Impairment Verification Monitoring

Dissolved Oxygen

Segment 1913 Mid Cibolo Creek

Volume 1

June 2005

Texas Engineering Experiment Station

Shoreline Environmental Research Facility

Impairment Verification Monitoring—Volume 1: Physical, and Chemical Components
Segment 1913 Mid Cibolo Creek

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 water quality data collected on Mid Cibolo Creek (Segment 1913) during the period from August 2002 through August 2004. It has been prepared for the Texas Commission on Environmental Quality (TCEQ) by the Shoreline Environmental Research Facility at Texas A&M University under an inter-agency contract between the TCEQ and the Texas Engineering Experiment Station. Mid Cibolo Creek is a 19-mile freshwater stream in the San Antonio River Basin that extends from a point 100 meters downstream of Interstate Highway IH-10 in Bexar/Guadalupe County to the Missouri-Pacific Railroad Bridge west of Bracken in Comal County. Segment 1913 was included on the 2000 State of Texas Clean Water Act 303(d) (TNRCC 2000a) list as partially supporting due to low concentration of dissolved oxygen that were below the criteria associated with a limited aquatic life use.

Volume 1 presents the water quality data 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. Data for dissolved oxygen are compared to aquatic life use criteria. Volume 2, prepared by project partner Ecological Communications Corporation (ECOMM 2005), describes the biological sampling and analyses conducted by ECOMM.

Water quality assessment has evolved since the 2000 305(b) Water Quality Inventory (TNRCC 2000a) with the introduction of new methodologies. These include the development of hydrologically unique Assessment Units, use of the binomial approach for analysis, and the use of 24-hour dissolved oxygen measurements. None of the 41 samples collected on Mid Cibolo Creek had average dissolved oxygen values that fell below the TCEQ average of 3 mg/L. However, 4 of the 24-hour minimum values for the 41 samples were below the TCEQ minimum criteria of 2 mg/L. As a result of these findings, Mid Cibolo Creek (Segment1913) will remain on the 303(d) List of impaired waters due to non-support of aquatic life use resulting from depressed dissolved oxygen.

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INTRODUCTION

Mid Cibolo Creek is a 19-mile freshwater stream in the San Antonio River Basin that extends from a point 100 meters downstream of Interstate Highway IH-10 in Bexar/Guadalupe County to the Missouri-Pacific Railroad Bridge west of Bracken in Comal County. Land use in the area is primarily pasture land and forest. (Figure 2 and Table 1).

Mid Cibolo Creek was identified as impaired based on exceedances of the criteria associated with limited aquatic life use standards in the *2000 Water Quality Inventory* (TNRCC 2000a). The assessment found that some instantaneous dissolved oxygen samples collected in the stream exhibited concentrations lower than the criterion established to assure optimum conditions for aquatic life. The TCEQ determined that there was an insufficient number of 24-hour dissolved oxygen samples collected since 1999 to allow for a reassessment of standards attainment and in response, 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 (TAMUK) 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). This team was tasked with the design and implementation of a monitoring plan to verify the impairment, make recommendations, and then take the necessary action to restore use where necessary. The TAMUK team conducted sampling at three stations on Mid Cibolo Creek during August 2002 through August 2004 to provide the TCEQ with additional 24-hour dissolved oxygen, physical and chemical analyses, as well as biological assessments. In September of 2003 CBI took over as the project lead under a contract between the TCEQ and the Texas Engineering Experiment Station (TEES).

The information provided in this report is included in two volumes. Volume 1 describes the physical/chemical sampling and data analyses for water quality on Mid Cibolo Creek. The 24-hour dissolved oxygen sampling results are presented in tabular and graphical formats with statistical summaries. Other measured constituents include pH, water temperature, conductivity, and nutrient data, for which basic statistics are provided by station and sampling type. Volume 2, prepared by ECOMM (2005), describes the biological sampling and data analyses conducted by ECOMM on Mid Cibolo Creek.

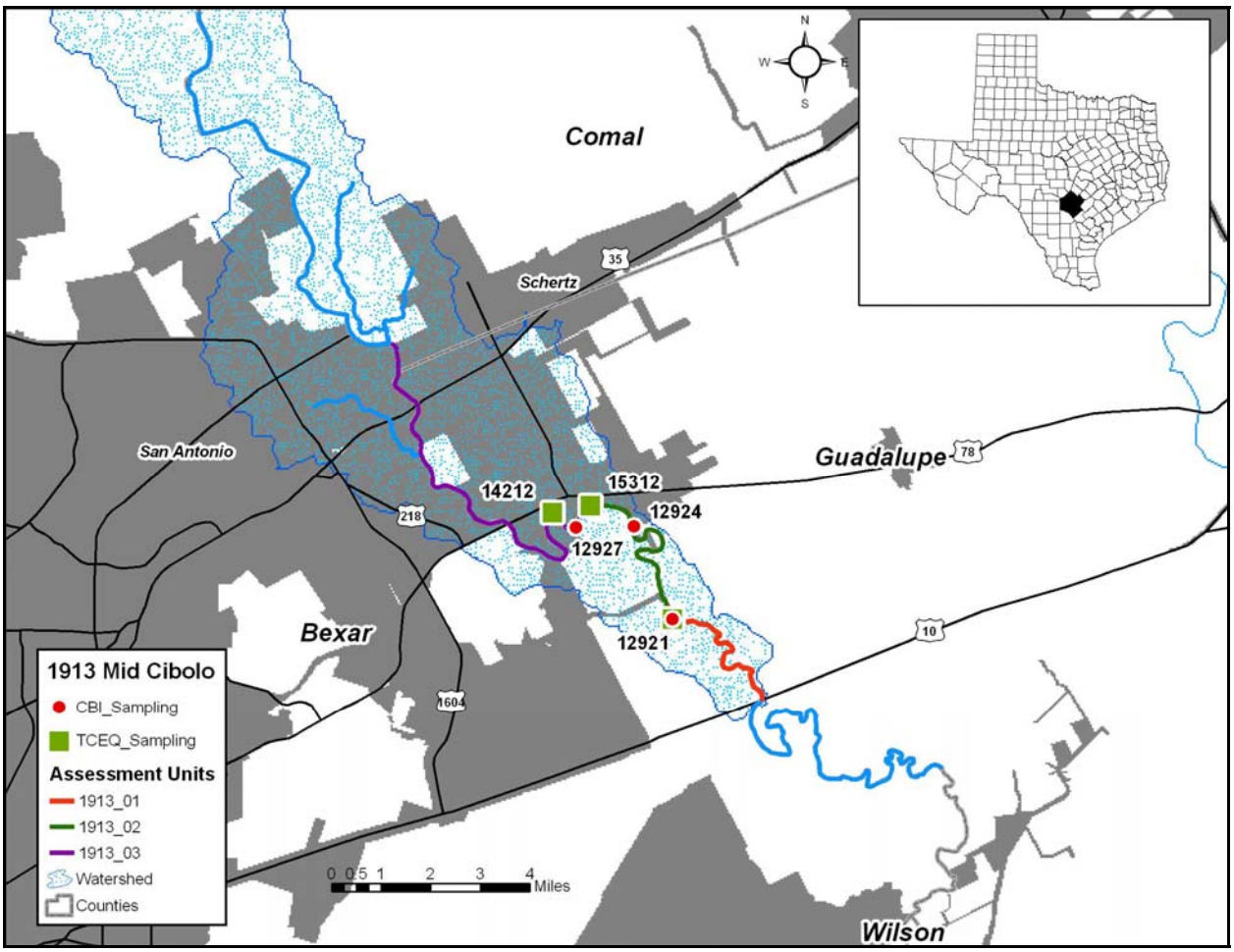

Figure 1. Map showing Sampling Station Locations on Mid Cibolo Creek.

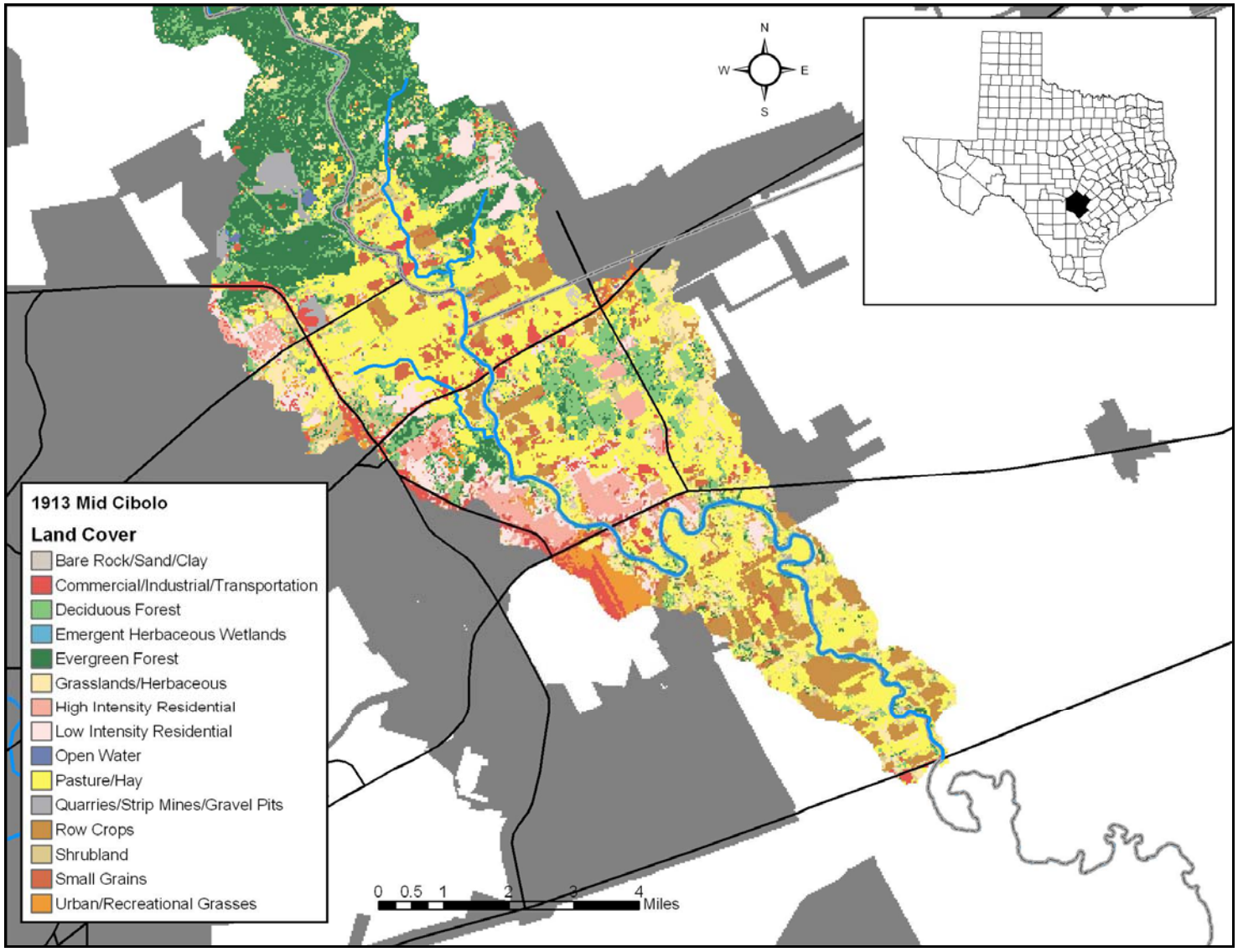

Figure 2. Land Use Map for Segment 1913 Mid Cibolo Creek

PERCENT	TYPE
47	Evergreen Forest
22	Grasslands/Herbaceous
7	Pasture/Hay
6	Deciduous Forest
6	Shrubland
3	Low Intensity Residential
2	Row Crops
2	Small Grains
2	Commercial/Industrial/Transportation
1	High Intensity Residential
1	Urban/Recreational Grasses
1	Bare Rock/Sand/Clay
< 1	Open Water
< 1	Quarries/Strip Mines/Gravel Pits
< 1	Emergent Herbaceous Wetlands

Table 1. Land use percentages for Mid Cibolo Creek

HISTORICAL REVIEW

The segment specific uses and criteria for Mid Cibolo, as identified in the 2002 305(b) Assessment (TNRCC 2002a), are as follows:

- Limited Aquatic Life Use
- Contact Recreation Use
- Fish Consumption Use

The 2000 303(d) List (TNRCC 2000a) included Mid Cibolo Creek as partially supporting for aquatic life use due to depressed dissolved oxygen levels in the stream. The results of the assessment of samples for the 2000 and 2002 Water Quality Inventory are given in Table 2. Table 3 lists all TCEQ Monitoring Stations on this segment, and Figures 3, 4 and 5 present photographs for the three Monitoring Stations from which samples were collected during this project.

