



Impairment Verification Monitoring  
Dissolved Oxygen  
Segment 2113 Upper Frio River  
Volume 1  
October 2004



Texas Engineering Experiment Station  
Conrad Blucher Institute

**Impairment Verification Monitoring—Volume 1: Physical, and  
Chemical Components  
Segment 2113 Upper Frio River**

Prepared for  
Total Maximum Daily Load Program  
Texas Commission on Environmental Quality  
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Under Texas Engineering Experiment Station Project No. 32525-60880 CC  
Texas Commission on Environmental Quality Contract No.582-4-58897, Amendment 1

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## EXECUTIVE SUMMARY

This report describes the water quality data collected on the Upper Frio River (Segment 2113) during the three-year period from 2002 through 2004. It has been prepared for the Texas Commission on Environmental Quality (TCEQ) by the Conrad Blucher Institute for Surveying and Science (CBI) at Texas A&M University-Corpus Christi under an inter-agency contract (No 582-4-58897, Amendment 1) between the TCEQ and the Texas Engineering Experiment Station. The Upper Frio River is a freshwater stream located within the Nueces River Basin. It encompasses a 47-mile stretch that begins 300 feet upstream of US 90 in Uvalde County and extends to the confluence of the West Frio River and the East Frio River in Real County. The upper Frio River was included on the 2000 State of Texas Clean Water Act 303(d) list as impaired due to concentrations of dissolved oxygen below criteria associated with an exceptional aquatic life use

Volume 1 presents the water quality data, including TCEQ water quality criteria or screening levels for 24-hr dissolved oxygen, pH, water temperature, conductivity, and nutrients. Basic statistics are provided for each water quality constituent by Station and sampling type. Volume 2, prepared by project partner Ecological Communications Corporation (ECOMM 2004), describes the biological sampling and analyses conducted by ECOMM.

Water quality assessment has evolved since the 1999 305(b) Water Quality Inventory with the introduction of new methodologies. These include the development of hydrologically unique assessment units on the Upper Frio, use of the binomial approach for analysis, and the use of 24-hour dissolved oxygen measurements. All sampling events at the three monitoring stations show 24-hour average values of dissolved oxygen that are above the 6 mg/L criterion specified in the water quality standards. All 24-hour dissolved oxygen minimum values are above the 4 mg/L TCEQ criterion. Routine water samples collected exhibit nutrient levels well below established screening values. Based upon the 24-hour dissolved oxygen data collected for this study, the Upper Frio River appears to be meeting the exceptional aquatic life use and should be removed from the states list of impaired waters.

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## INTRODUCTION

The Upper Frio River (Segment 2113) is a freshwater stream located within the Nueces River Basin that encompasses a 47-mile stretch that begins at the confluence of the West Frio River and the East Frio River in Real County and extends to about 300 feet upstream of the crossing of U.S. Highway 90 in Uvalde County (Figure 1). This portion of the river experiences significant levels of recreation during the summer months and represents a large part of the regional economy. Land use over the basin ranges from residential urban areas to high-intensity agricultural development and evergreen forests (Table 1).

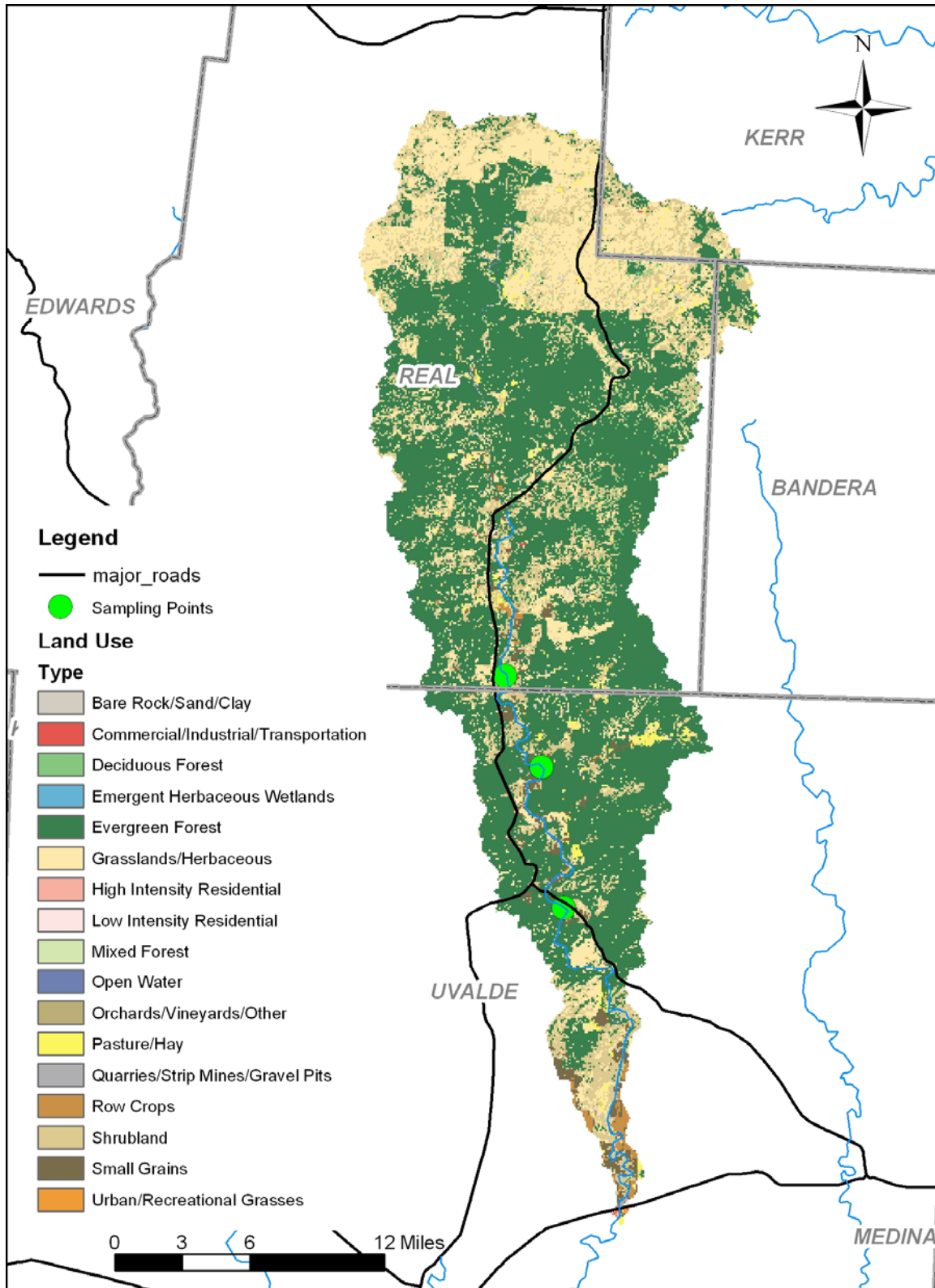
In 1999 the Texas Commission on Environmental Quality (TCEQ) identified the Upper Frio River as impaired for aquatic life because of concentrations of dissolved oxygen below the established criteria on the Texas State 305(b) Water Quality Inventory (TNRCC 1999a). According to the 2000 303(d) list, there were insufficient data to determine contact recreation and fish consumption uses, and TCEQ initiated a project to verify the impairment through the collection of additional physical, chemical, and biological data.

In 2001, TCEQ contracted the services of the South Texas Environmental Institute at Texas A&M University-Kingsville to lead this effort, together with the Conrad Blucher Institute for Surveying and Science (CBI) at Texas A&M University-Corpus Christi and Ecological Communications Corporations (ECOMM) to design and implement a monitoring plan to verify the impairment and then take the necessary actions to restore uses where necessary. Sampling activities began in August of 2002 to provide the TCEQ with 24-hour dissolved oxygen, physical and chemical analyses, and biological assessments at several stations along this segment. In September of 2003 CBI took over as the contract lead on the project under a contract between the TCEQ and the Texas Engineering Experiment Station (TEES) and continued the data collection on Segment 2113 in collaboration with ECOMM.

The information provided in this report is included in two volumes. Volume 1 describes the 2002 through 2004 physical and chemical data and analyses for water quality on Segment 2113. These data are presented in tabular format and are statistically summarized. It includes 24-hr dissolved oxygen (DO) as compared to TCEQ water quality criteria, pH, water temperature, conductivity, and nutrient data. Basic statistics are also provided for each constituent by station and sampling type. Volume 2, prepared by ECOMM, describes the biological sampling, data and analyses conducted by ECOMM for the Upper Frio River.

**Table 1. Land Use Characteristics for Upper Frio River Watershed.**

<b>Area Kilometers</b>	<b>Percent (%)</b>	<b>Land Use</b>
662231	57.82	Evergreen Forest
217778	19.02	Grasslands/Herbaceous
184327	16.09	Shrubland
23988	2.09	Small Grains
16254	1.42	Deciduous Forest
14873	1.30	Pasture/Hay
10019	0.87	Bare Rock/Sand/Clay
7848	0.69	Row Crops
3513	0.31	Commercial/Industrial/Transportation
3033	0.26	Open Water
741	0.06	Low Intensity Residential
357	0.03	Quarries/Strip Mines/Gravel Pits
175	0.02	Emergent Herbaceous Wetlands
101	0.01	Urban/Recreational Grasses
36	0.0031	Orchards/Vineyards/Other
17	0.0015	High Intensity Residential
3	0.0003	Mixed Forest



**Figure 1. Land Use Map for Segment 2113 of the Upper Frio River Watershed.**



## HISTORICAL DATA REVIEW

The 2000 303(d) List included the Upper Frio River as partially supporting the aquatic life use due to depressed dissolved oxygen levels in the lower 25 miles. Public water supply and general uses were listed as supported; contact recreation and fish consumption were not assessed due to insufficient data. Available data at the time of the 2000 assessment did not indicate any water quality concerns for the Upper Frio. Table 2 lists all TCEQ Monitoring Stations on this segment.

The Station specific uses and criteria for the Upper Frio River, as identified in the 1997 Texas Surface Water Quality Standards (TNRCC 1997), are as follows:

- Contact Recreation
- Exceptional Aquatic Life Use
- Domestic water supply and aquifer protection

**Table 2. All TCEQ Monitoring Stations on Segment 2113. Station 17892 was added for impairment verification. Green shading indicates Stations used in impairment verification monitoring. Photos for these three stations are indicated in the third column.**

Station	Station Descriptions	Photograph
17892	Frio River at Apache Bluff	Figure 3
13007	Frio River at Magers Crossing	Figure 4
13006	Frio River at SH 127 east of Concan	Figure 5
13008	Frio River at Garner State Park dam	
15751	East Frio River at Birchfield approx. 800ft of Steep Hollow Creek confluence, 11 mi NE of Leakey	
15752	Frio River at Jake's Hole approx 1000ft downstream of FM 1120, 6.5 mi south of Leakey	

A review of historical data indicated that instantaneous dissolved oxygen levels were within the segment water quality criterion of 6.0 mg/L with the exception of sampling location 13007 (Table 3), where values ranged from 3.8 to 5.2 mg/L. Overall, constituent parameter values did not vary significantly with respect to location on the river. The chemical and physical water quality of the study reach of the Upper Frio River was very good and was minimally impacted by recreational usage during the April-July (1997) study period. Instantaneous dissolved oxygen values at sampling location 13007 were consistently lower than at the other three locations during all four sampling events.

**Table 3. Historic Dissolved Oxygen Data (mg/L).**

Date	Station		
	15751	13007	13006
April 24, 1997	5.1	5.1	8.5
May 14, 1997	8.6	4.8	6.4
June 16, 1997		3.8	6.6
July 4, 1997		4.8	6.3
July 5, 1997	8.3		
July 6, 1997	7.8	4.7	6.7

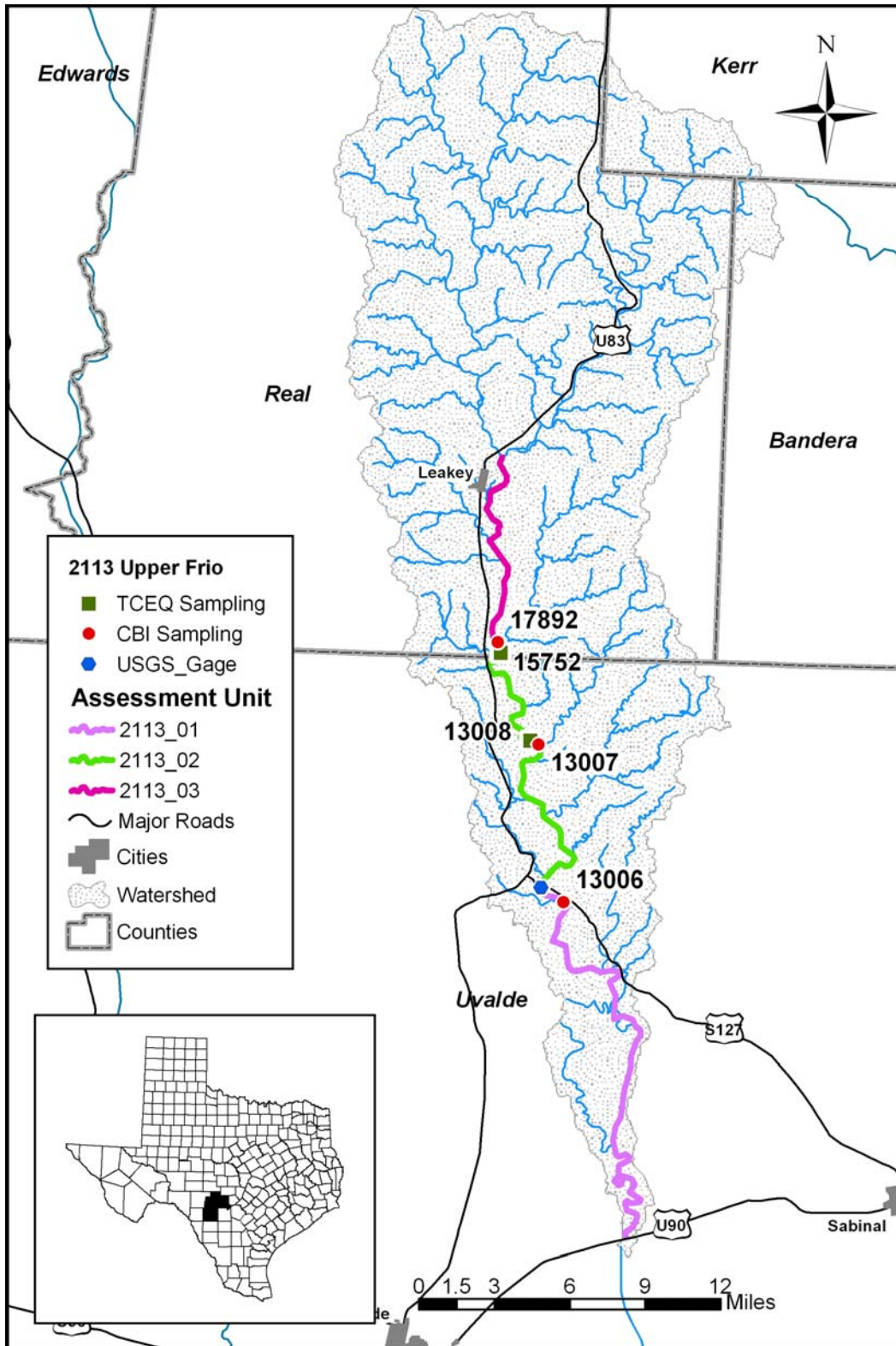


Figure 2. Map showing Station Locations and the reach of each Assessment Unit.



**Figure 3. Station 17892. (Personnel are making a flow measurement.)**



**Figure 4. Station 13007.**



**Figure 5. Station 13006.**

## **PROBLEM DEFINITION**

CBI led an effort for the TCEQ to assess the water quality of the Upper Frio River (Segment 2113). This segment was included on the 2000 State of Texas Clean Water Act 303(d) list as partially supporting the aquatic life use due to depressed concentrations of dissolved oxygen (Table 4). The initial phase of the project required that the impairment first be verified through the collection of additional physical, chemical, and biological data to fill in the data gaps and determine what course of action, if any, needed to be taken to address the impairment. The additional data would result in one of four outcomes: 1) removal from the 303(d) List, 2) an evaluation of applicable water quality standards (aquatic life use impairments only), 3) establishing Total Maximum Daily Load (TMDL) for the given constituent and the impairment, or 4) collect additional data (Figure 6).

## **ASSESSMENT METHODOLOGY**

The 2002 305(b) Water Quality Inventory implemented several changes to the guidance for assessing surface waters (Sullivan et al. 2004). These changes were incorporated into the assessment methodologies for this project:

- Dissolved oxygen monitoring.** The 1999 Water Quality Inventory determined that aquatic life uses on segment 2113 were impaired primarily based on instantaneous grab samples. This type of sample presents only a small snapshot of the existing water quality conditions. The 2002 Assessment Guidance (TNRCC 2002) specified that impairment determinations could only be made using 24-hour composite data, which gives a more accurate representation of the aquatic life uses for the stream. Data collection efforts thus focused on the use of data logging equipment to obtain the correct type data to make reliable use attainment determinations.
- Development of Assessment Units.** The 2002 Water Quality Inventory also included the use of hydrologically similar portions of entire segments to characterize better the extent of a specific use impairment. This approach combines data from several nearby stations to increase the data quantity and thus the certainty with respect to the results. Previous assessments considered data from the entire water body to be representative of ambient conditions.
- Binomial Approach.** The 305(b) Water Quality Assessment has incorporated the binomial approach, a statistically-based method for the determination of impairment using varying exceedance percentages based upon the number of samples collected. The binomial approach results in a Type I statistical error that is significantly smaller than that of the previous approach of using a single percent exceedance.

