-	8.6	58.0	-	250.0	-
		Average	21.0	-	8.1	39.9	-	9	-
		Standard deviation	7.8	-	0.3	5.8	-	48.8	-
	F-1	Number of samples	14		14	14	14	13	
		Minimum	4.0		7.3	13.0	13.0	2.0	
		Maximum	31.0		8.3	32.0	57.0	180.0	
		Average	20.0		7.9	20.9	32.0	32	
		Standard deviation	7.7		0.3	5.5	13.3	65.6	

TABLE E-6

SUMMARY OF STANDARD WATER QUALITY PARAMETERS
UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Station	Sample measurement	Temp (oC)	DO (mg/L)	pH (mg/L)	C1 (mg/L)	SO ₄ (mg/L)	Fecal coliform (#/100 ml)	TDS (mg/L)
0830 (continued)	F-2	Number of samples	7	-	7	7	7	7	-
		Minimum	12.0	-	7.9	14.0	15.2	10.0	-
		Maximum	32.0	-	8.3	38.0	67.0	120.0	-
		Average	20.3	-	8.2	24.6	35.9	46	-
		Standard deviation	7.3	-	0.2	7.9	16.8	46.9	-
	F-3	Number of samples	13	-	13	13	13	13	-
		Minimum	4.0	-	8.0	12.0	13.5	1.0	-
		Maximum	33.0	-	8.5	30.0	105.0	720.0	-
		Average	20.1	-	8.3	20.5	43.0	26	-
		Standard deviation	8.3	-	0.2	6.0	27.2	199.2	-
	F-4	Number of samples	14	-	14	14	14	14	-
		Minimum	5.0	-	7.8	12.0	15.5	1.0	-
		Maximum	32.0	-	8.3	30.0	50.0	400.0	-
		Average	20.1	-	8.1	19.9	30.5	15	-
		Standard deviation	7.6	-	0.2	5.1	11.6	113.6	-
	F-5	Number of samples	16	-	16	15	16	15	-
		Minimum	5.0	-	8.1	27.0	20.2	2.0	-
		Maximum	35.0	-	8.6	77.0	51.0	360.0	-
		Average	19.4	-	8.3	50.1	36.1	47	-
		Standard deviation	7.8	-	0.2	13.0	8.8	129.5	-

TABLE E-6

SUMMARY OF STANDARD WATER QUALITY PARAMETERS
UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Station	Sample measurement	Temp (oC)	DO (mg/l)	pH (mg/l)	C1 (mg/l)	SO ₄ (mg/l)	Fecal coliform (#/100 ml)	TDS (mg/l)
<u>0831</u> (continued)	A-27	Number of samples	2	2	2	-	-	-	-
		Minimum	24.5	6.0	7.20	-	-	-	-
		Maximum	26.0	7.8	7.70	-	-	-	-
		Average	25.3	6.9	7.45	-	-	-	-
		Standard deviation	1.1	1.3	0.35	-	-	-	-
	A-28	Number of samples	2	2	2	-	-	-	-
		Minimum	25.0	4.5	6.90	-	-	-	-
		Maximum	26.0	5.7	7.40	-	-	-	-
		Average	25.5	5.1	7.15	-	-	-	-
		Standard deviation	0.7	0.8	0.35	-	-	-	-
	A-29	Number of samples	2	2	2	-	-	-	-
		Minimum	25.0	6.0	7.50	-	-	-	-
		Maximum	26.0	6.1	7.60	-	-	-	-
		Average	25.5	6.1	7.55	-	-	-	-
		Standard deviation	0.7	0.1	0.07	-	-	-	-
	A-30	Number of samples	2	2	2	-	-	-	-
		Minimum	24.5	6.9	7.60	-	-	-	-
		Maximum	26.0	6.9	7.80	-	-	-	-
		Average	25.3	6.9	7.70	-	-	-	-
		Standard deviation	1.1	0.0	0.14	-	-	-	-

TABLE E-6

SUMMARY OF STANDARD WATER QUALITY PARAMETERS
UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Station	Sample measurement	Temp (oC)	DO (mg/l)	pH (mg/l)	Cl (mg/l)	SO ₄ (mg/l)	Fecal coliform (#/100 ml)	TDS (mg/l)
<u>0830</u> (continued)	F-6	Number of samples	10	-	10	10	10	10	-
		Minimum	12.0	-	7.670	12.0	10.6	10.0	-
		Maximum	32.0	-	8.350	24.0	41.5	540.0	-
		Average	22.2	-	8.007	17.1	24.0	70	-
		Standard deviation	6.4	-	0.230	4.2	9.6	202.5	-
<u>0831</u>									
Clear Fork Trinity River-Benbrook Reservoir Headwater to Weatherford	0831.0100	Number of samples	20	20	17	20	20	19	-
		Minimum	5.5	2.8	7.1	23.0	5.5	11.0	-
		Maximum	33.0	12.0	9.4	78.0	104.0	7000.0	-
		Average	18.9	8.0	7.8	45.0	41.6	286	-
		Standard deviation	6.8	2.4	0.5	15.1	26.6	1944.4	-
	08045850	Number of samples	12	11	12	12	12		12
		Minimum	5.5	4.0	7.5	10.0	5.0		132.0
		Maximum	24.5	10.8	8.1	40.0	49.0		430.0
		Average	17.2	7.1	7.8	30.0	31.8		311.3
		Standard deviation	6.7	2.1	0.2	9.2	14.7		102.0
	A-26	Number of samples	2	2	2	-	-	-	-
		Minimum	24.1	5.0	7.4	-	-	-	-
		Maximum	25.5	6.2	7.7	-	-	-	-
		Average	24.8	5.6	7.6	-	-	-	-
		Standard deviation	1.0	0.8	0.2	-	-	-	-

TABLE E-6

SUMMARY OF STANDARD WATER QUALITY PARAMETERS
UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Station	Sample measurement	Temp (oC)	DO (mg/l)	pH (mg/l)	C1 (mg/l)	SO ₄ (mg/l)	Fecal coliform (#/100 ml)	TDS (mg/l)
0831 (continued)	A-31	Number of samples	2	2	2	-	-	-	-
		Minimum	24.5	7.0	7.40	-	-	-	-
		Maximum	26.0	7.2	7.90	-	-	-	-
		Average	25.3	7.1	7.65	-	-	-	-
		Standard deviation	1.1	0.1	0.35	-	-	-	-
Tributaries of the Clear Fork	A-20	Number of samples	2	2	2	-	-	-	-
		Minimum	25.3	6.4	7.90	-	-	-	-
		Maximum	26.7	6.6	8.00	-	-	-	-
		Average	26.0	6.5	7.95	-	-	-	-
		Standard deviation	1.0	0.1	0.07	-	-	-	-
	A-21	Number of samples	2	2	2	-	-	-	-
		Minimum	25.4	5.6	7.40	-	-	-	-
		Maximum	26.2	6.7	8.00	-	-	-	-
		Average	25.8	6.2	7.70	-	-	-	-
		Standard deviation	0.6	0.8	0.42	-	-	-	-
	A-22	Number of samples	2	1	1	-	-	-	-
		Minimum	25.0	7.9	8.10	-	-	-	-
		Maximum	27.2	7.9	8.10	-	-	-	-
		Average	26.1	7.9	8.10	-	-	-	-
		Standard deviation	1.6	-	-	-	-	-	-

TABLE E-6

SUMMARY OF STANDARD WATER QUALITY PARAMETERS
UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Station	Sample measurement	Temp (oC)	DO (mg/l)	pH (mg/l)	C1 (mg/l)	SO ₄ (mg/l)	Fecal coliform (#/100 ml)	TDS (mg/l)
<u>0831</u> (continued)	A-23	Number of samples	2	2	2	-	-	-	-
		Minimum	25.5	6.4	7.90	-	-	-	-
		Maximum	28.1	7.3	8.00	-	-	-	-
		Average	26.8	6.9	7.95	-	-	-	-
		Standard deviation	1.8	0.6	0.07	-	-	-	-
	A-24	Number of samples	2	2	2	-	-	-	-
		Minimum	24.3	6.5	7.80	-	-	-	-
		Maximum	26.9	6.5	7.90	-	-	-	-
		Average	25.6	6.5	7.85	-	-	-	-
		Standard deviation	1.8	0.0	0.07	-	-	-	-
	A-25	Number of samples	2	2	2	-	-	-	-
		Minimum	24.9	6.3	7.90	-	-	-	-
		Maximum	29.0	6.8	8.20	-	-	-	-
		Average	27.0	6.6	8.05	-	-	-	-
		Standard deviation	2.9	0.4	0.21	-	-	-	-
<u>0832</u>									
Lake Weatherford	0832.0100	Number of samples	4	4	4	4	4	4	-
		Minimum	10.9	7.3	7.4	17.0	18.0	14.0	-
		Maximum	29.7	11.9	8.5	48.0	37.0	136.0	-
		Average	20.1	9.1	8.0	32.8	27.3	48	-
		Standard deviation	10.2	2.2	0.5	17.1	8.8	56.3	-

TABLE E-6

SUMMARY OF STANDARD WATER QUALITY PARAMETERS
UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Station	Sample measurement	Temp (°C)	DO (mg/l)	pH (mg/l)	C1 (mg/l)	SO ₄ (mg/l)	Fecal coliform (#/100 ml)	TDS (mg/l)
0832 (continued)	A-11	Number of samples	2	2	2	-	-	-	-
		Minimum	29.3	6.8	7.2	-	-	-	-
		Maximum	29.3	7.2	8.2	-	-	-	-
		Average	29.3	7.0	7.7	-	-	-	-
		Standard deviation	-	0.3	0.7	-	-	-	-
	A-12	Number of samples	1	1	1	-	-	-	-
		Minimum	29.7	7.7	8.3	-	-	-	-
		Maximum	29.7	7.7	8.3	-	-	-	-
		Average	29.7	7.7	8.3	-	-	-	-
		Standard deviation							
	A-13	Number of samples	2	2	2	-	-	-	-
		Minimum	29.8	7.3	8.1	-	-	-	-
		Maximum	30.5	7.3	8.2	-	-	-	-
		Average	30.2	7.3	8.2	-	-	-	-
		Standard deviation	0.5	0.0	0.1	-	-	-	-
	A-14	Number of samples	1	1	1	-	-	-	-
		Minimum	30.6	7.3	8.2	-	-	-	-
		Maximum	30.6	7.3	8.2	-	-	-	-
		Average	30.6	7.3	8.2	-	-	-	-
		Standard deviation							

TABLE E-6

SUMMARY OF STANDARD WATER QUALITY PARAMETERS
UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Station	Sample measurement	Temp (°C)	DO (mg/l)	pH (mg/l)	Cl (mg/l)	SO ₄ (mg/l)	Fecal coliform (#/100 ml)	TDS (mg/l)
<u>0832</u> (continued)	A-15	Number of samples	2	2	2	-	-	-	-
		Minimum	29.8	7.2	8.2	-	-	-	-
		Maximum	31.0	7.5	8.3	-	-	-	-
		Average	30.4	7.4	8.3	-	-	-	-
		Standard deviation	0.8	0.2	0.1	-	-	-	-
<u>0833</u>									
Clear Fork Trinity River above Lake Weatherford	0833.0100	Number of samples	19	19	16	19	19	16	-
		Minimum	5.7	4.7	7.2	19.0	5.0	20.0	-
		Maximum	31.0	11.7	8.5	158.0	168.0	35,000	-
		Average	17.6	8.4	7.7	109.0	78.6	769	-
		Standard deviation	7.0	1.7	0.4	36.9	47.1	9073.0	-

TABLE E-7

SUMMARY OF NUTRIENT LEVELS BY SEGMENT
UPPER TRINITY RIVER BASIN

Stream segment	Sample measurement	TKN (1)	Amm-N (1)	NO2-N (1)	NO3-N (1)	NO3-N and NO2-N (1)	Total Phosphorus (2)	Dissolved Ortho- Phosphorus (2)
<u>0807</u>								
Lake Worth	Number of samples	4	13	4	13	-	13	13
	Minimum	.85	0.01	.002	0.01	-	0.01	0.01
	Maximum	1.70	0.31	.003	0.19	-	0.10	0.03
	Average	1.14	0.145	.00225	0.041	-	0.035	0.01
<u>0808</u>								
West Fork of Trinity River -Lake Worth to Eagle Mountain Dam	Number of samples	13	32	13	32	-	32	32
	Minimum	1.10	0.01	0.001	0.01	-	0.01	0.01
	Maximum	7.70	0.92	0.05	1.71	-	8.80	0.29
	Average	3.28	0.12	0.01	0.19	-	0.35	0.03
<u>0809</u>								
Eagle Mountain Reservoir	Number of samples	186	194	182	63	-	193	192
	Minimum	0.1	0.01	.001	0.01	-	0.01	0.01
	Maximum	11.9	0.78	.21	1.2	-	0.90	0.5
	Average	2.8	0.09	.01	0.25	-	0.07	0.03

(1) Mg/l as N

(2) Mg/l as P

TABLE E-7

SUMMARY OF NUTRIENT LEVELS BY SEGMENT
UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Sample measurement	TKN (1)	Amm-N (1)	NO ₂ -N (1)	NO ₃ -N (1)	NO ₃ -N and NO ₂ -N (1)	Total Phosphorus (2)	Dissolved Ortho- Phosphorus (2)
<u>0810</u>								
West Fork Trinity River	Number of samples	13	37	13	37	-	37	37
-Eagle Mountain Lake	Minimum	0.61	0.01	.001	0.01	-	0.04	0.01
Headwater to Bridgeport Dam	Maximum	16.8	1.00	.070	5.01	-	0.50	0.38
	Average	4.62	0.12	.020	0.37	-	0.20	0.07
<u>0811</u>								
Lake Bridgeport Dam	Number of samples	8	17	7	17	-	17	17
	Minimum	0.81	0.01	.002	0.02	-	.01	0.01
	Maximum	1.23	0.12	.002	0.20	-	0.04	0.02
	Average	0.95	0.06	.002	0.4	-	0.02	0.01
<u>0812</u>								
West Fork Trinity River	Number of samples	-	20	-	20	-	20	20
above Lake Bridgeport	Minimum	-	0.02	-	0.02	-	0.04	0.01
	Maximum	-	0.29	-	1.19	-	0.74	0.12
	Average	-	0.10	-	0.25	-	0.25	0.03

(1) Mg/l as N

(2) Mg/l as P

TABLE E-7

SUMMARY OF NUTRIENT LEVELS BY SEGMENT
UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Sample measurement	TKN (1)	Amm-N (1)	NO2-N (1)	NO3-N (1)	NO3-N and NO2-N (1)	Total Phosphorus (2)	Dissolved Ortho-Phosphorus (2)
<u>0828</u>								
Lake Arlington	Number of samples	48	92	58	88	67	114	51
	Minimum	0.40	0.0	.01	0.0	.01	0.00	0.00
	Maximum	1.90	10.0	.05	0.8	.40	0.30	0.10
	Average	0.79	0.48	.01	0.1	.11	0.03	0.01
<u>0829</u>								
Clear Fork Trinity River Confluence in Benbrook Dam	Number of samples	6	29	5	26	-	29	23
	Minimum	0.07	0.02	.01	0.02	-	0.01	0.01
	Maximum	2.82	0.95	.02	0.49	-	0.32	0.05
	Average	1.16	0.15	.02	0.17	-	0.07	0.02
<u>0830</u>								
Benbrook Reservoir	Number of samples	59	59	37	41	23	84	54
	Minimum	0.02	0.001	.001	.002	.01	.003	.001
	Maximum	8.5	.56	.10	.79	.29	.54	.12
	Average	1.70	0.04	.02	0.08	.12	.08	.03