Table 2. Assessment Samples for Segment 1913 Mid Cibolo Creek for the 2000 and 2002 Inventory (Developed from water quality data collected between March 1, 1996 and February 28, 2001)

Segment ID	Assessment Unit	Year	Uses or Criteria	Level of Support	Method	Samples Taken	Exceeded	% Exceeded
1913	N/A	1999	Aquatic Life Use	Partially Supporting	DO grab	33	0	0
1913	N/A	1999	Aquatic Life Use	Partially Supporting	DO grab	23	4	17
1913	1913_02	2002	Aquatic Life Use	Partially Supporting	DO grab average	10	0	0
1913	1913_03	2002	Aquatic Life Use	Partially Supporting	DO grab average	22	4	18.18
1913	1913_01	2002	Aquatic Life Use	Partially Supporting	DO grab average	32	0	0
1913	1913_02	2002	Aquatic Life Use	Partially Supporting	DO grab minimum	10	0	0
1913	1913_03	2002	Aquatic Life Use	Partially Supporting	DO grab minimum	22	2	9.1
1913	1913_01	2002	Aquatic Life Use	Partially Supporting	DO grab minimum	32	0	0

Table 3. All TCEQ Monitoring Stations on Segment 1913. Green shading indicates Stations used in impairment verification monitoring. Photos for the 3 stations are indicated in the third column.

Station	Station Descriptions	Photograph
12921	Cibolo Creek at Wier Rd 3 miles upstream from IH 10	**Figure 3**
15312	Cibolo Creek 200 meters downstream from Cibolo Creek Municipal Authorities Waste Water Treatment Plant approximately 1km downstream from FM78, east of Schertz, TX	
12924	Cibolo Creek at Schaeffer Rd	**Figure 4**
12927	Cibolo Creek at River Rd	**Figure 5**
14212	Cibolo Creek upstream from Cibolo Creek Municipal Authorities Waste Water Treatment Plan t off River Rd	

Figure 3. Station 12921

Figure 4. Station 12924

Figure 5. Station 12927

PROBLEM DEFINITION

TAMUK and CBI led an effort for the TCEQ to assess the water quality in Mid Cibolo Creek (Segment 1913). This segment was included on the 2000 State of Texas Clean Water Act 303(d) (TNRCC 2000a) lists as partially supporting for aquatic life use due to depressed levels of dissolved oxygen. 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 data and knowledge gaps as well as determining 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 TMDL for the given constituent and the impairment, or 4) collect additional data. Figure 6 outlines this decision making procedure for aquatic life impairments in graphical form.

ASSESSMENT METHODOLOGY

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

- **Dissolved oxygen monitoring.** The 2000 Water Quality Inventory determined that aquatic life uses on Segment 1913 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 requiring restorative actions could only be made using 24-hour composite data, which gives a more accurate representation of the aquatic life uses for the stream. This requires the use of data logging equipment to obtain the specified type of 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 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 (Table 4). 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.

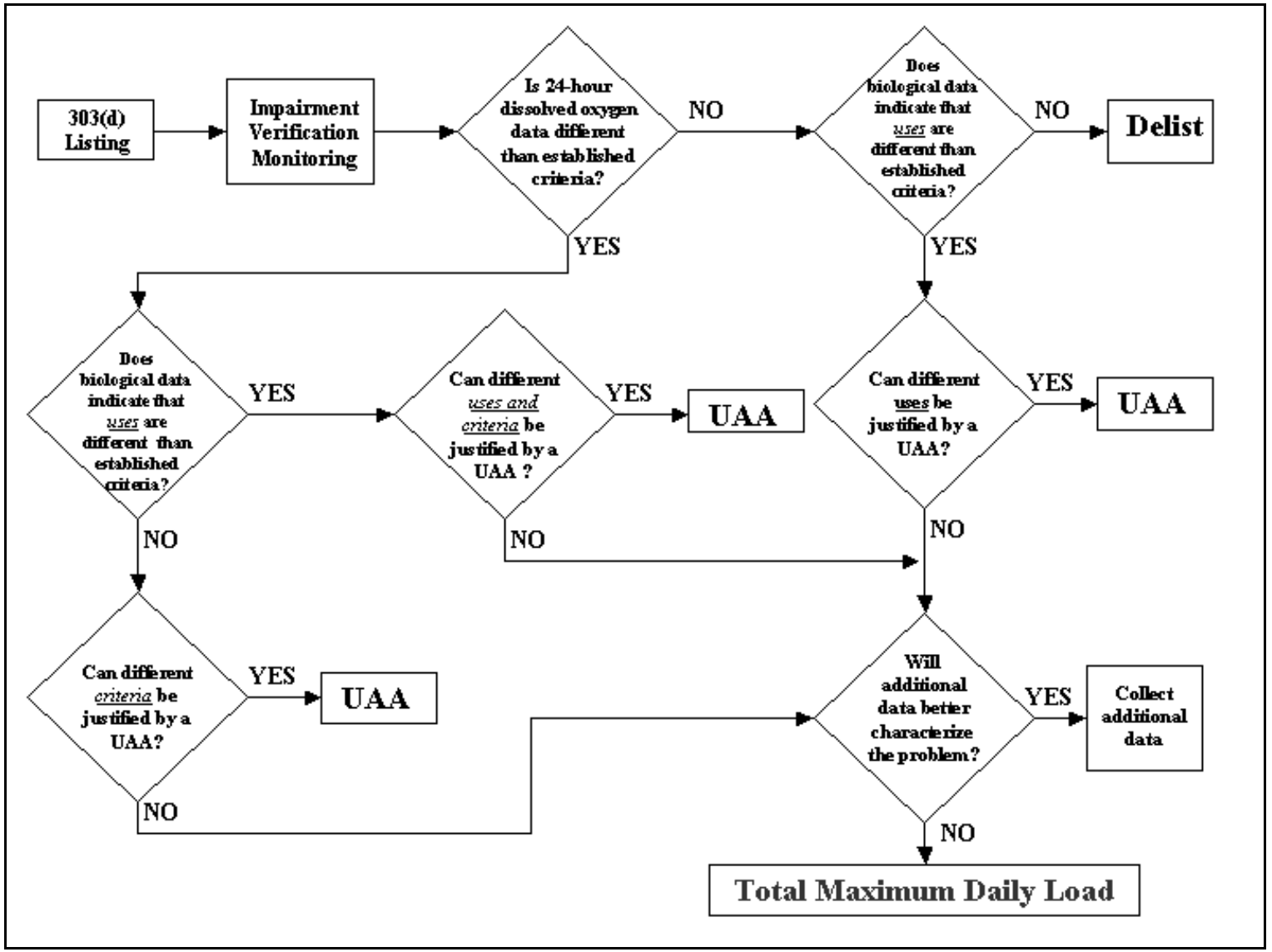

Figure 6 Conceptual Decision Framework

Table 4. Mid Cibolo Creek Aquatic Life Assessment Summary (NS=non-supporting, PS=partially supporting, FS=fully supporting)

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
1913	12921	X	X	1913_01	Lower 7 miles of segment from IH 10 to Bexar CR 320	FS	FS	3 mg/L	2 mg/L
1913	15312		X	1913_02	From Bexar CR 320 to approx. 0.10 miles upstream of Buffalo Trail in Cibolo	FS	FS	3 mg/L	2 mg/L
1913	12924	X				FS	FS		
1913	12927	X		1913_03	From approx. 0.10 mi. upstream of Buffalo Trail in Cibolo to upper end of segment	FS	FS	3 mg/L	2 mg/L
1913	14212		X			FS	PS		

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 by TAMUK. This process ensured 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 by TAMUK 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 Clean River Partners and TCEQ Regional 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 on Mid Cibolo Creek 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 Mid Cibolo Creek.

Station Selection

Several factors were considered when sampling stations (Table 3) 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 while 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. Analyses 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 1999). These data were collected primarily to support a use reclassification, if necessary. Volume 2 presents all biological results and analyses.

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
pH	*pH. units*	*Multi parameter probe*	*EPA 150.1and TCEQ SOP*	*00400*	*NA*	*10*	*NA*	*NA*	*Field*
DO	*mg/L*	*Multi parameter probe*	*EPA 360.1and TCEQ SOP*	*00300*	*NA*	*10*	*NA*	*NA*	*Field*
DO 24-hr min.	*mg/L*	*Multi parameter probe*	*EPA 360.1and TCEQ SOP*	*89855*	*NA*	*10*	*NA*	*NA*	*Field*
DO 24-hr max.	*mg/L*	*Multi parameter probe*	*EPA 360.1and TCEQ SOP*	*89856*	*NA*	*10*	*NA*	*NA*	*Field*
DO 24-hr avg.	*mg/L*	*Multi parameter probe*	*EPA 360.1and TCEQ SOP*	*89857*	*NA*	*10*	*NA*	*NA*	*Field*
DO number of meas.	*mg/L*	*Multi parameter probe*	*EPA 360.1and TCEQ SOP*	*89858*	*NA*	*10*	*NA*	*NA*	*Field*
Conductivity	*uS/cm*	*Multi parameter probe*	*EPA 120.1and TCEQ SOP*	*00094*	*NA*	*10*	*NA*	*NA*	*Field*
Temperature	*°Celsius*	*Multi parameter probe*	*EPA 170.1and TCEQ SOP*	*00010*	*NA*	*10*	*NA*	*NA*	*Field*
Secchi Depth	*meters*	*Secchi disc*	*TCEQ SOP*	*00078*	*NA*	*20*	*NA*	*NA*	*Field*
Days since last significant rainfall	*days*		*TCEQ SOP*	*72053*	*NA*	*NA*	*NA*	*NA*	*Field*
Flow	*cfs*		*TCEQ SOP and ADCP*	*00061*	*NA*	*NA*	*NA*	*NA*	*Field*
Flow Severity	*1-no flow, 2-low,*		*TCEQ SOP*	*01351*	*NA*	*NA*	*NA*	*NA*	*Field*

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
	3-normal, 4-flood, 5-high, 6-dry								
TSS	*mg/L*	*gravimetric*	*EPA 160.2*	*00530*	*4.0*	*20*	*NA*	*NA*	*SATL*
TOC	*mg/L*	*combustion-infrared*	*SM 5310B*	*00680*					*SATL*
Alkalinity	*mg/L*	*titrimetric*	*EPA 310.1*	*00410*	*10*	*10*	*80-120*	*NA*	*SATL*
Sulfate	*mg/L*	*turbidimetric*	*EPA 375.4*	*00945*	*10*	*10*	*80-120*	*75-125*	*SATL*
Chloride	*mg/L*	*titrimetric*	*SM 4500*	*00940*	*10*	*10*	*80-120*	*75-125*	*SATL*
Ammonia-N	*mg/L*	*titrimetric*	*EPA 350.2*	*00610*	*0.06*	*10*	*80-120*	*75-125*	*SATL*
O-phosphate-P	*mg/L*	*colorimetric*	*EPA 365.2*	*00671*	*0.04*	*10*	*80-120*	*75-125*	*SATL*
Nitrate/nitrite-N	*mg/L*	*spectro-photometer*	*EPA 353.3*	*00631*	*0.04*	*10*	*80-120*	*75-125*	*SATL*
Total Phosphorus	*mg/L*	*colorimetric*	*EPA 365.2*	*00665*	*0.04*	*10*	*80-120*	*75-125*	*SATL*
Total Kjeldahl Nitrogen	*mg/L*	*ion selective electrode*	*EPA 351.3*	*00625*	*0.2*	*10*	*80-120*	*75-125*	*SATL*
Chlorophyll-A	*ug/L*	*colorimetric*	*SM 10200-H*	*32211*	*5.0*	*20*	*NA*	*75-125*	*SATL*
Pheophytin-A	*ug/L*	*colorimetric*	*SM 10200-H*	*32218*	*3.0*	*20*	*NA*	*75-125*	*SATL*
CBOD	*mg/L*	*incubation*	*EPA 405.1*	*00307*	*2.0*	*10*	*N/A*	*N/A*	*SATL*

SATL: San Antonio Testing Laboratory\

AWRL: Ambient Water Reporting Limit

RESULTS

Three Assessment Units (AU) were identified for impairment verification in this study. The 24-hour, dissolved-oxygen average values (Table 6) collected during this project for the three AUs were plotted against time with the TCEQ standard of 3 mg/L for limited aquatic life use as benchmark (Figures 7, 8 and 9). None of the 41 samples collected on Mid Cibolo Creek had average dissolved oxygen values below the average criterion (3 mg/L). Of the 41 samples taken, (Table 7) 4 were below the TCEQ minimum criteria standard of 2 mg/L (Figures 10, 11 and 12). Statistics for the non-critical field and laboratory parameters are presented in Tables 9 and 10, 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
1913_01	12921	15	5.99	1.27	7.32	3.49
1913_02	12924	13	6.56	1.42	9.25	3.85
1913_03	12927	13	6.74	1.12	9.47	5.32