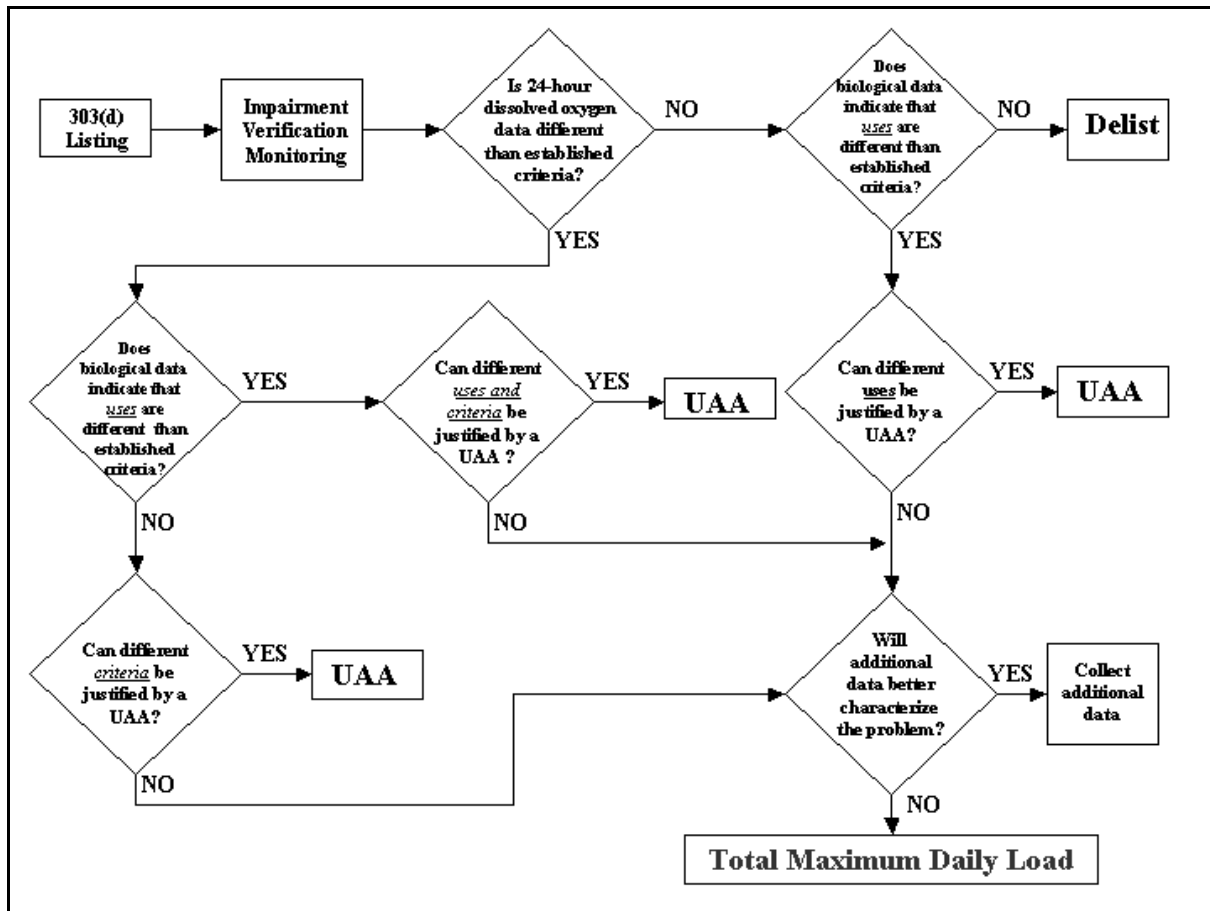


Figure 6 Conceptual Decision Framework

**Table 4. Upper Frio River Aquatic Life Assessment Summary**

Segment	Station ID	TMDL Station	TCEQ Station	Assessment Unit Number	Assessment Unit Description	Bacteria Support Status	Aquatic Life Support Status	24hr DO Avg Criteria	24hr DO Min Criteria
2113	13006	X	X	2113_01	25 miles surrounding SH 127	Fully Supporting	Partially Supporting	6 mg/L	4 mg/L
	13007	X	X	2113_02	Remainder of the segment	Fully Supporting	Fully Supporting		
	13008		X						
	15752		X						
	17892	X							

### QAPP Development

In order to ensure that data collected under this project were scientifically valid and legally defensible, a Quality Assurance Project Plan (QAPP) was developed. This process ensures that all data submitted to the TCEQ have been collected and analyzed in a way that defines its reliability and, therefore, can be used in TMDL development, stream standards modifications, permit decisions, and water quality assessments.

### Monitoring Plan Development

In accordance with the QAPP guidelines a monitoring plan was developed to provide the additional water quality data and information identified in the Historical Data Review as necessary to meet the project objectives. The data collected and assessed for this project included physical, chemical, biological, and hydrological parameters. The collection of these data was coordinated with the appropriate River Authority and TCEQ Region Offices. The monitoring plan was prepared in accordance with the guidelines established by TCEQ in the Surface Water Quality Monitoring Procedures Manual (TCEQ 2003). The monitoring plan identified the monitoring locations, the monitoring frequency, and the criteria for monitoring and data collection. The monitoring plan also identified the types of samples to be collected, the methods used to gather all data, and the parameters analyzed. Locations of the monitoring stations were determined using Global Positioning System (GPS) coordinates. The monitoring plan listed in detail the equipment and supplies necessary to carry out the monitoring effort.

### Data Requirements

Data collected for the Upper Frio River met requirements for several different outcomes: de-listing of the segment, standards adjustment, or establishing a TMDL. The primary goal in data collection was to ensure that enough data were collected over the critical sampling period to adequately assess, and, if necessary, re-classify the uses for the Upper Frio River.

### Station Selection

Several factors were considered when sampling stations were selected for impairment verification:

- Accessibility
- Data history
- Water availability
- Repetitiveness
- Geographic location.

### **Physical/Chemical Sample Collection**

Parameters measured at each sampling station are listed in Table 5. In-stream, multi-probe, data loggers measured dissolved oxygen, temperature, pH, and conductivity over a 24-hour period. Flow and stream cross-sections were also measured to estimate loading of various chemical constituents. Samples were collected for laboratory analysis during each station visit. Analysis of these samples included routine TCEQ water monitoring constituents. All sampling procedures were included in the QAPP.

### **Biological Sample Collection**

Biological data were collected on the segment during three separate events. Nekton, benthic, and habitat data were collected during each of these sampling events in accordance with the TCEQ Receiving Waters Assessment Procedures Manual (TNRCC 1999b). These data were collected primarily to support a use reclassification, if necessary. Volume 2 presents all biological results and analyses.

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**Table 5. Parameters Measured.**

PARAMETER	UNITS	METHOD TYPE	METHOD	STORET Code	AWRL	PRECISION of laboratory duplicates (RPD)	ACCURACY of matrix spikes % Recovery	AWRL Calibration Standard % Recovery	Laboratory Performing Analysis
<i>pH</i>	<i>pH. units</i>	<i>Multi parameter probe</i>	<i>EPA 150.1and TCEQ SOP</i>	<i>00400</i>	<i>NA</i>	<i>10</i>	<i>NA</i>	<i>NA</i>	<i>Field</i>
<i>DO</i>	<i>mg/L</i>	<i>Multi parameter probe</i>	<i>EPA 360.1and TCEQ SOP</i>	<i>00300</i>	<i>NA</i>	<i>10</i>	<i>NA</i>	<i>NA</i>	<i>Field</i>
<i>DO 24-hr min.</i>	<i>mg/L</i>	<i>Multi parameter probe</i>	<i>EPA 360.1and TCEQ SOP</i>	<i>89855</i>	<i>NA</i>	<i>10</i>	<i>NA</i>	<i>NA</i>	<i>Field</i>
<i>DO 24-hr max.</i>	<i>mg/L</i>	<i>Multi parameter probe</i>	<i>EPA 360.1and TCEQ SOP</i>	<i>89856</i>	<i>NA</i>	<i>10</i>	<i>NA</i>	<i>NA</i>	<i>Field</i>
<i>DO 24-hr avg.</i>	<i>mg/L</i>	<i>Multi parameter probe</i>	<i>EPA 360.1and TCEQ SOP</i>	<i>89857</i>	<i>NA</i>	<i>10</i>	<i>NA</i>	<i>NA</i>	<i>Field</i>
<i>DO number of meas.</i>	<i>mg/L</i>	<i>Multi parameter probe</i>	<i>EPA 360.1and TCEQ SOP</i>	<i>89858</i>	<i>NA</i>	<i>10</i>	<i>NA</i>	<i>NA</i>	<i>Field</i>
<i>Conductivity</i>	<i>uS/cm</i>	<i>Multi parameter probe</i>	<i>EPA 120.1and TCEQ SOP</i>	<i>00094</i>	<i>NA</i>	<i>10</i>	<i>NA</i>	<i>NA</i>	<i>Field</i>
<i>Temperature</i>	<i>°Celsius</i>	<i>Multi parameter probe</i>	<i>EPA 170.1and TCEQ SOP</i>	<i>00010</i>	<i>NA</i>	<i>10</i>	<i>NA</i>	<i>NA</i>	<i>Field</i>
<i>Secchi Depth</i>	<i>meters</i>	<i>Secchi disc</i>	<i>TCEQ SOP</i>	<i>00078</i>	<i>NA</i>	<i>20</i>	<i>NA</i>	<i>NA</i>	<i>Field</i>
<i>Days since last significant rainfall</i>	<i>days</i>		<i>TCEQ SOP</i>	<i>72053</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>Field</i>
<i>Flow</i>	<i>cfs</i>		<i>TCEQ SOP and ADCP</i>	<i>00061</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>Field</i>
<i>Flow Severity</i>	<i>1-no flow, 2-low,</i>		<i>TCEQ SOP</i>	<i>01351</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>NA</i>	<i>Field</i>



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PARAMETER	UNITS	METHOD TYPE	METHOD	STORET Code	AWRL	PRECISION of laboratory duplicates (RPD)	ACCURACY of matrix spikes % Recovery	AWRL Calibration Standard % Recovery	Laboratory Performing Analysis
	<i>3-normal, 4-flood, 5-high, 6-dry</i>								
<i>TSS</i>	<i>mg/L</i>	<i>gravimetric</i>	<i>EPA 160.2</i>	<i>00530</i>	<i>4.0</i>	<i>20</i>	<i>NA</i>	<i>NA</i>	<i>SATL</i>
<i>TOC</i>	<i>mg/L</i>	<i>combustion-infrared</i>	<i>SM 5310B</i>	<i>00680</i>					<i>SATL</i>
<i>Alkalinity</i>	<i>mg/L</i>	<i>titrimetric</i>	<i>EPA 310.1</i>	<i>00410</i>	<i>10</i>	<i>10</i>	<i>80-120</i>	<i>NA</i>	<i>SATL</i>
<i>Sulfate</i>	<i>mg/L</i>	<i>turbidimetric</i>	<i>EPA 375.4</i>	<i>00945</i>	<i>10</i>	<i>10</i>	<i>80-120</i>	<i>75-125</i>	<i>SATL</i>
<i>Chloride</i>	<i>mg/L</i>	<i>titrimetric</i>	<i>SM 4500</i>	<i>00940</i>	<i>10</i>	<i>10</i>	<i>80-120</i>	<i>75-125</i>	<i>SATL</i>
<i>Ammonia-N</i>	<i>mg/L</i>	<i>titrimetric</i>	<i>EPA 350.2</i>	<i>00610</i>	<i>0.06</i>	<i>10</i>	<i>80-120</i>	<i>75-125</i>	<i>SATL</i>
<i>O-phosphate-P</i>	<i>mg/L</i>	<i>colorimetric</i>	<i>EPA 365.2</i>	<i>00671</i>	<i>0.04</i>	<i>10</i>	<i>80-120</i>	<i>75-125</i>	<i>SATL</i>
<i>Nitrate/nitrite-N</i>	<i>mg/L</i>	<i>spectro-photometer</i>	<i>EPA 353.3</i>	<i>00631</i>	<i>0.04</i>	<i>10</i>	<i>80-120</i>	<i>75-125</i>	<i>SATL</i>
<i>Total Phosphorus</i>	<i>mg/L</i>	<i>colorimetric</i>	<i>EPA 365.2</i>	<i>00665</i>	<i>0.04</i>	<i>10</i>	<i>80-120</i>	<i>75-125</i>	<i>SATL</i>
<i>Total Kjeldahl Nitrogen</i>	<i>mg/L</i>	<i>ion selective electrode</i>	<i>EPA 351.3</i>	<i>00625</i>	<i>0.2</i>	<i>10</i>	<i>80-120</i>	<i>75-125</i>	<i>SATL</i>
<i>Chlorophyll-A</i>	<i>ug/L</i>	<i>colorimetric</i>	<i>SM 10200-H</i>	<i>32211</i>	<i>5.0</i>	<i>20</i>	<i>NA</i>	<i>75-125</i>	<i>SATL</i>
<i>Pheophytin-A</i>	<i>ug/L</i>	<i>colorimetric</i>	<i>SM 10200-H</i>	<i>32218</i>	<i>3.0</i>	<i>20</i>	<i>NA</i>	<i>75-125</i>	<i>SATL</i>
<i>CBOD</i>	<i>mg/L</i>	<i>incubation</i>	<i>EPA 405.1</i>	<i>00307</i>	<i>2.0</i>	<i>10</i>	<i>N/A</i>	<i>N/A</i>	<i>SATL</i>

SATL: San Antonio Testing Laboratory\

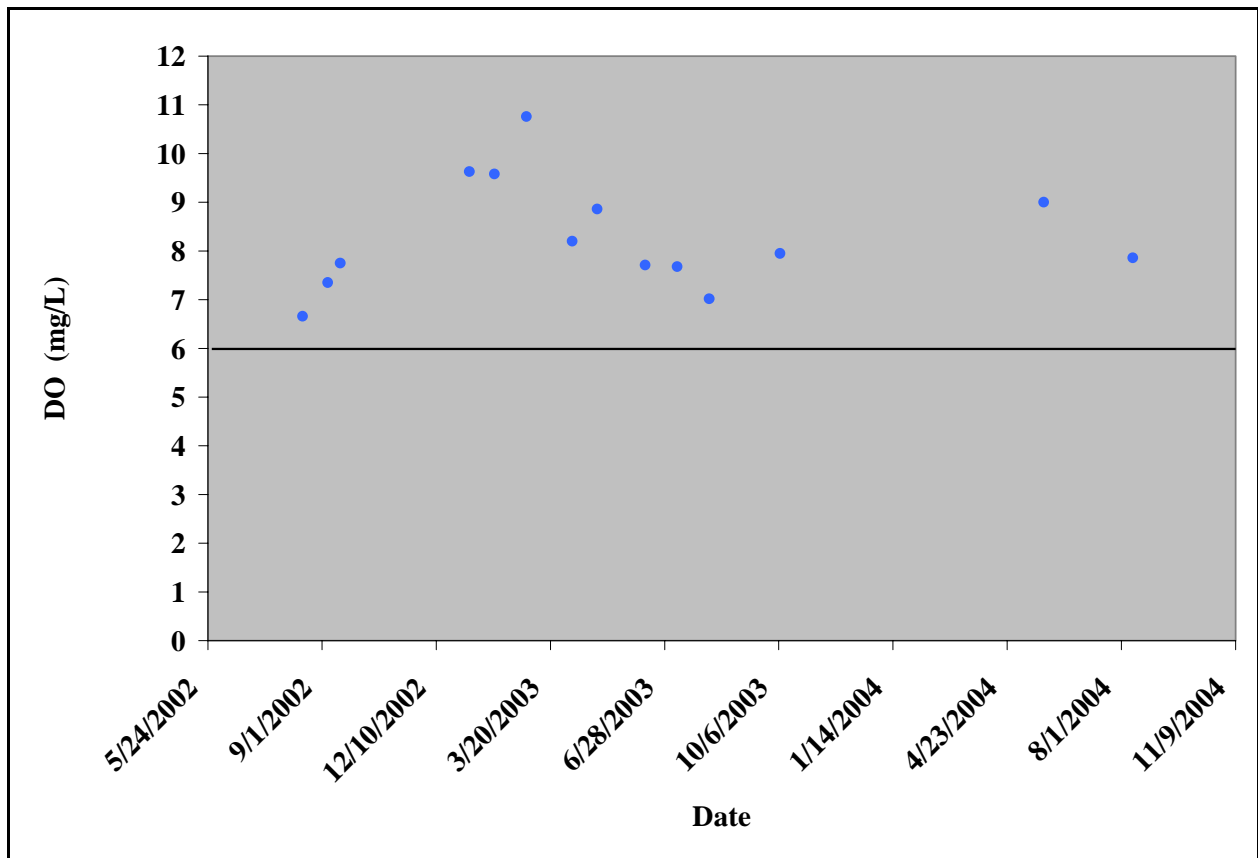
AWRL: Ambient Water Reporting Limit

## RESULTS

The 24-hour DO average values collected during impairment verification for Assessment Units 1 and 2 (Table 6) were plotted against the TCEQ standard of 6 mg/L (Figures 7 and 8). There were no 24-hour averages that were below the criterion associated with exceptional aquatic life use. The 24-hour minimum values collected during impairment verification for Assessment Units 1 and 2 (Table 7) were plotted against the TCEQ standard of 4 mg/L (Figures 9 and 10). No minimum values were below the standard set by TCEQ. Statistics for the non-critical field and laboratory parameters are presented in Tables 8 and 9 respectively.

**Table 6. Statistics for 24-hour DO average values.**

Assessment Unit	Station Identification	Number of Samples	Mean Value	Standard Deviation	Maximum Value	Minimum Value
2113_01	13006	14	8.29	1.14	10.76	6.66
2113_02	13007	11	8.20	1.13	10.58	6.79
	17892	13	7.88	1.01	9.56	6.27



**Figure 7. Plot of average 24-hour DO measurements at Station 13006 (Assessment Unit 1)**

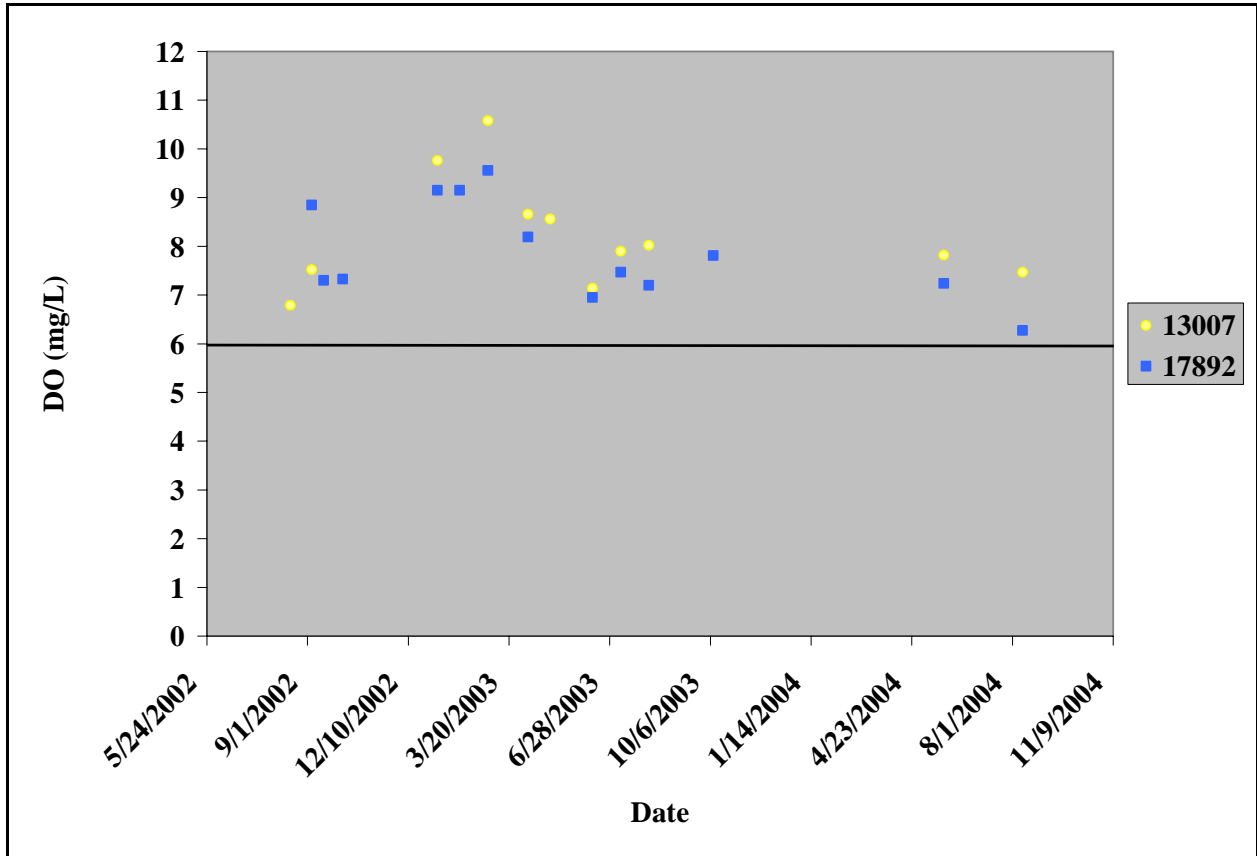


Figure 8. Plot of average 24-hour DO measurements at Stations 13007 and 17892 (Assessment Unit 2)

Table 7. Statistics for 24-hour DO Minimum Values

Assessment Unit	Station Identification	Number of Samples	Mean Value	Standard Deviation	Maximum Value	Minimum Value
2113_01	13006	14	7.72	1.20	10.38	6.14
2113_02	13007	11	7.17	1.22	9.85	6.03
	17892	13	7.22	0.97	8.92	5.91