(1) Mg/l as N

(2) Mg/l as P

TABLE E-7

SUMMARY OF NUTRIENT LEVELS BY SEGMENT
UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Sample measurement	TKN (1)	Amm-N (1)	NO2-N (1)	NO3-N (1)	NO3-N and NO2-N (1)	Total Phosphorus (2)	Dissolved Ortho- Phosphorus (2)
<u>0831</u>								
Clear Fork Trinity River	Number of samples	18	44	20	38	-	43	33
-Benbrook Reservoir	Minimum	.50	.02	.01	.01	-	.01	.01
Headwater to Weatherford	Maximum	2.94	1.25	.45	1.67	-	3.01	2.91
	Average	1.20	0.21	.09	0.39	-	0.79	0.86
<u>0832</u>								
Lake Weatherford	Number of samples	8	12	8	12	-	12	12
	Minimum	0.63	0.02	.01	0.01	-	0.01	0.01
	Maximum	1.30	0.12	.02	0.80	-	0.13	0.03
	Average	0.90	0.04	.01	0.12	-	0.04	0.02
<u>0833</u>								
Clear Fork Trinity River	Number of samples	-	19	-	18	-	19	19
above Lake Weatherford	Minimum	-	0.02	-	0.01	-	0.02	0.01
	Maximum	-	0.36	-	1.34	-	0.37	0.16
	Average	-	0.09	-	0.13	-	0.12	0.03

(1) Mg/l as N

(2) Mg/l as P

TABLE E-8

SUMMARY OF NUTRIENT LEVELS
UPPER TRINITY RIVER BASIN

Stream segment	Station	Sample measurement	TKN (1)	Amn-N (1)	NO2-N (1)	NO3-N (1)	NO3-N and NO2-N (1)	Total Phosphorus (2)	Dissolved Ortho- Phosphorus (2)
<u>0807</u>									
Lake Worth	0807.0100	Number of samples	-	9	-	9	-	9	9
		Minimum	-	0.01	-	0.01	-	0.01	0.01
		Maximum	-	0.21	-	0.19	-	0.10	0.03
		Average	-	0.08	-	0.05	-	0.04	0.01
		Standard deviation	-	0.06	-	0.06	-	0.03	0.01
	A-6	Number of samples	1	1	1	1	-	1	1
		Minimum	0.85	0.30	0.002	0.02	-	0.01	0.01
		Maximum	0.85	0.30	0.002	0.02	-	0.01	0.01
		Average	0.85	0.30	0.002	0.02	-	0.01	0.01
		Standard deviation	-	-	-	-	-	-	-
	A-7	Number of samples	1	1	1	1	-	1	1
		Minimum	0.95	0.31	0.002	0.02	-	0.02	0.01
		Maximum	0.95	0.31	0.002	0.02	-	0.02	0.01
		Average	0.95	0.31	0.002	0.02	-	0.02	0.01
		Standard deviation	-	-	-	-	-	-	-
	A-9	Number of samples	1	1	1	1	-	1	1
		Minimum	1.06	0.29	0.002	0.02	-	0.02	0.01
		Maximum	1.06	0.29	0.002	0.02	-	0.02	0.01
		Average	1.06	0.29	0.002	0.02	-	0.02	0.01
		Standard deviation	-	-	-	-	-	-	-

(1) Mg/l as N

(2) Mg/l as P

TABLE E-8

SUMMARY OF NUTRIENT LEVELS
UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Station	Sample measurement	TKN (1)	Amn-N (1)	NO2-N (1)	NO3-N (1)	NO3-N and NO2-N (1)	Total Phosphorus (2)	Dissolved Ortho- Phosphorus (2)	
<u>0807</u> (continued)	A-10	Number of samples	1	1	1	1	-	1	1	
		Minimum	1.70	0.26	0.003	0.02	-	0.04	0.01	
		Maximum	1.70	0.26	0.003	0.02	-	0.04	0.01	
		Average	1.70	0.26	0.003	0.02	-	0.04	0.01	
		Standard deviation								
	F-17	Number of samples	-	-	-	-	-	-	-	-
		Minimum	-	-	-	-	-	-	-	-
		Maximum	-	-	-	-	-	-	-	-
		Average	-	-	-	-	-	-	-	-
		Standard deviation	-	-	-	-	-	-	-	-
	F-19	Number of samples	-	-	-	-	-	-	-	-
		Minimum	-	-	-	-	-	-	-	-
		Maximum	-	-	-	-	-	-	-	-
		Average	-	-	-	-	-	-	-	-
		Standard deviation	-	-	-	-	-	-	-	-
<u>0808</u>										
West Fork of Trinity River-Lake Worth to Eagle Mountain Dam	0808.0100	Number of samples	13	32	13	32	-	32	32	
		Minimum	1.10	0.01	0.001	0.01	-	0.01	0.01	
		Maximum	7.70	0.92	0.05	1.71	-	8.80	0.29	
		Average	3.28	0.12	0.01	0.19	-	0.35	0.03	
		Standard deviation	1.91	0.18	0.01	0.34	-	1.54	0.06	

(1) Mg/l as N

(2) Mg/l as P

TABLE E-8

SUMMARY OF NUTRIENT LEVELS
UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Station	Sample measurement	TKN (1)	Amn-N (1)	NO2-N (1)	NO3-N (1)	NO3-N and NO2-N (1)	Total Phosphorus (2)	Dissolved Ortho- Phosphorus (2)
0808 (continued)	F-18	Number of samples	-	-	-	-	-	-	-
		Minimum	-	-	-	-	-	-	-
		Maximum	-	-	-	-	-	-	-
		Average	-	-	-	-	-	-	-
		Standard deviation	-	-	-	-	-	-	-
<u>0809</u>									
Eagle Mountain Reservoir	0809.0010	Number of samples	13	13	13	13	-	13	12
		Minimum	0.9	0.01	0.001	0.01	-	0.01	0.01
		Maximum	7.1	0.78	0.211	0.33	-	0.2	0.04
		Average	3.2	0.11	0.02	0.06	-	0.06	0.02
		Standard deviation	1.9	0.2	0.1	0.1	-	0.1	0.01
	0809.0100	Number of samples	14	20	13	20	-	20	20
		Minimum	0.50	0.01	0.001	0.01	-	0.01	0.01
		Maximum	8.60	0.76	0.05	0.62	-	0.07	0.07
		Average	2.60	0.13	0.01	0.10	-	0.04	0.02
		Standard deviation	2.30	0.18	0.01	0.19	-	0.02	0.02
	0809.0200	Number of samples	5	5	5	5	-	5	5
		Minimum	1.40	0.01	0.001	0.01	-	0.01	0.01
		Maximum	4.40	0.22	0.02	0.01	-	0.16	0.04
		Average	2.30	0.07	0.01	0.01	-	0.05	0.02
		Standard deviation	1.20	0.09	0.01	-	-	0.06	0.01

(1) Mg/l as N (2) Mg/l as P

TABLE E-8

SUMMARY OF NUTRIENT LEVELS
UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Station	Sample measurement	TKN (1)	Amm-N (1)	NO2-N (1)	NO3-N (1)	NO3-N and NO2-N (1)	Total Phosphorus (2)	Dissolved Ortho- Phosphorus (2)
0809 (continued)	0809.0220	Number of samples	5	5	5	5	-	5	5
		Minimum	1.30	0.01	0.001	0.01	-	0.02	0.01
		Maximum	9.20	0.21	0.01	0.01	-	0.08	0.03
		Average	3.84	0.07	0.003	0.01	-	0.04	0.01
		Standard deviation	3.27	0.09	0.004	-	-	0.03	0.01
	0809.0230	Number of samples	5	5	5	5	-	5	5
		Minimum	0.80	0.01	0.001	0.01	-	0.01	0.01
		Maximum	4.40	0.20	0.01	0.01	-	0.08	0.04
		Average	2.50	0.07	0.003	0.01	-	0.05	0.02
		Standard deviation	1.35	0.08	0.004	-	-	0.03	0.01
	0809.0240	Number of samples	7	7	7	7	-	7	7
		Minimum	1.6	0.01	0.001	0.01	-	0.01	0.01
		Maximum	4.2	0.45	0.03	0.71	-	0.08	0.08
		Average	2.8	0.1	0.01	0.15	-	0.05	0.03
		Standard deviation	0.8	0.2	0.01	0.27	-	0.03	0.03
	0809.0250	Number of samples	7	8	7	8	-	7	7
		Minimum	1.00	0.01	0.001	0.01	-	0.04	0.01
		Maximum	3.90	0.20	0.02	0.30	-	0.42	0.08
		Average	2.29	0.06	0.01	0.05	-	0.11	0.03
		Standard deviation	1.05	0.07	0.01	0.11	-	0.14	0.03

(1) Mg/l as N

(2) Mg/l as P

TABLE E-8

SUMMARY OF NUTRIENT LEVELS
UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Station	Sample measurement	TKN (1)	Amm-N (1)	NO2-N (1)	NO3-N (1)	NO3-N and NO2-N (1)	Total Phosphorus (2)	Dissolved Ortho- Phosphorus (2)
0809 (continued)	0809.0260	Number of samples	7	7	7	7	-	7	7
		Minimum	1.70	0.01	0.001	0.01	-	0.04	0.03
		Maximum	4.30	0.36	0.02	0.30	-	0.90	0.50
		Average	2.67	0.09	0.01	0.09	-	0.26	0.15
		Standard deviation	0.83	0.12	0.01	0.13	-	0.30	0.17
	0809.0300	Number of samples	13	13	13	13	-	13	13
		Minimum	0.19	0.01	0.001	0.01	-	0.01	0.01
		Maximum	6.50	0.18	0.02	0.37	-	0.21	0.08
		Average	2.72	0.06	0.00	0.09	-	0.05	0.02
		Standard deviation	1.95	0.06	0.01	0.15	-	0.05	0.02
	0809.0310	Number of samples	7	7	7	7	-	7	7
		Minimum	0.90	0.02	0.001	0.01	-	0.01	0.01
		Maximum	5.00	0.31	0.01	0.54	-	0.05	0.03
		Average	2.46	0.09	0.003	0.09	-	0.04	0.01
		Standard deviation	1.31	0.10	0.003	0.20	-	0.02	0.01
	0809.0320	Number of samples	7	7	7	7	-	7	7
		Minimum	0.4	0.01	0.001	0.01	-	0.01	0.01
		Maximum	5	0.21	0.01	0.37	-	0.1	0.04
		Average	1.9	0.1	0.003	0.1	-	0.04	0.02
		Standard deviation	1.6	0.1	0.003	0.2	-	0.03	0.01

(1) Mg/l as N

(2) Mg/l as P

TABLE E-8

SUMMARY OF NUTRIENT LEVELS
UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Station	Sample measurement	TKN (1)	Amn-N (1)	NO2-N (1)	NO3-N (1)	NO3-N and NO2-N (1)	Total Phosphorus (2)	Dissolved Ortho- Phosphorus (2)
0809 (continued)	0809.0330	Number of samples	7	7	7	7	-	7	7
		Minimum	0.30	0.01	0.001	0.01	-	0.01	0.01
		Maximum	4.80	0.31	0.14	1.03	-	0.15	0.14
		Average	2.96	0.12	0.02	0.18	-	0.07	0.05
		Standard deviation	1.55	0.11	0.05	0.38	-	0.05	0.05
	0809.0400	Number of samples	13	13	13	13	0	13	13
		Minimum	0.50	0.01	0.001	0.01	-	0.01	0.01
		Maximum	6.10	0.20	0.05	0.50	-	0.05	0.02
		Average	2.50	0.07	0.01	0.06	-	0.05	0.02
		Standard deviation	1.64	0.06	0.01	0.14	-	0.02	0.02
	0809.0410	Number of samples	7	7	7	7	-	7	7
		Minimum	0.70	0.02	0.001	0.01	-	0.02	0.01
		Maximum	3.00	0.18	0.01	0.80	-	0.07	0.03
		Average	1.97	0.07	0.003	0.16	-	0.04	0.02
		Standard deviation	0.80	0.06	0.003	0.30	-	0.02	0.01
	0809.0420	Number of samples	3	3	3	3	-	3	3
		Minimum	0.70	0.02	0.001	0.01	-	0.02	0.01
		Maximum	2.80	0.26	0.01	0.05	-	0.05	0.03
		Average	1.60	0.13	0.004	0.02	-	0.03	0.02
		Standard deviation	1.08	0.12	0.005	0.02	-	0.02	0.01

(1) Mg/l as N

(2) Mg/l as P

TABLE E-8
SUMMARY OF NUTRIENT LEVELS
UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Station	Sample measurement	TKN (1)	Amm-N (1)	NO2-N (1)	NO3-N (1)	NO3-N and NO2-N (1)	Total Phosphorus (2)	Dissolved Ortho- Phosphorus (2)
0809 (continued)	0809.0430	Number of samples	2	2	2	2	-	2	2
		Minimum	0.5	0.1	0.003	0.01	-	0.04	0.04
		Maximum	2.8	0.2	0.012	0.01	-	0.12	0.12
		Average	1.7	0.1	0.008	0.01	-	0.08	0.08
		Standard deviation	1.6	0.1	0.006	0.00	-	0.06	0.06
	0809.0500	Number of samples	13	13	13	13	-	13	13
		Minimum	0.50	0.01	0.001	0.01	-	0.01	0.01
		Maximum	7.30	0.27	0.06	0.16	-	0.09	0.09
		Average	3.14	0.07	0.01	0.04	-	0.05	0.03
		Standard deviation	2.10	0.08	0.02	0.05	-	0.03	0.03
	0809.0510	Number of samples	7	7	7	7	-	7	7
		Minimum	0.70	0.01	0.001	0.01	-	0.02	0.01
		Maximum	7.90	0.21	0.01	0.93	-	0.11	0.04
		Average	3.56	0.07	0.005	0.18	-	0.06	0.02
		Standard deviation	2.50	0.07	0.004	0.34	-	0.03	0.01
	0809.0520	Number of samples	7	7	6	7	-	7	7
		Minimum	0.80	0.01	0.001	0.01	-	0.01	0.01
		Maximum	7.80	0.18	0.20	0.20	-	0.10	0.05
		Average	2.84	0.06	0.03	0.05	-	0.05	0.02
		Standard deviation	2.34	0.06	0.07	0.07	-	0.03	0.02

(1) Mg/l as N

(2) Mg/l as P

TABLE E-8

SUMMARY OF NUTRIENT LEVELS
UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Station	Sample measurement	TKN (1)	Amn-N (1)	NO2-N (1)	NO3-N (1)	NO3-N and NO2-N (1)	Total Phosphorus (2)	Dissolved Ortho- Phosphorus (2)
<u>0809</u> (continued)	0809.0530	Number of samples	7	7	7	7	-	7	7
		Minimum	0.70	0.02	0.001	0.01	-	0.01	0.01
		Maximum	6.90	0.22	0.01	1.20	-	0.06	0.04
		Average	2.74	0.10	0.003	0.21	-	0.04	0.02
		Standard deviation	2.09	0.08	0.003	0.44	-	0.02	0.01
	0809.0600	Number of samples	13	13	13	13	-	13	13
		Minimum	0.2	0.01	0.001	0.01	-	0.03	0.01
		Maximum	11.9	0.43	0.05	0.15	-	0.19	0.08
		Average	3.1	0.08	0.01	0.03	-	0.08	0.04
		Standard deviation	3.4	0.12	0.02	0.05	-	0.04	0.02
	0809.0610	Number of samples	5	5	3	5	-	5	5
		Minimum	2.00	0.01	0.01	0.01	-	0.04	0.01
		Maximum	5.40	0.24	0.01	0.10	-	0.11	0.08
		Average	3.32	0.10	0.01	0.03	-	0.08	0.05
		Standard deviation	1.36	0.09	0.00	0.04	-	0.03	0.03
	0809.0700	Number of samples	12	13	12	13	-	13	13
		Minimum	0.10	0.02	0.001	0.01	-	0.04	0.02
		Maximum	7.40	0.41	0.05	0.20	-	0.35	0.15
		Average	2.92	0.12	0.01	0.04	-	0.12	0.07
		Standard deviation	2.33	0.12	0.02	0.06	-	0.08	0.04