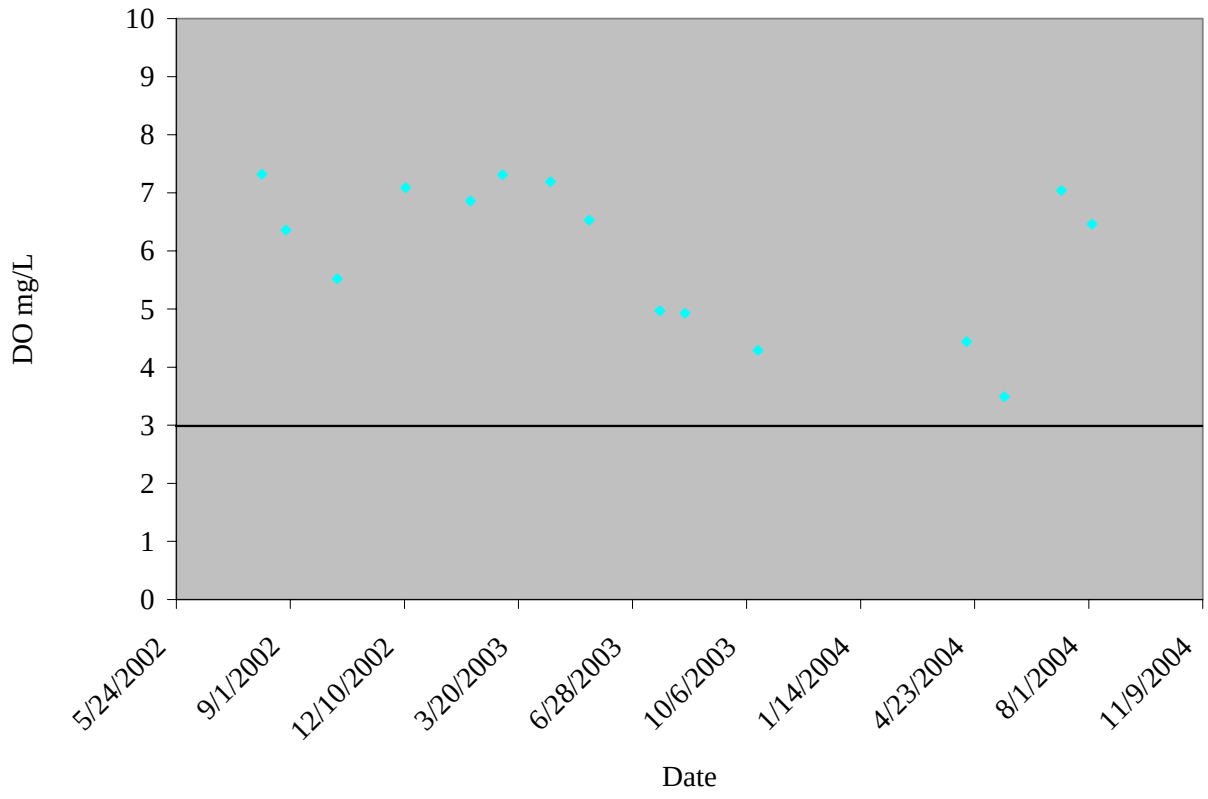

Figure 7. Plot of average 24-hour DO measurements at Mid Cibolo Creek Assessment Unit 1

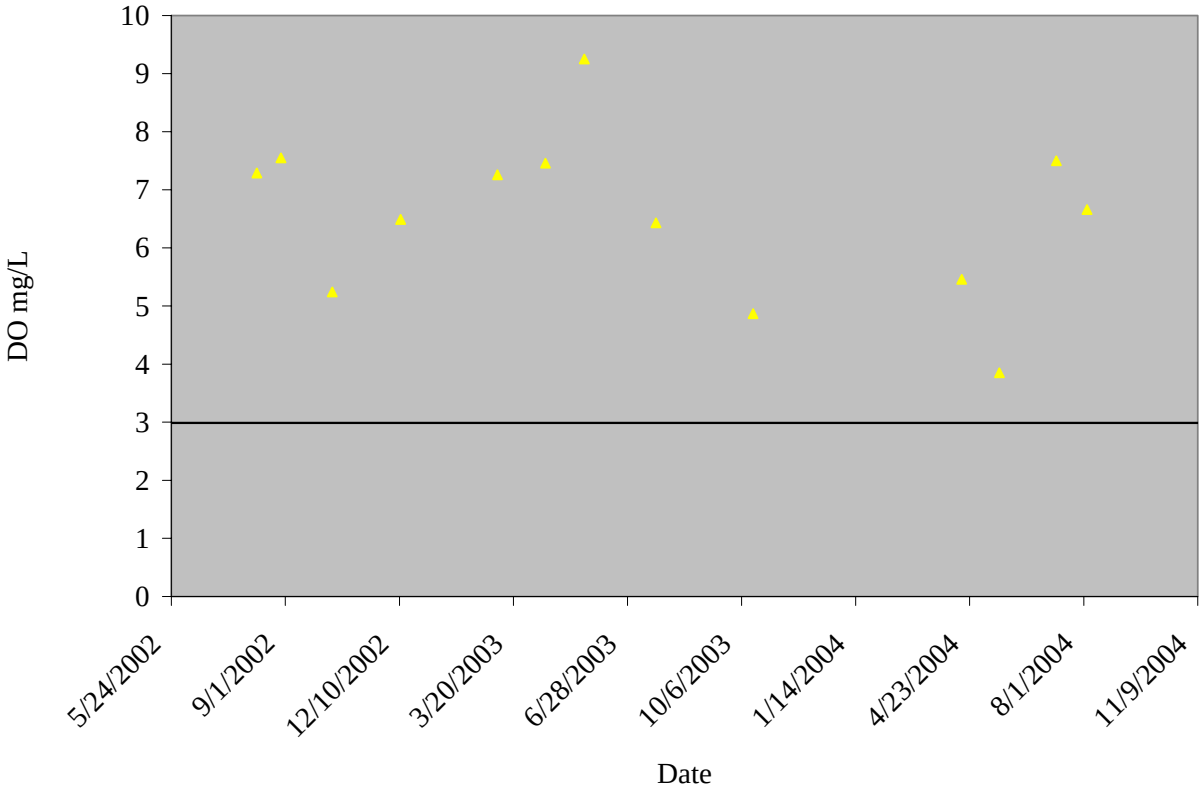

Figure 8. Plot of average 24-hour DO measurements at Mid Cibolo Creek Assessment Unit 2

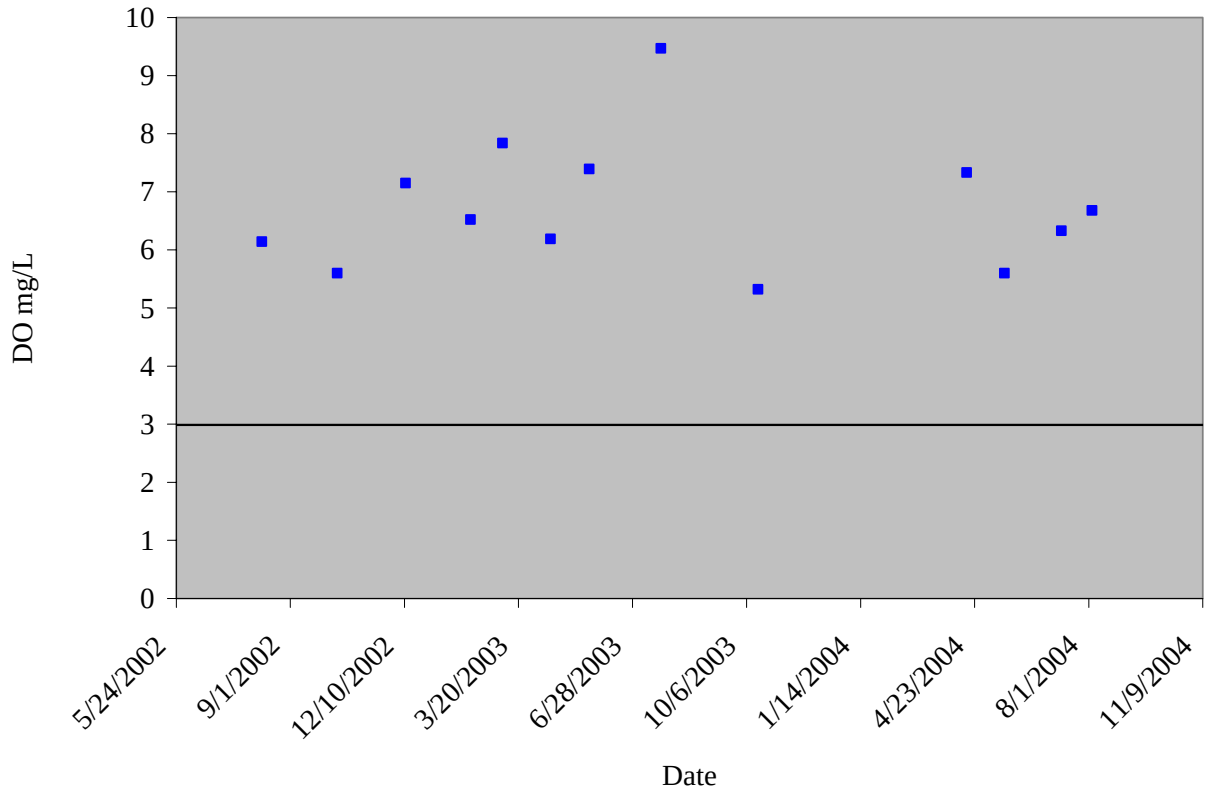

Figure 9. Plot of average 24-hour DO measurements at Mid Cibolo Creek Assessment Unit 3

Table 7. Statistics for 24-hour DO Minimum Values

Assessment Unit	Station Identification	Number of Samples	Mean Value	Standard Deviation	Maximum Value	Minimum Value
1913_01	12921	15	5.27	1.23	7.05	2.90
1913_02	12924	13	3.23	1.37	5.63	1.17
1913_03	12927	13	5.38	0.75	6.77	4.25

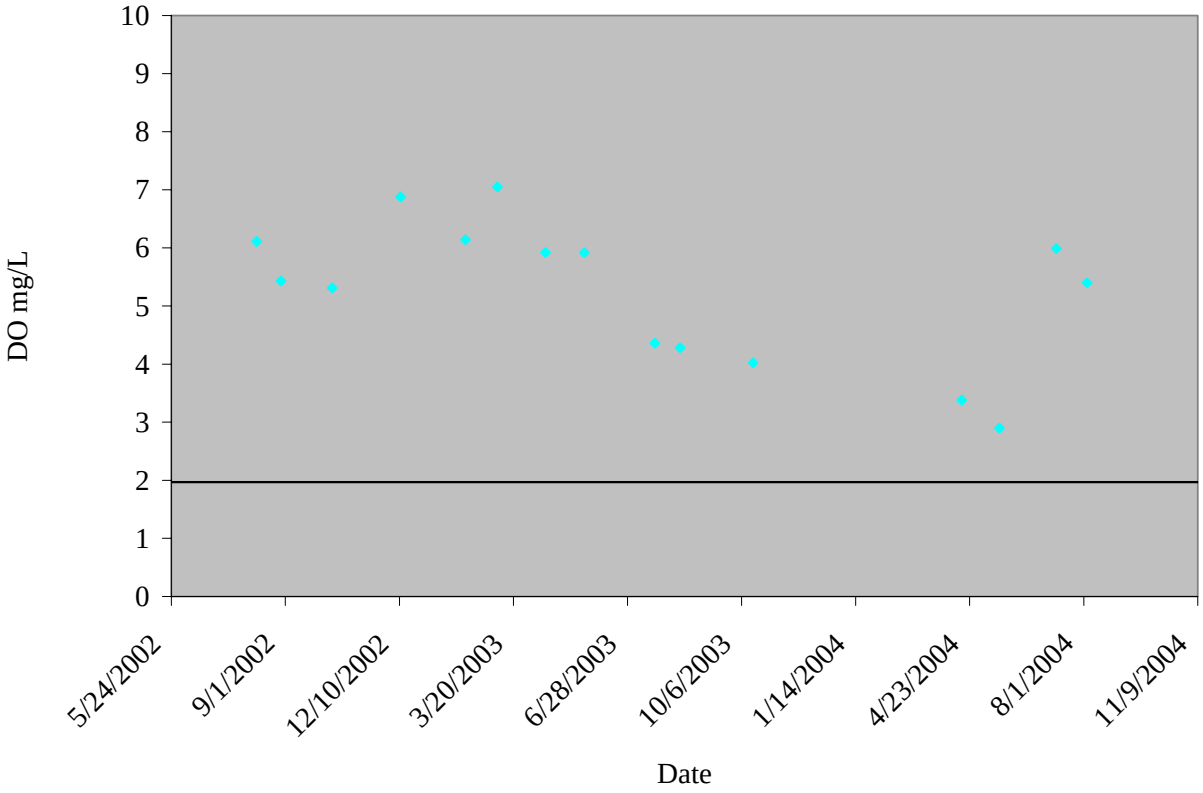

Figure 10. Plot of Minimum 24-hour DO values at Mid Cibolo Creek Assessment Unit 1