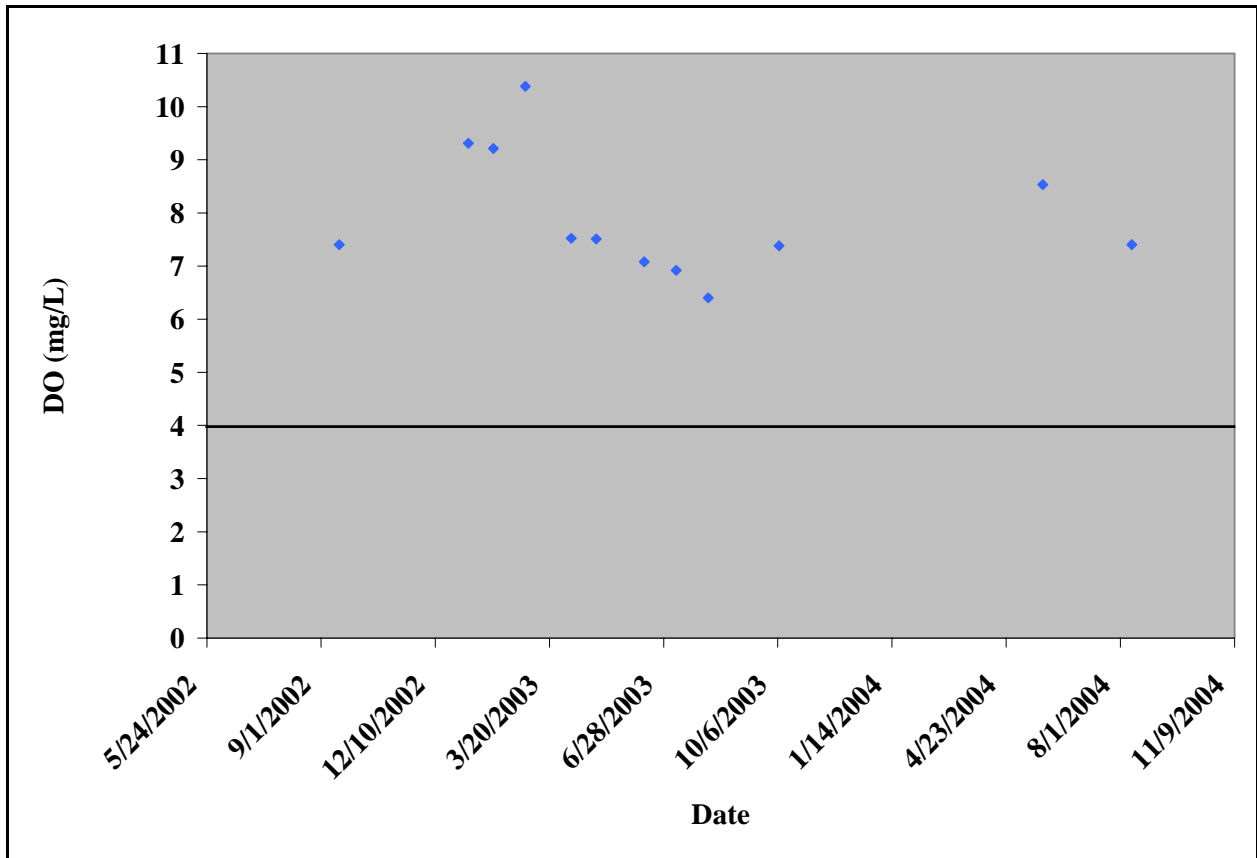


Figure 9. Plot of Minimum 24-hour DO values at Station 13006 (Assessment Unit 1)

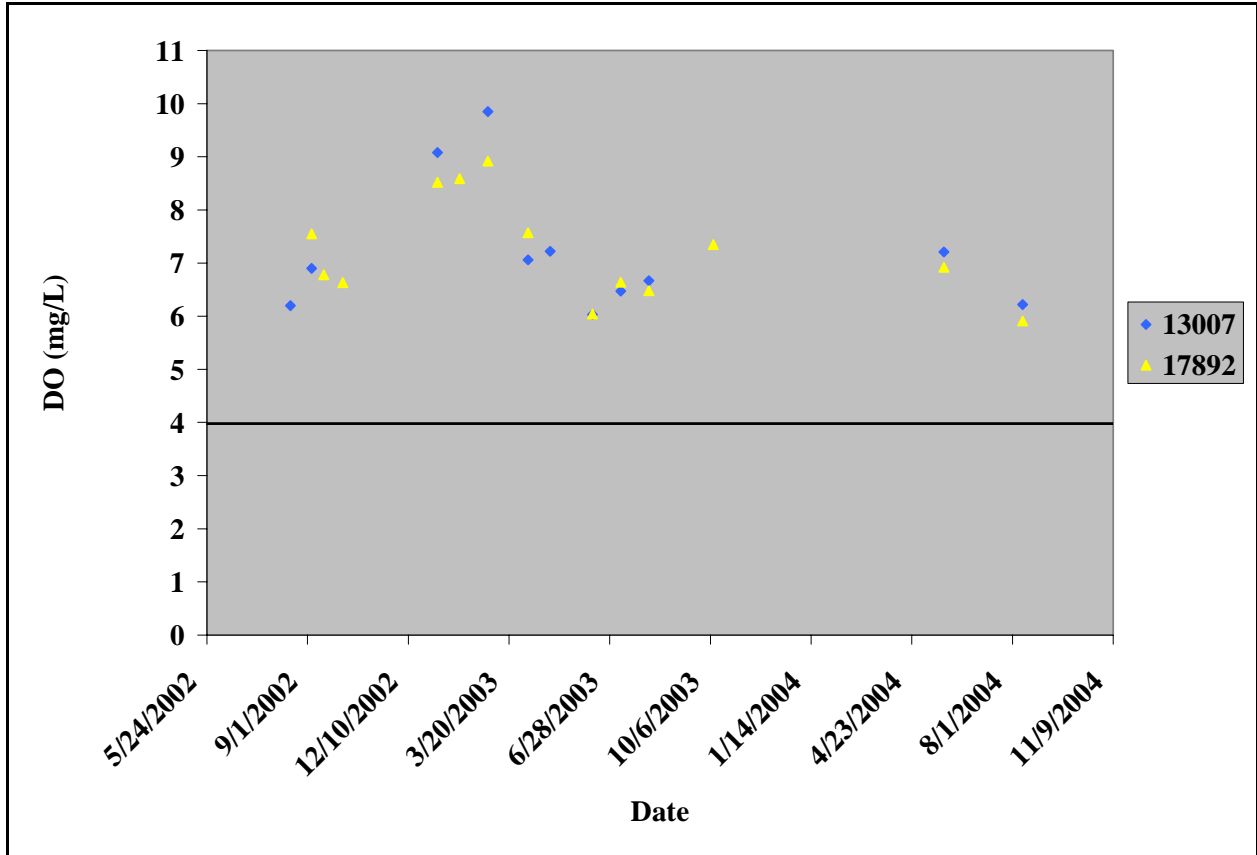


Figure 10. Plot of Minimum 24-hour DO values at Stations 13007 and 17892 (Assessment Unit 2)

Table 8. Statistics for non-critical field parameters

Station Identification	Parameters	Number of Samples	Mean Value	Standard Deviation	Maximum Value	Minimum Value
13006	Temp (Celsius)	15	22.35	5.64	28.09	11.10
13007	Temp (Celsius)	15	21.75	5.42	28.39	11.03
17892	Temp (Celsius)	15	21.37	4.08	25.60	13.85
13006	pH	13	8.00	0.30	8.56	7.48
13007	pH	13	8.00	0.14	8.28	7.77
17892	pH	14	7.81	0.24	8.43	7.49
13006	Spot DO (mg/L)	13	7.99	1.29	10.58	6.31
13007	Spot DO (mg/L)	11	7.55	1.46	10.28	5.67
17892	Spot DO (mg/L)	12	7.35	1.06	9.45	6.17
13006	Specific Conductivity (microsiemens/cm)	12	410.92	24.69	451.00	367.00
13007	Specific Conductivity (microsiemens/cm)	13	415.46	29.38	464.00	353.00
17892	Specific Conductivity (microsiemens/cm)	13	433.54	30.64	508.00	381.00
13006	24hr DO Max (mg/L)	14	8.99	1.14	11.13	7.53
13007	24hr DO Max (mg/L)	11	9.45	1.18	11.46	7.84
17892	24hr DO Max (mg/L)	13	8.66	1.06	10.21	6.76
13006	Flow (cfs)	15	99.26	46.13	188.36	30.00
13007	Flow (cfs)	9	105.68	37.95	162.24	60.78
17892	Flow (cfs)	13	74.08	19.07	95.27	35.13

**Table 9. Statistics for laboratory parameters**

Station Identification	Parameter	Number of Samples	Mean Value	Standard Deviation	Maximum Value	Minimum Value
13006	Alkalinity (mg/L)	15	197.78	26.22	257.21	172.25
13007	Alkalinity (mg/L)	15	237.32	67.68	421.25	184.26
17892	Alkalinity (mg/L)	15	206.14	42.57	333.26	142.30
13006	Chloride (mg/L)	13	13.65	6.24	30.00	9.88
13007	Chloride (mg/L)	13	13.20	5.40	28.00	9.95
17892	Chloride (mg/L)	13	12.97	6.29	32.00	9.71
13006	Sulfate (mg/L)	11	11.65	7.43	25.50	3.18
13007	Sulfate (mg/L)	11	11.24	6.79	22.60	3.18
17892	Sulfate (mg/L)	12	16.28	23.61	89.74	3.18
13006	TSS (mg/L)	3	< 1.00	N/A	< 1.00	< 1.00
13007	TSS (mg/L)	3	1.33	0.58	2.00	< 1.00
17892	TSS (mg/L)	3	5.67	8.08	15.00	< 1.00
13006	Ammonia (mg/L)	12	0.47	0.48	1.00	< 0.03
13007	Ammonia (mg/L)	12	0.50	0.46	1.00	< 0.03
17892	Ammonia (mg/L)	12	0.46	0.48	1.00	< 0.03
13006	Phosphate (mg/L)	10	0.02	0.03	0.10	< 0.01
13007	Phosphate (mg/L)	10	0.02	0.03	0.10	< 0.01
17892	Phosphate (mg/L)	10	0.03	0.04	0.10	< 0.01
13006	Orthophosphate (mg/L)	12	0.36	1.16	4.06	< 0.01
13007	Orthophosphate (mg/L)	12	0.37	1.20	4.17	< 0.01
17892	Orthophosphate (mg/L)	12	0.43	1.13	3.90	< 0.01
13006	TKN (mg/L)	10	0.76	0.40	1.00	< 0.05
13007	TKN (mg/L)	10	0.76	0.41	1.00	< 0.05
17892	TKN (mg/L)	10	0.76	0.41	1.00	< 0.05
13006	TOC (mg/L)	15	2.50	1.67	6.09	< 1.00
13007	TOC (mg/L)	15	2.69	2.42	9.89	< 1.00
17892	TOC (mg/L)	15	2.71	1.83	5.76	< 1.00
13006	Chlorophyll A (ug/L)	15	0.54	0.55	2	< 0.25
13007	Chlorophyll A (ug/L)	15	0.52	0.51	2	< 0.25
17892	Chlorophyll A (ug/L)	15	1.17	2.50	10	< 0.25
13006	Phenophytin A (ug/L)	15	0.52	0.51	2	< 0.25
13007	Phenophytin A (ug/L)	15	2.01	5.94	23.4	< 0.25
17892	Phenophytin A (ug/L)	15	0.95	1.33	5.00	< 0.25
13006	Nitrate/Nitrite (mg/L)	11	1.50	3.32	11.48	< 0.05
13007	Nitrate/Nitrite (mg/L)	11	0.39	0.27	1.00	0.01
17892	Nitrate/Nitrite (mg/L)	11	0.45	0.27	1.00	< 0.05

## DISCUSSION

Water quality assessment has improved dramatically with introduction of new methodologies. This includes the development of assessment units on the Upper Frio River, use of the binomial approach for analysis, and the use of 24-hour dissolved oxygen measurements. The most significant improvement directly related to data collected on Segment 2113 is the use of 24-hour dissolved-oxygen averages in place of the historically used instantaneous measurements. The 24-hour average gives a more accurate representation of the true health of the stream in relation to dissolved-oxygen levels. In addition the use of this parameter allows for a more realistic comparison to the 24-hour criterion. Data collected by CBI on the Upper Frio River indicates no impairment due to depressed levels of dissolved oxygen in the water. Each sampling event at each station location produced 24-hour dissolved-average values above the 6 mg/L criterion established by the TCEQ as well as 24-hour dissolved-oxygen minimum values above the 4 mg/L TCEQ criterion. Routine water samples yielded no significant levels of nutrient impairment in the segment. The Upper Frio River will be reassessed by the TCEQ in the 2006 305(b) Water Quality Inventory, and recommended for removal from the 303(d) List for nonsupport of aquatic life uses.

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### **ACKNOWLEDGEMENTS**

This project was funded in part by Clean Water Act, Section 106: Water Pollution Control Program Grant (EPA Grant # 98665302) and Clean Water Act, Section 319: Non-point Source Program Grant.



**Appendix A**  
**Fact Sheets**

## Upper Frio River

Segment: 2113 Nueces River Basin

<b>Basin number:</b>	21
<b>Basin group:</b>	E
<b>Water body description:</b>	From a point 100 meters (110 yards) upstream of US 90 in Uvalde County to the confluence of the West Frio River and the East Frio River in Real County
<b>Water body classification:</b>	Classified
<b>Water body type:</b>	Freshwater Stream
<b>Water body length / area:</b>	47 Miles
<b>Water body uses:</b>	Aquatic Life Use, Contact Recreation Use, General Use, Fish Consumption Use, Public Water Supply Use

<b>Standards Not Met in Previous Years</b>				
<b>Assessment Area</b>	<b>Use</b>	<b>Support Status</b>	<b>Parameter</b>	<b>Category</b>
25 miles surrounding SH 127	Aquatic Life Use	Partially Supporting	depressed dissolved oxygen	5c

**Additional Information:** The contact recreation, public water supply and general uses are fully supported. The fish consumption use was not assessed.

This segment was identified on the 2000 303(d) List as partially supporting the aquatic life use due to depressed dissolved oxygen. Because an insufficient number of 24-hour dissolved oxygen values were available in 2002 to determine if the criterion is supported, this segment will be identified as not meeting the standard for dissolved oxygen until sufficient 24-hour measurements are available to demonstrate support of the criterion.

<b>Monitoring sites used:</b>		
<b>Assessment Area</b>	<b>Station ID</b>	<b>Station Description</b>
25 miles surrounding SH 127	13006	FRIO RIVER AT SH 127 EAST OF CONCAN
Remainder of segment	13007	FRIO RIVER AT MAGERS CROSSING
Remainder of segment	13008	FRIO RIVER AT GARNER STATE PARK DAM
Remainder of segment	15752	FRIO RIVER AT JAKE'S HOLE APPROX. 1000 FT. DOWNSTREAM OF FM 1120, 6.5 MI. SOUTH OF LEAKEY

**Segment ID: 2113      Water body name: Upper Frio River**

Freshwater Stream      Nueces River Basin      Total size: 47 Miles

Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
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**Aquatic Life Use**

Dissolved Oxygen grab average	No Concern	25 miles surrounding SH 127	25	36	0	
Dissolved Oxygen grab minimum	Fully Supporting	25 miles surrounding SH 127	25	36	0	
Dissolved Oxygen 24hr average	Not Assessed	25 miles surrounding SH 127	25	0		
Dissolved Oxygen 24hr minimum	Not Assessed	25 miles surrounding SH 127	25	0		
Overall Aquatic Life Use	Fully Supporting	25 miles surrounding SH 127	25			
Overall Aquatic Life Use	Not Assessed	Remainder of segment	22			

**Contact Recreation Use**

E. coli single sample	Not Assessed	25 miles surrounding SH 127	25	0		
E. coli geometric mean	Not Assessed	25 miles surrounding SH 127	25	0		
Fecal coliform single sample	Fully Supporting	25 miles surrounding SH 127	25	10	0	
Fecal coliform geometric mean	Fully Supporting	25 miles surrounding SH 127	25	10		21
Overall Recreation Use	Fully Supporting	25 miles surrounding SH 127	25			
Overall Recreation Use	Not Assessed	Remainder of segment	22			

**General Use**

Water Temperature	Fully Supporting	25 miles surrounding SH 127	25	41	0	
pH	Fully Supporting	25 miles surrounding SH 127	25	35	0	
Chloride	Fully Supporting	25 miles surrounding SH 127	25	49		11.4
Chloride	Fully Supporting	Remainder of segment	22	49		11.4
Sulfate	Fully Supporting	25 miles surrounding SH 127	25	49		14

**Segment ID: 2113      Water body name: Upper Frio River**

Freshwater Stream                                  Nueces River Basin                                  Total size:      47      Miles

Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
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**General Use** (continued)

Sulfate	Fully Supporting	Remainder of segment	22	49		14
Total Dissolved Solids	Fully Supporting	25 miles surrounding SH 127	25	66		242.28
Total Dissolved Solids	Fully Supporting	Remainder of segment	22	66		242.28
Overall General Use	Fully Supporting	25 miles surrounding SH 127	25			
Overall General Use	Fully Supporting	Remainder of segment	22			

**Fish Consumption Use**

Overall Fish Consumption Use	Not Assessed	25 miles surrounding SH 127	25			
Overall Fish Consumption Use	Not Assessed	Remainder of segment	22			

**Public Water Supply Use**

Finished Water: Running Avg	Fully Supporting	25 miles surrounding SH 127	25			
Surface Water: Long-term average Nitrate+Nitrite Nitrogen	Fully Supporting	25 miles surrounding SH 127	25	61		0.65
Surface Water: Running average Nitrate+Nitrite Nitrogen	Fully Supporting	25 miles surrounding SH 127	25	61		
Overall Public Water Supply Use	Fully Supporting	25 miles surrounding SH 127	25			
Overall Public Water Supply Use	Fully Supporting	Remainder of segment	22			

**Overall Use Support**

	Fully Supporting	25 miles surrounding SH 127	25			
	Fully Supporting	Remainder of segment	22			

**Nutrient Enrichment Concern**

Ammonia Nitrogen	No Concern	25 miles surrounding SH 127	25	42	0	
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**Segment ID: 2113      Water body name: Upper Frio River**

Freshwater Stream                                  Nueces River Basin                                  Total size:      47      Miles

Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
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**Nutrient Enrichment Concern** (continued)

Nitrite + Nitrate Nitrogen	No Concern	25 miles surrounding SH 127	25	43	0	
Orthophosphorus	No Concern	25 miles surrounding SH 127	25	43	0	
Total Phosphorus	No Concern	25 miles surrounding SH 127	25	42	0	
Overall Nutrient Enrichment Concerns	No Concern	25 miles surrounding SH 127	25			
Overall Nutrient Enrichment Concerns	Not Assessed	Remainder of segment	22			

**Algal Growth Concern**

Chlorophyll a	No Concern	25 miles surrounding SH 127	25	18	0	
Chlorophyll a	Not Assessed	Remainder of segment	22			

**Sediment Contaminants Concern**

Overall Sediment Contaminant Concerns	Not Assessed	25 miles surrounding SH 127	25			
Overall Sediment Contaminant Concerns	Not Assessed	Remainder of segment	22			

**Fish Tissue Contaminants Concern**

Overall Fish Tissue Contaminant Concerns	Not Assessed	25 miles surrounding SH 127	25			
Overall Fish Tissue Contaminant Concerns	Not Assessed	Remainder of segment	22			

**Public Water Supply Concern**

Finished Water: Chloride	No Concern	25 miles surrounding SH 127	25			
Finished Water: Chloride	No Concern	Remainder of segment	22			
Finished Water: Sulfate	No Concern	25 miles surrounding SH 127	25			
Finished Water: Sulfate	No Concern	Remainder of segment	22			