(1) Mg/l as N

(2) Mg/l as P

TABLE E-8

SUMMARY OF NUTRIENT LEVELS
UPPER TRINITY RIVER BASIN

Stream segment	Station	Sample measurement	TKN (1)	Amn-N (1)	NO2-N (1)	NO3-N (1)	NO3-N and NO2-N (1)	Total Phosphorus (2)	Dissolved Ortho- Phosphorus (2)
<u>0809</u> (continued)	F-20	Number of samples	-	-	-	-	-	-	-
		Minimum	-	-	-	-	-	-	-
		Maximum	-	-	-	-	-	-	-
		Average	-	-	-	-	-	-	-
		Standard deviation	-	-	-	-	-	-	-
	0800.0505	Number of samples	4	4	4	4	-	4	4
		Minimum	0.90	0.01	0.001	0.01	-	0.08	0.04
		Maximum	5.70	0.56	0.04	0.37	-	0.29	0.28
		Average	2.33	0.16	0.02	0.15	-	0.14	0.12
		Standard deviation	2.28	0.27	0.02	0.17	-	0.10	0.11
	0800.0510	Number of samples	6	6	6	6	-	6	6
		Minimum	0.60	0.01	0.001	0.01	-	0.04	0.03
		Maximum	6.10	1.06	0.07	0.26	-	0.24	0.24
		Average	3.14	0.26	0.02	0.05	-	0.12	0.09
		Standard deviation	2.14	0.41	0.03	0.10	-	0.08	0.08
	0800.0515	Number of samples	6	6	6	6	-	6	6
		Minimum	0.48	0.01	0.001	0.01	-	0.02	0.01
		Maximum	3.40	0.93	0.02	0.29	-	0.10	0.06
		Average	1.38	0.22	0.01	0.07	-	0.06	0.04
		Standard deviation	1.13	0.35	0.01	0.11	-	0.03	0.02

(1) Mg/l as N

(2) Mg/l as P

TABLE E-8

SUMMARY OF NUTRIENT LEVELS
UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Station	Sample measurement	TKN (1)	Amm-N (1)	NO2-N (1)	NO3-N (1)	NO3-N and NO2-N (1)	Total Phosphorus (2)	Dissolved Ortho- Phosphorus (2)
0809 (continued)	0800.0520	Number of samples	4	4	4	4	-	4	4
		Minimum	1.00	0.01	0.01	0.01	-	0.02	0.01
		Maximum	3.40	0.56	0.02	0.54	-	0.05	0.05
		Average	1.88	0.20	0.02	0.16	-	0.03	0.03
		Standard deviation	1.11	0.25	0.01	0.26	-	0.02	0.02
	0800.0525	Number of samples	6	6	6	6	-	5	6
		Minimum	1.10	0.01	0.001	0.01	-	0.01	0.01
		Maximum	5.80	0.43	0.02	0.60	-	0.06	0.36
		Average	3.26	0.16	0.01	0.20	-	0.04	0.08
		Standard deviation	1.98	0.17	0.01	0.29	-	0.02	0.14
	0800.0530	Number of samples	4	4	4	4	-	4	4
		Minimum	0.40	0.01	0.001	0.01	-	0.01	0.01
		Maximum	5.50	1.33	0.03	0.01	-	0.04	0.03
		Average	1.92	0.35	0.01	0.01	-	0.02	0.02
		Standard deviation	2.40	0.65	0.01	0.00	-	0.01	0.01
	0800.5225	Number of samples	1	1	1	1	-	2	1
		Minimum	0.40	0.03	0.001	0.01	-	0.03	0.01
		Maximum	0.40	0.03	0.001	0.01	-	0.39	0.01
		Average	0.40	0.03	0.001	0.01	-	0.21	0.01
		Standard deviation	-	-	-	-	-	0.25	-

(1) Mg/l as N

(2) Mg/l as P

TABLE E-8

SUMMARY OF NUTRIENT LEVELS
UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Station	Sample measurement	TKN (1)	Amn-N (1)	NO2-N (1)	NO3-N (1)	NO3-N and NO2-N (1)	Total Phosphorus (2)	Dissolved Ortho- Phosphorus (2)
<u>0809</u> (continued)	A-32	Number of samples	1	1	1	1	-	1	1
		Minimum	0.67	0.03	0.01	0.21	-	0.11	0.01
		Maximum	0.67	0.03	0.01	0.21	-	0.11	0.01
		Average	0.67	0.03	0.01	0.21	-	0.11	0.01
		Standard deviation	-	-	-	-	-	-	-
	A-33	Number of samples	1	1	1	1	-	1	1
		Minimum	0.97	0.02	0.002	0.02	-	0.09	0.01
		Maximum	0.97	0.02	0.002	0.02	-	0.09	0.01
		Average	0.97	0.02	0.002	0.02	-	0.09	0.01
		Standard deviation	-	-	-	-	-	-	-
	A-34	Number of samples	1	1	1	1	-	1	1
		Minimum	0.99	0.06	0.08	2.51	-	1.37	1.20
		Maximum	0.99	0.06	0.08	2.51	-	1.37	1.20
		Average	0.99	0.06	0.08	2.51	-	1.37	1.20
		Standard deviation	-	-	-	-	-	-	-
	A-35	Number of samples	1	1	1	1	-	1	1
		Minimum	1.27	0.02	0.002	0.02	-	0.16	0.01
		Maximum	1.27	0.02	0.002	0.02	-	0.16	0.01
		Average	1.27	0.02	0.002	0.02	-	0.16	0.01
		Standard deviation	-	-	-	-	-	-	-

(1) Mg/l as N

(2) Mg/l as P

TABLE E-8

SUMMARY OF NUTRIENT LEVELS
UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Station	Sample measurement	TKN (1)	Amn-N (1)	NO2-N (1)	NO3-N (1)	NO3-N and NO2-N (1)	Total Phosphorus (2)	Dissolved Ortho- Phosphorus (2)
<u>0809</u> (continued)	A-36	Number of samples	1	1	1	1	-	1	1
		Minimum	0.99	0.02	0.002	0.02	-	0.09	0.01
		Maximum	0.99	0.02	0.002	0.02	-	0.09	0.01
		Average	0.99	0.02	0.002	0.02	-	0.09	0.01
		Standard deviation	-	-	-	-	-	-	-
<u>0810</u>									
West Fork Trinity River-Eagle Mountain Lake Headwater to Bridgeport Dam	0810.0010	Number of samples	13	13	13	13	-	13	13
		Minimum	0.61	0.01	0.001	0.01	-	0.04	0.02
		Maximum	16.80	1.00	0.07	5.01	-	0.42	0.38
		Average	4.62	0.15	0.02	0.50	-	0.19	0.11
		Standard deviation	4.70	0.27	0.02	1.37	-	0.12	0.12
0810.0100		Number of samples	-	24	-	24	-	24	24
		Minimum	-	0.02	-	0.01	-	0.04	0.01
		Maximum	-	0.52	-	3.1	-	0.53	0.16
		Average	-	0.15	-	0.27	-	0.17	0.04
		Standard deviation	-	0.13	-	0.62	-	0.11	0.04
<u>0811</u>									
Lake Bridgeport Dam	0811.0100	Number of samples	-	7	-	7	-	7	7
		Minimum	-	0.01	-	0.02	-	0.01	0.01
		Maximum	-	0.12	-	0.20	-	0.03	0.02
		Average	-	0.06	-	0.05	-	0.02	0.01
		Standard deviation	-	0.04	-	0.07	-	0.01	0.00

(1) Mg/l as N

(2) Mg/l as P

TABLE E-8

SUMMARY OF NUTRIENT LEVELS
UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Station	Sample measurement	TKN (1)	Amm-N (1)	NO2-N (1)	NO3-N (1)	NO3-N and NO2-N (1)	Total Phosphorus (2)	Dissolved Ortho- Phosphorus (2)
0811 (continued)	0811.0200	Number of samples	-	2	-	2	-	2	2
		Minimum	-	0.01	-	0.02	-	0.04	0.01
		Maximum	-	0.09	-	0.20	-	0.04	0.01
		Average	-	0.05	-	0.11	-	0.04	0.01
		Standard deviation	-	0.06	-	0.13	-	0.00	0.00
	A-1	Number of samples	2	2	2	2	-	2	2
		Minimum	0.81	0.02	0.002	0.02	-	0.01	0.01
		Maximum	1.02	0.02	0.002	0.02	-	0.01	0.01
		Average	0.92	0.02	0.002	0.02	-	0.01	0.01
		Standard deviation	0.15	-	-	-	-	-	-
	A-2	Number of samples	1	1	-	1	-	1	1
		Minimum	1.23	0.02	-	0.02	-	0.01	0.01
		Maximum	1.23	0.02	-	0.02	-	0.01	0.01
		Average	1.23	0.02	-	0.02	-	0.01	0.01
		Standard deviation	-	-	-	-	-	-	-
	A-3	Number of samples	2	2	2	2	-	2	2
		Minimum	0.85	0.02	0.002	0.02	-	0.01	0.01
		Maximum	0.89	0.02	0.002	0.02	-	0.01	0.01
		Average	0.87	0.02	0.002	0.02	-	0.01	0.01
		Standard deviation	0.03	-	-	-	-	-	-

(1) Mg/l as N

(2) Mg/l as P

TABLE E-8

SUMMARY OF NUTRIENT LEVELS
UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Station	Sample measurement	TKN (1)	Amn-N (1)	NO2-N (1)	NO3-N (1)	NO3-N and NO2-N (1)	Total Phosphorus (2)	Dissolved Ortho- Phosphorus (2)
<u>0811</u> (continued)	A-4	Number of samples	2	2	2	2	-	2	2
		Minimum	0.89	0.20	0.002	0.02	-	0.01	0.01
		Maximum	1.06	0.20	0.002	0.02	-	0.03	0.01
		Average	0.98	0.20	0.002	0.02	-	0.02	0.01
		Standard deviation	0.12	-	-	-	-	0.01	-
	A-5	Number of samples	1	1	1	1	-	1	1
		Minimum	0.83	0.02	0.002	0.02	-	0.04	0.01
		Maximum	0.83	0.02	0.002	0.02	-	0.04	0.01
		Average	0.83	0.02	0.002	0.02	-	0.04	0.01
		Standard deviation	-	-	-	-	-	0.01	-
<u>0812</u>									
West Fork Trinity River above Lake Bridgeport	0812.0100	Number of samples	-	20	-	20	-	20	20
		Minimum	-	0.02	-	0.02	-	0.04	0.01
		Maximum	-	0.29	-	1.19	-	0.74	0.12
		Average	-	0.10	-	0.25	-	0.25	0.03
		Standard deviation	-	0.08	-	0.32	-	0.19	0.03
<u>0828</u>									
Lake Arlington	0828.0050	Number of samples	-	4	-	1	-	-	-
		Minimum	-	0.03	-	0.09	-	-	-
		Maximum	-	10.00	-	0.09	-	-	-
		Average	-	2.56	-	0.09	-	-	-
		Standard deviation	-	4.96	-	-	-	-	-

(1) Mg/l as N

(2) Mg/l as P

TABLE E-8

SUMMARY OF NUTRIENT LEVELS
UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Station	Sample measurement	TKN (1)	Amn-N (1)	NO2-N (1)	NO3-N (1)	NO3-N and NO2-N (1)	Total Phosphorus (2)	Dissolved Ortho- Phosphorus (2)
<u>0828</u>	0828.0100	Number of samples	-	59	58	61	-	66	51
		Minimum	-	0.01	0.01	0.01	-	0.00	0.00
		Maximum	-	0.40	0.05	0.80	-	0.30	0.10
		Average	-	0.08	0.01	0.08	-	0.03	0.01
		Standard deviation	-	0.07	0.01	0.11	-	0.05	0.02
	0828.0200	Number of samples	-	1	-	1	-	-	-
		Minimum	-	0.3	-	0.4	-	-	-
		Maximum	-	0.3	-	0.4	-	-	-
		Average	-	0.3	-	0.4	-	-	-
		Standard deviation	-	-	-	-	-	-	-
	0828.0300	Number of samples	-	1	-	1	-	-	-
		Minimum	-	0.03	-	0.04	-	-	-
		Maximum	-	0.03	-	0.04	-	-	-
		Average	-	0.03	-	0.04	-	-	-
		Standard deviation	-	-	-	-	-	-	-
	0828.0400	Number of samples	-	4	-	2	-	-	-
		Minimum	-	0.0	-	0.0	-	-	-
		Maximum	-	10.0	-	0.3	-	-	-
		Average	-	2.5	-	0.2	-	-	-
		Standard deviation	-	5.0	-	0.2	-	-	-

(1) Mg/l as N

(2) Mg/l as P

TABLE E-8

SUMMARY OF NUTRIENT LEVELS
UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Station	Sample measurement	TKN (1)	Am-N (1)	NO ₂ -N (1)	NO ₃ -N (1)	NO ₃ -N and NO ₂ -N (1)	Total Phosphorus (2)	Dissolved Ortho- Phosphorus (2)
<u>0828</u> (continued)	AC	Number of samples	24	-	-	-	22	24	-
		Minimum	0.40	-	-	-	0.02	0.01	-
		Maximum	1.40	-	-	-	0.40	0.12	-
		Average	0.76	-	-	-	0.15	0.03	-
		Standard deviation	0.24	-	-	-	0.09	0.02	-
	EC	Number of samples	24	-	-	-	22	24	-
		Minimum	0.50	-	-	-	0.01	0.01	-
		Maximum	1.90	0	0	0	0.40	0.08	-
		Average	0.82	-	0	0	0.15	0.04	-
		Standard deviation	0.30	-	-	-	0.10	0.02	-
	FC	Number of samples	-	23	-	-	22	23	-
		Minimum	-	0.40	-	-	0.01	0.01	-
Maximum		-	1.50	-	-	0.04	0.09	-	
Average		-	0.83	-	-	0.14	0.04	-	
Standard deviation		-	0.25	-	-	0.10	0.02	-	
<u>0829</u>									
Clear Fork Trinity River Confluence in Benbrook Dam	0829.0100	Number of samples	-	23	-	-	22	-	23
		Minimum	-	0.02	-	-	0.02	-	0.01
		Maximum	-	0.36	-	-	0.49	-	0.32
		Average	-	0.12	-	-	0.17	-	0.07
		Standard deviation	-	0.11	-	-	0.13	-	0.07

(1) Mg/l as N

(2) Mg/l as P

TABLE E-8

SUMMARY OF NUTRIENT LEVELS
UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Station	Sample measurement	TKN (1)	Amm-N (1)	NO2-N (1)	NO3-N (1)	NO3-N and NO2-N (1)	Total Phosphorus (2)	Dissolved Ortho- Phosphorus (2)
0829 (continued)	F-14	Number of samples	-	-	-	-	-	-	-
		Minimum	-	-	-	-	-	-	-
		Maximum	-	-	-	-	-	-	-
		Average	-	-	-	-	-	-	-
		Standard deviation	-	-	-	-	-	-	-
	F-15	Number of samples	-	-	-	-	-	-	-
		Minimum	-	-	-	-	-	-	-
		Maximum	-	-	-	-	-	-	-
		Average	-	-	-	-	-	-	-
		Standard deviation	-	-	-	-	-	-	-
	F-16	Number of samples	-	-	-	-	-	-	-
		Minimum	-	-	-	-	-	-	-
		Maximum	-	-	-	-	-	-	-
		Average	-	-	-	-	-	-	-
		Standard deviation	-	-	-	-	-	-	-
	08047000	Number of samples	6	6	5	4	-	6	-
		Minimum	0.07	0.07	0.01	0.08	-	0.01	-
		Maximum	2.82	0.95	0.02	0.24	-	0.16	-
		Average	1.16	0.25	0.02	0.17	-	0.07	-
		Standard deviation	0.99	0.34	0.00	0.07	-	0.06	-