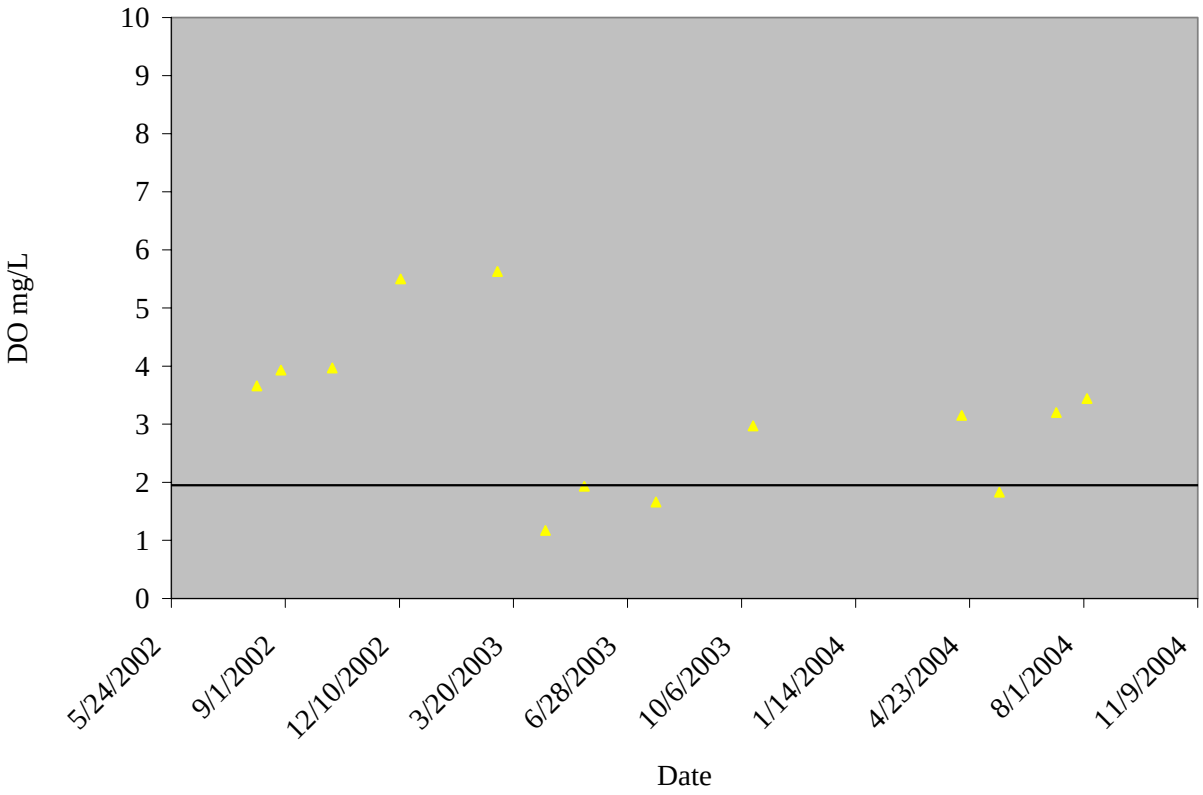

Figure 11. Plot of Minimum 24-hour DO values at Mid Cibolo Creek Assessment Unit 2

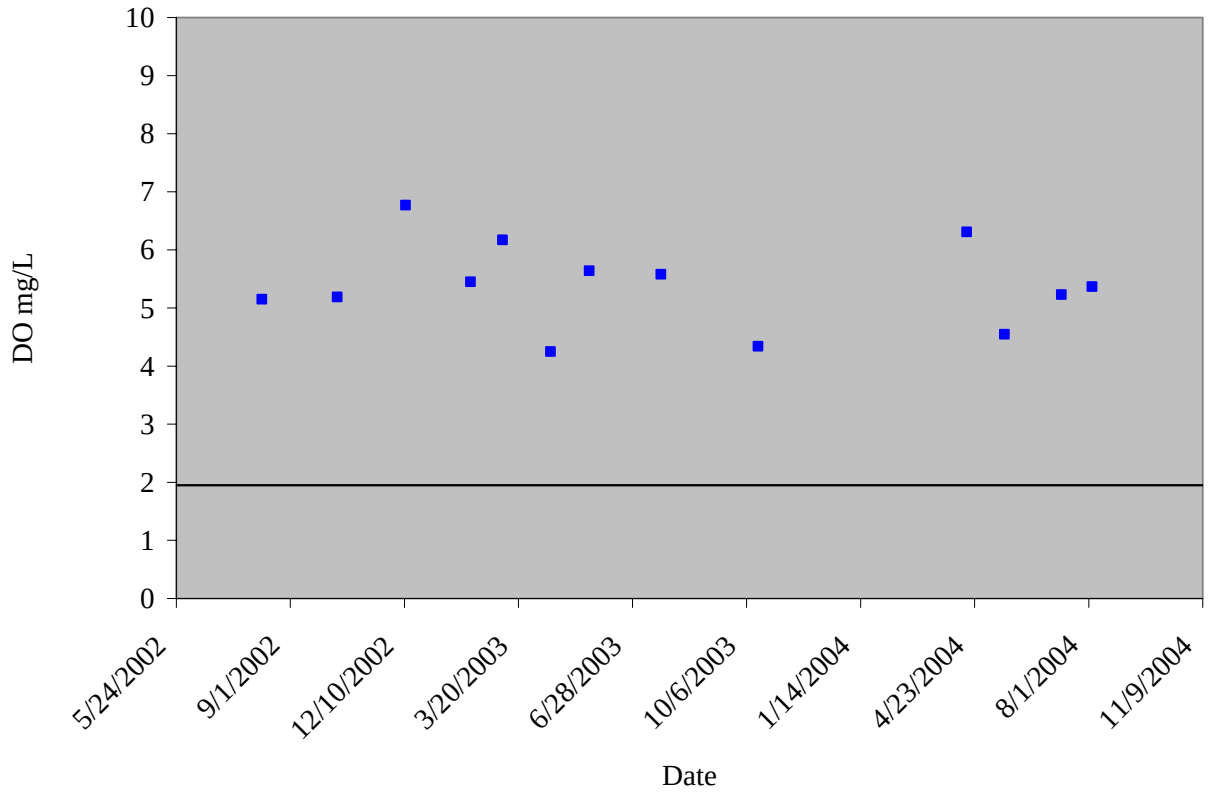

Figure 12. Plot of Minimum 24-hour DO values at Mid Cibolo Creek Assessment Unit 3

Table 9. Statistics for non-critical field parameters

Station Identification	Parameters	Number of Samples	Mean Value	Standard Deviation	Maximum Value	Minimum Value
12921	Temp (Celsius)	16	23.24	5.92	30.89	13.77
12924	Temp (Celsius)	14	23.48	5.77	31.52	14.77
12927	Temp (Celsius)	16	21.77	3.78	25.78	14.29
12921	pH	16	7.53	0.20	8.05	7.13
12924	pH	13	7.53	0.16	7.79	7.30
12927	pH	15	7.29	0.24	7.93	7.04
12921	Spot DO (mg/L)	16	6.00	1.66	9.63	3.01
12924	Spot DO (mg/L)	14	6.41	2.67	10.80	3.15
12927	Spot DO (mg/L)	14	6.82	1.76	10.08	4.56
12921	Specific Conductivity (microsiemens/cm)	12	707.25	201.96	1161.00	412.00
12924	Specific Conductivity (microsiemens/cm)	10	779.20	193.09	1170.00	491.00
12927	Specific Conductivity (microsiemens/cm)	12	673.92	163.24	975.00	308.00
12921	24hr DO Max (mg/L)	15	6.87	1.61	9.51	6.87
12924	24hr DO Max (mg/L)	13	10.57	3.02	15.88	6.45
12927	24hr DO Max (mg/L)	13	8.18	2.07	13.15	5.95
12921	Flow (cfs)	15	17.82	9.66	43.66	7.79
12924	Flow (cfs)	11	9.56	4.68	19.88	2.46
12927	Flow (cfs)	14	6.32	4.62	20.12	2.60

Table 10. Statistics for laboratory parameters

Station Identification	Parameter	Number of Samples	Mean Value	Standard Deviation	Maximum Value	Minimum Value
12921	Alkalinity (mg/L)	15	263.62	100.86	596.46	162.00
12924	Alkalinity (mg/L)	15	287.21	264.19	1213.01	27.39
12927	Alkalinity (mg/L)	15	334.21	249.19	1216.95	163.65
12921	Chloride (mg/L)	16	59.62	14.89	79.98	18.30
12924	Chloride (mg/L)	16	78.56	14.57	96.24	38.90
12927	Chloride (mg/L)	16	32.48	12.33	67.24	12.00
12921	Sulfate (mg/L)	16	44.70	15.60	83.47	24.00
12924	Sulfate (mg/L)	16	51.31	10.70	67.33	25.80
12927	Sulfate (mg/L)	16	43.84	11.21	67.46	21.50
12921	TSS (mg/L)	5	32.20	16.56	46.00	8.00
12924	TSS (mg/L)	N/A	N/A	N/A	N/A	N/A
12927	TSS (mg/L)	5	10.80	7.53	24.00	6.00
12921	Ammonia (mg/L)	16	0.58	0.41	<1.00	<0.03
12924	Ammonia (mg/L)	16	0.87	0.58	2.14	<0.03
12927	Ammonia (mg/L)	16	0.55	0.50	1.36	<0.03
12921	Phosphate (mg/L)	15	12.78	47.40	184.11	0.10
12924	Phosphate (mg/L)	15	15.73	57.85	224.85	0.07
12927	Phosphate (mg/L)	15	0.25	0.52	2.00	<0.01
12921	Orthophosphate (mg/L)	15	0.58	0.25	0.95	<0.10
12924	Orthophosphate (mg/L)	15	0.96	0.39	1.86	0.30
12927	Orthophosphate (mg/L)	15	0.05	0.04	0.14	0.01
12921	TKN (mg/L)	14	0.60	0.44	<1.00	<0.05
12924	TKN (mg/L)	14	0.68	0.41	<1.00	<0.05
12927	TKN (mg/L)	14	0.65	0.52	1.68	<0.05
12921	TOC (mg/L)	16	6.32	3.10	13.67	1.38
12924	TOC (mg/L)	16	7.09	2.19	10.98	2.70
12927	TOC (mg/L)	16	3.61	2.13	7.70	<1.00
12921	Chlorophyll A (ug/L)	16	3.08	3.64	10.00	<0.25
12924	Chlorophyll A (ug/L)	16	2.75	3.79	10.90	<0.25
12927	Chlorophyll A (ug/L)	15	1.42	2.46	10.00	<0.25
12921	Phenophytin A (ug/L)	16	2.57	3.10	10.04	<0.25
12924	Phenophytin A (ug/L)	16	3.07	6.53	26.70	0.21
12927	Phenophytin A (ug/L)	15	2.64	4.42	16.82	<0.25
12921	Nitrate/Nitrite (mg/L)	14	4.33	3.04	7.96	<0.05
12924	Nitrate/Nitrite (mg/L)	14	5.03	3.46	9.90	<0.05
12927	Nitrate/Nitrite (mg/L)	14	2.29	1.66	4.67	<0.05

DISCUSSION

Water quality assessment has improved dramatically with introduction of new analytical techniques and methodologies. These include the development of Assessment Units, the use of the binomial approach for data analysis, and the use of 24-hour dissolved oxygen measurements. The most significant improvement directly related to data collected on Segment 1913 is the use of 24-hour dissolved-oxygen averages in place of the (historical) instantaneous measurements. The 24-hour average dissolved oxygen measurements provide 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 criteria. The results from the physical and chemical data collected by the TAMUK/CBI team on Mid Cibolo Creek indicate impairment due to depressed levels of dissolved oxygen. Although none of the 41 24-hour dissolved oxygen samples had an average value that exceeded the TCEQ average criteria, 4 exceeded the TCEQ minimum criteria associated with a "limited aquatic life use". As a result of these findings, Mid Cibolo Creek will continue to be designated as impaired due to non-support of aquatic life use resulting from depressed dissolved oxygen.

ESTABLISHING A TMDL FOR MID CIBOLO CREEK

Beginning in September of 2005, TEES and the TCEQ will begin the process of establishing a TMDL for Mid Cibolo Creek. A TMDL determines the maximum amount of a pollutant a water body can receive and still maintain its uses. The allowable amount of the specific pollutant is determined as a load and is allocated across the sources within the watershed. Impaired water bodies are included in Category 5a of the 303(d) list. These water bodies are categorized by the fact that a TMDL is underway, scheduled or will be scheduled in the future.