**Segment ID: 2113**      **Water body name: Upper Frio River**

Freshwater Stream      Nueces River Basin      Total size: 47 Miles

Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
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**Public Water Supply Concern** (continued)

Finished Water: Total Dissolved Solids	No Concern	25 miles surrounding SH 127	25			
Finished Water: Total Dissolved Solids	No Concern	Remainder of segment	22			
Finished Water: MTBE	No Concern	25 miles surrounding SH 127	25			
Finished Water: MTBE	No Concern	Remainder of segment	22			
Finished Water: Perchlorate	Not Assessed	25 miles surrounding SH 127	25			
Finished Water: Perchlorate	Not Assessed	Remainder of segment	22			
Finished Water: Overall	No Concern	25 miles surrounding SH 127	25			
Finished Water: Overall	No Concern	Remainder of segment	22			
Surface Water: Chloride	No Concern	25 miles surrounding SH 127	25	49		11.4
Surface Water: Chloride	No Concern	Remainder of segment	22	49		11.4
Surface Water: Sulfate	No Concern	25 miles surrounding SH 127	25	49		14
Surface Water: Sulfate	No Concern	Remainder of segment	22	49		14
Surface Water: Total Dissolved Solids	No Concern	25 miles surrounding SH 127	25	66		242.28
Surface Water: Total Dissolved Solids	No Concern	Remainder of segment	22	66		242.28
Surface Water: Overall	No Concern	25 miles surrounding SH 127	25			
Surface Water: Overall	No Concern	Remainder of segment	22			
Overall Public Water Supply Concerns	No Concern	25 miles surrounding SH 127	25			
Overall Public Water Supply Concerns	No Concern	Remainder of segment	22			

**Narrative Criteria Concern**

Overall Narrative Criteria Concerns	No Concern	25 miles surrounding SH 127	25			
Overall Narrative Criteria Concerns	No Concern	Remainder of segment	22			

**Segment ID:** 2113      **Water body name:** Upper Frio River

Freshwater Stream

Nueces River Basin

Total size: 47 Miles

Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
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**Overall Secondary Concern**

	No Concern	25 miles surrounding SH 127	25			
	No Concern	Remainder of segment	22			

**Appendix B**  
**Raw Data**



Stationid	Enddate	STORECODE	DESCRIPTION	QTLT	VALUE
13007	8/6/2003	00814	Number of benthic invertivore species		0
17892	8/5/2003	00814	Number of benthic invertivore species		1
13006	8/6/2003	00814	Number of benthic invertivore species		1
13007	9/5/2002	00814	Number of benthic invertivore species		1
17892	9/4/2002	00814	Number of benthic invertivore species		1
13006	9/3/2002	00814	Number of benthic invertivore species		1
13006	8/6/2003	00816	Percentage of individuals as tolerants ex.G.affinis		8.1
13006	9/3/2002	00816	Percentage of individuals as tolerants ex.G.affinis		17.5
13007	8/6/2003	00816	Percentage of individuals as tolerants ex.G.affinis		17.6
17892	9/4/2002	00816	Percentage of individuals as tolerants ex.G.affinis		16
17892	8/5/2003	00816	Percentage of individuals as tolerants ex.G.affinis		2.4
13007	9/5/2002	00816	Percentage of individuals as tolerants ex.G.affinis		35
13007	9/5/2002	00817	Number of individuals/seine haul		0
17892	9/4/2002	00817	Number of individuals/seine haul		2
13006	8/6/2003	00817	Number of individuals/seine haul		15.3
13006	9/3/2002	00817	Number of individuals/seine haul		46.33
17892	8/5/2003	00817	Number of individuals/seine haul		95.3
13007	8/6/2003	00817	Number of individuals/seine haul		14.7
13006	8/6/2003	00818	Number of individuals/min electrofishing		2.87
13006	9/3/2002	00818	Number of individuals/min electrofishing		9.6
17892	8/5/2003	00818	Number of individuals/min electrofishing		2.93
17892	9/4/2002	00818	Number of individuals/min electrofishing		5
13007	9/5/2002	00818	Number of individuals/min electrofishing		5.3
13007	8/6/2003	00818	Number of individuals/min electrofishing		7.3
17892	8/5/2003	00819	Percentage of ind. as non-native species		0
13007	9/5/2002	00819	Percentage of ind. as non-native species		1.25
13007	8/6/2003	00819	Percentage of ind. as non-native species		0
17892	9/4/2002	00819	Percentage of ind. as non-native species		0
13006	9/3/2002	00819	Percentage of ind. as non-native species		0.24
13006	8/6/2003	00819	Percentage of ind. as non-native species		0.74
17892	8/5/2003	00820	Regional Criteria IBI Score	Exc	55
13006	8/6/2003	00820	Regional Criteria IBI Score	Hgh	51
13007	9/5/2002	00820	Regional Criteria IBI Score	Hgh	47
13007	8/6/2003	00820	Regional Criteria IBI Score	Hgh	49
17892	9/4/2002	00820	Regional Criteria IBI Score	Int	41
13006	9/3/2002	00820	Regional Criteria IBI Score	Hgh	51
13007	8/6/2003	00832	Total RBP Score	Hgh	36
13006	8/6/2003	00832	Total RBP Score	Hgh	31
17892	8/5/2003	00832	Total RBP Score	Hgh	31
17892	9/4/2002	00832	Total RBP Score	Hgh	33
13007	9/5/2002	00832	Total RBP Score	Hgh	34
13006	9/3/2002	00832	Total RBP Score	Hgh	33
17892	9/4/2002	00833	Habitat Quality Index	Hgh	23
13007	8/6/2003	00833	Habitat Quality Index	Hgh	22
17892	8/5/2003	00833	Habitat Quality Index	Hgh	24
13006	8/6/2003	00833	Habitat Quality Index	Hgh	23
13006	9/3/2002	00833	Habitat Quality Index	Hgh	24
13007	9/5/2002	00833	Habitat Quality Index	Hgh	25
17892	7/9/2003	00940	CHLORIDE (MG/L AS CL)		9.85
13007	5/25/2004	00940	CHLORIDE (MG/L AS CL)		20
17892	8/15/2002	00940	CHLORIDE (MG/L AS CL)		12.2
17892	5/25/2004	00940	CHLORIDE (MG/L AS CL)		18
13006	2/27/2003	00940	CHLORIDE (MG/L AS CL)		9.88
13006	6/11/2003	00940	CHLORIDE (MG/L AS CL)		10.17
13007	8/15/2002	00940	CHLORIDE (MG/L AS CL)		14.6
13007	6/11/2003	00940	CHLORIDE (MG/L AS CL)		10.32
17892	4/8/2003	00940	CHLORIDE (MG/L AS CL)		9.98
13006	4/8/2003	00940	CHLORIDE (MG/L AS CL)		10.01
13007	4/8/2003	00940	CHLORIDE (MG/L AS CL)		10.29
28632	8/11/2004	00940	CHLORIDE (MG/L AS CL)		16
13006	8/15/2002	00940	CHLORIDE (MG/L AS CL)		11.9
13006	10/7/2003	00940	CHLORIDE (MG/L AS CL)		30
17892	6/11/2003	00940	CHLORIDE (MG/L AS CL)		9.71
13007	2/27/2003	00940	CHLORIDE (MG/L AS CL)		9.95
13007	8/11/2004	00940	CHLORIDE (MG/L AS CL)		16
13006	9/17/2002	00940	CHLORIDE (MG/L AS CL)		14.71
13007	9/17/2002	00940	CHLORIDE (MG/L AS CL)		10
13007	8/6/2003	00940	CHLORIDE (MG/L AS CL)		10.57
17892	10/6/2002	00940	CHLORIDE (MG/L AS CL)		10.42
13007	1/8/2003	00940	CHLORIDE (MG/L AS CL)		10.51
13006	7/9/2003	00940	CHLORIDE (MG/L AS CL)		10.15
13006	8/11/2004	00940	CHLORIDE (MG/L AS CL)		14

17892	1/8/2003	00940	CHLORIDE (MG/L AS CL)	9.78
17892		00940	CHLORIDE (MG/L AS CL)	
17892	1/30/2003	00940	CHLORIDE (MG/L AS CL)	10.54
17892	9/17/2002	00940	CHLORIDE (MG/L AS CL)	9.74
13007	1/30/2003	00940	CHLORIDE (MG/L AS CL)	10.77
13006	8/6/2003	00940	CHLORIDE (MG/L AS CL)	10.68
13006	5/25/2004	00940	CHLORIDE (MG/L AS CL)	24
13007	7/9/2003	00940	CHLORIDE (MG/L AS CL)	10.08
13007	10/6/2002	00940	CHLORIDE (MG/L AS CL)	10.46
13006	1/30/2003	00940	CHLORIDE (MG/L AS CL)	10.96
17892	2/27/2003	00940	CHLORIDE (MG/L AS CL)	10.07
17892	10/7/2003	00940	CHLORIDE (MG/L AS CL)	32
13006	10/6/2002	00940	CHLORIDE (MG/L AS CL)	10.71
28632	5/25/2004	00940	CHLORIDE (MG/L AS CL)	24
13006	1/8/2003	00940	CHLORIDE (MG/L AS CL)	10.27
13007	10/7/2003	00940	CHLORIDE (MG/L AS CL)	28
17892	8/6/2003	00940	CHLORIDE (MG/L AS CL)	10.26
17892	8/11/2004	00940	CHLORIDE (MG/L AS CL)	16
13007	4/8/2003	00945	SULFATE (MG/L AS SO4)	< 7.2
13007	1/8/2003	00945	SULFATE (MG/L AS SO4)	< 7.2
13006	8/15/2002	00945	SULFATE (MG/L AS SO4)	15.4
13006	4/8/2003	00945	SULFATE (MG/L AS SO4)	< 7.2
17892	10/7/2003	00945	SULFATE (MG/L AS SO4)	10
13006	10/7/2003	00945	SULFATE (MG/L AS SO4)	21
13006	5/25/2004	00945	SULFATE (MG/L AS SO4)	25.5
13007	8/11/2004	00945	SULFATE (MG/L AS SO4)	21.7
13006	7/9/2003	00945	SULFATE (MG/L AS SO4)	< 7.2
13007	6/11/2003	00945	SULFATE (MG/L AS SO4)	< 7.2
13006	1/30/2003	00945	SULFATE (MG/L AS SO4)	3.18
13006	2/27/2003	00945	SULFATE (MG/L AS SO4)	< 7.2
17892	8/11/2004	00945	SULFATE (MG/L AS SO4)	16.3
13007	1/30/2003	00945	SULFATE (MG/L AS SO4)	3.18
28632	5/25/2004	00945	SULFATE (MG/L AS SO4)	23.1
13006	8/11/2004	00945	SULFATE (MG/L AS SO4)	19.9
17892	7/9/2003	00945	SULFATE (MG/L AS SO4)	< 7.2
17892	4/8/2003	00945	SULFATE (MG/L AS SO4)	< 7.2
17892	8/15/2002	00945	SULFATE (MG/L AS SO4)	12.6
17892	2/27/2003	00945	SULFATE (MG/L AS SO4)	< 7.2
17892		00945	SULFATE (MG/L AS SO4)	
13007	10/7/2003	00945	SULFATE (MG/L AS SO4)	15
13006	1/8/2003	00945	SULFATE (MG/L AS SO4)	< 7.2
17892	5/25/2004	00945	SULFATE (MG/L AS SO4)	20.3
17892	5/1/2003	00945	SULFATE (MG/L AS SO4)	89.74
17892	1/8/2003	00945	SULFATE (MG/L AS SO4)	< 7.2
28632	8/11/2004	00945	SULFATE (MG/L AS SO4)	22.6
13007	8/15/2002	00945	SULFATE (MG/L AS SO4)	18
17892	1/30/2003	00945	SULFATE (MG/L AS SO4)	3.18
13007	7/9/2003	00945	SULFATE (MG/L AS SO4)	< 7.2
17892	6/11/2003	00945	SULFATE (MG/L AS SO4)	< 7.2
13006	8/6/2003	00945	SULFATE (MG/L AS SO4)	< 7.2
13006	6/11/2003	00945	SULFATE (MG/L AS SO4)	< 7.2
13007	8/6/2003	00945	SULFATE (MG/L AS SO4)	< 7.2
13007	5/25/2004	00945	SULFATE (MG/L AS SO4)	22.6
17892	8/6/2003	00945	SULFATE (MG/L AS SO4)	< 7.2
13007	2/27/2003	00945	SULFATE (MG/L AS SO4)	< 7.2
13007	5/25/2004	01351	FLOW:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D	5
13007	9/17/2002	01351	FLOW:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D	3
13007	2/27/2003	01351	FLOW:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D	3
13006	1/8/2003	01351	FLOW:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D	3
13006	8/6/2003	01351	FLOW:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D	2
17892	10/6/2002	01351	FLOW:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D	3
13006	5/1/2003	01351	FLOW:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D	3
13007	10/6/2002	01351	FLOW:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D	3
17892	9/17/2002	01351	FLOW:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D	3
17892	8/11/2004	01351	FLOW:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D	3
17892	6/11/2003	01351	FLOW:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D	3
13007	5/1/2003	01351	FLOW:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D	3
28632	5/25/2004	01351	FLOW:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D	5
13007	8/6/2003	01351	FLOW:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D	2
17892	1/30/2003	01351	FLOW:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D	3
17892	10/7/2003	01351	FLOW:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D	3
13007	1/8/2003	01351	FLOW:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D	3
17892	5/25/2004	01351	FLOW:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D	3

13007	10/7/2003	01351	FLOW: 1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D	3
13006	2/27/2003	01351	FLOW: 1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D	3
17892	1/8/2003	01351	FLOW: 1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D	3
13006	4/8/2003	01351	FLOW: 1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D	3
13006	10/7/2003	01351	FLOW: 1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D	3
17892		01351	FLOW: 1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D	
13007	9/6/2002	01351	FLOW: 1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D	3
13006	8/11/2004	01351	FLOW: 1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D	3
13006	8/15/2002	01351	FLOW: 1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D	5
28632	8/11/2004	01351	FLOW: 1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D	3
13006	6/11/2003	01351	FLOW: 1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D	3
13007	8/15/2002	01351	FLOW: 1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D	5
17892	7/9/2003	01351	FLOW: 1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D	3
13007	7/9/2003	01351	FLOW: 1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D	3
17892	2/27/2003	01351	FLOW: 1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D	3
17892	9/6/2002	01351	FLOW: 1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D	3
17892	8/15/2002	01351	FLOW: 1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D	5
17892	5/1/2003	01351	FLOW: 1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D	3
13006	5/25/2004	01351	FLOW: 1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D	5
17892	8/6/2003	01351	FLOW: 1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D	2
13006	1/30/2003	01351	FLOW: 1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D	3
13007	8/11/2004	01351	FLOW: 1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D	3
13006	7/9/2003	01351	FLOW: 1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D	3
13006	9/6/2002	01351	FLOW: 1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D	3
13007	6/11/2003	01351	FLOW: 1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D	3
13007	1/30/2003	01351	FLOW: 1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D	3
13007	9/6/2002	31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, #/100ML	191
13007	9/17/2002	31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, #/100ML	109
13006	10/7/2003	31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, #/100ML	96
13007	5/1/2003	31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, #/100ML	33
13007	2/27/2003	31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, #/100ML	25.7
13007	10/7/2003	31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, #/100ML	96
17892	2/27/2003	31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, #/100ML	34.2
13006	2/27/2003	31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, #/100ML	17.14
17892	9/6/2002	31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, #/100ML	66
13007	1/30/2003	31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, #/100ML	51.4
17892	5/1/2003	31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, #/100ML	13
17892	9/17/2002	31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, #/100ML	58
13006	9/6/2002	31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, #/100ML	56
13006	9/17/2002	31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, #/100ML	48
17892	1/30/2003	31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, #/100ML	50
13006	5/1/2003	31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, #/100ML	172
13006	1/30/2003	31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, #/100ML	74.3
17892	10/7/2003	31616	FECAL COLIFORM, MEMBR FILTER, M-FC BROTH, #/100ML	84
13007	1/8/2003	31699	E. COLI, COLILERT, IDEXX METHOD, MPN/100ML	52.4
13006	10/6/2002	31699	E. COLI, COLILERT, IDEXX METHOD, MPN/100ML	45
17892	1/8/2003	31699	E. COLI, COLILERT, IDEXX METHOD, MPN/100ML	73.3
28632	5/25/2004	31699	E. COLI, COLILERT, IDEXX METHOD, MPN/100ML	25
13007	1/30/2003	31699	E. COLI, COLILERT, IDEXX METHOD, MPN/100ML	101.4
17892	8/15/2002	31699	E. COLI, COLILERT, IDEXX METHOD, MPN/100ML	50.4
13007	2/27/2003	31699	E. COLI, COLILERT, IDEXX METHOD, MPN/100ML	62
13007	5/25/2004	31699	E. COLI, COLILERT, IDEXX METHOD, MPN/100ML	42
13007	8/15/2002	31699	E. COLI, COLILERT, IDEXX METHOD, MPN/100ML	61.6
17892	2/27/2003	31699	E. COLI, COLILERT, IDEXX METHOD, MPN/100ML	72.2
13007	9/6/2002	31699	E. COLI, COLILERT, IDEXX METHOD, MPN/100ML	78.283
13006	8/15/2002	31699	E. COLI, COLILERT, IDEXX METHOD, MPN/100ML	44.8
13006	2/27/2003	31699	E. COLI, COLILERT, IDEXX METHOD, MPN/100ML	55.6
13006	4/8/2003	31699	E. COLI, COLILERT, IDEXX METHOD, MPN/100ML	21.1
13006	9/6/2002	31699	E. COLI, COLILERT, IDEXX METHOD, MPN/100ML	111.2
13006	1/8/2003	31699	E. COLI, COLILERT, IDEXX METHOD, MPN/100ML	19.5
17892	9/6/2002	31699	E. COLI, COLILERT, IDEXX METHOD, MPN/100ML	47.4
13006	5/25/2004	31699	E. COLI, COLILERT, IDEXX METHOD, MPN/100ML	33
13007	9/17/2002	31699	E. COLI, COLILERT, IDEXX METHOD, MPN/100ML	56
13007	4/8/2003	31699	E. COLI, COLILERT, IDEXX METHOD, MPN/100ML	40.8
17892	1/30/2003	31699	E. COLI, COLILERT, IDEXX METHOD, MPN/100ML	143.9
17892	9/17/2002	31699	E. COLI, COLILERT, IDEXX METHOD, MPN/100ML	> 28.8
17892	5/25/2004	31699	E. COLI, COLILERT, IDEXX METHOD, MPN/100ML	30
17892	4/8/2003	31699	E. COLI, COLILERT, IDEXX METHOD, MPN/100ML	35.4
17892	10/6/2002	31699	E. COLI, COLILERT, IDEXX METHOD, MPN/100ML	104.6
13006	1/30/2003	31699	E. COLI, COLILERT, IDEXX METHOD, MPN/100ML	139.6
13007	5/1/2003	31699	E. COLI, COLILERT, IDEXX METHOD, MPN/100ML	41.3
17892	6/11/2003	31699	E. COLI, COLILERT, IDEXX METHOD, MPN/100ML	117.8
13006	8/6/2003	31699	E. COLI, COLILERT, IDEXX METHOD, MPN/100ML	30.1