(1) Mg/l as N (2) Mg/l as P

TABLE E-8

SUMMARY OF NUTRIENT LEVELS
UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Station	Sample measurement	TKN (1)	Amm-N (1)	NO2-N (1)	NO3-N (1)	NO3-N and NO2-N (1)	Total Phosphorus (2)	Dissolved Ortho- Phosphorus (2)
<u>0830</u>									
Benbrook Reservoir	0830.0100	Number of samples	-	9	-	9	-	9	9
		Minimum	-	0.02	-	0.01	-	0.02	0.01
		Maximum	-	0.54	-	0.20	-	0.45	0.05
		Average	-	0.14	-	0.08	-	0.08	0.02
		Standard deviation	-	0.17	-	0.09	-	0.14	0.01
	0830.0610	Number of samples	-	3	-	3	-	3	3
		Minimum	-	0.07	-	0.04	-	0.04	0.01
		Maximum	-	0.56	-	0.79	-	0.09	0.03
		Average	-	0.24	-	0.32	-	0.06	0.02
		Standard deviation	-	0.27	-	0.41	-	0.03	0.01
	0830.0615	Number of samples	0	0	0	0	0	0	0
		Minimum	-	-	-	-	-	-	-
		Maximum	-	-	-	-	-	-	-
		Average	-	-	-	-	-	-	-
		Standard deviation	-	-	-	-	-	-	-
	0830.0710	Number of samples	-	4	-	4	-	4	4
		Minimum	-	0.09	-	0.09	-	0.03	0.01
		Maximum	-	0.24	-	0.19	-	0.31	0.10
		Average	-	0.16	-	0.17	-	0.12	0.03
		Standard deviation	-	0.7	-	0.05	-	0.13	0.05

(1) Mg/l as N

(2) Mg/l as P

TABLE E-8

SUMMARY OF NUTRIENT LEVELS
UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Station	Sample measurement	TKN (1)	Am-N (1)	NO2-N (1)	NO3-N (1)	NO3-N and NO2-N (1)	Total Phosphorus (2)	Dissolved Ortho-Phosphorus (2)
0830 (continued)	0830.0810	Number of samples	-	2	-	2	-	2	2
		Minimum	-	0.10	-	0.04	-	0.07	0.01
		Maximum	-	0.36	-	0.19	-	0.11	0.01
		Average	-	0.23	-	0.12	-	0.09	0.01
		Standard deviation	-	0.18	-	0.11	-	0.03	0.00
	AC	Number of samples	9	-	-	-	8	9	-
		Minimum	0.62	-	-	-	0.01	0.01	-
		Maximum	1.90	-	-	-	0.29	0.15	-
		Average	0.94	-	-	-	0.13	0.04	-
		Standard deviation	0.38	-	-	-	0.10	0.04	-
	BC	Number of samples	9	-	-	-	8	9	-
		Minimum	0.63	-	-	-	0.01	0.02	-
		Maximum	1.40	-	-	-	0.22	0.15	-
		Average	0.89	-	-	-	0.10	0.05	-
		Standard deviation	0.24	-	-	-	0.07	0.04	-
	DC	Number of samples	9	-	-	-	7	8	-
		Minimum	0.46	-	-	-	0.03	0.03	-
		Maximum	1.30	-	-0	-	0.22	0.18	-
		Average	0.94	-	-	-	0.14	0.06	-
		Standard deviation	0.28	-	-	-	0.07	0.05	-

(1) Mg/l as N

(2) Mg/l as P

TABLE E-8

SUMMARY OF NUTRIENT LEVELS
UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Station	Sample measurement	TKN (1)	Amm-N (1)	NO2-N (1)	NO3-N (1)	NO3-N and NO2-N (1)	Total Phosphorus (2)	Dissolved Ortho- Phosphorus (2)
<u>0830</u> (continued)	A-16	Number of samples	2	2	2	2	-	2	2
		Minimum	1.03	0.03	0.01	0.01	-	0.02	0.01
		Maximum	1.04	0.10	0.02	0.04	-	0.04	0.02
		Average	1.04	0.07	0.02	0.03	-	0.03	0.02
		Standard deviation	0.01	0.05	0.01	0.02	-	0.01	0.01
	A-17	Number of samples	2	2	2	2	-	2	2
		Minimum	1.06	0.03	0.01	0.01	-	0.03	0.01
		Maximum	1.09	0.03	0.02	0.04	-	0.04	0.02
		Average	1.08	0.03	0.02	0.03	-	0.04	0.02
		Standard deviation	0.02	0.00	0.01	0.02	-	0.01	0.01
	A-18	Number of samples	1	1	1	1	-	1	1
		Minimum	1.07	0.03	0.01	0.01	-	0.03	0.01
		Maximum	1.07	0.03	0.01	0.01	-	0.03	0.01
		Average	1.07	0.03	0.01	0.01	-	0.03	0.01
		Standard deviation	-	-	-	-	-	-	-
	A-19	Number of samples	2	2	2	2	-	2	2
		Minimum	1.19	0.03	0.01	0.01	-	0.07	0.01
		Maximum	1.20	0.03	0.02	0.04	-	0.07	0.01
		Average	1.20	0.03	0.02	0.03	-	0.07	0.01
		Standard deviation	0.01	-	0.01	0.02	-	-	-

(1) Mg/l as N

(2) Mg/l as P

TABLE E-8
SUMMARY OF NUTRIENT LEVELS
UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Station	Sample measurement	TKN (1)	Amn-N (1)	NO2-N (1)	NO3-N (1)	NO3-N and NO2-N (1)	Total Phosphorus (2)	Dissolved Ortho- Phosphorus (2)
<u>0830</u> (continued)	F-7	Number of samples	12	17	15	8	-	16	14
		Minimum	0.286	0.001	0.001	0.002	-	0.003	0.001
		Maximum	8.453	0.088	0.100	0.100	-	0.534	0.120
		Average	2.754	0.022	0.019	0.041	-	0.101	0.037
		Standard deviation	2.459	0.025	0.027	0.040	-	0.134	0.043
	F-8	Number of samples	13	17	15	8	-	17	15
		Minimum	0.100	0.001	0.001	0.002	-	0.003	0.001
		Maximum	7.510	0.045	0.100	0.100	-	0.542	0.110
		Average	2.606	0.012	0.017	0.036	-	0.091	0.028
		Standard deviation	2.367	0.010	0.026	0.041	-	0.138	0.033
	F-9	Number of samples	-	-	-	-	-	-	-
		Minimum	-	-	-	-	-	-	-
		Maximum	-	-	-	-	-	-	-
		Average	-	-	-	-	-	-	-
		Standard deviation	-	-	-	-	-	-	-
	F-1	Number of samples	10	14	12	10	-	13	13
		Minimum	0.584	0.002	0.002	0.004	-	0.002	0.001
		Maximum	6.630	0.023	0.026	6.000	-	0.664	0.640
		Average	2.583	0.012	0.010	1.136	-	0.115	0.107
		Standard deviation	2.353	0.006	0.009	1.992	-	0.177	0.172

(1) Mg/l as N

(2) Mg/l as P

TABLE E-8

SUMMARY OF NUTRIENT LEVELS
UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Station	Sample measurement	TKN (1)	Amn-N (1)	NO2-N (1)	NO3-N (1)	NO3-N and NO2-N (1)	Total Phosphorus (2)	Dissolved Ortho- Phosphorus (2)
0830 (continued)	F-2	Number of samples	3	7	6	1	-	7	6
		Minimum	1.312	0.002	0.001	0.371	-	0.001	0.001
		Maximum	1.760	0.019	0.011	0.371	-	0.100	0.100
		Average	1.561	0.011	0.005	0.371	-	0.035	0.033
		Standard deviation	0.228	0.006	0.004	-	-	0.034	0.038
	F-3	Number of samples	7	13	8	4	-	11	10
		Minimum	0.688	0.002	0.003	0.004	-	0.001	0.001
		Maximum	5.150	0.021	0.045	0.600	-	0.549	0.070
		Average	2.768	0.012	0.010	0.176	-	0.077	0.025
		Standard deviation	1.807	0.006	0.014	0.284	-	0.158	0.024
	F-4	Number of samples	9	14	11	6	-	12	9
		Minimum	0.470	0.001	0.001	0.003	-	0.001	0.001
		Maximum	4.860	0.018	0.054	0.788	-	0.536	0.150
		Average	2.340	0.011	0.008	0.234	-	0.114	0.040
		Standard deviation	1.807	0.005	0.015	0.307	-	0.154	0.049
	F-5	Number of samples	14	16	15	12	-	16	16
		Minimum	0.045	0.002	0.002	0.004	-	0.011	0.005
		Maximum	17.900	0.110	0.184	3.000	-	1.960	1.950
		Average	3.896	0.023	0.037	0.558	-	0.744	0.698
		Standard deviation	4.818	0.027	0.050	0.962	-	0.566	0.532

(1) Mg/l as N

(2) Mg/l as P

TABLE E-8

SUMMARY OF NUTRIENT LEVELS
UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Station	Sample measurement	TKN (1)	Am-N (1)	NO2-N (1)	NO3-N (1)	NO3-N and NO2-N (1)	Total Phosphorus (2)	Dissolved Ortho- Phosphorus (2)
<u>0830</u> (continued)	F-6	Number of samples	8	10	7	2	-	10	8
		Minimum	0.200	0.001	0.003	0.003	-	0.030	0.001
		Maximum	5.030	0.018	0.031	0.037	-	0.691	0.210
		Average	2.209	0.012	0.008	0.020	-	0.141	0.067
		Standard deviation	1.808	0.005	0.010	0.024	-	0.199	0.063
<u>0831</u>									
Clear Fork Trinity River-Benbrook Reservoir Headwater to Weatherford	0831.0100	Number of samples	-	20	-	20	-	20	20
		Minimum	-	0.02	-	0.01	-	0.34	0.13
		Maximum	-	0.54	-	1.67	-	2.05	1.91
		Average	-	0.17	-	0.36	-	1.03	0.77
		Standard deviation	-	0.16	-	0.47	-	0.50	0.50
	08045850	Number of samples	12	12	8	6	-	12	1
		Minimum	0.5	0.03	0.01	0.01	-	0.01	0.09
		Maximum	1.6	0.19	0.08	0.15	-	0.11	0.09
		Average	0.8	0.10	0.03	0.08	-	0.05	0.09
		Standard deviation	0.3	0.05	0.02	0.06	-	0.03	-
	A-26	Number of samples	1	2	2	2	-	2	2
		Minimum	1.77	0.04	0.01	0.25	-	0.04	0.02
		Maximum	1.77	0.15	0.01	0.35	-	0.04	0.02
		Average	1.77	0.10	0.01	0.30	-	0.04	0.02
		Standard deviation	-	-	-	-	-	-	-

(1) Mg/l as N

(2) Mg/l as P

TABLE E-8

SUMMARY OF NUTRIENT LEVELS
UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Station	Sample measurement	TKN (1)	Amm-N (1)	NO2-N (1)	NO3-N (1)	NO3-N and NO2-N (1)	Total Phosphorus (2)	Dissolved Ortho- Phosphorus (2)
0831 (continued)	A-27	Number of samples	1	2	2	2	-	2	2
		Minimum	1.41	0.40	0.05	0.57	-	0.06	0.01
		Maximum	1.41	0.47	0.06	1.02	-	0.06	0.03
		Average	1.41	0.44	0.05	0.80	-	0.06	0.02
		Standard deviation	-	0.05	0.00	0.32	-	0.00	0.01
	A-28	Number of samples	1	2	2	2	-	2	2
		Minimum	2.94	1.20	0.44	0.62	-	2.46	2.23
		Maximum	2.94	1.25	0.45	0.95	-	2.52	2.45
		Average	2.94	1.23	0.45	0.79	-	2.49	2.39
		Standard deviation	-	0.04	0.01	0.23	-	0.04	0.08
	A-29	Number of samples	1	2	2	2	-	2	2
		Minimum	2.28	0.30	0.21	0.83	-	2.94	2.69
		Maximum	2.28	0.34	0.22	1.22	-	3.01	2.91
		Average	2.28	0.32	0.21	1.03	-	2.98	2.80
		Standard deviation	-	0.03	0.00	0.28	-	0.05	0.16
	A-30	Number of samples	1	2	2	2	-	2	2
		Minimum	1.61	0.04	0.01	0.13	-	0.03	0.01
		Maximum	1.61	0.13	0.01	0.13	-	0.54	0.03
		Average	1.61	0.09	0.01	0.13	-	0.29	0.02
		Standard deviation	-	0.06	0.00	0.00	-	0.36	0.01

(1) Mg/l as N

(2) Mg/l as P

TABLE E-8

SUMMARY OF NUTRIENT LEVELS
UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Station	Sample measurement	TKN (1)	Amm-N (1)	NO2-N (1)	NO3-N (1)	NO3-N and NO2-N (1)	Total Phosphorus (2)	Dissolved Ortho- Phosphorus (2)
0831 (continued)	A-31	Number of samples	1	2	2	2	0	1	2
		Minimum	1.37	0.07	0.01	0.38	-	1.20	1.12
		Maximum	1.37	0.11	0.01	0.71	-	1.20	1.30
		Average	1.37	0.09	0.01	0.55	-	1.20	1.21
		Standard deviation	-	0.03	0.00	0.23	-	-	0.13
Tributaries of the Clear fork	A-20	Number of samples	1	2	2	2	-	2	2
		Minimum	0.85	0.04	0.003	0.02	-	0.02	0.01
		Maximum	0.85	0.11	0.01	0.02	-	0.03	0.01
		Average	0.85	0.08	0.01	0.02	-	0.03	0.01
		Standard deviation	-	0.05	0.00	0.00	-	0.01	0.00
	A-21	Number of samples	1	2	2	2	-	2	2
		Minimum	1.24	0.06	0.01	0.06	-	0.04	0.01
		Maximum	1.24	0.09	0.01	0.08	-	0.05	0.02
		Average	1.24	0.08	0.01	0.07	-	0.05	0.02
		Standard deviation	-	0.02	0.00	0.01	-	0.01	0.01
	A-22	Number of samples	1	2	2	2	-	2	2
		Minimum	0.83	0.09	0.01	0.06	-	0.04	0.02
		Maximum	0.83	0.14	0.01	0.10	-	0.04	0.03
Average		0.83	0.12	0.01	0.08	-	0.04	0.03	
Standard deviation		-	0.04	0.00	0.03	-	0.00	0.01	

(1) Mg/l as N

(2) Mg/l as P

TABLE E-8

SUMMARY OF NUTRIENT LEVELS
UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Station	Sample measurement	TKN (1)	Amm-N (1)	NO2-N (1)	NO3-N (1)	NO3-N and NO2-N (1)	Total Phosphorus (2)	Dissolved Ortho- Phosphorus (2)
<u>0831</u> (continued)	A-23	Number of samples	1	2	2	2	-	2	2
		Minimum	1.08	0.05	0.01	0.46	-	1.14	1.08
		Maximum	1.08	0.13	0.01	0.74	-	1.17	1.10
		Average	1.08	0.09	0.01	0.60	-	1.16	1.09
		Standard deviation	-	0.06	0.00	0.20	-	0.02	0.01
	A-24	Number of samples	1	2	2	2	-	2	2
		Minimum	0.90	0.06	0.01	0.45	-	1.13	1.10
		Maximum	0.90	0.08	0.02	0.74	-	1.17	1.12
		Average	0.90	0.07	0.01	0.60	-	1.15	1.11
		Standard deviation	-	0.01	0.01	0.21	-	0.03	0.01
	A-25	Number of samples	1	2	2	2	-	2	2
		Minimum	0.87	0.11	0.01	0.35	-	0.94	0.92
		Maximum	0.87	0.15	0.01	0.63	-	0.95	0.94
		Average	0.87	0.13	0.01	0.49	-	0.95	0.93
		Standard deviation	-	0.03	0.00	0.20	-	0.01	0.01
<u>0832</u>									
Lake Weatherford	832.0100	Number of samples	-	4	-	4	-	4	4
		Minimum	-	0.02	-	0.02	-	0.03	0.01
		Maximum	-	0.12	-	0.80	-	0.13	0.03
		Average	-	0.06	-	0.28	-	0.07	0.02
		Standard deviation	-	0.04	-	0.35	-	0.04	0.01

(1) Mg/l as N

(2) Mg/l as P

TABLE E-9
CRITERIA FOR SPECIFIC TOXIC MATERIALS

Parameter	Fresh Water Acute Criteria (ug/l)	Fresh Water Chronic Criteria (ug/l)
Aldrin	3.0	----
Arsenic	360	190
Cadmium	32.2	1.1
Chlordane	2.4	0.0043
Chlorpyrifas	0.083	0.041
Chromium (Tri)	1679	200
Chromium (Hex)	16	11
Copper	18.5	12.36
Cyanide	45.78	10.69
DDT	1.1	0.0010
Demeton	---	0.1
Dieldrin	2.5	0.0019
Endosulfan	0.22	0.056
Endrin	0.18	0.0023
Guthion	---	0.01
Heptachlor	0.52	0.0038
Lindane	2.0	0.08
Lead	77.5	3.02
Malathion	---	0.01
Mercury	2.4	0.012
Methoxychlor	---	0.03
Mirex	---	0.001
Nickel	1370	152.3
PCB's (total)	2.0	0.014
Parathion	0.065	0.013
Pentachlorophenol	12.26	7.74
Selenium	260	35
Silver	3.78	0.49
Toxaphene	0.78	0.0002
Zinc	113	102.4

Note: Acute toxicity exerts short-term lethal impacts. Chronic toxicity exerts sublethal detrimental effects over an extended period such as growth impairment and reduced reproduction.