Main Elements of a TMDL

- Problem Definition
- Endpoint Identification
- Source Analysis
- Linkage between sources and receiving waters
- Margin of Safety
- Pollutant load allocation (point, non-point, and natural)

This process includes the collection of event based monitoring data for the streams, establishing a stakeholder steering committee for the watershed, and the development of water quality and watershed models for simulating pollutant loading scenarios. The end result of this process will be the development of the TMDL which will provide a plan to restore impaired uses. Following the approval of the TMDL, an Implementation Plan (IP) or Watershed Restoration Plan (WRP) is then developed. IPs are remedial actions for impaired waters and are based on TMDLs; WRPs may be either remedial or preventative and use other measurable goals for water quality. Both have the same goal of improving water quality within the stream and involve both regulatory and voluntary actions for success.

REFERENCES

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Sullivan, A., M. Beaman, F.J. Kelly, V. Palma and J. Walther, 2004: Impairment verification monitoring in eleven Texas water bodies: Step 1 for the development of successful and cost effective TMDLs. In: Proceedings of the Water Environment Federation 77th Annual Conference, October 2-6, 2004, New Orleans, LA.

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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

(based on data from 03/01/1996 to 02/28/2001)

Mid Cibolo Creek

Segment: 1913 San Antonio River Basin

Basin number: 19
Basin group: E
Water body description: From a point 100 meters (110 yards) downstream of IH 10 in Bexar/Guadalupe County to the Missouri-Pacific Railroad bridge west of Bracken in Comal County
Water body classification: Classified
Water body type: Freshwater Stream
Water body length / area: 19 Miles
Water body uses: Aquatic Life Use, Contact Recreation Use, General Use, Fish Consumption Use

Standards Not Met in Previous Years **Assessment Area**	**Use**	**Support Status or Concern**	**Parameter**	**Category**
From approx. 0.10 mi. upstrm of Buffalo Trail in Cibolo to upper end of seg	Aquatic Life Use	Partially Supporting	depressed dissolved oxygen	5a

Additional Information: The contact recreation 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.

2002 Concerns: **Assessment Area**	**Use or Concern**	**Concern Status**	**Description of Concern**
From Bexar CR 320 to approx. 0.10 miles upstream of Buffalo Trail in Cibolo	Nutrient Enrichment Concern	Concern	total phosphorus
From approx. 0.10 mi. upstrm of Buffalo Trail in Cibolo to upper end of seg	Aquatic Life Use	Use Concern	depressed dissolved oxygen
From approx. 0.10 mi. upstrm of Buffalo Trail in Cibolo to upper end of seg	Nutrient Enrichment Concern	Concern	ammonia
Lower 7 miles of segment from IH 10 to Bexar CR 320	Nutrient Enrichment Concern	Concern	nitrate+nitrite nitrogen

(based on data from 03/01/1996 to 02/28/2001)

2002 Concerns:

Assessment Area	Use or Concern	Concern Status	Description of Concern
Lower 7 miles of segment from IH 10 to Bexar CR 320	Nutrient Enrichment Concern	Concern	orthophosphorus
Lower 7 miles of segment from IH 10 to Bexar CR 320	Nutrient Enrichment Concern	Concern	total phosphorus

Monitoring sites used:

Assessment Area	Station ID	Station Description
From Bexar CR 320 to approx. 0.10 miles upstream of Buffalo Trail in Cibolo	15312	CIBOLO CREEK 200M DWNSTRM FROM CIBOLO CREEK MUN. AUTHORITY'S WWTP (PERMIT# 0011269-001) APPROX. 1.2KM DWNSTRM FROM FM78, E. OF SCHERTZ
From approx. 0.10 mi. upstrm of Buffalo Trail in Cibolo to upper end of seg	14212	CIBOLO CREEK UPSTREAM CIBOLO CREEK MUNICIPAL AUTHORITY'S WWTP (PERMIT# 0011269-001) OFF RIVER ROAD
Lower 7 miles of segment from IH 10 to Bexar CR 320	12921	CIBOLO CREEK AT WEIR RD, 3 MI UPSTREAM FROM IH 10

Published studies:

Publication	Date	Author
IMS 38 Mid Cibolo Creek	July 1974	Tomme, M.
IS 39 Mid Cibolo Creek	April 1980	Buzan, D.

Segment ID: 1913 **Water body name:** Mid Cibolo Creek

Freshwater Stream | San Antonio River Basin | Total size: 19 Miles

Assessment Year	Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
Aquatic Life Use							
2002	Dissolved Oxygen grab average	No Concern	From Bexar CR 320 to approx. 0.10 miles upstream of Buffalo Trail in Cibolo	1	10	0	
2002	Dissolved Oxygen grab average	Use Concern	From approx. 0.10 mi. upstrm of Buffalo Trail in Cibolo to upper end of seg	11	22	4	
2002	Dissolved Oxygen grab average	No Concern	Lower 7 miles of segment from IH 10 to Bexar CR 320	7	32	0	
2002	Dissolved Oxygen grab minimum	Fully Supporting	From Bexar CR 320 to approx. 0.10 miles upstream of Buffalo Trail in Cibolo	1	10	0	
2002	Dissolved Oxygen grab minimum	Fully Supporting	From approx. 0.10 mi. upstrm of Buffalo Trail in Cibolo to upper end of seg	11	22	2	
2002	Dissolved Oxygen grab minimum	Fully Supporting	Lower 7 miles of segment from IH 10 to Bexar CR 320	7	32	0	
2002	Dissolved Oxygen 24hr average	Not Assessed	From Bexar CR 320 to approx. 0.10 miles upstream of Buffalo Trail in Cibolo	1	0		
2002	Dissolved Oxygen 24hr average	Not Assessed	From approx. 0.10 mi. upstrm of Buffalo Trail in Cibolo to upper end of seg	11	0		
2002	Dissolved Oxygen 24hr average	Not Assessed	Lower 7 miles of segment from IH 10 to Bexar CR 320	7	0		
2002	Dissolved Oxygen 24hr minimum	Not Assessed	From Bexar CR 320 to approx. 0.10 miles upstream of Buffalo Trail in Cibolo	1	0		
2002	Dissolved Oxygen 24hr minimum	Not Assessed	From approx. 0.10 mi. upstrm of Buffalo Trail in Cibolo to upper end of seg	11	0		
2002	Dissolved Oxygen 24hr minimum	Not Assessed	Lower 7 miles of segment from IH 10 to Bexar CR 320	7	0		
2002	Acute Metals in water	Not Assessed	From approx. 0.10 mi. upstrm of Buffalo Trail in Cibolo to upper end of seg	11	2		
2002	Acute Metals in water	Not Assessed	Lower 7 miles of segment from IH 10 to Bexar CR 320	7	1		
2002	Chronic Metals in water	Not Assessed	From approx. 0.10 mi. upstrm of Buffalo Trail in Cibolo to upper end of seg	11	2		
2002	Chronic Metals in water	Not Assessed	Lower 7 miles of segment from IH 10 to Bexar CR 320	7	1		

Segment ID: 1913 **Water body name:** Mid Cibolo Creek

Freshwater Stream | San Antonio River Basin | Total size: 19 Miles

Assessment Year	Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
Aquatic Life Use (continued)							
2002	Overall Aquatic Life Use	Fully Supporting	From Bexar CR 320 to approx. 0.10 miles upstream of Buffalo Trail in Cibolo	1			
2002	Overall Aquatic Life Use	Fully Supporting	From approx. 0.10 mi. upstrm of Buffalo Trail in Cibolo to upper end of seg	11			
2002	Overall Aquatic Life Use	Fully Supporting	Lower 7 miles of segment from IH 10 to Bexar CR 320	7			
Contact Recreation Use							
2002	E. coli single sample	Not Assessed	From Bexar CR 320 to approx. 0.10 miles upstream of Buffalo Trail in Cibolo	1	0		
2002	E. coli single sample	Not Assessed	From approx. 0.10 mi. upstrm of Buffalo Trail in Cibolo to upper end of seg	11	2	0	
2002	E. coli single sample	No Concern-Limited Data	Lower 7 miles of segment from IH 10 to Bexar CR 320	7	9	0	
2002	E. coli geometric mean	Not Assessed	From Bexar CR 320 to approx. 0.10 miles upstream of Buffalo Trail in Cibolo	1	0		
2002	E. coli geometric mean	Not Assessed	From approx. 0.10 mi. upstrm of Buffalo Trail in Cibolo to upper end of seg	11	2		72
2002	E. coli geometric mean	No Concern-Limited Data	Lower 7 miles of segment from IH 10 to Bexar CR 320	7	9		70
2002	Fecal coliform single sample	No Concern-Limited Data	From Bexar CR 320 to approx. 0.10 miles upstream of Buffalo Trail in Cibolo	1	9	1	
2002	Fecal coliform single sample	Fully Supporting	From approx. 0.10 mi. upstrm of Buffalo Trail in Cibolo to upper end of seg	11	16	2	
2002	Fecal coliform single sample	Fully Supporting	Lower 7 miles of segment from IH 10 to Bexar CR 320	7	29	0	
2002	Fecal coliform geometric mean	No Concern-Limited Data	From Bexar CR 320 to approx. 0.10 miles upstream of Buffalo Trail in Cibolo	1	9		115
2002	Fecal coliform geometric mean	Fully Supporting	From approx. 0.10 mi. upstrm of Buffalo Trail in Cibolo to upper end of seg	11	16		146

Segment ID: 1913 **Water body name:** Mid Cibolo Creek

Freshwater Stream | San Antonio River Basin | Total size: 19 Miles

Assessment Year	Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
Contact Recreation Use (continued)							
2002	Fecal coliform geometric mean	Fully Supporting	Lower 7 miles of segment from IH 10 to Bexar CR 320	7	29		75
2002	Overall Recreation Use	Not Assessed	From Bexar CR 320 to approx. 0.10 miles upstream of Buffalo Trail in Cibolo	1			
2002	Overall Recreation Use	Fully Supporting	From approx. 0.10 mi. upstrm of Buffalo Trail in Cibolo to upper end of seg	11			
2002	Overall Recreation Use	Fully Supporting	Lower 7 miles of segment from IH 10 to Bexar CR 320	7			
General Use							
2002	Water Temperature	Fully Supporting	From Bexar CR 320 to approx. 0.10 miles upstream of Buffalo Trail in Cibolo	1	10	0	
2002	Water Temperature	Fully Supporting	From approx. 0.10 mi. upstrm of Buffalo Trail in Cibolo to upper end of seg	11	23	0	
2002	Water Temperature	Fully Supporting	Lower 7 miles of segment from IH 10 to Bexar CR 320	7	32	0	
2002	pH	No Concern-Limited Data	From Bexar CR 320 to approx. 0.10 miles upstream of Buffalo Trail in Cibolo	1	6	0	
2002	pH	Fully Supporting	From approx. 0.10 mi. upstrm of Buffalo Trail in Cibolo to upper end of seg	11	17	0	
2002	pH	Fully Supporting	Lower 7 miles of segment from IH 10 to Bexar CR 320	7	30	0	
2002	Chloride	Fully Supporting	From Bexar CR 320 to approx. 0.10 miles upstream of Buffalo Trail in Cibolo	1	56		71.5
2002	Chloride	Fully Supporting	From approx. 0.10 mi. upstrm of Buffalo Trail in Cibolo to upper end of seg	11	56		71.5
2002	Chloride	Fully Supporting	Lower 7 miles of segment from IH 10 to Bexar CR 320	7	56		71.5
2002	Sulfate	Fully Supporting	From Bexar CR 320 to approx. 0.10 miles upstream of Buffalo Trail in Cibolo	1	56		50.5
2002	Sulfate	Fully Supporting	From approx. 0.10 mi. upstrm of Buffalo Trail in Cibolo to upper end of seg	11	56		50.5