13007	1/8/2003	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	0.25
13007	8/6/2003	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	0.25
13006	5/25/2004	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	1
13007	5/25/2004	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	1
28632	5/25/2004	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	1
13007	7/9/2003	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	0.25
13006	1/8/2003	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	0.25
17892	8/11/2004	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	1
13006	10/7/2003	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	1
17892	8/15/2002	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	2
13006	9/17/2002	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	0.25
13006	4/8/2003	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	0.25
13007	9/6/2002	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	0.25
17892	6/11/2003	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	0.25
13007	4/8/2003	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	0.25
13007	8/15/2002	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	2
13007	9/17/2002	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	0.25
13006	9/6/2002	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	0.25
28632	8/11/2004	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	1
13007	5/1/2003	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	0.25
13006	8/11/2004	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	1
13006	8/15/2002	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	2
17892	9/17/2002	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	0.25
17892	5/1/2003	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	0.25
17892	10/6/2002	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	0.25
13006	5/1/2003	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	0.25
17892	4/8/2003	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	0.25
13006	2/27/2003	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	0.25
13007	8/11/2004	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	1
17892	9/6/2002	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	5
17892	5/25/2004	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	1.28
13007	6/11/2003	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	0.25
17892	8/5/2003	72052	STREAMBED SLOPE (FT/FT)		0.0051
13007	8/6/2003	72052	STREAMBED SLOPE (FT/FT)		0.0027
13007	9/5/2002	72052	STREAMBED SLOPE (FT/FT)		0.0027
13006	9/3/2002	72052	STREAMBED SLOPE (FT/FT)		0.0013
17892	9/4/2002	72052	STREAMBED SLOPE (FT/FT)		0.0051
13006	8/6/2003	72052	STREAMBED SLOPE (FT/FT)		0.0013
17892	8/6/2003	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)	>	14
17892	9/6/2002	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)	>	14
13006	5/25/2004	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)	>	7
13006	7/9/2003	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)	<	1
13007	8/15/2002	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)		14
13006	8/15/2002	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)		14
17892	8/15/2002	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)		14
17892	2/27/2003	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)		3
28632	8/11/2004	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)	>	14
17892	4/8/2003	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)	>	14
13007	8/6/2003	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)	>	14
13006	8/11/2004	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)	>	14
28632	5/25/2004	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)	>	7
13007	5/25/2004	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)	>	7
13007	8/11/2004	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)	>	14
13006	6/11/2003	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)	<	1
13006	2/27/2003	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)		3
13007	10/6/2002	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)	>	14
17892	9/17/2002	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)	>	14
13007	6/11/2003	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)	<	1
13006	10/6/2002	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)	>	14
13007	9/17/2002	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)	>	14
13006	4/8/2003	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)	>	14
17892		72053	DAYS SINCE PRECIPITATION EVENT (DAYS)		
13007	4/8/2003	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)	>	14
17892	7/9/2003	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)	<	1
13007	7/9/2003	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)	<	1
13007	1/8/2003	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)	>	14
17892	5/25/2004	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)	>	7
13006	1/8/2003	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)	>	14
13006	8/6/2003	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)	>	14
17892	8/11/2004	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)	>	14
13006	9/6/2002	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)	>	14
17892	1/8/2003	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)	>	14
17892	10/6/2002	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)	>	14

13006	9/17/2002	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)	>	14
13007	2/27/2003	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)		3
17892	6/11/2003	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)	<	1
13007	1/8/2003	74069	STREAM FLOW ESTIMATE (CFS)		30
13007	8/11/2004	74069	STREAM FLOW ESTIMATE (CFS)		160
13007	1/30/2003	74069	STREAM FLOW ESTIMATE (CFS)		70
17892	8/11/2004	74069	STREAM FLOW ESTIMATE (CFS)		160
17892	1/8/2003	74069	STREAM FLOW ESTIMATE (CFS)		24
17892		74069	STREAM FLOW ESTIMATE (CFS)		
17892	4/8/2003	74069	STREAM FLOW ESTIMATE (CFS)		60
13007	5/25/2004	74069	STREAM FLOW ESTIMATE (CFS)		100
13007	4/8/2003	74069	STREAM FLOW ESTIMATE (CFS)		90
13006	9/3/2002	84159	AVERAGE PERCENTAGE INSTREAM COVER		88
13006	8/6/2003	84159	AVERAGE PERCENTAGE INSTREAM COVER		36
13007	9/5/2002	84159	AVERAGE PERCENTAGE INSTREAM COVER		52
13007	8/6/2003	84159	AVERAGE PERCENTAGE INSTREAM COVER		28
17892	9/4/2002	84159	AVERAGE PERCENTAGE INSTREAM COVER		50
17892	8/5/2003	84159	AVERAGE PERCENTAGE INSTREAM COVER		27
17892	9/4/2002	84161	STREAM ORDER		5
13006	8/6/2003	84161	STREAM ORDER		5
17892	8/5/2003	84161	STREAM ORDER		5
13006	9/3/2002	84161	STREAM ORDER		5
13007	9/5/2002	84161	STREAM ORDER		5
13007	8/6/2003	84161	STREAM ORDER		5
17892	9/4/2002	89832	NUMBER OF LATERAL TRANSECTS MADE		6
13007	9/5/2002	89832	NUMBER OF LATERAL TRANSECTS MADE		6
13006	9/3/2002	89832	NUMBER OF LATERAL TRANSECTS MADE		6
13007	8/6/2003	89832	NUMBER OF LATERAL TRANSECTS MADE		6
17892	8/5/2003	89832	NUMBER OF LATERAL TRANSECTS MADE		6
13006	8/6/2003	89832	NUMBER OF LATERAL TRANSECTS MADE		5
28632	5/25/2004	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2
13006	4/8/2003	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		1
13007	9/17/2002	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2
17892	1/8/2003	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2
13007	8/15/2002	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2
17892	5/25/2004	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2
13007	2/27/2003	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2
13006	9/17/2002	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		1
17892	7/9/2003	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2
13006	8/6/2003	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2
13006	1/8/2003	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		1
13006	5/1/2003	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2
17892	9/6/2002	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2
17892	9/17/2002	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2
13006	7/9/2003	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2
13006	8/11/2004	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2
13007	6/11/2003	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2
13007	5/1/2003	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2
13006	1/30/2003	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		1
13006	6/11/2003	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2
13007	10/6/2002	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2
28632	8/11/2004	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2
13007	9/6/2002	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2
17892	8/15/2002	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2
17892	8/6/2003	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2
13006	9/6/2002	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2
13006	8/15/2002	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2
17892	2/27/2003	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2
17892	5/1/2003	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2
13006	2/27/2003	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2
13006	10/6/2002	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		1
17892		89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		
13007	8/6/2003	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2
17892	10/7/2003	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2
13007	10/7/2003	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2
13006	10/7/2003	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2
17892	1/30/2003	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2
13007	7/9/2003	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2
17892	6/11/2003	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2
13006	5/25/2004	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2
13006	8/6/2003	89839	TOTAL NUMBER OF STREAM BENDS		1
17892	8/5/2003	89839	TOTAL NUMBER OF STREAM BENDS		2
13006	9/3/2002	89839	TOTAL NUMBER OF STREAM BENDS		2

13007	9/5/2002	89839	TOTAL NUMBER OF STREAM BENDS	4
17892	9/4/2002	89839	TOTAL NUMBER OF STREAM BENDS	3
13007	8/6/2003	89839	TOTAL NUMBER OF STREAM BENDS	1
13007	9/5/2002	89840	NUMBER OF WELL DEFINED STREAM BENDS	0
17892	8/5/2003	89840	NUMBER OF WELL DEFINED STREAM BENDS	2
13006	8/6/2003	89840	NUMBER OF WELL DEFINED STREAM BENDS	0
13006	9/3/2002	89840	NUMBER OF WELL DEFINED STREAM BENDS	1
13007	8/6/2003	89840	NUMBER OF WELL DEFINED STREAM BENDS	0
17892	9/4/2002	89840	NUMBER OF WELL DEFINED STREAM BENDS	1
13007	9/5/2002	89841	NUMBER OF MODERATELY DEFINED STREAM BENDS	3
13006	9/3/2002	89841	NUMBER OF MODERATELY DEFINED STREAM BENDS	1
13007	8/6/2003	89841	NUMBER OF MODERATELY DEFINED STREAM BENDS	0
17892	8/5/2003	89841	NUMBER OF MODERATELY DEFINED STREAM BENDS	0
17892	9/4/2002	89841	NUMBER OF MODERATELY DEFINED STREAM BENDS	1
13006	8/6/2003	89841	NUMBER OF MODERATELY DEFINED STREAM BENDS	0
13007	9/5/2002	89842	NUMBER OF POORLY DEFINED STREAM BENDS	1
17892	9/4/2002	89842	NUMBER OF POORLY DEFINED STREAM BENDS	1
13006	8/6/2003	89842	NUMBER OF POORLY DEFINED STREAM BENDS	1
17892	8/5/2003	89842	NUMBER OF POORLY DEFINED STREAM BENDS	0
13007	8/6/2003	89842	NUMBER OF POORLY DEFINED STREAM BENDS	1
13006	9/3/2002	89842	NUMBER OF POORLY DEFINED STREAM BENDS	0
13006	8/6/2003	89843	TOTAL NUMBER OF RIFFLES	4
13007	9/5/2002	89843	TOTAL NUMBER OF RIFFLES	5
17892	9/4/2002	89843	TOTAL NUMBER OF RIFFLES	3
13006	9/3/2002	89843	TOTAL NUMBER OF RIFFLES	4
17892	8/5/2003	89843	TOTAL NUMBER OF RIFFLES	5
13007	8/6/2003	89843	TOTAL NUMBER OF RIFFLES	3
13007	8/6/2003	89844	DOMINANT SUBSTRATE TYPE	5
13006	9/3/2002	89844	DOMINANT SUBSTRATE TYPE	6
13006	8/6/2003	89844	DOMINANT SUBSTRATE TYPE	5
17892	9/4/2002	89844	DOMINANT SUBSTRATE TYPE	4
17892	8/5/2003	89844	DOMINANT SUBSTRATE TYPE	5
13007	9/5/2002	89844	DOMINANT SUBSTRATE TYPE	5
13006	9/3/2002	89845	AVERAGE PERCENT OF SUBSTRATE GRAVEL SIZE OR LARG	100
13007	8/6/2003	89845	AVERAGE PERCENT OF SUBSTRATE GRAVEL SIZE OR LARG	91
17892	9/4/2002	89845	AVERAGE PERCENT OF SUBSTRATE GRAVEL SIZE OR LARG	100
13006	8/6/2003	89845	AVERAGE PERCENT OF SUBSTRATE GRAVEL SIZE OR LARG	98
17892	8/5/2003	89845	AVERAGE PERCENT OF SUBSTRATE GRAVEL SIZE OR LARG	83
13007	9/5/2002	89845	AVERAGE PERCENT OF SUBSTRATE GRAVEL SIZE OR LARG	97
13007	8/6/2003	89846	AVERAGE STREAM BANK EROSION (%)	22
13006	9/3/2002	89846	AVERAGE STREAM BANK EROSION (%)	70
13006	8/6/2003	89846	AVERAGE STREAM BANK EROSION (%)	12
17892	8/5/2003	89846	AVERAGE STREAM BANK EROSION (%)	32
17892	9/4/2002	89846	AVERAGE STREAM BANK EROSION (%)	65
13007	9/5/2002	89846	AVERAGE STREAM BANK EROSION (%)	73
13006	8/6/2003	89847	AVERAGE STREAM BANK SLOPE (DEGREES)	30
13007	9/5/2002	89847	AVERAGE STREAM BANK SLOPE (DEGREES)	36
13007	8/6/2003	89847	AVERAGE STREAM BANK SLOPE (DEGREES)	34
13006	9/3/2002	89847	AVERAGE STREAM BANK SLOPE (DEGREES)	39
17892	8/5/2003	89847	AVERAGE STREAM BANK SLOPE (DEGREES)	42
17892	9/4/2002	89847	AVERAGE STREAM BANK SLOPE (DEGREES)	37
17892	9/4/2002	89849	AVERAGE PERCENT TREES AS RIPARIAN VEGETATION	18
13006	8/6/2003	89849	AVERAGE PERCENT TREES AS RIPARIAN VEGETATION	11
13007	8/6/2003	89849	AVERAGE PERCENT TREES AS RIPARIAN VEGETATION	7
17892	8/5/2003	89849	AVERAGE PERCENT TREES AS RIPARIAN VEGETATION	15
13006	9/3/2002	89849	AVERAGE PERCENT TREES AS RIPARIAN VEGETATION	5
13006	9/3/2002	89850	AVERAGE PERCENT SHRUBS AS RIPARIAN VEGETATION	5
17892	8/5/2003	89850	AVERAGE PERCENT SHRUBS AS RIPARIAN VEGETATION	2
17892	9/4/2002	89850	AVERAGE PERCENT SHRUBS AS RIPARIAN VEGETATION	4
13006	8/6/2003	89850	AVERAGE PERCENT SHRUBS AS RIPARIAN VEGETATION	0
13007	8/6/2003	89850	AVERAGE PERCENT SHRUBS AS RIPARIAN VEGETATION	0
13006	9/3/2002	89851	AVERAGE PERCENT GRASS AS RIPARIAN VEGETATION	15
17892	8/5/2003	89851	AVERAGE PERCENT GRASS AS RIPARIAN VEGETATION	27
13006	8/6/2003	89851	AVERAGE PERCENT GRASS AS RIPARIAN VEGETATION	12
13007	8/6/2003	89851	AVERAGE PERCENT GRASS AS RIPARIAN VEGETATION	24
17892	9/4/2002	89851	AVERAGE PERCENT GRASS AS RIPARIAN VEGETATION	8
13007	8/6/2003	89853	AVERAGE PERCENT OTHER AS RIPARIAN VEGETATION	69
13006	9/3/2002	89853	AVERAGE PERCENT OTHER AS RIPARIAN VEGETATION	75
17892	8/5/2003	89853	AVERAGE PERCENT OTHER AS RIPARIAN VEGETATION	56
13006	8/6/2003	89853	AVERAGE PERCENT OTHER AS RIPARIAN VEGETATION	77
17892	9/4/2002	89853	AVERAGE PERCENT OTHER AS RIPARIAN VEGETATION	70
13006	8/6/2003	89854	AVERAGE PERCENTAGE OF TREE CANOPY COVERAGE	27
13007	8/6/2003	89854	AVERAGE PERCENTAGE OF TREE CANOPY COVERAGE	69

13007	9/5/2002	89854	AVERAGE PERCENTAGE OF TREE CANOPY COVERAGE	36
13006	9/3/2002	89854	AVERAGE PERCENTAGE OF TREE CANOPY COVERAGE	14
17892	8/5/2003	89854	AVERAGE PERCENTAGE OF TREE CANOPY COVERAGE	35
17892	9/4/2002	89854	AVERAGE PERCENTAGE OF TREE CANOPY COVERAGE	32
17892	7/9/2003	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA	6.64
13006	2/27/2003	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA	10.38
17892	6/11/2003	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA	6.04
13007	8/15/2002	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA	6.2
13007	8/6/2003	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA	6.67
13007	4/8/2003	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA	7.06
13007	8/11/2004	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA	6.22
13007	5/25/2004	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA	7.21
17892	8/6/2003	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA	6.48
17892	4/8/2003	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA	7.57
13006	1/30/2003	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA	9.21
13007	1/8/2003	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA	9.08
13007	9/5/2002	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA	6.9
13006	5/25/2004	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA	8.53
17892	8/11/2004	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA	5.91
13006	1/8/2003	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA	9.31
13006	8/6/2003	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA	6.4
13006	4/30/2003	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA	7.51
13007	4/30/2003	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA	7.22
17892	1/30/2003	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA	8.59
17892	1/8/2003	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA	8.52
13006	8/15/2002	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA	6.14
13007	6/11/2003	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA	6.03
17892	10/9/2003	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA	7.35
13006	7/9/2003	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA	6.92
17892	9/5/2002	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA	7.55
13006	10/7/2003	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA	7.38
28631	5/25/2004	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA	6.9
17892	5/25/2004	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA	6.92
13006	4/8/2003	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA	7.52
13007	7/9/2003	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA	6.47
13007	2/27/2003	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA	9.85
13006	8/11/2004	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA	7.4
17892	2/27/2003	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA	8.92
13006	9/17/2002	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA	7.4
13006	9/6/2002	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA	6.94
17892	10/6/2002	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA	6.63
17892	9/17/2002	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA	6.78
13006	6/11/2003	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA	7.08
13006	7/9/2003	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA	8.5
13006	5/25/2004	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA	9.55
13007	8/6/2003	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA	9.51
17892	5/25/2004	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA	7.72
17892	1/30/2003	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA	9.91
13007	8/15/2002	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA	7.84
17892	10/9/2003	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA	8.37
13006	9/17/2002	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA	8.25
13006	10/7/2003	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA	8.49
13006	1/30/2003	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA	9.95
13006	4/8/2003	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA	9.84
17892	8/6/2003	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA	8.21
13006	8/11/2004	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA	8.44
13007	7/9/2003	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA	9.43
17892	2/27/2003	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA	10.21
17892	9/5/2002	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA	10
13007	2/27/2003	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA	11.46
13006	9/6/2002	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA	7.77
13007	4/8/2003	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA	10.41
13007	6/11/2003	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA	8.4
13006	6/11/2003	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA	8.45
13006	8/15/2002	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA	7.54
28631	5/25/2004	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA	7.7
17892	10/6/2002	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA	8.14
17892	8/11/2004	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA	6.76
13006	2/27/2003	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA	11.13
13006	8/6/2003	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA	7.53
13007	1/8/2003	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA	10.69
13007	4/30/2003	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA	10.51
13007	5/25/2004	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA	8.7



13006	4/30/2003	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA	10.41
13006	1/8/2003	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA	10.05
13007	9/5/2002	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA	8.21
17892	9/17/2002	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA	7.94
17892	7/9/2003	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA	8.34
17892	6/11/2003	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA	8.05
17892	4/8/2003	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA	8.99
17892	1/8/2003	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA	9.93
13007	8/11/2004	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA	8.74
13007	8/15/2002	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA	6.79
13007	8/11/2004	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA	7.47
13006	2/27/2003	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA	10.76
13007	4/8/2003	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA	8.66
17892	9/5/2002	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA	8.85
13006	8/15/2002	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA	6.66
13007	4/30/2003	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA	8.56
13007	9/5/2002	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA	7.52
13006	8/11/2004	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA	7.86
13006	4/30/2003	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA	8.86
17892	4/8/2003	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA	8.19
17892	7/9/2003	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA	7.47
17892	1/30/2003	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA	9.15
13007	2/27/2003	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA	10.58
13007	8/6/2003	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA	8.02
13006	6/11/2003	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA	7.71
13006	1/8/2003	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA	9.63
17892	10/6/2002	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA	7.33
17892	6/11/2003	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA	6.95
17892	1/8/2003	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA	9.15
13006	5/25/2004	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA	9
13007	6/11/2003	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA	7.14
17892	2/27/2003	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA	9.56
13006	8/6/2003	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA	7.02
13006	9/6/2002	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA	7.35
13007	5/25/2004	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA	7.82
28631	5/25/2004	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA	7.25
13007	1/8/2003	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA	9.76
13006	9/17/2002	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA	7.75
17892	9/17/2002	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA	7.3
13007	7/9/2003	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA	7.9
13006	4/8/2003	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA	8.2
13006	1/30/2003	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA	9.58
17892	10/9/2003	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA	7.81
17892	8/11/2004	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA	6.27
13006	10/7/2003	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA	7.95
17892	8/6/2003	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA	7.2
13006	7/9/2003	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA	7.68
17892	5/25/2004	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA	7.24
13007	5/25/2004	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS	96
28631	5/25/2004	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS	96
13006	7/9/2003	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS	97
13006	8/6/2003	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS	96
17892	2/27/2003	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS	96
17892	10/9/2003	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS	96
17892	7/9/2003	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS	97
13007	8/6/2003	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS	96
17892	1/8/2003	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS	96
13007	1/8/2003	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS	96
13006	1/8/2003	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS	96
17892	8/6/2003	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS	96
13006	1/30/2003	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS	96
13006	5/25/2004	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS	96
13007	4/30/2003	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS	97
13007	7/9/2003	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS	97
17892	1/30/2003	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS	96
13006	8/11/2004	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS	96
13007	8/15/2002	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS	96
13006	9/6/2002	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS	96
17892	5/25/2004	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS	96
13006	9/17/2002	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS	93
13006	4/8/2003	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS	96
13007	8/11/2004	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS	96
13006	10/7/2003	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS	96