TABLE E-8

SUMMARY OF NUTRIENT LEVELS
UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Station	Sample measurement	TKN (1)	Amm-N (1)	NO2-N (1)	NO3-N (1)	NO3-N and NO2-N (1)	Total Phosphorus (2)	Dissolved Ortho- Phosphorus (2)
0832 (continued)	A-11	Number of samples	2	2	2	2	-	2	2
		Minimum	1.16	0.03	0.01	0.01	-	0.01	0.01
		Maximum	1.30	0.03	0.02	0.05	-	0.02	0.01
		Average	1.23	0.03	0.02	0.03	-	0.02	0.01
		Standard deviation	0.10	0.00	0.01	0.03	-	0.01	0.00
	A-12	Number of samples	1	1	1	1	-	1	1
		Minimum	0.76	0.03	0.02	0.04	-	0.01	0.01
		Maximum	0.76	0.03	0.02	0.04	-	0.01	0.01
		Average	0.76	0.03	0.02	0.04	-	0.01	0.01
		Standard deviation	-	-	-	-	-	-	-
	A-13	Number of samples	2	2	2	2	-	2	2
		Minimum	0.74	0.03	0.01	0.04	-	0.03	0.01
		Maximum	0.81	0.03	0.02	0.06	-	0.04	0.03
		Average	0.78	0.03	0.02	0.05	-	0.04	0.02
		Standard deviation	0.05	0.00	0.01	0.01	-	0.01	0.01
	A-14	Number of samples	1	1	1	1	-	1	1
		Minimum	0.76	0.03	0.02	0.04	-	0.02	0.01
		Maximum	0.76	0.03	0.02	0.04	-	0.02	0.01
		Average	0.76	0.03	0.02	0.04	-	0.02	0.01
		Standard deviation	-	-	-	-	-	-	-

(1) Mg/l as N

(2) Mg/l as P

TABLE E-8

SUMMARY OF NUTRIENT LEVELS
UPPER TRINITY RIVER BASIN
(continued)

Stream segment	Station	Sample measurement	TKN (1)	Amn-N (1)	NO2-N (1)	NO3-N (1)	NO3-N and NO2-N (1)	Total Phosphorus (2)	Dissolved Ortho- Phosphorus (2)
<u>0832</u> (continued)	A-15	Number of samples	2	2	2	2	-	2	2
		Minimum	0.63	0.03	0.01	0.01	-	0.03	0.01
		Maximum	1.01	0.03	0.02	0.04	-	0.04	0.02
		Average	0.82	0.03	0.02	0.03	-	0.04	0.02
		Standard deviation	0.27	0.00	0.01	0.02	-	0.01	0.01
<u>0833</u>									
Clear Fork	0833.0100	Number of samples	-	19	-	18	-	19	19
Trinity River above		Minimum	-	0.02	-	0.01	-	0.02	0.01
Lake Weatherford		Maximum	-	0.36	-	1.34	-	0.37	0.16
		Average	-	0.09	-	0.13	-	0.12	0.03
		Standard deviation	-	0.08	-	0.33	-	0.10	0.03

(1) Mg/l as N

(2) Mg/l as P

TABLE E-10
SUMMARY OF HEAVY METALS

SEGMENT 0800.1710 - VILLAGE CREEK
AT IH-20 IN ARLINGTON

Metals ($\mu\text{g/L}$)	No. of samples	Minimum	Maximum	Average	Standard deviation
Arsenic	-	-	-	-	-
Barium	-	-	-	-	-
Cadmium	41	1.0	40.0	2.7	6.3
Chromium	41	1.0	30.0	5.0	6.1
Copper	41	1.0	13.0	4.3	3.3
Iron	41	210.0	9600.0	1270.8	1566.9
Lead	41	3.0	60.0	16.7	13.4
Manganese	41	37.0	720.0	102.4	113.6
Mercury	-	-	-	-	-
Nickel	41	1.0	50.0	9.7	8.5
Selenium	-	-	-	-	-
Silver	-	-	-	-	-
Zinc	41	1.0	92.0	21.5	23.5

Reference: City of Arlington Water Department

TABLE E-10
SUMMARY OF HEAVY METALS
(continued)

SEGMENT 0800.1720 - VILLAGE CREEK
AT US 287 SOUTHWEST OF ARLINGTON

Metals ($\mu\text{g/L}$)	No. of samples	Minimum	Maximum	Average	Standard deviation
Arsenic	-	-	-	-	-
Barium	-	-	-	-	-
Cadmium	22	1	40	3.6	8.4
Chromium	22	1	40	6.0	8.1
Copper	22	1	100	10.0	21.1
Iron	22	150	3200	830.5	743.5
Lead	22	1	90	17.0	20.7
Manganese	22	10	170	65.7	34.0
Mercury	-	-	-	-	-
Nickel	22	2	530	33.0	111.3
Selenium	-	-	-	-	-
Silver	-	-	-	-	-
Zinc	22	1	740	51.7	154.5

Reference: City of Arlington Water Department

TABLE E-10
SUMMARY OF HEAVY METALS
(continued)

SEGMENT 0800.1760 - VILLAGE CREEK
OAKGROVE-RENDON ROAD NORTHWEST OF RENDON

Metals ($\mu\text{g/L}$)	No. of samples	Minimum	Maximum	Average	Standard deviation
Arsenic	-	-	-	-	-
Barium	-	-	-	-	-
Cadmium	17	1	10	1.9	2.3
Chromium	17	1	84	9.9	19.3
Copper	17	1	30	5.3	6.8
Iron	17	69	2600	455.2	709.7
Lead	17	6	50	14.6	10.9
Manganese	17	10	150	50.3	36.2
Mercury	-	-	-	-	-
Nickel	17	4	34	10.8	7.8
Selenium	-	-	-	-	-
Silver	-	-	-	-	-
Zinc	17	1	90	16.4	21.0

Reference: City of Arlington Water Department

TABLE E-10
SUMMARY OF HEAVY METALS
(continued)

SEGMENT 0800.1770 - VILLAGE CREEK
AT RENDON ROAD SOUTHWEST OF ARLINGTON

Metals ($\mu\text{g/L}$)	No. of samples	Minimum	Maximum	Average	Standard deviation
Arsenic	-	-	-	-	-
Barium	-	-	-	-	-
Cadmium	16	1.0	10.0	2.5	3.1
Chromium	16	1.0	50.0	9.7	14.5
Copper	16	1.0	100.0	11.8	24.1
Iron	16	63.0	3400.0	877.5	1107.1
Lead	16	7.0	60.0	17.4	15.8
Manganese	16	4.0	470.0	93.4	122.8
Mercury	-	-	-	-	-
Nickel	16	4.0	30.0	10.2	6.6
Selenium	-	-	-	-	-
Silver	-	-	-	-	-
Zinc	16	1.0	60.0	23.0	19.3

Reference: City of Arlington Water Department

TABLE E-10
SUMMARY OF HEAVY METALS
(continued)

SEGMENT 0828.0001 - LAKE ARLINGTON
(PUMP HOUSE)

Metals ($\mu\text{g/L}$)	No. of samples	Minimum	Maximum	Average	Standard deviation
Arsenic	142	0.1	24.0	4.1	3.2
Barium	140	10.0	780.0	58.9	82.5
Cadmium	142	0.5	10.0	1.6	1.4
Chromium	142	2.0	19.0	5.1	1.6
Copper	29	8.0	140.0	29.8	24.3
Iron	30	3.0	49000.0	365.0	12197.1
Lead	142	5.0	4.0	11.7	4.8
Manganese	30	4.0	760.0	74.0	132.3
Mercury	140	0.1	3.9	6.0	0.3
Nickel	30	1.0	40.0	8.2	8.2
Selenium	-	-	-	-	-
Silver	142	0.2	5.9	0.4	0.7
Zinc	28	1.0	640.0	81.0	153.7

Reference: City of Arlington Water Department

TABLE E-10
SUMMARY OF HEAVY METALS
(continued)

SEGMENT 0828.0050 - LAKE ARLINGTON
NEAR TESCO OUTFALL

Metals ($\mu\text{g/L}$)	No. of samples	Minimum	Maximum	Average	Standard deviation
Arsenic	39	1.0	22.0	5.0	4.4
Barium	39	21.0	350.0	50.7	52.2
Cadmium	39	1.0	25.0	1.7	3.8
Chromium	39	0.5	21.0	5.5	2.8
Copper	39	2.0	24.0	8.3	5.9
Iron	39	70.0	2000.0	496.2	335.4
Lead	39	8.0	32.0	11.2	4.0
Manganese	39	22.0	3800.0	142.5	601.2
Mercury	39	0.5	5.0	0.8	1.0
Nickel	39	3.0	21.0	6.2	4.5
Selenium	-	-	-	-	-
Silver	38	0.2	8.7	0.9	1.5
Zinc	39	0.6	130.0	19.7	29.0

Reference: City of Arlington Water Department

TABLE E-10
SUMMARY OF HEAVY METALS
(continued)

SEGMENT 0828.0100 - LAKE ARLINGTON
MID LAKE NEAR DAM

Metals ($\mu\text{g/L}$)	No. of samples	Minimum	Maximum	Average	Standard deviation
Arsenic	65	1.0	18.0	2.9	3.7
Barium	64	1.0	180.0	47.9	25.2
Cadmium	68	0.9	11.0	1.6	1.9
Chromium	65	1.0	19.0	3.9	3.7
Copper	65	1.0	42.0	7.8	8.3
Iron	64	3.0	10800	461.1	1348.1
Lead	68	1.0	170.0	13.1	20.1
Manganese	68	4.0	700.0	57.1	119.7
Mercury	65	0.1	1.1	0.5	0.2
Nickel	64	1.0	15.0	6.4	3.5
Selenium	-	-	-	-	-
Silver	66	0.1	5.6	0.7	0.8
Zinc	67	1.0	317.0	19.7	40.8

Reference: City of Arlington Water Department

TABLE E-10
SUMMARY OF HEAVY METALS
(continued)

SEGMENT 0828.0300 - LAKE ARLINGTON
AT MID LAKE

Metals ($\mu\text{g/L}$)	No. of samples	Minimum	Maximum	Average	Standard deviation
Arsenic	21	1.0	19.0	5.3	5.5
Barium	21	21.0	71.0	41.6	14.2
Cadmium	21	1.0	6.0	1.8	1.5
Chromium	21	1.0	20.0	6.2	4.0
Copper	21	1.0	32.0	10.6	9.2
Iron	21	3.0	2000.0	509.2	423.8
Lead	21	7.0	27.0	10.5	4.0
Manganese	21	18.0	81.0	36.6	13.0
Mercury	21	0.5	5.0	0.8	1.0
Nickel	21	1.0	17.0	5.9	3.8
Selenium	-	-	-	-	-
Silver	20	0.2	4.1	0.5	0.9
Zinc	21	1.0	101.0	20.2	26.1

Reference: City of Arlington Water Department

TABLE E-10
SUMMARY OF HEAVY METALS
(continued)

SEGMENT 0828.0400 - LAKE ARLINGTON
NEAR CENTER OF LAKE, OFF END OF BOWMAN SPRINGS ROAD

Metals ($\mu\text{g/L}$)	No. of samples	Minimum	Maximum	Average	Standard deviation
Arsenic	41	1.0	17.0	5.1	3.9
Barium	41	18.0	140.0	48.3	25.2
Cadmium	41	1.0	4.0	1.2	0.6
Chromium	41	2.0	17.0	5.5	2.3
Copper	41	1.0	54.0	7.5	8.8
Iron	-	-	-	-	-
Lead	41	5.0	30.0	10.9	3.8
Manganese	41	24.0	890.0	63.6	133.1
Mercury	41	1.0	5.0	0.7	1.0
Nickel	41	4.0	34.0	6.6	5.4
Selenium	41	120.0	2300.0	554.8	395.7
Silver	40	0.2	3.0	0.3	0.5
Zinc	41	1.0	72.0	19.9	20.4

Reference: City of Arlington Water Department

TABLE E-10
SUMMARY OF HEAVY METALS
(continued)

SEGMENT 0828.0400 - LAKE ARLINGTON
NEAR CENTER OF LAKE, OFF END OF BOWMAN SPRINGS ROAD

Metals ($\mu\text{g/L}$)	No. of samples	Minimum	Maximum	Average	Standard deviation
Arsenic	41	1.0	17.0	5.1	3.9
Barium	41	18.0	140.0	48.3	25.2
Cadmium	41	1.0	4.0	1.2	0.6
Chromium	41	2.0	17.0	5.5	2.3
Copper	41	1.0	54.0	7.5	8.8
Iron	-	-	-	-	-
Lead	41	5.0	30.0	10.9	3.8
Manganese	41	24.0	890.0	63.6	133.1
Mercury	41	1.0	5.0	0.7	1.0
Nickel	41	4.0	34.0	6.6	5.4
Selenium	41	120.0	2300.0	554.8	395.7
Silver	40	0.2	3.0	0.3	0.5
Zinc	41	1.0	72.0	19.9	20.4

Reference: City of Arlington Water Department

TABLE E-10
SUMMARY OF HEAVY METALS
(continued)

SEGMENT 0828 - LAKE ARLINGTON
LOCATION: 08049200

Metals ($\mu\text{g/L}$)	No. of samples	Minimum	Maximum	Average	Standard deviation
Arsenic	6	1.0	2.0	1.3	0.5
Barium	6	30.0	90.0	51.3	21.6
Cadmium	6	1.0	1.0	1.0	0.0
Chromium	-	-	-	-	-
Copper	5	2.0	10.0	7.0	4.1
Iron	-	-	-	-	-
Lead	3	10.0	10.0	10.0	0.0
Manganese	24	1.0	47.0	8.5	11.0
Mercury	1	0.1	0.1	0.1	-
Nickel	-	-	-	-	-
Selenium	24	3.0	150.0	16.9	30.2
Silver	-	-	-	-	-
Zinc	6	3.0	19.0	6.2	6.3

Reference: United States Geological Survey

TABLE E-10
SUMMARY OF HEAVY METALS
(continued)