Segment ID: 1913 **Water body name:** Mid Cibolo Creek

Freshwater Stream | San Antonio River Basin | Total size: 19 Miles

Assessment Year	Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
General Use (continued)							
2002	Sulfate	Fully Supporting	Lower 7 miles of segment from IH 10 to Bexar CR 320	7	56		50.5
2002	Total Dissolved Solids	Fully Supporting	From Bexar CR 320 to approx. 0.10 miles upstream of Buffalo Trail in Cibolo	1	66		505.4
2002	Total Dissolved Solids	Fully Supporting	From approx. 0.10 mi. upstrm of Buffalo Trail in Cibolo to upper end of seg	11	66		505.4
2002	Total Dissolved Solids	Fully Supporting	Lower 7 miles of segment from IH 10 to Bexar CR 320	7	66		505.4
2002	Overall General Use	Fully Supporting	From Bexar CR 320 to approx. 0.10 miles upstream of Buffalo Trail in Cibolo	1			
2002	Overall General Use	Fully Supporting	From approx. 0.10 mi. upstrm of Buffalo Trail in Cibolo to upper end of seg	11			
2002	Overall General Use	Fully Supporting	Lower 7 miles of segment from IH 10 to Bexar CR 320	7			
Fish Consumption Use							
2002	Human Health Criteria Metals	Not Assessed	From approx. 0.10 mi. upstrm of Buffalo Trail in Cibolo to upper end of seg	11	2		
2002	Human Health Criteria Metals	Not Assessed	Lower 7 miles of segment from IH 10 to Bexar CR 320	7	1		
2002	Overall Fish Consumption Use	Not Assessed	From Bexar CR 320 to approx. 0.10 miles upstream of Buffalo Trail in Cibolo	1			
2002	Overall Fish Consumption Use	Not Assessed	From approx. 0.10 mi. upstrm of Buffalo Trail in Cibolo to upper end of seg	11			
2002	Overall Fish Consumption Use	Not Assessed	Lower 7 miles of segment from IH 10 to Bexar CR 320	7			
Overall Use Support							
2002		Fully Supporting	From Bexar CR 320 to approx. 0.10 miles upstream of Buffalo Trail in Cibolo	1			
2002		Fully Supporting	From approx. 0.10 mi. upstrm of Buffalo Trail in Cibolo to upper end of seg	11			
2002		Fully Supporting	Lower 7 miles of segment from IH 10 to Bexar CR 320	7			

Segment ID: 1913 **Water body name:** Mid Cibolo Creek

Freshwater Stream | San Antonio River Basin | Total size: 19 Miles

Assessment Year	Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
Nutrient Enrichment Concern							
2002	Ammonia Nitrogen	Not Assessed	From Bexar CR 320 to approx. 0.10 miles upstream of Buffalo Trail in Cibolo	1	9	9	
2002	Ammonia Nitrogen	Concern	From approx. 0.10 mi. upstrm of Buffalo Trail in Cibolo to upper end of seg	11	14	4	
2002	Ammonia Nitrogen	No Concern	Lower 7 miles of segment from IH 10 to Bexar CR 320	7	30	3	
2002	Nitrite + Nitrate Nitrogen	Not Assessed	From Bexar CR 320 to approx. 0.10 miles upstream of Buffalo Trail in Cibolo	1	9	9	
2002	Nitrite + Nitrate Nitrogen	No Concern	From approx. 0.10 mi. upstrm of Buffalo Trail in Cibolo to upper end of seg	11	15	0	
2002	Nitrite + Nitrate Nitrogen	Concern	Lower 7 miles of segment from IH 10 to Bexar CR 320	7	30	25	
2002	Orthophosphorus	Not Assessed	From Bexar CR 320 to approx. 0.10 miles upstream of Buffalo Trail in Cibolo	1	8	8	
2002	Orthophosphorus	No Concern	From approx. 0.10 mi. upstrm of Buffalo Trail in Cibolo to upper end of seg	11	13	0	
2002	Orthophosphorus	Concern	Lower 7 miles of segment from IH 10 to Bexar CR 320	7	25	19	
2002	Total Phosphorus	Concern	From Bexar CR 320 to approx. 0.10 miles upstream of Buffalo Trail in Cibolo	1	10	10	
2002	Total Phosphorus	No Concern	From approx. 0.10 mi. upstrm of Buffalo Trail in Cibolo to upper end of seg	11	16	1	
2002	Total Phosphorus	Concern	Lower 7 miles of segment from IH 10 to Bexar CR 320	7	29	17	
2002	Overall Nutrient Enrichment Concerns	Concern	From Bexar CR 320 to approx. 0.10 miles upstream of Buffalo Trail in Cibolo	1			
2002	Overall Nutrient Enrichment Concerns	Concern	From approx. 0.10 mi. upstrm of Buffalo Trail in Cibolo to upper end of seg	11			
2002	Overall Nutrient Enrichment Concerns	Concern	Lower 7 miles of segment from IH 10 to Bexar CR 320	7			

Segment ID: 1913 **Water body name:** Mid Cibolo Creek

Freshwater Stream | San Antonio River Basin | Total size: 19 Miles

Assessment Year	Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
Algal Growth Concern							
2002	Chlorophyll a	Not Assessed	From Bexar CR 320 to approx. 0.10 miles upstream of Buffalo Trail in Cibolo	1	5	0	
2002	Chlorophyll a	Not Assessed	From approx. 0.10 mi. upstrm of Buffalo Trail in Cibolo to upper end of seg	11	5	0	
2002	Chlorophyll a	No Concern	Lower 7 miles of segment from IH 10 to Bexar CR 320	7	19	0	
Sediment Contaminants Concern							
2002	Overall Sediment Contaminant Concerns	Not Assessed	From Bexar CR 320 to approx. 0.10 miles upstream of Buffalo Trail in Cibolo	1			
2002	Overall Sediment Contaminant Concerns	Not Assessed	From approx. 0.10 mi. upstrm of Buffalo Trail in Cibolo to upper end of seg	11			
2002	Overall Sediment Contaminant Concerns	Not Assessed	Lower 7 miles of segment from IH 10 to Bexar CR 320	7			
Fish Tissue Contaminants Concern							
2002	Overall Fish Tissue Contaminant Concerns	Not Assessed	From Bexar CR 320 to approx. 0.10 miles upstream of Buffalo Trail in Cibolo	1			
2002	Overall Fish Tissue Contaminant Concerns	Not Assessed	From approx. 0.10 mi. upstrm of Buffalo Trail in Cibolo to upper end of seg	11			
2002	Overall Fish Tissue Contaminant Concerns	Not Assessed	Lower 7 miles of segment from IH 10 to Bexar CR 320	7			
Narrative Criteria Concern							
2002	Overall Narrative Criteria Concerns	No Concern	From Bexar CR 320 to approx. 0.10 miles upstream of Buffalo Trail in Cibolo	1			
2002	Overall Narrative Criteria Concerns	No Concern	From approx. 0.10 mi. upstrm of Buffalo Trail in Cibolo to upper end of seg	11			
2002	Overall Narrative Criteria Concerns	No Concern	Lower 7 miles of segment from IH 10 to Bexar CR 320	7			

Segment ID: 1913 **Water body name:** Mid Cibolo Creek

Freshwater Stream | San Antonio River Basin | Total size: 19 Miles

Assessment Year	Assessment Method	Status of Use Support or Concern	Location	Location size	# of samples	# of exceedances	Mean
Overall Secondary Concern							
2002		Concern	From Bexar CR 320 to approx. 0.10 miles upstream of Buffalo Trail in Cibolo	1			
2002		Concern	From approx. 0.10 mi. upstrm of Buffalo Trail in Cibolo to upper end of seg	11			
2002		Concern	Lower 7 miles of segment from IH 10 to Bexar CR 320	7			

Appendix B
Raw Data

Stationid	Enddate	STORETCODE	DESCRIPTION	GTLT	VALUE	Segment
12924	8/4/2004	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		31.52	1913
12924	7/7/2004	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		28.06	1913
12924	10/11/2002	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		22.52	1913
12921	10/15/2003	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		21.87	1913
12921	10/11/2002	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		22.45	1913
12921	4/17/2003	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		23.67	1913
12927	10/11/2002	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		23.2	1913
12924	7/23/2003	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		28.86	1913
12921	7/23/2003	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		29.49	1913
12927	8/13/2003	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		23.99	1913
12921	12/11/2002	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		13.77	1913
12921	7/7/2004	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		28.88	1913
12921	8/28/2002	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		28.45	1913
12924	12/11/2002	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		14.77	1913
12927	7/23/2003	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		25.48	1913
12921	5/21/2003	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		25.57	1913
12927	12/11/2002	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		15.24	1913
12927	1/30/2003	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		18.16	1913
12927	5/21/2003	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		22.53	1913
12924	1/30/2003	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		16.07	1913
12924	5/21/2003	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		23.83	1913
12921	1/30/2003	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		15.53	1913
12927	2/6/2003	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		14.29	1913
12927	4/17/2003	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		22.45	1913
12924	4/17/2003	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		22.73	1913
12927	8/4/2004	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		25.73	1913
12921	2/6/2003	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		15.19	1913
12921	8/13/2003	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		27.41	1913
12921	5/18/2004	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		25.31	1913
12927	4/15/2004	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		19.4	1913
12927	8/7/2002	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		25.3	1913
12924	5/18/2004	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		25.37	1913
12924	4/15/2004	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		18.37	1913
12921	8/7/2002	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		29.39	1913
12924	8/7/2002	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		31.39	1913
12927	3/6/2003	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		17.4	1913
12924	3/6/2003	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		15.75	1913
12927	7/7/2004	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		25.78	1913
12927	8/28/2002	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		24.85	1913
12927	10/15/2003	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		21.17	1913
12927	5/18/2004	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		23.41	1913
12921	8/4/2004	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		30.89	1913
12921	3/6/2003	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		14.93	1913
12924	8/28/2002	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		28.61	1913
12924	10/15/2003	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		20.83	1913
12921	4/15/2004	00010	TEMPERATURE, WATER (DEGREES CENTIGRADE)		18.98	1913
12927	7/7/2004	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)		2.676	1913
12924	5/21/2003	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)		11.162	1913
12921	5/18/2004	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)		14.242	1913
12921	4/17/2003	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)		15.56	1913
12927	4/17/2003	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)		5.23	1913
12924	4/17/2003	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)		12.6	1913
12924	5/18/2004	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)		10.585	1913
12927	5/18/2004	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)		6.462	1913
12924	8/13/2003	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)		8.24	1913
12924	10/15/2003	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)		10.22	1913
12927	7/23/2003	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)		2.88	1913
12921	2/6/2003	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)		28.72	1913
12927	10/15/2003	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)		5.018	1913
12921	7/23/2003	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)		10.68	1913
12927	4/15/2004	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)		3.872	1913
12921	4/15/2004	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)		8.4285	1913
12927	5/21/2003	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)		4.3	1913
12921	8/13/2003	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)		14.136	1913
12924	4/15/2004	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)		9.236	1913

12921	10/15/2003	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)		11.163	1913
12921	5/21/2003	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)		17.025	1913
12924	7/23/2003	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)		2.46	1913
12921	7/7/2004	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)		20.717	1913
12927	8/13/2003	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)		2.6	1913
12921	12/11/2002	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)		43.66	1913
12927	8/28/2002	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)		4.85	1913
12921	8/4/2004	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)		7.785	1913
12924	8/28/2002	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)		8.66	1913
12921	8/28/2002	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)		14.63	1913
12927	8/7/2002	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)		3.73	1913
12924	8/7/2002	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)		2.8	1913
12921	10/11/2002	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)		25.462	1913
12927	10/11/2002	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)		10.286	1913
12921	8/7/2002	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)		9.6	1913
12927	3/6/2003	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)		9.45	1913
12924	8/4/2004	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)		9.28	1913
12927	12/11/2002	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)		20.12	1913
12924	3/6/2003	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)		19.88	1913
12927	2/6/2003	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)		6.95	1913
12921	3/6/2003	00061	FLOW STREAM, INSTANTANEOUS (CUBIC FEET PER SEC)		25.56	1913
12924	8/13/2003	00078	TRANSPARENCY, SECCHI DISC (METERS)		0.75	1913
12927	10/11/2002	00078	TRANSPARENCY, SECCHI DISC (METERS)		0.25	1913
12924	4/17/2003	00078	TRANSPARENCY, SECCHI DISC (METERS)		0.7	1913
12924	7/23/2003	00078	TRANSPARENCY, SECCHI DISC (METERS)		0.33	1913
12927	8/4/2004	00078	TRANSPARENCY, SECCHI DISC (METERS)	<	1	1913
12927	4/15/2004	00078	TRANSPARENCY, SECCHI DISC (METERS)	<	0.5	1913
12927	7/23/2003	00078	TRANSPARENCY, SECCHI DISC (METERS)		1.1	1913
12921	7/23/2003	00078	TRANSPARENCY, SECCHI DISC (METERS)		0.33	1913
12924	7/7/2004	00078	TRANSPARENCY, SECCHI DISC (METERS)	>	1	1913
12927	2/6/2003	00078	TRANSPARENCY, SECCHI DISC (METERS)	>	1	1913
12921	10/15/2003	00078	TRANSPARENCY, SECCHI DISC (METERS)		0.25	1913
12924	4/15/2004	00078	TRANSPARENCY, SECCHI DISC (METERS)	<	0.5	1913
12924	2/6/2003	00078	TRANSPARENCY, SECCHI DISC (METERS)	>	1	1913
12924	10/15/2003	00078	TRANSPARENCY, SECCHI DISC (METERS)		0.25	1913
12921	2/6/2003	00078	TRANSPARENCY, SECCHI DISC (METERS)	>	1	1913
12927	5/18/2004	00078	TRANSPARENCY, SECCHI DISC (METERS)	>	1	1913
12927	8/7/2002	00078	TRANSPARENCY, SECCHI DISC (METERS)		0.66	1913
12927	10/15/2003	00078	TRANSPARENCY, SECCHI DISC (METERS)		0.25	1913
12921	8/4/2004	00078	TRANSPARENCY, SECCHI DISC (METERS)	<	1	1913
12927	4/17/2003	00078	TRANSPARENCY, SECCHI DISC (METERS)	>	1	1913
12921	5/18/2004	00078	TRANSPARENCY, SECCHI DISC (METERS)		1	1913
12924	5/21/2003	00078	TRANSPARENCY, SECCHI DISC (METERS)		1	1913
12924	1/30/2003	00078	TRANSPARENCY, SECCHI DISC (METERS)		0.45	1913
12924	5/18/2004	00078	TRANSPARENCY, SECCHI DISC (METERS)	<	1	1913
12927	5/21/2003	00078	TRANSPARENCY, SECCHI DISC (METERS)	>	1	1913
12927	1/30/2003	00078	TRANSPARENCY, SECCHI DISC (METERS)	>	1	1913
12921	1/30/2003	00078	TRANSPARENCY, SECCHI DISC (METERS)		0.3	1913
12927	12/11/2002	00078	TRANSPARENCY, SECCHI DISC (METERS)		0.2	1913
12927	7/7/2004	00078	TRANSPARENCY, SECCHI DISC (METERS)	>	1	1913
12921	7/7/2004	00078	TRANSPARENCY, SECCHI DISC (METERS)	>	1	1913
12921	8/7/2002	00078	TRANSPARENCY, SECCHI DISC (METERS)		0.51	1913
12921	10/11/2002	00078	TRANSPARENCY, SECCHI DISC (METERS)		0.25	1913
12927	8/13/2003	00078	TRANSPARENCY, SECCHI DISC (METERS)		1.2	1913
12921	12/11/2002	00078	TRANSPARENCY, SECCHI DISC (METERS)		0.25	1913
12921	4/15/2004	00078	TRANSPARENCY, SECCHI DISC (METERS)	<	0.5	1913
12921	4/17/2003	00078	TRANSPARENCY, SECCHI DISC (METERS)		0.68	1913
12924	12/11/2002	00078	TRANSPARENCY, SECCHI DISC (METERS)		0.2	1913
12921	8/13/2003	00078	TRANSPARENCY, SECCHI DISC (METERS)		0.15	1913
12924	8/4/2004	00078	TRANSPARENCY, SECCHI DISC (METERS)	<	1	1913
12927	5/18/2004	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		585	1913
12921	5/18/2004	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		586	1913
12921	3/6/2003	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		750	1913
12921	8/7/2002	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		488	1913
12927	3/6/2003	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		700	1913
12927	4/15/2004	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		604	1913