17892	8/11/2004	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS	96
17892	6/11/2003	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS	97
13007	9/5/2002	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS	95
17892	9/17/2002	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS	93
17892	10/6/2002	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS	96
17892	4/8/2003	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS	96
13006	6/11/2003	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS	97
13007	2/27/2003	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS	96
13007	6/11/2003	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS	97
13006	8/15/2002	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS	96
13006	2/27/2003	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS	96
13007	4/8/2003	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS	96
17892	9/5/2002	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS	96
13006	4/30/2003	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS	97
17892	8/5/2003	89859	DRAINAGE AREA ABOVE MOST DOWNSTREAM TRANSECT (KM	776
13006	9/3/2002	89859	DRAINAGE AREA ABOVE MOST DOWNSTREAM TRANSECT (KM	1019.3
13007	8/6/2003	89859	DRAINAGE AREA ABOVE MOST DOWNSTREAM TRANSECT (KM	831
13006	8/6/2003	89859	DRAINAGE AREA ABOVE MOST DOWNSTREAM TRANSECT (KM	1019
13007	9/5/2002	89859	DRAINAGE AREA ABOVE MOST DOWNSTREAM TRANSECT (KM	831.4
17892	9/4/2002	89859	DRAINAGE AREA ABOVE MOST DOWNSTREAM TRANSECT (KM	776
13006	9/3/2002	89860	LENGTH OF STREAM EVALUATED (KM)	0.46
17892	8/5/2003	89860	LENGTH OF STREAM EVALUATED (KM)	0.36
13007	9/5/2002	89860	LENGTH OF STREAM EVALUATED (KM)	0.46
13006	8/6/2003	89860	LENGTH OF STREAM EVALUATED (KM)	0.3
17892	9/4/2002	89860	LENGTH OF STREAM EVALUATED (KM)	0.366
13007	8/6/2003	89860	LENGTH OF STREAM EVALUATED (KM)	0.46
17892	9/4/2002	89861	AVERAGE STREAM WIDTH (METERS)	18.7
13006	8/6/2003	89861	AVERAGE STREAM WIDTH (METERS)	16
13007	9/5/2002	89861	AVERAGE STREAM WIDTH (METERS)	32
13006	9/3/2002	89861	AVERAGE STREAM WIDTH (METERS)	24.2
17892	8/5/2003	89861	AVERAGE STREAM WIDTH (METERS)	11.9
13007	8/6/2003	89861	AVERAGE STREAM WIDTH (METERS)	31
17892	9/4/2002	89862	AVERAGE STREAM DEPTH (METERS)	0.44
13006	9/3/2002	89862	AVERAGE STREAM DEPTH (METERS)	0.48
13007	8/6/2003	89862	AVERAGE STREAM DEPTH (METERS)	0.54
13007	9/5/2002	89862	AVERAGE STREAM DEPTH (METERS)	0.31
13006	8/6/2003	89862	AVERAGE STREAM DEPTH (METERS)	0.3
17892	8/5/2003	89862	AVERAGE STREAM DEPTH (METERS)	0.47
13006	9/3/2002	89864	MAXIMUM POOL WIDTH (METERS)	35
13006	8/6/2003	89864	MAXIMUM POOL WIDTH (METERS)	22
13007	8/6/2003	89864	MAXIMUM POOL WIDTH (METERS)	30
17892	9/4/2002	89864	MAXIMUM POOL WIDTH (METERS)	10
17892	8/5/2003	89864	MAXIMUM POOL WIDTH (METERS)	13
13007	9/5/2002	89864	MAXIMUM POOL WIDTH (METERS)	14
17892	9/4/2002	89865	MAXIMUM POOL DEPTH (METERS)	> 1
13006	9/3/2002	89865	MAXIMUM POOL DEPTH (METERS)	> 1
13006	8/6/2003	89865	MAXIMUM POOL DEPTH (METERS)	< 1
13007	8/6/2003	89865	MAXIMUM POOL DEPTH (METERS)	> 1
13007	9/5/2002	89865	MAXIMUM POOL DEPTH (METERS)	< 1
17892	8/5/2003	89865	MAXIMUM POOL DEPTH (METERS)	> 1
13006	9/3/2002	89866	AVERAGE WIDTH OF NATURAL RIPARIAN VEGETATION (M)	> 20
17892	9/4/2002	89866	AVERAGE WIDTH OF NATURAL RIPARIAN VEGETATION (M)	> 20
13007	9/5/2002	89866	AVERAGE WIDTH OF NATURAL RIPARIAN VEGETATION (M)	> 20
13006	8/6/2003	89866	AVERAGE WIDTH OF NATURAL RIPARIAN VEGETATION (M)	> 20
17892	8/5/2003	89866	AVERAGE WIDTH OF NATURAL RIPARIAN VEGETATION (M)	> 20
13007	8/6/2003	89866	AVERAGE WIDTH OF NATURAL RIPARIAN VEGETATION (M)	> 20
17892	8/5/2003	89867	AESTHETICS (1=WILD 2=NAT. 3=COMM. 4=OFF.)	2
13006	9/3/2002	89867	AESTHETICS (1=WILD 2=NAT. 3=COMM. 4=OFF.)	2
17892	9/4/2002	89867	AESTHETICS (1=WILD 2=NAT. 3=COMM. 4=OFF.)	3
13007	8/6/2003	89867	AESTHETICS (1=WILD 2=NAT. 3=COMM. 4=OFF.)	2
13006	8/6/2003	89867	AESTHETICS (1=WILD 2=NAT. 3=COMM. 4=OFF.)	2
13007	9/5/2002	89899	#IND/1=SUBSAMPLE,2=SQFT,3=SQMTR,4=TOTAL KICKNET	4
17892	9/4/2002	89899	#IND/1=SUBSAMPLE,2=SQFT,3=SQMTR,4=TOTAL KICKNET	4
13006	8/6/2003	89899	#IND/1=SUBSAMPLE,2=SQFT,3=SQMTR,4=TOTAL KICKNET	1
13006	9/3/2002	89899	#IND/1=SUBSAMPLE,2=SQFT,3=SQMTR,4=TOTAL KICKNET	4
13007	8/6/2003	89899	#IND/1=SUBSAMPLE,2=SQFT,3=SQMTR,4=TOTAL KICKNET	1
17892	8/5/2003	89899	#IND/1=SUBSAMPLE,2=SQFT,3=SQMTR,4=TOTAL KICKNET	1
13007	8/6/2003	89905	DEBRIS/SHORELINE SAMPLING EFFORT, MINUTES PICKED	0
13006	8/6/2003	89905	DEBRIS/SHORELINE SAMPLING EFFORT, MINUTES PICKED	0
17892	8/5/2003	89905	DEBRIS/SHORELINE SAMPLING EFFORT, MINUTES PICKED	0
13007	8/6/2003	89950	BENTHIC SAMPLER (1=SURB,2=EKM,3=KICK,4=PET,5=H-D	3
13007	9/5/2002	89950	BENTHIC SAMPLER (1=SURB,2=EKM,3=KICK,4=PET,5=H-D	3
17892	8/5/2003	89950	BENTHIC SAMPLER (1=SURB,2=EKM,3=KICK,4=PET,5=H-D	3

13006	8/6/2003	89950	BENTHIC SAMPLER (1=SUBR,2=EKM,3=KICK,4=PET,5=H-D	3
17892	9/4/2002	89950	BENTHIC SAMPLER (1=SUBR,2=EKM,3=KICK,4=PET,5=H-D	3
13006	9/3/2002	89950	BENTHIC SAMPLER (1=SUBR,2=EKM,3=KICK,4=PET,5=H-D	3
17892	9/4/2002	89961	ECOREGION (TEXAS ECOREGION CODE)	30
13007	9/5/2002	89961	ECOREGION (TEXAS ECOREGION CODE)	30
17892	8/5/2003	89961	ECOREGION (TEXAS ECOREGION CODE)	30
13007	8/6/2003	89961	ECOREGION (TEXAS ECOREGION CODE)	30
13006	9/3/2002	89961	ECOREGION (TEXAS ECOREGION CODE)	30
13006	8/6/2003	89961	ECOREGION (TEXAS ECOREGION CODE)	30
13006	9/3/2002	89976	AREA SEINED (SQ METERS)	330
13007	8/6/2003	89976	AREA SEINED (SQ METERS)	330
17892	9/4/2002	89976	AREA SEINED (SQ METERS)	330
17892	8/5/2003	89976	AREA SEINED (SQ METERS)	330
13006	8/6/2003	89976	AREA SEINED (SQ METERS)	330
17892	9/4/2002	90007	HILSENHOFF BIOTIC INDEX	3.28
13006	9/3/2002	90007	HILSENHOFF BIOTIC INDEX	3.62
13006	8/6/2003	90007	HILSENHOFF BIOTIC INDEX	4.63
17892	8/5/2003	90007	HILSENHOFF BIOTIC INDEX	3.96
13007	9/5/2002	90007	HILSENHOFF BIOTIC INDEX	3.15
13007	8/6/2003	90007	HILSENHOFF BIOTIC INDEX	3.18
13007	9/5/2002	90008	EPT INDEX	6
17892	8/5/2003	90008	EPT INDEX	8
13006	9/3/2002	90008	EPT INDEX	6
17892	9/4/2002	90008	EPT INDEX	6
13006	8/6/2003	90008	EPT INDEX	10
13007	8/6/2003	90008	EPT INDEX	5
13007	8/6/2003	90009	NUMBER OF BENTHIC FUNCTIONAL FEEDING GROUPS	4
13006	8/6/2003	90009	NUMBER OF BENTHIC FUNCTIONAL FEEDING GROUPS	5
17892	9/4/2002	90009	NUMBER OF BENTHIC FUNCTIONAL FEEDING GROUPS	4
17892	8/5/2003	90009	NUMBER OF BENTHIC FUNCTIONAL FEEDING GROUPS	5
13006	9/3/2002	90009	NUMBER OF BENTHIC FUNCTIONAL FEEDING GROUPS	5
13007	9/5/2002	90009	NUMBER OF BENTHIC FUNCTIONAL FEEDING GROUPS	5
13006	8/6/2003	90010	DOMINANT BENTHIC FUNC FEEDING GRP, % OF COMMUNIT	36.7
13007	8/6/2003	90010	DOMINANT BENTHIC FUNC FEEDING GRP, % OF COMMUNIT	32
17892	8/5/2003	90010	DOMINANT BENTHIC FUNC FEEDING GRP, % OF COMMUNIT	32.5
13007	9/5/2002	90010	DOMINANT BENTHIC FUNC FEEDING GRP, % OF COMMUNIT	35
17892	9/4/2002	90010	DOMINANT BENTHIC FUNC FEEDING GRP, % OF COMMUNIT	30
13006	9/3/2002	90010	DOMINANT BENTHIC FUNC FEEDING GRP, % OF COMMUNIT	33
13007	8/6/2003	90025	BENTHIC GATHERERS (% OF COMMUNITY)	13.4
17892	9/4/2002	90025	BENTHIC GATHERERS (% OF COMMUNITY)	37
13006	8/6/2003	90025	BENTHIC GATHERERS (% OF COMMUNITY)	21.8
17892	8/5/2003	90025	BENTHIC GATHERERS (% OF COMMUNITY)	32.5
13006	9/3/2002	90025	BENTHIC GATHERERS (% OF COMMUNITY)	26
13007	9/5/2002	90025	BENTHIC GATHERERS (% OF COMMUNITY)	35
13007	9/5/2002	90030	BENTHIC FILTERERS (% OF COMMUNITY)	9
13006	8/6/2003	90030	BENTHIC FILTERERS (% OF COMMUNITY)	28.4
13006	9/3/2002	90030	BENTHIC FILTERERS (% OF COMMUNITY)	14
17892	9/4/2002	90030	BENTHIC FILTERERS (% OF COMMUNITY)	18
13007	8/6/2003	90030	BENTHIC FILTERERS (% OF COMMUNITY)	32
17892	8/5/2003	90030	BENTHIC FILTERERS (% OF COMMUNITY)	26.4
13007	9/5/2002	90035	BENTHIC SHREDDERS (% OF COMMUNITY)	2
13006	9/3/2002	90035	BENTHIC SHREDDERS (% OF COMMUNITY)	1
17892	8/5/2003	90035	BENTHIC SHREDDERS (% OF COMMUNITY)	2.8
17892	9/4/2002	90035	BENTHIC SHREDDERS (% OF COMMUNITY)	0
13007	8/6/2003	90035	BENTHIC SHREDDERS (% OF COMMUNITY)	0
13006	8/6/2003	90035	BENTHIC SHREDDERS (% OF COMMUNITY)	0.6
13006	8/6/2003	90036	BENTHIC PREDATORS (% OF COMMUNITY)	36.7
17892	8/5/2003	90036	BENTHIC PREDATORS (% OF COMMUNITY)	18.9
13007	8/6/2003	90036	BENTHIC PREDATORS (% OF COMMUNITY)	30.1
13006	9/3/2002	90036	BENTHIC PREDATORS (% OF COMMUNITY)	33
13007	9/5/2002	90036	BENTHIC PREDATORS (% OF COMMUNITY)	19
17892	9/4/2002	90036	BENTHIC PREDATORS (% OF COMMUNITY)	11
17892	8/5/2003	90042	PERCENT DOMINANT TAXON, BENTHOS	17.9
13006	8/6/2003	90042	PERCENT DOMINANT TAXON, BENTHOS	13.9
17892	9/4/2002	90042	PERCENT DOMINANT TAXON, BENTHOS	30.43
13007	8/6/2003	90042	PERCENT DOMINANT TAXON, BENTHOS	25.5
13007	9/5/2002	90042	PERCENT DOMINANT TAXON, BENTHOS	33.96
13006	9/3/2002	90042	PERCENT DOMINANT TAXON, BENTHOS	21.43
13006	8/6/2003	90050	RATIO OF INTOLERANT TO TOLERANT TAXA, BENTHOS	1.07
17892	9/4/2002	90050	RATIO OF INTOLERANT TO TOLERANT TAXA, BENTHOS	3.94
13007	8/6/2003	90050	RATIO OF INTOLERANT TO TOLERANT TAXA, BENTHOS	1.02
17892	8/5/2003	90050	RATIO OF INTOLERANT TO TOLERANT TAXA, BENTHOS	2.03
13007	9/5/2002	90050	RATIO OF INTOLERANT TO TOLERANT TAXA, BENTHOS	5.31

13006	9/3/2002	90050	RATIO OF INTOLERANT TO TOLERANT TAXA, BENTHOS	1.93
13007	9/5/2002	90052	NUMBER OF NON-INSECT TAXA	1
17892	9/4/2002	90052	NUMBER OF NON-INSECT TAXA	4
13006	8/6/2003	90052	NUMBER OF NON-INSECT TAXA	1
13006	9/3/2002	90052	NUMBER OF NON-INSECT TAXA	0
17892	8/5/2003	90052	NUMBER OF NON-INSECT TAXA	3
13007	8/6/2003	90052	NUMBER OF NON-INSECT TAXA	2
13006	8/6/2003	90054	PERCENT OF TOTAL NUMBER AS ELMIDAE	12.04
17892	8/5/2003	90054	PERCENT OF TOTAL NUMBER AS ELMIDAE	13.2
13007	8/6/2003	90054	PERCENT OF TOTAL NUMBER AS ELMIDAE	16.7
17892	9/4/2002	90054	PERCENT OF TOTAL NUMBER AS ELMIDAE	14.13
13007	9/5/2002	90054	PERCENT OF TOTAL NUMBER AS ELMIDAE	16.04
13006	9/3/2002	90054	PERCENT OF TOTAL NUMBER AS ELMIDAE	29.76
17892	9/4/2002	92266	TRICHOPTERA	52.94
13007	9/5/2002	92266	TRICHOPTERA	8.3
13007	8/6/2003	92266	TRICHOPTERA	7.14
17892	8/5/2003	92266	TRICHOPTERA	79.2
13006	8/6/2003	92266	TRICHOPTERA	46.4
13006	9/3/2002	92266	TRICHOPTERA	16.67
17892	9/4/2002	92491	CHIRONOMIDAE	0
13007	9/5/2002	92491	CHIRONOMIDAE	10.38
17892	8/5/2003	92491	CHIRONOMIDAE	0
13006	8/6/2003	92491	CHIRONOMIDAE	5.6
13006	9/3/2002	92491	CHIRONOMIDAE	4.76
13007	8/6/2003	92491	CHIRONOMIDAE	1.96
17892	9/4/2002	98003	NUMBER OF SPECIES, FISH	12
13006	9/3/2002	98003	NUMBER OF SPECIES, FISH	12
13006	8/6/2003	98003	NUMBER OF SPECIES, FISH	14
13007	8/6/2003	98003	NUMBER OF SPECIES, FISH	14
17892	8/5/2003	98003	NUMBER OF SPECIES, FISH	15
13007	9/5/2002	98003	NUMBER OF SPECIES, FISH	11
17892	9/4/2002	98004	TOTAL NUMBER OF DARTER SPECIES	1
13006	8/6/2003	98004	TOTAL NUMBER OF DARTER SPECIES	1
13007	8/6/2003	98004	TOTAL NUMBER OF DARTER SPECIES	0
17892	8/5/2003	98004	TOTAL NUMBER OF DARTER SPECIES	1
13006	9/3/2002	98004	TOTAL NUMBER OF DARTER SPECIES	1
13007	9/5/2002	98004	TOTAL NUMBER OF DARTER SPECIES	1
17892	8/5/2003	98008	TOTAL NUMBER OF SUNFISH SPECIES	3
13007	9/5/2002	98008	TOTAL NUMBER OF SUNFISH SPECIES	3
17892	9/4/2002	98008	TOTAL NUMBER OF SUNFISH SPECIES	1
13006	9/3/2002	98008	TOTAL NUMBER OF SUNFISH SPECIES	2
13006	8/6/2003	98008	TOTAL NUMBER OF SUNFISH SPECIES	3
13007	8/6/2003	98008	TOTAL NUMBER OF SUNFISH SPECIES	3
17892	8/5/2003	98009	TOTAL NUMBER OF SUCKER SPECIES	0
13006	8/6/2003	98009	TOTAL NUMBER OF SUCKER SPECIES	0
13007	9/5/2002	98009	TOTAL NUMBER OF SUCKER SPECIES	0
13007	8/6/2003	98009	TOTAL NUMBER OF SUCKER SPECIES	0
13006	9/3/2002	98009	TOTAL NUMBER OF SUCKER SPECIES	0
17892	9/4/2002	98009	TOTAL NUMBER OF SUCKER SPECIES	0
17892	8/5/2003	98010	TOTAL NUMBER OF INTOLERANT SPECIES, FISH	3
13007	8/6/2003	98010	TOTAL NUMBER OF INTOLERANT SPECIES, FISH	1
13006	8/6/2003	98010	TOTAL NUMBER OF INTOLERANT SPECIES, FISH	2
13006	9/3/2002	98010	TOTAL NUMBER OF INTOLERANT SPECIES, FISH	2
13007	9/5/2002	98010	TOTAL NUMBER OF INTOLERANT SPECIES, FISH	2
17892	9/4/2002	98010	TOTAL NUMBER OF INTOLERANT SPECIES, FISH	3
13006	8/6/2003	98016	PERCENT OF INDIVIDUALS AS TOLERANTS, FISH	9.6
17892	8/5/2003	98016	PERCENT OF INDIVIDUALS AS TOLERANTS, FISH	5.35
13006	9/3/2002	98016	PERCENT OF INDIVIDUALS AS TOLERANTS, FISH	26
13007	8/6/2003	98016	PERCENT OF INDIVIDUALS AS TOLERANTS, FISH	19.6
13007	9/5/2002	98016	PERCENT OF INDIVIDUALS AS TOLERANTS, FISH	35
17892	9/4/2002	98016	PERCENT OF INDIVIDUALS AS TOLERANTS, FISH	25
17892	8/5/2003	98017	PERCENT OF INDIVIDUALS AS OMNIVORES, FISH	3.57
13006	9/3/2002	98017	PERCENT OF INDIVIDUALS AS OMNIVORES, FISH	15
13007	9/5/2002	98017	PERCENT OF INDIVIDUALS AS OMNIVORES, FISH	34
17892	9/4/2002	98017	PERCENT OF INDIVIDUALS AS OMNIVORES, FISH	17
13007	8/6/2003	98017	PERCENT OF INDIVIDUALS AS OMNIVORES, FISH	5.53
13006	8/6/2003	98017	PERCENT OF INDIVIDUALS AS OMNIVORES, FISH	3.7
17892	8/5/2003	98021	PERCENT OF INDIVIDUALS AS INSECTIVORES, FISH	93.8
13006	8/6/2003	98021	PERCENT OF INDIVIDUALS AS INSECTIVORES, FISH	91.8
13007	8/6/2003	98021	PERCENT OF INDIVIDUALS AS INSECTIVORES, FISH	77.89
13006	9/3/2002	98021	PERCENT OF INDIVIDUALS AS INSECTIVORES, FISH	80
13007	9/5/2002	98021	PERCENT OF INDIVIDUALS AS INSECTIVORES, FISH	59
17892	9/4/2002	98021	PERCENT OF INDIVIDUALS AS INSECTIVORES, FISH	60