SEGMENT 0829 - CLEAR FORK OF TRINITY RIVER
LOCATION 08047000 - NEAR BENBROOK, TEXAS

Metals ($\mu\text{g/L}$)	No. of samples	Minimum	Maximum	Average	Standard deviation
Arsenic	6	1.0	7.0	3.7	2.4
Barium	6	47.0	61.0	54.2	5.9
Cadmium	6	1.0	1.0	1.0	0.0
Chromium	3	10.0	40.0	20.0	17.3
Copper	6	1.0	10.0	5.5	4.9
Iron	-	-	-	-	-
Lead	6	1.0	12.0	6.0	5.2
Manganese	6	1.0	330.0	87.5	135.7
Mercury	3	0.1	0.1	0.1	-
Nickel	-	-	-	-	-
Selenium	3	1.0	1.0	1.0	0.0
Silver	4	1.0	1.0	1.0	0.0
Zinc	6	3.0	20.0	7.0	6.8

Reference: United States Geological Survey

TABLE E-10
SUMMARY OF HEAVY METALS
(continued)

SEGMENT 0830 - BENBROOK RESERVOIR
STATION 08046500 - AC

Metals ($\mu\text{g/L}$)	No. of samples	Minimum	Maximum	Average	Standard deviation
Arsenic	-	-	-	-	-
Barium	-	-	-	-	-
Cadmium	-	-	-	-	-
Chromium	-	-	-	-	-
Copper	-	-	-	-	-
Iron	-	-	-	-	-
Lead	-	-	-	-	-
Manganese	9	1.0	10.0	2.9	3.3
Mercury	-	-	-	-	-
Nickel	-	-	-	-	-
Selenium	-	-	-	-	-
Silver	-	-	-	-	-
Zinc	-	-	-	-	-

Reference: United States Geological Survey

TABLE E-10
SUMMARY OF HEAVY METALS
(continued)

SEGMENT 0830 - BENBROOK RESERVOIR
STATION 08046500 - BC

Metals ($\mu\text{g/L}$)	No. of samples	Minimum	Maximum	Average	Standard deviation
Arsenic	-	-	-	-	-
Barium	-	-	-	-	-
Cadmium	-	-	-	-	-
Chromium	-	-	-	-	-
Copper	-	-	-	-	-
Iron	-	-	-	-	-
Lead	-	-	-	-	-
Manganese	9	1.0	4.0	1.9	1.1
Mercury	-	-	-	-	-
Nickel	-	-	-	-	-
Selenium	-	-	-	-	-
Silver	-	-	-	-	-
Zinc	-	-	-	-	-

Reference: United States Geological Survey

TABLE E-10
SUMMARY OF HEAVY METALS
(continued)

SEGMENT 0830 - BENBROOK RESERVOIR
STATION 08046500 - DC

Metals ($\mu\text{g/L}$)	No. of samples	Minimum	Maximum	Average	Standard deviation
Arsenic	-	-	-	-	-
Barium	-	-	-	-	-
Cadmium	-	-	-	-	-
Chromium	-	-	-	-	-
Copper	-	-	-	-	-
Iron	-	-	-	-	-
Lead	-	-	-	-	-
Manganese	9	1.0	3.0	1.9	0.9
Mercury	-	-	-	-	-
Nickel	-	-	-	-	-
Selenium	-	-	-	-	-
Silver	-	-	-	-	-
Zinc	-	-	-	-	-

Reference: United States Geological Survey

TABLE E-10
SUMMARY OF HEAVY METALS
(continued)

SEGMENT 0830 - BENBROOK RESERVOIR
STATION F-8 - MID LAKE

Metals ($\mu\text{g/L}$)	No. of samples	Minimum	Maximum	Average	Standard deviation
Arsenic	-	-	-	-	-
Barium	-	-	-	-	-
Cadmium	14	10.0	10.0	10.0	0.0
Chromium	14	10.0	30.0	11.0	5.0
Copper	14	10.0	10.0	10.0	0.0
Iron	14	12.0	110.0	63.0	24.0
Lead	14	10.0	60.0	25.0	20.0
Manganese	14	10.0	30.0	18.0	7.0
Mercury	-	-	-	-	-
Nickel	14	10.0	50.0	23.0	14.0
Selenium	-	-	-	-	-
Silver	-	-	-	-	-
Zinc	14	10.0	80.0	18.0	19.0

Reference: City of Fort Worth Water Department

TABLE E-10
SUMMARY OF HEAVY METALS
(continued)

SEGMENT 0830 - BENBROOK RESERVOIR TRIBUTARY
STATION F-1 - LONGHORN PARK

Metals ($\mu\text{g/L}$)	No. of samples	Minimum	Maximum	Average	Standard deviation
Arsenic	-	-	-	-	-
Barium	-	-	-	-	-
Cadmium	12	10.0	10.0	10.0	0.0
Chromium	12	10.0	10.0	10.0	0.0
Copper	12	10.0	20.0	11.7	3.9
Iron	12	14.9	250.0	90.2	95.0
Lead	12	10.0	60.0	24.2	19.8
Manganese	12	10.0	80.0	29.8	22.8
Mercury	-	-	-	-	-
Nickel	12	10.0	70.0	20.8	17.3
Selenium	-	-	-	-	-
Silver	-	-	-	-	-
Zinc	12	10.0	70.0	20.8	18.2

Reference: City of Fort Worth Water Department

TABLE E-10
SUMMARY OF HEAVY METALS
(continued)

SEGMENT 0830 - BENBROOK RESERVOIR TRIBUTARIES
STATION F-3 - MUSTANG CREEK

Metals ($\mu\text{g/L}$)	No. of samples	Minimum	Maximum	Average	Standard deviation
Arsenic	0	-	-	-	-
Barium	0	-	-	-	-
Cadmium	11	10.0	10.0	10.0	0.0
Chromium	11	10.0	13.0	10.0	1.0
Copper	11	10.0	10.0	10.0	0.0
Iron	11	10.0	64.0	28.0	16.0
Lead	11	10.0	50.0	18.0	14.0
Manganese	11	10.0	90.0	17.0	24.0
Mercury	0	-	-	-	-
Nickel	11	10.0	70.0	23.0	18.0
Selenium	0	-	-	-	-
Silver	0	-	-	-	-
Zinc	11	10.0	90.0	28.0	27.0

Reference: City of Fort Worth Water Department

TABLE E-10
SUMMARY OF HEAVY METALS
(continued)

SEGMENT 0830 - BENBROOK RESERVOIR TRIBUTARIES
STATION F-4 - BEAR CREEK

Metals ($\mu\text{g/L}$)	No. of samples	Minimum	Maximum	Average	Standard deviation
Arsenic	-	-	-	-	-
Barium	-	-	-	-	-
Cadmium	12	10.0	10.0	10.0	-
Chromium	11	10.0	10.0	10.0	-
Copper	12	10.0	10.0	10.0	-
Iron	12	10.0	5.0	24.4	13.7
Lead	12	10.0	60.0	18.3	15.9
Manganese	12	10.0	18.0	10.7	2.3
Mercury	-	-	-	-	-
Nickel	12	10.0	40.0	21.7	9.4
Selenium	-	-	-	-	-
Silver	-	-	-	-	-
Zinc	12	10.0	30.0	15.4	8.4

Reference: City of Fort Worth Water Department

TABLE E-10
SUMMARY OF HEAVY METALS
(continued)

SEGMENT 0830 - BENBROOK RESERVOIR TRIBUTARIES
STATION F-5 - CLEAR FORK

Metals ($\mu\text{g/L}$)	No. of samples	Minimum	Maximum	Average	Standard deviation
Arsenic	0	-	-	-	-
Barium	2	0	0	0	0
Cadmium	13	10.0	10.0	10.0	0.0
Chromium	12	10.0	10.0	10.0	0.0
Copper	13	10.0	20.0	12.0	4.0
Iron	13	11.0	2320.0	310.0	627.0
Lead	13	10.0	70.0	27.0	22.0
Manganese	13	2.0	440.0	71.0	121.0
Mercury	0	-	-	-	-
Nickel	13	10.0	40.0	18.0	10.0
Selenium	0	-	-	-	-
Silver	0	-	-	-	-
Zinc	13	10.0	330.0	45.0	87.0

Reference: City of Fort Worth Water Department

TABLE E-10
SUMMARY OF HEAVY METALS
(continued)

SEGMENT 0830 - BENBROOK RESERVOIR TRIBUTARIES
STATION F-6 - DUTCH BRANCH

Metals ($\mu\text{g/L}$)	No. of samples	Minimum	Maximum	Average	Standard deviation
Arsenic	0	-	-	-	-
Barium	0	-	-	-	-
Cadmium	8	10.0	10.0	10.0	0.0
Chromium	8	10.0	10.0	10.0	0.0
Copper	8	10.0	10.0	10.0	0.0
Iron	8	13.0	640.0	117.0	213.0
Lead	8	10.0	40.0	26.0	14.0
Manganese	8	10.0	150.0	32.0	49.0
Mercury	0	-	-	-	-
Nickel	8	10.0	40.0	20.0	11.0
Selenium	0	-	-	-	-
Silver	0	-	-	-	-
Zinc	8	10.0	50.0	16.0	14.0

Reference: City of Fort Worth Water Department

TABLE E-10
SUMMARY OF HEAVY METALS
(continued)

SEGMENT 0830 - BENBROOK RESERVOIR TRIBUTARIES
STATION F-7 - BENBROOK TRIBUTARIES

Metals ($\mu\text{g/L}$)	No. of samples	Minimum	Maximum	Average	Standard deviation
Arsenic	0	-	-	-	-
Barium	0	-	-	-	-
Cadmium	14	10.0	10.0	10.0	0.0
Chromium	13	10.0	10.0	10.0	0.0
Copper	14	10.0	20.0	11.0	3.0
Iron	14	10.0	90.0	53.0	24.0
Lead	14	10.0	50.0	27.0	18.0
Manganese	14	10.0	30.0	19.0	8.0
Mercury	0	-	-	-	-
Nickel	14	10.0	40.0	20.0	10.0
Selenium	0	-	-	-	-
Silver	0	-	-	-	-
Zinc	14	10.0	310.0	45.0	80.0

Reference: City of Fort Worth Water Department

TABLE E-10
SUMMARY OF HEAVY METALS
(continued)

SEGMENT 0831 - CLEAR FORK OF THE TRINITY RIVER
STATION 08045850 - NEAR WEATHERFORD, TEXAS

Metals ($\mu\text{g/L}$)	No. of samples	Minimum	Maximum	Average	Standard deviation
Arsenic	6	1.0	2.0	1.5	0.5
Barium	6	63.0	200.0	115.5	46.5
Cadmium	6	1.0	3.0	1.5	0.8
Chromium	5	10.0	70.0	22.0	26.8
Copper	6	1.0	10.0	5.8	4.6
Iron	0	-	-	-	-
Lead	6	1.0	75.0	16.8	28.8
Manganese	6	40.0	180.0	72.7	53.2
Mercury	4	0.1	0.4	0.2	0.1
Nickel	0	-	-	-	-
Selenium	3	1.0	1.0	1.0	0.0
Silver	5	1.0	2.0	1.2	0.4
Zinc	6	3.0	80.0	20.3	29.4

Reference: United States Geological Survey

TABLE E-10
SUMMARY OF HEAVY METALS
(continued)

SEGMENT 0831 - CLEAR FORK OF THE TRINITY RIVER
STATION 08045850 - NEAR WEATHERFORD, TEXAS

Metals ($\mu\text{g/L}$)	No. of samples	Minimum	Maximum	Average	Standard deviation
Arsenic	6	1.0	2.0	1.5	0.5
Barium	6	63.0	200.0	115.5	46.5
Cadmium	6	1.0	3.0	1.5	0.8
Chromium	5	10.0	70.0	22.0	26.8
Copper	6	1.0	10.0	5.8	4.6
Iron	0	-	-	-	-
Lead	6	1.0	75.0	16.8	28.8
Manganese	6	40.0	180.0	72.7	53.2
Mercury	4	0.1	0.4	0.2	0.1
Nickel	0	-	-	-	-
Selenium	3	1.0	1.0	1.0	0.0
Silver	5	1.0	2.0	1.2	0.4
Zinc	6	3.0	80.0	20.3	29.4

Reference: United States Geological Survey

TABLE E-11
SUMMARY OF TOXIC SUBSTANCES - WHOLE WATER SAMPLES

STREAM SEGMENT: 0828 - LAKE ARLINGTON
LOCATION: 828.0001
SITE: AT PUMP HOUSE

Organics ($\mu\text{g/L}$)	No. of samples	Minimum	Maximum	Average	Standard deviation
Endrin	6	0.0028	0.1800	0.0670	0.0705
Lindane	5	0.0005	0.0220	0.0072	0.0096
Methoxychlor	4	0.1300	0.9100	0.3575	0.3707
2,4-D	64	0.0079	2.5500	0.3927	0.5626
2,4,5-T	57	0.0026	0.6900	0.0841	0.1209

Reference: City of Arlington Water Department

STREAM SEGMENT: 0828 - LAKE ARLINGTON
LOCATION: 828.0050
SITE: NEAR TESCO OUTFALL

Organics ($\mu\text{g/L}$)	No. of samples	Minimum	Maximum	Average	Standard deviation
Endrin	4	0.006	0.093	0.0278	0.0435
Lindane	4	0.005	0.005	0.005	-
Methoxychlor	5	0.24	0.72	0.336	0.2147
Silvex	15	0.0050	0.8300	0.0990	0.2069
Toxaphene	1	0.24	0.24	0.24	-
2,4-D	18	0.0034	11.53	0.9524	2.6726

Reference: City of Arlington Water Department

TABLE E-11
SUMMARY OF TOXIC SUBSTANCES - WHOLE WATER SAMPLES
(continued)

STREAM SEGMENT: 0828 - LAKE ARLINGTON
LOCATION: 828.0100
SITE: MID LAKE NEAR DAM

Organics ($\mu\text{g/L}$)	No. of samples	Minimum	Maximum	Average	Standard deviation
Endrin	4	0.006	0.006	0.006	-
Lindane	4	0.005	0.005	0.005	-
Methoxychlor	4	0.24	0.24	0.24	-
Silvex	8	0.005	0.540	0.1083	0.1864
Toxaphene	4	0.24	0.24	0.24	-
2,4-D	8	0.020	0.680	0.2391	0.2762

Reference: City of Arlington Water Department

STREAM SEGMENT: 0828 - LAKE ARLINGTON
LOCATION: 828.0300
SITE: AT MID LAKE
(continued)

Organics ($\mu\text{g/L}$)	No. of samples	Minimum	Maximum	Average	Standard deviation
Silvex	1	.041	.041	.041	-
2,4-D	1	.372	.372	.372	-

Reference: City of Arlington Water Department

TABLE E-11
SUMMARY OF TOXIC SUBSTANCES - WHOLE WATER SAMPLES
(continued)

STREAM SEGMENT: 0828 - LAKE ARLINGTON
LOCATION: 828.0400
SITE: NEAR CENTER OF LAKE

Organics ($\mu\text{g/L}$)	No. of samples	Minimum	Maximum	Average	Standard deviation
Endrin	4	0.006	0.006	0.006	-
Lindane	4	0.005	0.005	0.005	-
Methoxychlor	5	0.24	0.600	0.312	0.1610
Silvex	18	0.005	0.230	0.0674	0.0547
Toxaphene	4	0.24	0.24	0.24	-
2,4-D	20	0.020	2.950	0.4642	0.6658