12924	3/6/2003	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		851	1913
12924	4/15/2004	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		806	1913
12927	10/11/2002	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		542	1913
12921	2/6/2003	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		837	1913
12924	4/17/2003	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		890	1913
12927	2/6/2003	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		308	1913
12921	1/30/2003	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		1161	1913
12924	1/30/2003	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		1170	1913
12924	5/21/2003	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		639	1913
12927	1/30/2003	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		975	1913
12927	5/21/2003	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		776	1913
12921	5/21/2003	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		561	1913
12924	12/11/2002	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		586	1913
12927	7/23/2003	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		750	1913
12927	8/13/2003	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		716	1913
12921	4/15/2004	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		722	1913
12921	7/23/2003	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		784	1913
12921	10/11/2002	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		412	1913
12921	4/17/2003	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		832	1913
12924	10/11/2002	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		491	1913
12921	10/15/2003	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		556	1913
12924	8/28/2002	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		914	1913
12924	10/15/2003	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		727	1913
12927	8/28/2002	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		765	1913
12927	10/15/2003	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		608	1913
12927	8/7/2002	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		758	1913
12921	8/13/2003	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		798	1913
12924	7/7/2004	00094	SPECIFIC CONDUCTANCE,FIELD (UMHOS/CM @ 25C)		718	1913
12921	3/6/2003	00300	OXYGEN, DISSOLVED (MG/L)		7.67	1913
12921	2/6/2003	00300	OXYGEN, DISSOLVED (MG/L)		6.66	1913
12921	5/21/2003	00300	OXYGEN, DISSOLVED (MG/L)		6.41	1913
12921	8/7/2002	00300	OXYGEN, DISSOLVED (MG/L)		7.11	1913
12924	12/11/2002	00300	OXYGEN, DISSOLVED (MG/L)		7.81	1913
12927	4/15/2004	00300	OXYGEN, DISSOLVED (MG/L)		6.66	1913
12927	12/11/2002	00300	OXYGEN, DISSOLVED (MG/L)		7.51	1913
12927	1/30/2003	00300	OXYGEN, DISSOLVED (MG/L)		9.35	1913
12921	12/11/2002	00300	OXYGEN, DISSOLVED (MG/L)		7.15	1913
12924	7/23/2003	00300	OXYGEN, DISSOLVED (MG/L)		5.15	1913
12921	1/30/2003	00300	OXYGEN, DISSOLVED (MG/L)		9.63	1913
12921	5/18/2004	00300	OXYGEN, DISSOLVED (MG/L)		3.01	1913
12927	2/6/2003	00300	OXYGEN, DISSOLVED (MG/L)		10.08	1913
12927	7/7/2004	00300	OXYGEN, DISSOLVED (MG/L)		6.09	1913
12921	7/23/2003	00300	OXYGEN, DISSOLVED (MG/L)		4.55	1913
12927	8/4/2004	00300	OXYGEN, DISSOLVED (MG/L)		6.77	1913
12927	5/21/2003	00300	OXYGEN, DISSOLVED (MG/L)		6.69	1913
12924	1/30/2003	00300	OXYGEN, DISSOLVED (MG/L)		9.66	1913
12921	4/17/2003	00300	OXYGEN, DISSOLVED (MG/L)		6.23	1913
12921	8/28/2002	00300	OXYGEN, DISSOLVED (MG/L)		5.46	1913
12924	8/28/2002	00300	OXYGEN, DISSOLVED (MG/L)		4.21	1913
12921	8/4/2004	00300	OXYGEN, DISSOLVED (MG/L)		7.07	1913
12927	4/17/2003	00300	OXYGEN, DISSOLVED (MG/L)		5.22	1913
12927	10/15/2003	00300	OXYGEN, DISSOLVED (MG/L)		4.93	1913
12924	10/11/2002	00300	OXYGEN, DISSOLVED (MG/L)		5.36	1913
12921	4/15/2004	00300	OXYGEN, DISSOLVED (MG/L)		3.62	1913
12924	8/4/2004	00300	OXYGEN, DISSOLVED (MG/L)		9.5	1913
12921	10/11/2002	00300	OXYGEN, DISSOLVED (MG/L)		5.73	1913
12927	7/23/2003	00300	OXYGEN, DISSOLVED (MG/L)		5.99	1913
12924	10/15/2003	00300	OXYGEN, DISSOLVED (MG/L)		4.13	1913
12924	8/7/2002	00300	OXYGEN, DISSOLVED (MG/L)		10.8	1913
12927	10/11/2002	00300	OXYGEN, DISSOLVED (MG/L)		5.58	1913
12924	4/15/2004	00300	OXYGEN, DISSOLVED (MG/L)		3.76	1913
12921	7/7/2004	00300	OXYGEN, DISSOLVED (MG/L)		6.25	1913
12924	7/7/2004	00300	OXYGEN, DISSOLVED (MG/L)		8.8	1913
12921	10/15/2003	00300	OXYGEN, DISSOLVED (MG/L)		4.11	1913
12927	8/7/2002	00300	OXYGEN, DISSOLVED (MG/L)		6.36	1913
12924	4/17/2003	00300	OXYGEN, DISSOLVED (MG/L)		3.93	1913

12927	5/18/2004	00300	OXYGEN, DISSOLVED (MG/L)		4.56	1913
12924	5/18/2004	00300	OXYGEN, DISSOLVED (MG/L)		3.15	1913
12921	8/13/2003	00300	OXYGEN, DISSOLVED (MG/L)		5.4	1913
12927	3/6/2003	00300	OXYGEN, DISSOLVED (MG/L)		9.73	1913
12924	5/21/2003	00300	OXYGEN, DISSOLVED (MG/L)		4.68	1913
12924	3/6/2003	00300	OXYGEN, DISSOLVED (MG/L)		8.81	1913
12924	8/7/2002	00307	BIOCHEM OXY DEM,INHIB, DISS(MG/L,5DAY-20C, CBOD)	<	2	1913
12921	8/28/2002	00307	BIOCHEM OXY DEM,INHIB, DISS(MG/L,5DAY-20C, CBOD)	<	2	1913
12927	8/7/2002	00307	BIOCHEM OXY DEM,INHIB, DISS(MG/L,5DAY-20C, CBOD)	<	2	1913
12924	10/15/2003	00307	BIOCHEM OXY DEM,INHIB, DISS(MG/L,5DAY-20C, CBOD)	<	2	1913
12927	8/28/2002	00307	BIOCHEM OXY DEM,INHIB, DISS(MG/L,5DAY-20C, CBOD)	<	2	1913
12927	10/15/2003	00307	BIOCHEM OXY DEM,INHIB, DISS(MG/L,5DAY-20C, CBOD)	<	2	1913
12921	10/15/2003	00307	BIOCHEM OXY DEM,INHIB, DISS(MG/L,5DAY-20C, CBOD)	<	2	1913
12924	8/28/2002	00307	BIOCHEM OXY DEM,INHIB, DISS(MG/L,5DAY-20C, CBOD)	<	2	1913
12921	8/7/2002	00307	BIOCHEM OXY DEM,INHIB, DISS(MG/L,5DAY-20C, CBOD)	<	2	1913
12921	12/11/2002	00400	PH (STANDARD UNITS)		7.43	1913
12921	8/7/2002	00400	PH (STANDARD UNITS)		7.45	1913
12924	8/4/2004	00400	PH (STANDARD UNITS)		7.75	1913
12921	5/21/2003	00400	PH (STANDARD UNITS)		8.05	1913
12927	12/11/2002	00400	PH (STANDARD UNITS)		7.23	1913
12927	1/30/2003	00400	PH (STANDARD UNITS)		7.31	1913
12921	10/15/2003	00400	PH (STANDARD UNITS)		7.34	1913
12924	8/28/2002	00400	PH (STANDARD UNITS)		7.37	1913
12924	8/7/2002	00400	PH (STANDARD UNITS)		7.79	1913
12927	8/7/2002	00400	PH (STANDARD UNITS)		7.69	1913
12921	4/15/2004	00400	PH (STANDARD UNITS)		7.56	1913
12927	3/6/2003	00400	PH (STANDARD UNITS)		7.32	1913
12924	10/11/2002	00400	PH (STANDARD UNITS)		7.3	1913
12921	4/17/2003	00400	PH (STANDARD UNITS)		7.53	1913
12921	10/11/2002	00400	PH (STANDARD UNITS)		7.13	1913
12927	7/23/2003	00400	PH (STANDARD UNITS)		7.16	1913
12924	10/15/2003	00400	PH (STANDARD UNITS)		7.55	1913
12927	8/28/2002	00400	PH (STANDARD UNITS)		7.1	1913
12921	8/4/2004	00400	PH (STANDARD UNITS)		7.63	1913
12927	10/11/2002	00400	PH (STANDARD UNITS)		7.19	1913
12924	4/15/2004	00400	PH (STANDARD UNITS)		7.42	1913
12927	5/18/2004	00400	PH (STANDARD UNITS)		7.14	1913
12927	4/15/2004	00400	PH (STANDARD UNITS)		7.26	1913
12924	7/7/2004	00400	PH (STANDARD UNITS)		7.79	1913
12924	1/30/2003	00400	PH (STANDARD UNITS)		7.57	1913
12924	5/21/2003	00400	PH (STANDARD UNITS)		7.54	1913
12924	7/23/2003	00400	PH (STANDARD UNITS)		7.33	1913
12924	4/17/2003	00400	PH (STANDARD UNITS)		7.43	1913
12921	2/6/2003	00400	PH (STANDARD UNITS)		7.65	1913
12927	5/21/2003	00400	PH (STANDARD UNITS)		7.39	1913
12927	8/13/2003	00400	PH (STANDARD UNITS)		7.04	1913
12927	8/4/2004	00400	PH (STANDARD UNITS)		7.31	1913
12927	2/6/2003	00400	PH (STANDARD UNITS)		7.93	1913
12921	5/18/2004	00400	PH (STANDARD UNITS)		7.44	1913
12921	8/28/2002	00400	PH (STANDARD UNITS)		7.41	1913
12921	8/13/2003	00400	PH (STANDARD UNITS)		7.62	1913
12921	1/30/2003	00400	PH (STANDARD UNITS)		7.7	1913
12924	3/6/2003	00400	PH (STANDARD UNITS)		7.53	1913
12927	4/17/2003	00400	PH (STANDARD UNITS)		7.16	1913
12921	7/23/2003	00400	PH (STANDARD UNITS)		7.5	1913
12921	7/7/2004	00400	PH (STANDARD UNITS)		7.56	1913
12927	7/7/2004	00400	PH (STANDARD UNITS)		7.12	1913
12921	3/6/2003	00400	PH (STANDARD UNITS)		7.49	1913
12924	5/18/2004	00400	PH (STANDARD UNITS)		7.53	1913
12924	10/15/2003	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		216	1913
12924	8/7/2002	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		284	1913
12921	12/11/2002	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		596.46	1913
12927	12/11/2002	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		1216.95	1913
12921	10/15/2003	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		188	1913
12921	7/23/2003	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		211.11	1913
12927	3/6/2003	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		268.15	1913