13006	8/6/2003	98022	PERCENT OF INDIVIDUALS AS PISCIVORES, FISH	1.48
13006	9/3/2002	98022	PERCENT OF INDIVIDUALS AS PISCIVORES, FISH	0
17892	8/5/2003	98022	PERCENT OF INDIVIDUALS AS PISCIVORES, FISH	0.49
13007	8/6/2003	98022	PERCENT OF INDIVIDUALS AS PISCIVORES, FISH	0.5
13007	9/5/2002	98022	PERCENT OF INDIVIDUALS AS PISCIVORES, FISH	4
17892	9/4/2002	98022	PERCENT OF INDIVIDUALS AS PISCIVORES, FISH	6
13007	8/6/2003	98023	TOTAL NUMBER OF INDIVIDUALS IN SAMPLE, FISH	199
17892	8/5/2003	98023	TOTAL NUMBER OF INDIVIDUALS IN SAMPLE, FISH	617
13006	9/3/2002	98023	TOTAL NUMBER OF INDIVIDUALS IN SAMPLE, FISH	422
13006	8/6/2003	98023	TOTAL NUMBER OF INDIVIDUALS IN SAMPLE, FISH	135
17892	9/4/2002	98023	TOTAL NUMBER OF INDIVIDUALS IN SAMPLE, FISH	83
13007	9/5/2002	98023	TOTAL NUMBER OF INDIVIDUALS IN SAMPLE, FISH	80
17892	9/4/2002	98024	PERCENT OF INDIVIDUALS AS HYBRIDS	0
13007	8/6/2003	98024	PERCENT OF INDIVIDUALS AS HYBRIDS	0
17892	8/5/2003	98024	PERCENT OF INDIVIDUALS AS HYBRIDS	0
13006	8/6/2003	98024	PERCENT OF INDIVIDUALS AS HYBRIDS	0
13007	9/5/2002	98024	PERCENT OF INDIVIDUALS AS HYBRIDS	0
13006	9/3/2002	98024	PERCENT OF INDIVIDUALS AS HYBRIDS	0
17892	9/4/2002	98024	PERCENT OF INDIVIDUALS AS HYBRIDS	0
13007	8/6/2003	98024	PERCENT OF INDIVIDUALS AS HYBRIDS	0
17892	8/5/2003	98024	PERCENT OF INDIVIDUALS AS HYBRIDS	0
13006	8/6/2003	98024	PERCENT OF INDIVIDUALS AS HYBRIDS	0
13007	9/5/2002	98024	PERCENT OF INDIVIDUALS AS HYBRIDS	0
13006	9/3/2002	98024	PERCENT OF INDIVIDUALS AS HYBRIDS	0
13006	9/3/2002	98030	PERCENT OF INDIVIDUALS WITH DISEASE OR ANOMALY	0
17892	8/5/2003	98030	PERCENT OF INDIVIDUALS WITH DISEASE OR ANOMALY	0
13007	9/5/2002	98030	PERCENT OF INDIVIDUALS WITH DISEASE OR ANOMALY	0
13006	8/6/2003	98030	PERCENT OF INDIVIDUALS WITH DISEASE OR ANOMALY	0
13007	8/6/2003	98030	PERCENT OF INDIVIDUALS WITH DISEASE OR ANOMALY	0
17892	9/4/2002	98030	PERCENT OF INDIVIDUALS WITH DISEASE OR ANOMALY	0
17892	8/11/2004	00530	TOTAL SUSPENDED SOLIDS (MG/L)	< 1
17892		00530	TOTAL SUSPENDED SOLIDS (MG/L)	< 1
13006	10/7/2003	00530	TOTAL SUSPENDED SOLIDS (MG/L)	< 1
13006	8/11/2004	00530	TOTAL SUSPENDED SOLIDS (MG/L)	< 1
28632	5/25/2004	00530	TOTAL SUSPENDED SOLIDS (MG/L)	< 1
13007	8/11/2004	00530	TOTAL SUSPENDED SOLIDS (MG/L)	< 1
13007	10/7/2003	00530	TOTAL SUSPENDED SOLIDS (MG/L)	2
17892	5/25/2004	00530	TOTAL SUSPENDED SOLIDS (MG/L)	< 1
28632	8/11/2004	00530	TOTAL SUSPENDED SOLIDS (MG/L)	< 1
17892	10/7/2003	00530	TOTAL SUSPENDED SOLIDS (MG/L)	15
13006	5/25/2004	00530	TOTAL SUSPENDED SOLIDS (MG/L)	< 1
13007	5/25/2004	00530	TOTAL SUSPENDED SOLIDS (MG/L)	< 1
17892	6/11/2003	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	24.34
13006	1/30/2003	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12.43
13007	5/1/2003	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	21.29
13006	10/7/2003	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	23.71
17892	2/27/2003	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	13.85
17892	10/6/2002	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	23.28
13007	9/6/2002	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	25.47
13006	6/11/2003	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	26.85
13006	5/25/2004	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	23.44
13007	2/27/2003	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11.03
13007	6/11/2003	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	25.38
13006	8/11/2004	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	26.1
17892	9/6/2002	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	24.07
17892	9/17/2002	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	23.45
17892	7/9/2003	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	23.93
13006	9/6/2002	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	26.31
13006	2/27/2003	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	11.1
13006	5/1/2003	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	21.28
13007	1/30/2003	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	13.13
13006	4/8/2003	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	20.8
17892		00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	
13006	9/17/2002	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	24.66
17892	5/1/2003	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	20.42
13007	9/17/2002	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	24.08
17892	4/8/2003	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	18.01
13007	8/11/2004	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	25.31
13007	4/8/2003	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	17.98
13007	5/25/2004	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	22.5
17892	5/25/2004	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	21.77
17892	8/6/2003	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	25.6
13006	8/15/2002	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	26.5

17892	1/8/2003	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	14.94
13006	8/6/2003	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	28.09
17892	10/7/2003	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	22.8
13007	1/8/2003	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12.87
13006	1/8/2003	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	12.96
13007	8/15/2002	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	25.58
13007	8/6/2003	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	28.39
13006	10/6/2002	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	25.14
28632	5/25/2004	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	23.44
17892	1/30/2003	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	14.43
13006	7/9/2003	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	25.95
13007	10/7/2003	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	23.75
13007	7/9/2003	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	25.6
17892	8/15/2002	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	24.8
13007	10/6/2002	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	23.96
28632	8/11/2004	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	26.1
17892	8/11/2004	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)	24.83
28632	5/25/2004	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)	181.36
13006	5/1/2003	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)	99.96
17892	1/8/2003	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)	93.7
17892	1/30/2003	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)	76.36
17892		00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)	
13006	4/8/2003	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)	81
13007	9/17/2002	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)	120.72
13006	5/25/2004	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)	181.36
17892	9/17/2002	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)	86.47
13006	1/8/2003	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)	35
13006	2/27/2003	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)	105.13
13006	10/6/2002	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)	30
13006	1/30/2003	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)	65
17892	2/27/2003	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)	82.198
13006	8/6/2003	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)	70.2
13007	2/27/2003	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)	162.24
13007	10/6/2002	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)	82.495
17892	10/6/2002	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)	62.755
13007	8/15/2002	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)	111.76
17892	8/15/2002	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)	90.5
13007	10/7/2003	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)	60.78
13007	7/9/2003	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)	65.05
17892	5/1/2003	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)	77.34
17892	8/6/2003	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)	35.13
17892	9/6/2002	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)	56.08
28632	8/11/2004	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)	188.36
17892	10/7/2003	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)	55.316
13006	6/11/2003	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)	97.44
13006	7/9/2003	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)	81.14
13006	8/11/2004	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)	188.36
17892	7/9/2003	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)	57.3
17892	5/25/2004	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)	94.632
13006	8/15/2002	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)	155.35
13006	9/17/2002	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)	110
13006	10/7/2003	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)	85.656
13007	5/1/2003	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)	159.5
13006	9/6/2002	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)	103.35
13007	8/6/2003	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)	75.6
17892	6/11/2003	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)	95.27
13007	6/11/2003	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)	113
13007	8/6/2003	00078	TRANSPARENCY, SECCHI DISC (METERS)	> 2
17892	10/7/2003	00078	TRANSPARENCY, SECCHI DISC (METERS)	> 1
28632	5/25/2004	00078	TRANSPARENCY, SECCHI DISC (METERS)	> 1
13006	1/8/2003	00078	TRANSPARENCY, SECCHI DISC (METERS)	> 1
13007	1/8/2003	00078	TRANSPARENCY, SECCHI DISC (METERS)	> 1
13006	8/6/2003	00078	TRANSPARENCY, SECCHI DISC (METERS)	> 2
17892	8/6/2003	00078	TRANSPARENCY, SECCHI DISC (METERS)	> 2
17892	1/30/2003	00078	TRANSPARENCY, SECCHI DISC (METERS)	> 1
13006	6/11/2003	00078	TRANSPARENCY, SECCHI DISC (METERS)	0.4
13006	4/8/2003	00078	TRANSPARENCY, SECCHI DISC (METERS)	> 2
13007	4/8/2003	00078	TRANSPARENCY, SECCHI DISC (METERS)	> 2
17892	4/8/2003	00078	TRANSPARENCY, SECCHI DISC (METERS)	> 2
17892	5/25/2004	00078	TRANSPARENCY, SECCHI DISC (METERS)	> 1
17892	6/11/2003	00078	TRANSPARENCY, SECCHI DISC (METERS)	> 1.5
13007	7/9/2003	00078	TRANSPARENCY, SECCHI DISC (METERS)	> 2
13006	5/25/2004	00078	TRANSPARENCY, SECCHI DISC (METERS)	> 1

13006	7/9/2003	00078	TRANSPARENCY, SECCHI DISC (METERS)	>	2
13006	10/7/2003	00078	TRANSPARENCY, SECCHI DISC (METERS)	>	1
17892	7/9/2003	00078	TRANSPARENCY, SECCHI DISC (METERS)	>	2
13006	1/30/2003	00078	TRANSPARENCY, SECCHI DISC (METERS)	>	1
13007	5/25/2004	00078	TRANSPARENCY, SECCHI DISC (METERS)	>	1
13007	1/30/2003	00078	TRANSPARENCY, SECCHI DISC (METERS)	>	1
13007	10/7/2003	00078	TRANSPARENCY, SECCHI DISC (METERS)	>	1
13007	6/11/2003	00078	TRANSPARENCY, SECCHI DISC (METERS)	>	1.8
13007	9/6/2002	00078	TRANSPARENCY, SECCHI DISC (METERS)	>	1
13006	10/6/2002	00078	TRANSPARENCY, SECCHI DISC (METERS)	>	1
13007	8/11/2004	00078	TRANSPARENCY, SECCHI DISC (METERS)	>	2
17892	10/6/2002	00078	TRANSPARENCY, SECCHI DISC (METERS)	>	1
28632	8/11/2004	00078	TRANSPARENCY, SECCHI DISC (METERS)	>	2
17892	9/17/2002	00078	TRANSPARENCY, SECCHI DISC (METERS)	>	1
17892	9/6/2002	00078	TRANSPARENCY, SECCHI DISC (METERS)	>	1
13007	8/15/2002	00078	TRANSPARENCY, SECCHI DISC (METERS)	>	1
13006	9/17/2002	00078	TRANSPARENCY, SECCHI DISC (METERS)	>	1
13007	10/6/2002	00078	TRANSPARENCY, SECCHI DISC (METERS)	>	1
17892	8/15/2002	00078	TRANSPARENCY, SECCHI DISC (METERS)	>	1
17892	1/8/2003	00078	TRANSPARENCY, SECCHI DISC (METERS)	>	1
13006	8/15/2002	00078	TRANSPARENCY, SECCHI DISC (METERS)	>	1
13006	8/11/2004	00078	TRANSPARENCY, SECCHI DISC (METERS)	>	2
17892		00078	TRANSPARENCY, SECCHI DISC (METERS)		
17892	8/11/2004	00078	TRANSPARENCY, SECCHI DISC (METERS)	>	2
17892	10/6/2002	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)		455
13007	2/27/2003	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)		411
17892	10/7/2003	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)		438
13006	1/30/2003	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)		418
13007	6/11/2003	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)		391
13006	8/11/2004	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)		419
17892	2/27/2003	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)		418
13007	9/6/2002	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)		439
17892	6/11/2003	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)		381
17892	8/6/2003	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)		411
17892	9/17/2002	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)		431
13007	1/30/2003	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)		417
13007	8/15/2002	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)		464
13006	2/27/2003	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)		409
13006	9/17/2002	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)		439
13007	8/6/2003	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)		375
13007	9/17/2002	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)		420
17892	4/8/2003	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)		412
13006	4/8/2003	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)		367
13007	4/8/2003	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)		409
13007	8/11/2004	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)		442
13006	9/6/2002	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)		418
17892	1/8/2003	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)		437
13006	10/6/2002	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)		423
13007	7/9/2003	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)		353
17892	8/15/2002	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)		508
17892	8/11/2004	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)		447
17892	7/9/2003	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)		411
13006	8/15/2002	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)		451
13007	1/8/2003	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)		425
13006	8/6/2003	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)		380
28632	8/11/2004	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)		419
17892	9/6/2002	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)		457
13006	1/8/2003	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)		420
13006	10/7/2003	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)		408
13007	10/6/2002	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)		436
17892	1/30/2003	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)		430
13006	6/11/2003	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)		379
17892		00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)		
13007	10/7/2003	00094	SPECIFIC CONDUCTANCE, FIELD (UMHOS/CM @ 25C)		419
17892	4/8/2003	00300	OXYGEN, DISSOLVED (MG/L)		7.95
13006	7/9/2003	00300	OXYGEN, DISSOLVED (MG/L)		7.19
13006	9/17/2002	00300	OXYGEN, DISSOLVED (MG/L)		7.75
13007	4/8/2003	00300	OXYGEN, DISSOLVED (MG/L)		9.18
13007	7/9/2003	00300	OXYGEN, DISSOLVED (MG/L)		6.75
28632	8/11/2004	00300	OXYGEN, DISSOLVED (MG/L)		8.32
17892		00300	OXYGEN, DISSOLVED (MG/L)		
13006	8/11/2004	00300	OXYGEN, DISSOLVED (MG/L)		8.32
13006	9/6/2002	00300	OXYGEN, DISSOLVED (MG/L)		7.02

17892	7/9/2003	00300	OXYGEN, DISSOLVED (MG/L)	6.75
17892	5/25/2004	00300	OXYGEN, DISSOLVED (MG/L)	7
17892	6/11/2003	00300	OXYGEN, DISSOLVED (MG/L)	6.17
17892	9/6/2002	00300	OXYGEN, DISSOLVED (MG/L)	6.55
13006	10/7/2003	00300	OXYGEN, DISSOLVED (MG/L)	7.53
13007	9/6/2002	00300	OXYGEN, DISSOLVED (MG/L)	6.7
17892	8/6/2003	00300	OXYGEN, DISSOLVED (MG/L)	6.52
13007	6/11/2003	00300	OXYGEN, DISSOLVED (MG/L)	6.55
13006	6/11/2003	00300	OXYGEN, DISSOLVED (MG/L)	7.15
13007	5/25/2004	00300	OXYGEN, DISSOLVED (MG/L)	7.37
13007	8/15/2002	00300	OXYGEN, DISSOLVED (MG/L)	6.47
17892	1/8/2003	00300	OXYGEN, DISSOLVED (MG/L)	8.58
13006	1/8/2003	00300	OXYGEN, DISSOLVED (MG/L)	9.5
13007	2/27/2003	00300	OXYGEN, DISSOLVED (MG/L)	10.28
13006	5/25/2004	00300	OXYGEN, DISSOLVED (MG/L)	8.95
17892	2/27/2003	00300	OXYGEN, DISSOLVED (MG/L)	9.45
13006	8/6/2003	00300	OXYGEN, DISSOLVED (MG/L)	6.38
13006	1/30/2003	00300	OXYGEN, DISSOLVED (MG/L)	9.42
13007	1/8/2003	00300	OXYGEN, DISSOLVED (MG/L)	9.27
17892	1/30/2003	00300	OXYGEN, DISSOLVED (MG/L)	8.73
17892	10/6/2002	00300	OXYGEN, DISSOLVED (MG/L)	6.8
17892	9/17/2002	00300	OXYGEN, DISSOLVED (MG/L)	7.22
13006	4/8/2003	00300	OXYGEN, DISSOLVED (MG/L)	7.82
28632	5/25/2004	00300	OXYGEN, DISSOLVED (MG/L)	8.95
17892	8/11/2004	00300	OXYGEN, DISSOLVED (MG/L)	6.49
13007	10/6/2002	00300	OXYGEN, DISSOLVED (MG/L)	5.67
13007	8/11/2004	00300	OXYGEN, DISSOLVED (MG/L)	8.12
13007	8/6/2003	00300	OXYGEN, DISSOLVED (MG/L)	6.65
13006	8/15/2002	00300	OXYGEN, DISSOLVED (MG/L)	6.31
13006	2/27/2003	00300	OXYGEN, DISSOLVED (MG/L)	10.58
17892	9/6/2002	00307	BIOCHEM OXY DEM,INHIB, DISS(MG/L,5DAY-20C, CBOD)	< 2
13006	10/7/2003	00307	BIOCHEM OXY DEM,INHIB, DISS(MG/L,5DAY-20C, CBOD)	< 2
13007	9/6/2002	00307	BIOCHEM OXY DEM,INHIB, DISS(MG/L,5DAY-20C, CBOD)	< 2
17892	8/15/2002	00307	BIOCHEM OXY DEM,INHIB, DISS(MG/L,5DAY-20C, CBOD)	< 2
13006	8/15/2002	00307	BIOCHEM OXY DEM,INHIB, DISS(MG/L,5DAY-20C, CBOD)	< 2
17892	10/7/2003	00307	BIOCHEM OXY DEM,INHIB, DISS(MG/L,5DAY-20C, CBOD)	< 2
13006	9/6/2002	00307	BIOCHEM OXY DEM,INHIB, DISS(MG/L,5DAY-20C, CBOD)	< 2
13007	10/7/2003	00307	BIOCHEM OXY DEM,INHIB, DISS(MG/L,5DAY-20C, CBOD)	< 2
13007	8/15/2002	00307	BIOCHEM OXY DEM,INHIB, DISS(MG/L,5DAY-20C, CBOD)	< 2
28632	8/11/2004	00400	PH (STANDARD UNITS)	8.07
13007	8/15/2002	00400	PH (STANDARD UNITS)	7.99
13007	10/7/2003	00400	PH (STANDARD UNITS)	8.05
17892	9/6/2002	00400	PH (STANDARD UNITS)	7.49
17892		00400	PH (STANDARD UNITS)	
28632	5/25/2004	00400	PH (STANDARD UNITS)	8.14
17892	1/8/2003	00400	PH (STANDARD UNITS)	7.69
13007	1/8/2003	00400	PH (STANDARD UNITS)	8.01
17892	8/15/2002	00400	PH (STANDARD UNITS)	7.78
13007	10/6/2002	00400	PH (STANDARD UNITS)	7.95
17892	1/30/2003	00400	PH (STANDARD UNITS)	8.05
17892	7/9/2003	00400	PH (STANDARD UNITS)	7.79
13006	8/6/2003	00400	PH (STANDARD UNITS)	7.66
13007	7/9/2003	00400	PH (STANDARD UNITS)	8.05
13006	10/6/2002	00400	PH (STANDARD UNITS)	7.48
13006	1/8/2003	00400	PH (STANDARD UNITS)	8.17
13006	10/7/2003	00400	PH (STANDARD UNITS)	8.02
13006	5/25/2004	00400	PH (STANDARD UNITS)	8.14
13006	7/9/2003	00400	PH (STANDARD UNITS)	7.79
13007	8/6/2003	00400	PH (STANDARD UNITS)	7.95
13006	9/17/2002	00400	PH (STANDARD UNITS)	8.44
13007	8/11/2004	00400	PH (STANDARD UNITS)	8.06
17892	4/8/2003	00400	PH (STANDARD UNITS)	7.95
13006	4/8/2003	00400	PH (STANDARD UNITS)	8.06
13007	9/17/2002	00400	PH (STANDARD UNITS)	7.77
13006	2/27/2003	00400	PH (STANDARD UNITS)	7.87
13007	1/30/2003	00400	PH (STANDARD UNITS)	7.89
13007	2/27/2003	00400	PH (STANDARD UNITS)	8.28
13006	8/15/2002	00400	PH (STANDARD UNITS)	8.56
17892	8/6/2003	00400	PH (STANDARD UNITS)	7.57
13007	9/6/2002	00400	PH (STANDARD UNITS)	7.78
13006	8/11/2004	00400	PH (STANDARD UNITS)	8.07
17892	5/25/2004	00400	PH (STANDARD UNITS)	7.89
17892	6/11/2003	00400	PH (STANDARD UNITS)	7.78