Reference: City of Arlington Water Department

TABLE E-12
SUMMARY OF TOXIC SUBSTANCES - BOTTOM SEDIMENT

STREAM SEGMENT: 0807 - LAKE WORTH
LOCATION: 0807.0100
SITE: MID LAKE NEAR DAM

Organics ($\mu\text{g}/\text{Kg}$)	No. of samples	Minimum	Maximum	Average	Standard deviation
Aldrin	1	0.2	0.2	0.2	-
Chlordane	1	0.4	0.4	0.4	-
DDE	1	0.5	0.5	0.5	-
DDO	1	0.8	0.8	0.8	-
DDT	1	0.3	0.3	0.3	-
Diazinon	1	9.2	9.2	9.2	-
Dibutyl phthalate	1	385.2	385.2	385.2	-
Dieldrin	1	0.6	0.6	0.6	-
Diethylhexyl phthalate	1	13.1	13.1	13.1	-
Endrin	1	1.0	1.0	1.0	-
Heptachlor	1	0.1	0.1	0.1	-
Heptachlor epoxide	1	0.2	0.2	0.2	-
Lindane	1	0.1	0.1	0.1	-
Malathion	1	4.1	4.1	4.1	-
Methoxychlor	1	0.3	0.3	0.3	-
Methyl parathion	1	0.6	0.6	0.6	-
Parathion	1	0.5	0.5	0.5	-
Phenols	1	1.1	1.1	1.1	-
PCB	1	2.8	2.8	2.8	-
Toxaphene	1	1.8	1.8	1.8	-

Reference: Texas Water Commission Stream Monitoring Network

TABLE E-12
SUMMARY OF TOXIC SUBSTANCES - BOTTOM SEDIMENT
(continued)

STREAM SEGMENT: 0809 - EAGLE MOUNTAIN LAKE
LOCATION: 0809.0100
SITE: MID LAKE NEAR DAM

Organics ($\mu\text{g}/\text{Kg}$)	No. of samples	Minimum	Maximum	Average	Standard deviation
Aldrin	1	0.34	0.34	0.34	-
Chlordane	1	2.17	2.17	2.17	-
DDE	1	0.40	0.40	0.40	-
DDO	1	0.72	0.72	0.72	-
DDT	1	0.77	0.77	0.77	-
Diazinon	1	51.91	51.91	51.91	-
Dibutyl phthalate	1	516.39	516.39	516.39	-
Dieldrin	1	0.39	0.39	0.39	-
Diethylhexyl phthalate	1	4.92	4.92	4.92	-
Endrin	1	0.46	0.46	0.46	-
Heptachlor	1	17.99	17.99	17.99	-
Heptachlor epoxide	1	0.34	0.34	0.34	-
Malathion	1	2.86	2.86	2.86	-
Methoxychlor	1	0.47	0.47	0.47	-
Methyl parathion	1	0.34	0.34	0.34	-
Parathion	1	0.44	0.44	0.44	-
PCB	1	4.27	4.27	4.27	-
Toxaphene	1	5.50	5.50	5.50	-

Reference: Texas Water Commission Stream Monitoring Network

TABLE E-12
SUMMARY OF TOXIC SUBSTANCES - BOTTOM SEDIEMENT
(continued)

STREAM SEGMENT: 0828 - LAKE ARLINGTON
LOCATION: 0828.0100
SITE: MID LAKE NEAR DAM

Organics ($\mu\text{g}/\text{Kg}$)	No. of samples	Minimum	Maximum	Average	Standard deviation
Aldrin	2	.10	.39	0.245	0.2051
Chloradane	2	.23	3.74	1.985	2.4819
DDE	2	.10	.75	0.425	0.4596
DDO	2	.19	1.91	1.05	1.2162
DDT	2	.19	2.73	1.46	1.7961
Diazinon	2	.13	5.67	2.9	3.9174
Dibutyl phthalate	1	26.59	26.59	26.59	-
Dieldrin	2	.16	1.10	0.63	0.6647
Diethylhexyl phthalate	1	24.97	24.97	24.97	-
Endrin	2	.14	1.52	0.83	0.9758
Heptachlor	2	.09	.31	0.2	0.1556
Heptachlor epoxide	2	.10	.34	0.22	0.1697
Lindane	2	.09	.35	0.22	0.1838
Malathion	2	.96	15.58	8.27	10.3379
Methoxychlor	2	.12	1.73	0.925	1.1384
Methyl parathion	2	.26	2.16	1.21	1.3435
O,P'DDD	1	.19	.19	.19	-
O,P'DDE	1	.07	.07	.07	-
O,P'DDT	1	.18	.18	.18	-
Parathion	2	.32	2.84	1.58	1.7819
Pentachlorophenol	1	.02	.02	.02	-
Phenols	1	.70	.70	.70	-
PCB	1	.32	.32	.32	-
P,P'DDD	1	.14	.14	.14	-
P,P'DDE	1	.10	.10	.10	-
P,P'DDT	1	.19	.19	.19	-
Silvex	1	.35	.35	.35	-
Toxaphene	2	.30	8.26	4.28	5.6286
2,4-D	1	.70	.70	.70	-
2,4,5-T	1	4.85	4.85	4.85	-

Reference: City of Arlington Water Department

TABLE E-12
SUMMARY OF TOXIC SUBSTANCES - BOTTOM SEDIMENT
(continued)

STREAM SEGMENT: 0830 - BENBROOK RESERVOIR
LOCATION: 0830.0100
SITE: MID LAKE NEAR DAM

Organics ($\mu\text{g}/\text{Kg}$)	No. of samples	Minimum	Maximum	Average	Standard deviation
Aldrin	1	.39	.39	.39	-
Chlordane	1	3.74	3.74	3.74	-
DDE	1	.75	.75	.75	-
DDO	1	1.91	1.91	1.91	-
DDT	1	2.73	2.73	2.73	-
Diazinon	1	5.67	5.67	5.67	-
Dibutyl phthalate	1	351.43	351.43	351.43	-
Dieldrin	1	1.10	1.10	1.10	-
Diethylhexyl phthalate	1	99.88	99.88	99.88	-
Endrin	1	1.52	1.52	1.52	-
Heptachlor	1	.31	.31	.31	-
Heptachlor epoxide	1	.34	.34	.34	-
Lindane	1	.35	.35	.35	-
Malathion	1	15.58	15.58	15.58	-
Methoxychlor	1	1.73	1.73	1.73	-
Methyl parathion	1	2.16	2.16	2.16	-
Parathion	1	2.84	2.84	2.84	-
PCB	1	184.11	184.11	184.11	-
Toxaphene	1	8.26	8.26	8.26	-

Reference: Texas Water Commission Stream Monitoring Network

TABLE E-12
SUMMARY OF TOXIC SUBSTANCES - BOTTOM SEDIMENT
(continued)

STREAM SEGMENT: 0832 - LAKE WEATHERFORD
LOCATION: 0832.0100
SITE: MID LAKE NEAR DAM

Organics ($\mu\text{g}/\text{Kg}$)	No. of samples	Minimum	Maximum	Average	Standard deviation
Aldrin	1	2.93	2.93	2.93	-
Chlordane	1	0.82	0.82	0.82	-
DDE	1	3.39	3.39	3.39	-
DDO	1	6.13	6.13	6.13	-
DDT	1	7.52	7.52	7.52	-
Diazinon	1	12.34	12.34	12.34	-
Dibutyl phthalate	1	1200.26	1200.26	1200.26	-
Dieldrin	1	3.76	3.76	3.76	-
Diethylhexyl phthalate	1	304.77	304.77	304.77	-
Endrin	1	5.00	5.00	5.00	-
Heptachlor	1	1.3	1.3	1.3	-
Heptachlor epoxide	1	5.45	5.45	5.45	-
Lindane	1	2.33	2.33	2.33	-
Malathion	1	12.34	12.34	12.34	-
Methoxychlor	1	5.6	5.6	5.6	-
Methyl parathion	1	2.10	2.10	2.10	-
Parathion	1	2.35	2.35	2.35	-
PCB	1	11.87	11.87	11.87	-
Toxaphene	1	70.92	70.92	70.92	-

Reference: Texas Water Commission Stream Monitoring Network

FIGURES

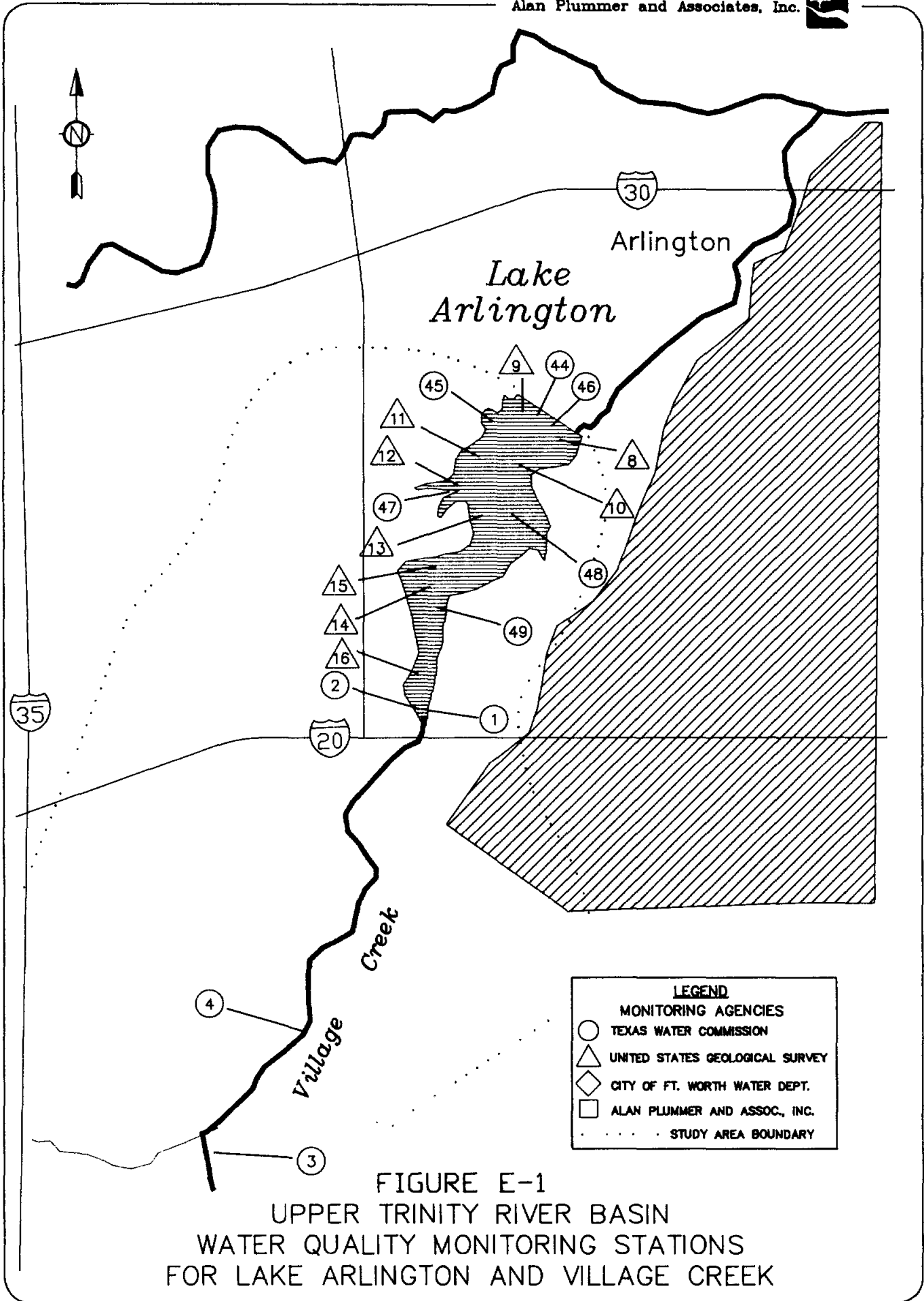


FIGURE E-1
 UPPER TRINITY RIVER BASIN
 WATER QUALITY MONITORING STATIONS
 FOR LAKE ARLINGTON AND VILLAGE CREEK

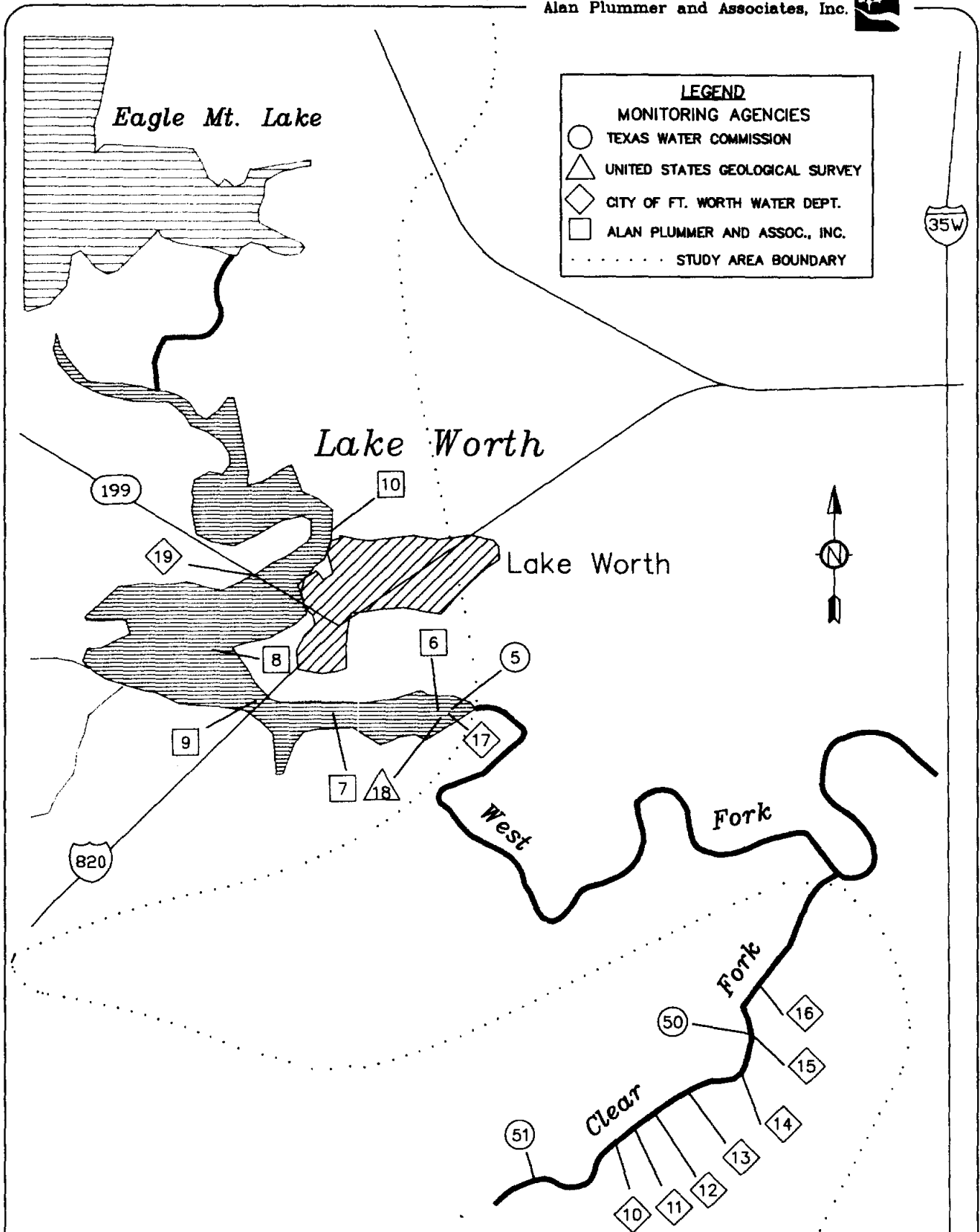


FIGURE E-2
UPPER TRINITY RIVER BASIN WATER QUALITY
MONITORING STATIONS FOR LAKE WORTH
AND THE CLEAR FORK OF THE TRINITY RIVER