13006	6/11/2003	00400	PH (STANDARD UNITS)	8.03
17892	9/17/2002	00400	PH (STANDARD UNITS)	7.58
17892	2/27/2003	00400	PH (STANDARD UNITS)	8.43
13007	5/25/2004	00400	PH (STANDARD UNITS)	8.14
17892	8/11/2004	00400	PH (STANDARD UNITS)	7.78
17892	10/7/2003	00400	PH (STANDARD UNITS)	7.85
13006	9/6/2002	00400	PH (STANDARD UNITS)	7.73
13007	6/11/2003	00400	PH (STANDARD UNITS)	8.09
17892	10/6/2002	00400	PH (STANDARD UNITS)	7.66
13006	7/9/2003	00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	177.91
13006	8/15/2002	00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	218
13007	8/6/2003	00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	192.76
13006	8/6/2003	00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	183.12
17892	8/6/2003	00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	213.42
13006	9/17/2002	00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	251.84
13007	1/8/2003	00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	320.2
17892	1/8/2003	00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	333.26
13006	1/8/2003	00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	188.46
13006	10/6/2002	00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	185.22
17892	1/30/2003	00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	208.6
13007	10/6/2002	00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	188.44
13007	1/30/2003	00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	199.27
13006	1/30/2003	00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	184.85
17892	10/6/2002	00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	205.56
17892	9/17/2002	00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	189.13
17892	2/27/2003	00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	165.87
13007	2/27/2003	00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	210.59
13007	9/17/2002	00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	289.41
17892	5/1/2003	00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	198.49
13007	9/6/2002	00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	184.26
13007	7/9/2003	00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	421.25
17892	7/9/2003	00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	167.54
17892	8/15/2002	00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	244
13006	6/11/2003	00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	194.12
17892	9/6/2002	00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	196.21
13006	2/27/2003	00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	202.74
17892	6/11/2003	00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	142.3
13006	4/8/2003	00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	172.91
13006	5/1/2003	00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	257.21
13007	5/1/2003	00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	269.39
13006	9/6/2002	00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	172.25
17892	4/8/2003	00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	199.68
13007	4/8/2003	00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	191.59
13007	8/15/2002	00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	216
13007	6/11/2003	00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	288.68
17892	10/7/2003	00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	208
13007	10/7/2003	00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	196
13006	5/25/2004	00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	186
17892	8/11/2004	00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	212
13006	10/7/2003	00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	184
17892	5/25/2004	00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	208
13007	8/11/2004	00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	192
17892		00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	
28632	5/25/2004	00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	186
13007	5/25/2004	00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	200
28632	8/11/2004	00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	192
13006	8/11/2004	00410	ALKALINITY, TOTAL (MG/L AS CaCO3)	208
17892	2/27/2003	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	0.08
17892	10/7/2003	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	< 1
13007	5/25/2004	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	< 0.03
17892	1/8/2003	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	0.06
17892	1/30/2003	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	0.22
13006	8/6/2003	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	< 1
17892	7/9/2003	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	< 1
13006	2/27/2003	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	0.04
17892	8/15/2002	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	< 0.1
28632	5/25/2004	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	< 0.03
13006	8/15/2002	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	< 0.1
17892	8/11/2004	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	< 0.03
13007	2/27/2003	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	0.07
13006	10/7/2003	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	< 1
28632	8/11/2004	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	< 0.03
13007	6/11/2003	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	< 1

13006	5/1/2003	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	<	1
13006	7/9/2003	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	<	1
17892	4/8/2003	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)		0.04
13007	1/8/2003	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)		0.14
13007	5/1/2003	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	<	1
13006	8/11/2004	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	<	0.03
17892	5/1/2003	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	<	1
13007	8/15/2002	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	<	0.1
17892		00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)		
13006	1/8/2003	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)		0.06
17892	5/25/2004	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	<	0.03
17892	8/6/2003	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	<	1
13006	1/30/2003	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)		0.3
13006	5/25/2004	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	<	0.03
13007	7/9/2003	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	<	1
13007	4/8/2003	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)		0.06
13007	8/6/2003	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	<	1
13007	8/11/2004	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	<	0.03
13006	4/8/2003	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)		0.05
13007	10/7/2003	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	<	1
13006	6/11/2003	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	<	1
17892	6/11/2003	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	<	1
13007	1/30/2003	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)		0.53
13007	8/15/2002	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	<	0.5
17892	8/6/2003	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	<	1
17892	1/30/2003	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	<	1
13006	5/25/2004	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)		0.05
13006	7/9/2003	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	<	1
13007	10/7/2003	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	<	1
13006	8/11/2004	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	<	0.05
13007	1/30/2003	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	<	1
17892	8/15/2002	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)		0.5
13006	1/30/2003	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	<	1
13007	8/11/2004	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	<	0.05
13007	7/9/2003	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	<	1
17892	8/11/2004	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	<	0.05
13007	8/6/2003	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	<	1
17892	10/7/2003	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	<	1
13007	5/1/2003	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	<	1
13006	4/8/2003	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	<	1
17892	6/11/2003	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	<	1
13006	5/1/2003	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	<	1
28632	8/11/2004	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	<	0.05
13006	10/7/2003	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	<	1
13007	4/8/2003	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	<	1
17892	5/25/2004	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	<	0.05
13006	8/6/2003	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	<	1
17892		00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)		
13007	6/11/2003	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	<	1
17892	7/9/2003	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	<	1
13006	8/15/2002	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)		0.52
17892	4/8/2003	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	<	1
13006	6/11/2003	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	<	1
13007	5/25/2004	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	<	0.05
17892	5/1/2003	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	<	1
28632	5/25/2004	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	<	0.05
13006	10/6/2002	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)		0.36
13007	4/8/2003	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)		0.41
13007	8/6/2003	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)		0.29
17892	5/25/2004	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)	<	0.05
13007	10/6/2002	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)		0.37
13007	8/11/2004	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)		0.347
13006	5/25/2004	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)	<	0.05
13006	5/1/2003	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)		11.48
17892	5/1/2003	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)		0.08
13006	7/9/2003	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)		0.42
28632	5/25/2004	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)	<	0.05
17892	8/6/2003	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)		0.38
13007	5/1/2003	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)		0.01
17892	4/8/2003	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)		0.31
17892		00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)		
17892	10/7/2003	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)		0.6
13006	2/27/2003	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)		0.71

13006	8/15/2002	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)	<	1
17892	8/15/2002	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)	<	1
28632	8/11/2004	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)		0.354
17892	10/6/2002	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)		0.38
13007	7/9/2003	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)		0.36
13006	8/6/2003	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)		0.32
13006	6/11/2003	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)		0.65
17892	2/27/2003	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)		0.71
17892	8/11/2004	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)		0.404
13007	6/11/2003	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)		0.49
13006	10/7/2003	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)		0.6
13007	2/27/2003	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)		0.61
13007	5/25/2004	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)	<	0.05
13006	8/11/2004	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)		0.39
13007	10/7/2003	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)		0.4
17892	6/11/2003	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)		0.6
13007	8/15/2002	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)	<	1
13006	4/8/2003	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)		0.51
17892	7/9/2003	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)		0.44
17892	8/6/2003	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)	<	0.01
17892	5/25/2004	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)		0.097
17892	10/7/2003	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)	<	0.01
13006	8/6/2003	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)	<	0.01
13007	1/30/2003	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)	<	0.01
13007	8/6/2003	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)	<	0.01
28632	5/25/2004	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)	<	0.01
17892		00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)		
17892	1/30/2003	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)	<	0.01
17892	8/11/2004	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)		0.02
17892	6/11/2003	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)	<	0.01
17892	8/15/2002	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)	<	0.1
13007	8/15/2002	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)	<	0.1
13006	6/11/2003	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)	<	0.01
13006	8/15/2002	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)	<	0.1
17892	7/9/2003	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)	<	0.01
13007	6/11/2003	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)	<	0.01
13007	10/7/2003	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)	<	0.01
13006	10/7/2003	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)	<	0.01
13007	5/25/2004	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)	<	0.01
13006	4/8/2003	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)		0.02
13006	5/1/2003	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)	<	0.01
13007	4/8/2003	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)	<	0.01
13007	5/1/2003	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)	<	0.01
17892	5/1/2003	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)	<	0.01
17892	4/8/2003	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)	<	0.01
28632	8/11/2004	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)		0.02
13007	7/9/2003	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)	<	0.01
13006	5/25/2004	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)	<	0.01
13006	8/11/2004	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)	<	0.01
13006	7/9/2003	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)	<	0.01
13006	1/30/2003	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)	<	0.01
13007	8/11/2004	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)	<	0.01
13006	4/8/2003	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)		0.01
13007	4/8/2003	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)	<	0.01
28632	5/25/2004	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)	<	0.01
17892	10/7/2003	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)	<	0.01
13007	5/25/2004	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)	<	0.01
13006	1/30/2003	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)	<	0.01
13007	5/1/2003	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)		4.17
17892	4/8/2003	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)	<	1
13006	7/9/2003	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)		0.12
17892	5/1/2003	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)		3.9
17892	5/25/2004	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)		0.095
13006	5/1/2003	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)		4.06
13007	8/6/2003	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)	<	0.01
17892	2/27/2003	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)	<	0.01
13007	2/27/2003	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)	<	0.01
13006	6/11/2003	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)	<	0.01
13007	10/7/2003	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)	<	0.01
17892	1/30/2003	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)	<	0.01
17892	6/11/2003	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)	<	0.01
13007	7/9/2003	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)		0.06
13007	1/30/2003	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)	<	0.01

13006	2/27/2003	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)	<	0.01
13006	8/6/2003	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)	<	0.01
13007	6/11/2003	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)	<	0.01
13006	5/25/2004	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)	<	0.01
13006	10/7/2003	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)	<	0.01
17892	7/9/2003	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)	<	0.01
17892	8/6/2003	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)	<	0.01
28632	8/11/2004	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)	<	0.01
17892	8/11/2004	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)	<	0.01
17892		00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)		
13006	8/11/2004	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)	<	0.01
13006	8/15/2002	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)	<	0.1
13007	8/11/2004	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)	<	0.01
17892	8/15/2002	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)	<	0.1
17892	10/6/2002	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)	<	0.01
13007	10/6/2002	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)	<	0.01
13006	10/6/2002	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)	<	0.01
13007	8/15/2002	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)	<	0.1
13006	5/1/2003	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		6.09
13006	8/15/2002	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		1.7
13007	8/11/2004	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		5.6
13007	8/15/2002	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		1.4
17892	5/25/2004	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		3.3
13007	7/9/2003	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	<	1
13007	9/6/2002	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		2.24
13007	4/8/2003	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		1
17892	10/6/2002	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		3.14
17892	8/11/2004	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		5.6
13007	5/25/2004	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		2.6
13006	8/6/2003	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	<	1
13006	6/11/2003	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		1.92
13006	1/30/2003	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		4.72
13006	5/25/2004	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		3.1
13006	2/27/2003	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		3.86
13006	7/9/2003	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	<	1
17892	8/6/2003	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		5.24
13007	6/11/2003	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		2.15
17892	10/7/2003	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	<	1
13006	9/17/2002	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		1.84
13006	4/8/2003	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	<	1
28632	8/11/2004	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		4.7
13007	2/27/2003	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		2.86
13007	1/30/2003	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		3.64
13007	9/17/2002	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	<	1
17892	6/11/2003	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		3.79
17892	2/27/2003	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		1.36
13006	9/6/2002	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		1.8
13007	8/6/2003	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		1.03
17892	9/17/2002	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	<	1
13006	10/7/2003	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	<	1
17892	7/9/2003	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	<	1
17892	5/1/2003	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		5.76
13006	10/6/2002	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		2.37
13007	1/8/2003	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		3.97
17892	1/30/2003	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		4.27
17892	9/6/2002	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		1.37
17892	8/15/2002	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		1.5
17892		00680	CARBON, TOTAL ORGANIC (MG/L AS C)		
28632	5/25/2004	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		3.2
13006	8/11/2004	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		5
13007	10/7/2003	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	<	1
13007	5/1/2003	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		9.89
17892	4/8/2003	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		1
13006	1/8/2003	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		1.14
13007	10/6/2002	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	<	1
17892	1/8/2003	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		1.32
13007	9/5/2002	00800			1
17892	8/5/2003	00800			2
13007	8/6/2003	00800			2
17892	9/4/2002	00800			1
13006	8/6/2003	00800			1
13006	9/3/2002	00800			1
13007	8/6/2003	00812	Statedwite criteria IBI Score	IntLm	38

17892	9/4/2002	00812	Statewide criteria IBI Score	Int	42
17892	8/5/2003	00812	Statewide criteria IBI Score	High	46
13006	8/6/2003	00812	Statewide criteria IBI Score	Int	44
13007	9/5/2002	00812	Statewide criteria IBI Score	LmInt	38
13006	9/3/2002	00812	Statewide criteria IBI Score	Int	40
17892	9/4/2002	00813	Number of native cyprinid species		3
13007	8/6/2003	00813	Number of native cyprinid species		6
13006	8/6/2003	00813	Number of native cyprinid species		6
17892	8/5/2003	00813	Number of native cyprinid species		5
13006	9/3/2002	00813	Number of native cyprinid species		5
13007	9/5/2002	00813	Number of native cyprinid species		4
13007	8/6/2003	89906	NUMBER OF INDIV. IN BENTHIC RBA SUBSAMPLE (#IND)		102
17892	9/4/2002	89906	NUMBER OF INDIV. IN BENTHIC RBA SUBSAMPLE (#IND)		92
17892	8/5/2003	89906	NUMBER OF INDIV. IN BENTHIC RBA SUBSAMPLE (#IND)		106
13006	9/3/2002	89906	NUMBER OF INDIV. IN BENTHIC RBA SUBSAMPLE (#IND)		84
13006	8/6/2003	89906	NUMBER OF INDIV. IN BENTHIC RBA SUBSAMPLE (#IND)		108
13007	9/5/2002	89906	NUMBER OF INDIV. IN BENTHIC RBA SUBSAMPLE (#IND)		106
17892	9/4/2002	89941	NET LENGTH (METERS)		5.49
13007	8/6/2003	89941	NET LENGTH (METERS)		5.49
17892	8/5/2003	89941	NET LENGTH (METERS)		5.49
13007	9/5/2002	89941	NET LENGTH (METERS)		5.49
13006	9/3/2002	89941	NET LENGTH (METERS)		5.49
13006	8/6/2003	89941	NET LENGTH (METERS)		5.49
17892	9/4/2002	89943	ELECTROFISHING METHOD 1BOAT2BACKPACK3TOTEARGE		2
13006	9/3/2002	89943	ELECTROFISHING METHOD 1BOAT2BACKPACK3TOTEARGE		2
13007	8/6/2003	89943	ELECTROFISHING METHOD 1BOAT2BACKPACK3TOTEARGE		2
17892	8/5/2003	89943	ELECTROFISHING METHOD 1BOAT2BACKPACK3TOTEARGE		2
13006	8/6/2003	89943	ELECTROFISHING METHOD 1BOAT2BACKPACK3TOTEARGE		2
13007	9/5/2002	89943	ELECTROFISHING METHOD 1BOAT2BACKPACK3TOTEARGE		2
17892	8/5/2003	89944	ELECTROFISH EFFORT, DURATION OF SHOCKING (SEC)	>	899
13007	8/6/2003	89944	ELECTROFISH EFFORT, DURATION OF SHOCKING (SEC)	>	899
13006	8/6/2003	89944	ELECTROFISH EFFORT, DURATION OF SHOCKING (SEC)	>	899
17892	9/4/2002	89944	ELECTROFISH EFFORT, DURATION OF SHOCKING (SEC)	>	900
13007	9/5/2002	89944	ELECTROFISH EFFORT, DURATION OF SHOCKING (SEC)	>	900
13006	9/3/2002	89944	ELECTROFISH EFFORT, DURATION OF SHOCKING (SEC)	>	900
13007	8/6/2003	89946	MESH SIZE, ANY NET OR SIEVE, AVERAGE BAR (CM)		0.3175
17892	9/4/2002	89946	MESH SIZE, ANY NET OR SIEVE, AVERAGE BAR (CM)		0.3175
13006	8/6/2003	89946	MESH SIZE, ANY NET OR SIEVE, AVERAGE BAR (CM)		0.3175
17892	8/5/2003	89946	MESH SIZE, ANY NET OR SIEVE, AVERAGE BAR (CM)		0.3175
13006	9/3/2002	89946	MESH SIZE, ANY NET OR SIEVE, AVERAGE BAR (CM)		0.3175
13007	8/6/2003	89948	COMBINED LENGTH OF SEINE HAULS (METERS)		6
13006	9/3/2002	89948	COMBINED LENGTH OF SEINE HAULS (METERS)		60
17892	8/5/2003	89948	COMBINED LENGTH OF SEINE HAULS (METERS)		6
13006	8/6/2003	89948	COMBINED LENGTH OF SEINE HAULS (METERS)		6
17892	9/4/2002	89948	COMBINED LENGTH OF SEINE HAULS (METERS)		60