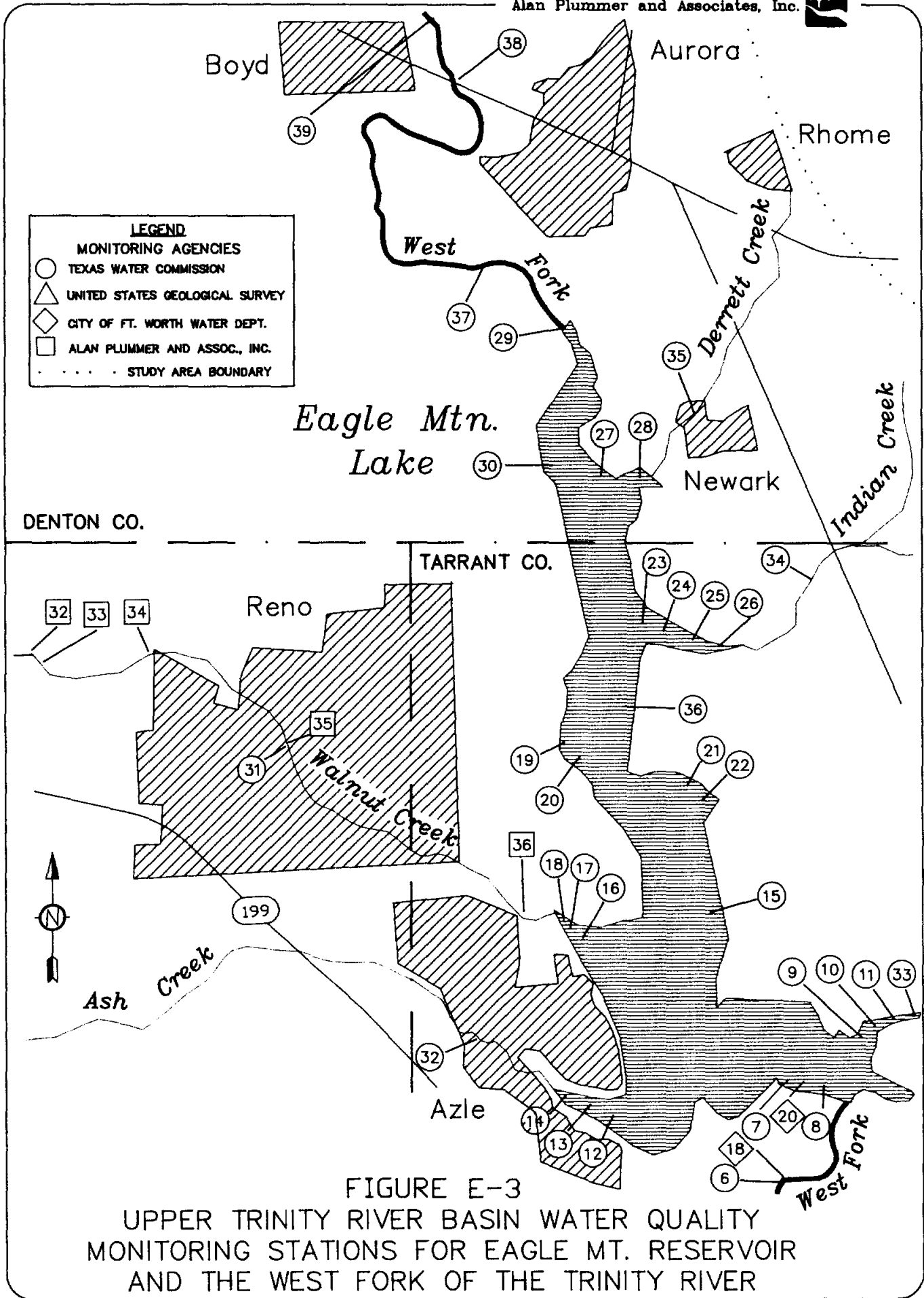


FIGURE E-3
 UPPER TRINITY RIVER BASIN WATER QUALITY
 MONITORING STATIONS FOR EAGLE MT. RESERVOIR
 AND THE WEST FORK OF THE TRINITY RIVER

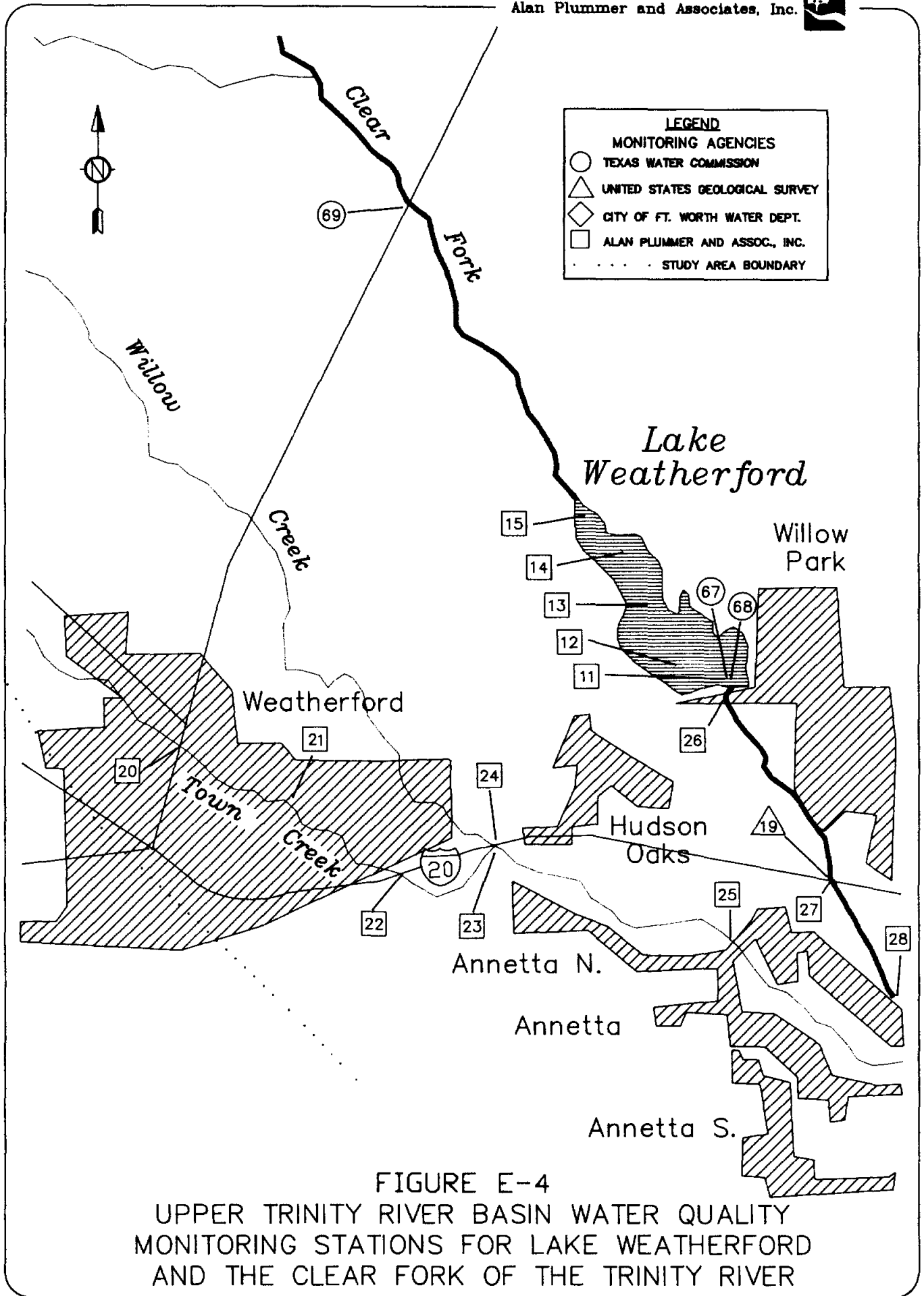


FIGURE E-4
UPPER TRINITY RIVER BASIN WATER QUALITY
MONITORING STATIONS FOR LAKE WEATHERFORD
AND THE CLEAR FORK OF THE TRINITY RIVER



LEGEND

MONITORING AGENCIES

- TEXAS WATER COMMISSION
- △ UNITED STATES GEOLOGICAL SURVEY
- ◇ CITY OF FT. WORTH WATER DEPT.
- ALAN PLUMMER AND ASSOC., INC.

..... STUDY AREA BOUNDARY

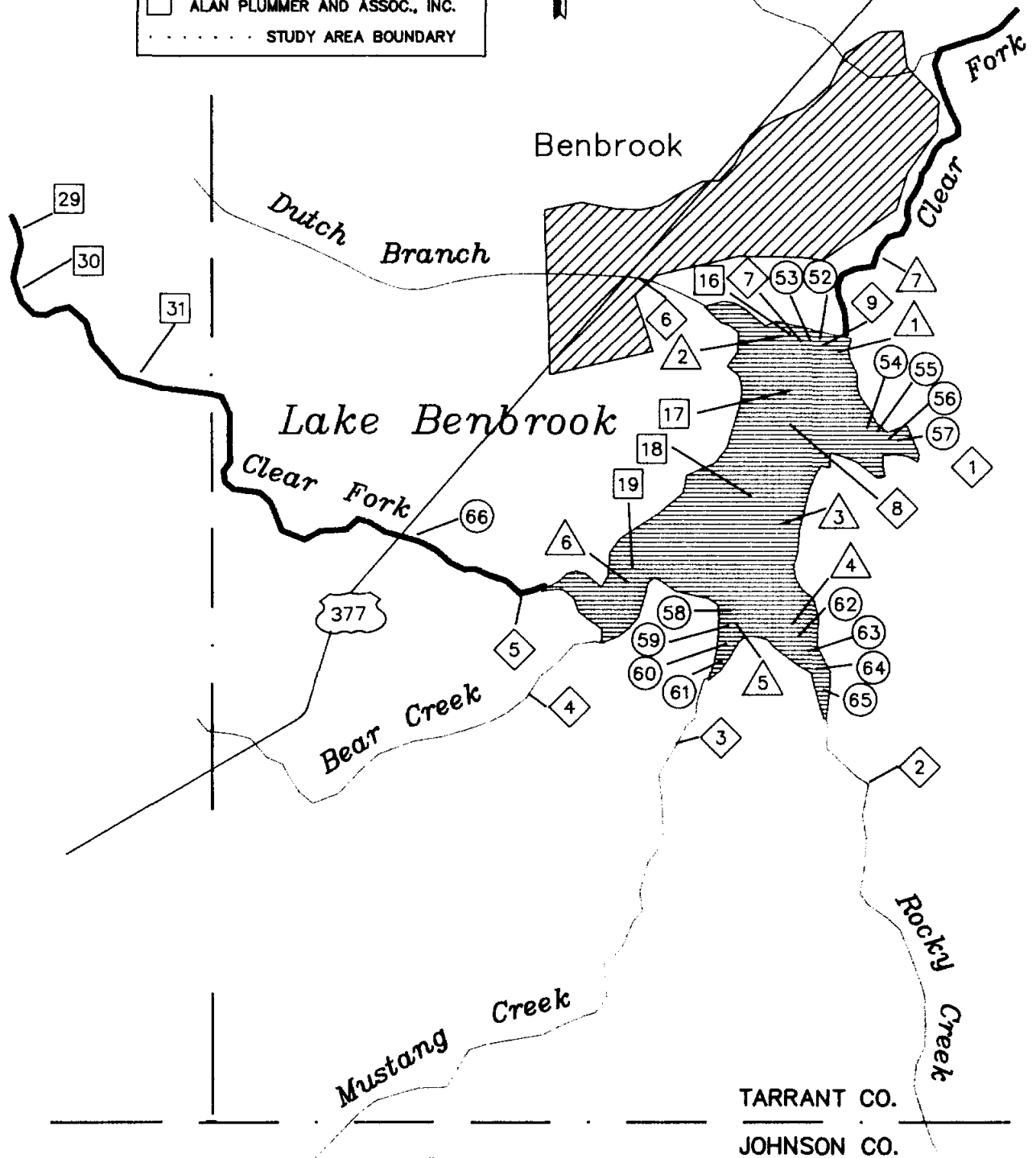


FIGURE E-5
UPPER TRINITY RIVER BASIN WATER QUALITY
MONITORING STATIONS FOR LAKE BENBROOK
AND THE CLEAR FORK OF THE TRINITY RIVER

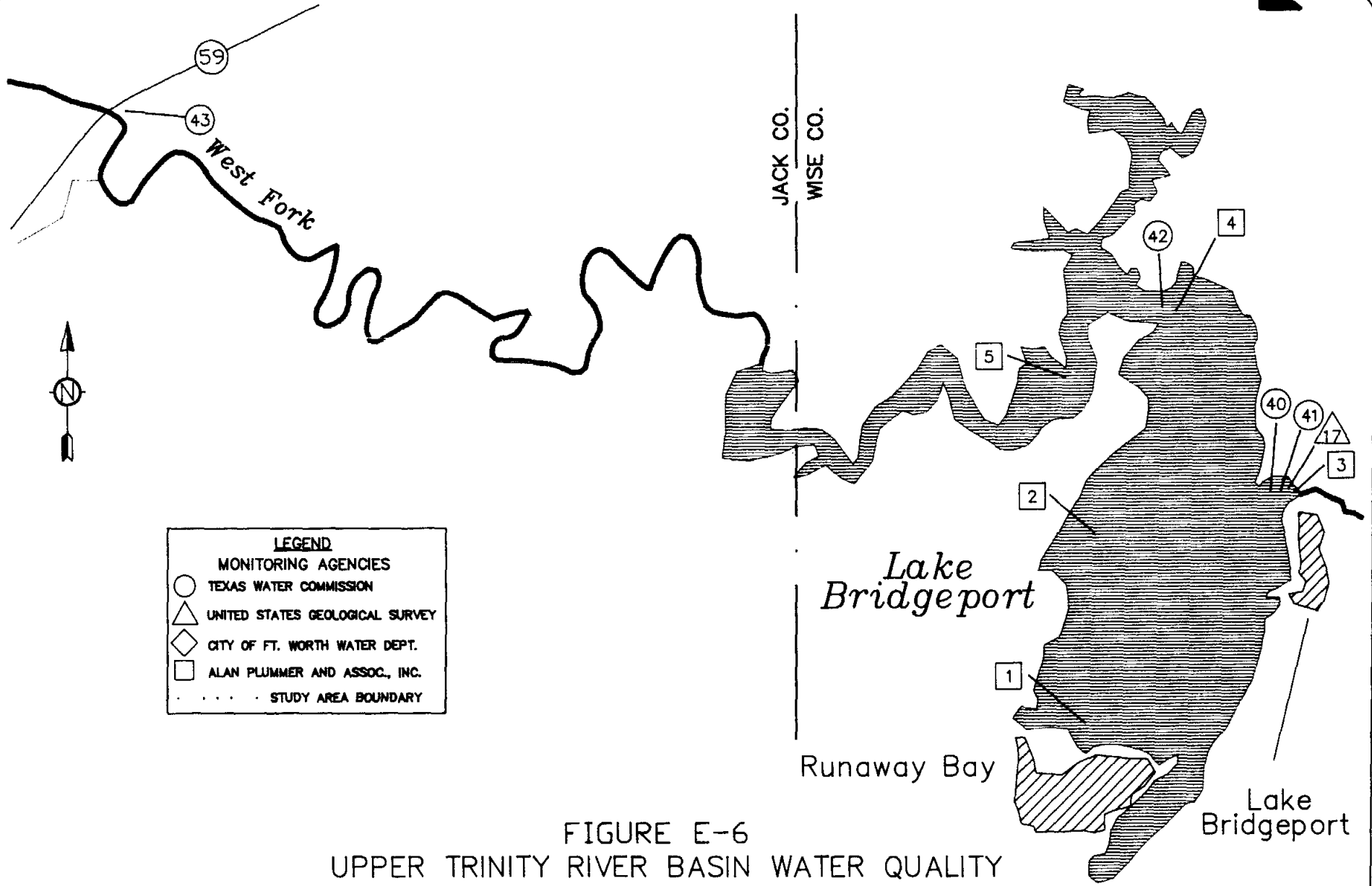


FIGURE E-6
UPPER TRINITY RIVER BASIN WATER QUALITY
MONITORING STATIONS FOR LAKE BRIDGEPORT
AND THE WEST FORK OF THE TRINITY RIVER