12927	5/18/2004	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		239	1913
12924	2/6/2003	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		27.39	1913
12921	4/17/2003	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		267.29	1913
12927	10/15/2003	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		248	1913
12921	5/21/2003	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		254.17	1913
12921	4/15/2004	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		256	1913
12927	5/21/2003	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		163.65	1913
12921	8/4/2004	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		248	1913
12924	7/23/2003	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		224.9	1913
12924	3/6/2003	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		250.04	1913
12927	2/6/2003	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		309.19	1913
12924	5/21/2003	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		267.78	1913
12927	8/13/2003	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		304.94	1913
12927	4/15/2004	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		248	1913
12927	7/7/2004	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		266	1913
12924	12/11/2002	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		1213.01	1913
12924	7/7/2004	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		220	1913
12924	10/11/2002	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		177	1913
12927	8/7/2002	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		324	1913
12924	4/17/2003	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		264.01	1913
12921	10/11/2002	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		162	1913
12924	8/28/2002	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		300	1913
12921	8/28/2002	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		316	1913
12924	8/13/2003	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		223.05	1913
12927	7/23/2003	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		283.07	1913
12921	7/7/2004	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		220	1913
12927	10/11/2002	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		189	1913
12927	4/17/2003	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		311.27	1913
12924	4/15/2004	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		172	1913
12921	3/6/2003	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		244.24	1913
12921	8/7/2002	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		276	1913
12924	5/18/2004	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		207	1913
12921	5/18/2004	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		184	1913
12927	8/28/2002	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		352	1913
12924	8/4/2004	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		262	1913
12927	8/4/2004	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		290	1913
12921	8/13/2003	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		244.22	1913
12921	2/6/2003	00410	ALKALINITY, TOTAL (MG/L AS CACO3)		286.81	1913
12921	10/15/2003	00530	TOTAL SUSPENDED SOLIDS (MG/l)		46	1913
12924	8/4/2004	00530	TOTAL SUSPENDED SOLIDS (MG/l)		24	1913
12927	10/15/2003	00530	TOTAL SUSPENDED SOLIDS (MG/l)		6	1913
12924	5/18/2004	00530	TOTAL SUSPENDED SOLIDS (MG/l)		26	1913
12924	7/7/2004	00530	TOTAL SUSPENDED SOLIDS (MG/l)		81	1913
12921	5/18/2004	00530	TOTAL SUSPENDED SOLIDS (MG/l)		22	1913
12927	4/15/2004	00530	TOTAL SUSPENDED SOLIDS (MG/l)		9	1913
12927	8/4/2004	00530	TOTAL SUSPENDED SOLIDS (MG/l)		9	1913
12924	10/15/2003	00530	TOTAL SUSPENDED SOLIDS (MG/l)		33	1913
12924	4/15/2004	00530	TOTAL SUSPENDED SOLIDS (MG/l)		46	1913
12921	8/4/2004	00530	TOTAL SUSPENDED SOLIDS (MG/l)		8	1913
12927	5/18/2004	00530	TOTAL SUSPENDED SOLIDS (MG/l)		6	1913
12921	7/7/2004	00530	TOTAL SUSPENDED SOLIDS (MG/l)		44	1913
12927	7/7/2004	00530	TOTAL SUSPENDED SOLIDS (MG/l)		24	1913
12921	4/15/2004	00530	TOTAL SUSPENDED SOLIDS (MG/l)		41	1913
12924	12/11/2002	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)		0.9	1913
12924	7/23/2003	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	<	1	1913
12927	3/6/2003	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)		1.36	1913
12924	10/15/2003	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	<	1	1913
12924	3/6/2003	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	<	1	1913
12921	3/6/2003	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	<	1	1913
12927	8/4/2004	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	<	0.03	1913
12921	5/21/2003	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	<	1	1913
12921	7/23/2003	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	<	1	1913
12921	10/15/2003	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	<	1	1913
12927	7/23/2003	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	<	1	1913
12921	8/13/2003	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	<	1	1913
12924	8/13/2003	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	<	1	1913

12924	8/4/2004	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	<	0.03	1913
12927	8/13/2003	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	<	1	1913
12921	12/11/2002	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)		0.47	1913
12924	5/21/2003	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	<	1	1913
12921	8/28/2002	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)		0.11	1913
12927	10/11/2002	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)		0.087	1913
12924	7/7/2004	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	<	0.03	1913
12924	4/15/2004	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)		2.14	1913
12927	7/7/2004	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	<	0.03	1913
12924	2/6/2003	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)		1.59	1913
12921	8/7/2002	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	<	0.1	1913
12921	10/11/2002	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)		0.212	1913
12921	4/17/2003	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	<	1	1913
12921	7/7/2004	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	<	0.03	1913
12927	2/6/2003	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)		0.37	1913
12924	1/30/2003	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)		1.14	1913
12927	8/7/2002	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	<	0.1	1913
12921	4/15/2004	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)		0.86	1913
12921	8/4/2004	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	<	0.03	1913
12924	8/7/2002	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)		0.29	1913
12924	5/18/2004	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)		1.28	1913
12921	1/30/2003	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)		0.45	1913
12924	4/17/2003	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	<	1	1913
12927	1/30/2003	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)		0.21	1913
12927	5/21/2003	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	<	1	1913
12924	10/11/2002	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)		0.425	1913
12927	12/11/2002	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)		0.35	1913
12924	8/28/2002	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	<	0.1	1913
12927	4/15/2004	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	<	0.03	1913
12927	10/15/2003	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	<	1	1913
12921	5/18/2004	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)		0.22	1913
12927	4/17/2003	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	<	1	1913
12927	8/28/2002	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)	<	0.1	1913
12927	5/18/2004	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)		1.21	1913
12921	2/6/2003	00610	NITROGEN, AMMONIA, TOTAL (MG/L AS N)		0.74	1913
12921	1/30/2003	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	<	1	1913
12927	7/7/2004	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	<	0.05	1913
12921	5/21/2003	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	<	1	1913
12921	7/7/2004	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	<	0.05	1913
12924	8/28/2002	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	<	0.5	1913
12924	4/17/2003	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	<	1	1913
12924	3/6/2003	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	<	1	1913
12921	10/11/2002	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)		0.202	1913
12927	4/17/2003	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	<	1	1913
12921	8/7/2002	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	<	0.5	1913
12927	3/6/2003	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)		1.68	1913
12924	10/11/2002	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)		0.721	1913
12927	10/11/2002	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	<	0.2	1913
12924	7/23/2003	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	<	1	1913
12924	4/15/2004	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)		0.28	1913
12921	4/15/2004	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)		0.067	1913
12921	5/18/2004	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	<	0.05	1913
12924	7/7/2004	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	<	0.05	1913
12927	8/4/2004	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	<	0.05	1913
12927	10/15/2003	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	<	1	1913
12921	8/13/2003	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	<	1	1913
12921	7/23/2003	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	<	1	1913
12921	4/17/2003	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	<	1	1913
12924	8/7/2002	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)		0.88	1913
12927	1/30/2003	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	<	1	1913
12921	8/28/2002	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	<	0.5	1913
12921	10/15/2003	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	<	1	1913
12927	8/28/2002	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	<	0.5	1913
12927	7/23/2003	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	<	1	1913
12927	5/21/2003	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	<	1	1913
12927	8/13/2003	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	<	1	1913

12927	5/18/2004	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	<	0.05	1913
12924	10/15/2003	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	<	1	1913
12921	8/4/2004	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	<	0.05	1913
12924	8/13/2003	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	<	1	1913
12924	8/4/2004	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	<	0.05	1913
12924	5/21/2003	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	<	1	1913
12924	5/18/2004	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	<	0.05	1913
12921	3/6/2003	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	<	1	1913
12927	4/15/2004	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	<	0.05	1913
12927	8/7/2002	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	<	0.5	1913
12924	1/30/2003	00625	NITROGEN, KJELDAHL, TOTAL (MG/L AS N)	<	1	1913
12927	10/11/2002	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)		0.54	1913
12924	10/11/2002	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)		1.5	1913
12921	10/11/2002	00630	NITRITE PLUS NITRATE, TOTAL 1 DET. (MG/L AS N)		0.88	1913
12924	8/13/2003	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)		6.96	1913
12927	8/13/2003	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)		3.53	1913
12924	7/23/2003	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)		9.9	1913
12921	2/6/2003	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)		7.49	1913
12927	5/18/2004	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)	<	0.05	1913
12924	4/17/2003	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)		5.28	1913
12927	2/6/2003	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)		3.19	1913
12924	3/6/2003	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)		7.91	1913
12924	5/18/2004	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)	<	0.05	1913
12921	3/6/2003	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)		6.93	1913
12921	5/18/2004	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)	<	0.05	1913
12924	2/6/2003	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)		8.98	1913
12921	8/13/2003	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)		6.61	1913
12927	3/6/2003	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)		2.96	1913
12921	7/7/2004	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)	<	0.05	1913
12927	7/23/2003	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)		3.29	1913
12921	4/17/2003	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)		4.696	1913
12921	7/23/2003	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)		7.96	1913
12924	5/21/2003	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)		7.96	1913
12927	5/21/2003	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)		4.67	1913
12921	10/15/2003	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)		4.46	1913
12927	8/28/2002	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)		2.5	1913
12924	4/15/2004	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)		0.355	1913
12927	4/17/2003	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)		2.312	1913
12921	4/15/2004	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)	<	0.05	1913
12927	8/7/2002	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)		4.53	1913
12924	8/4/2004	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)		1.238	1913
12921	8/7/2002	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)		6.55	1913
12921	5/21/2003	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)		7.93	1913
12924	8/7/2002	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)		7.62	1913
12921	8/4/2004	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)		1.243	1913
12927	4/15/2004	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)	<	0.05	1913
12924	7/7/2004	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)		0.091	1913
12921	10/11/2002	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)		2.942	1913
12924	8/28/2002	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)		3.4	1913
12921	8/28/2002	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)		3.7	1913
12927	10/15/2003	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)		3.3	1913
12927	8/4/2004	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)		0.055	1913
12924	10/11/2002	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)		4.637	1913
12927	10/11/2002	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)		1.635	1913
12927	7/7/2004	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)		0.052	1913
12924	10/15/2003	00631	NITRITE PLUS NITRATE, DISS 1 DET. (MG/L AS N)		5.98	1913
12921	7/23/2003	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)		0.716	1913
12921	12/11/2002	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)		184.11	1913
12927	7/7/2004	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)		0.058	1913
12921	8/13/2003	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)		0.714	1913
12927	8/7/2002	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)	<	0.1	1913
12921	10/15/2003	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)		0.78	1913
12924	8/13/2003	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)		1.064	1913
12927	1/30/2003	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)	<	0.01	1913
12921	4/17/2003	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)		0.612	1913
12921	8/28/2002	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)		0.33	1913

12927	10/15/2003	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)		0.16	1913
12927	7/23/2003	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)	<	0.01	1913
12927	8/13/2003	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)	<	0.161	1913
12927	12/11/2002	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)	<	2	1913
12924	10/15/2003	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)		1.35	1913
12924	8/28/2002	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)		0.71	1913
12927	5/21/2003	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)	<	0.01	1913
12927	5/18/2004	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)		0.08	1913
12927	8/28/2002	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)	<	0.1	1913
12921	8/7/2002	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)		0.31	1913
12921	10/11/2002	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)		0.362	1913
12927	8/4/2004	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)		0.037	1913
12927	4/15/2004	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)		0.04	1913
12924	7/7/2004	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)		0.852	1913
12924	10/11/2002	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)		0.703	1913
12921	5/18/2004	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)		0.93	1913
12921	8/4/2004	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)		0.932	1913
12924	7/23/2003	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)		0.468	1913
12927	3/6/2003	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)		0.755	1913
12924	4/15/2004	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)		1.35	1913
12927	10/11/2002	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)		0.172	1913
12924	5/21/2003	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)		0.168	1913
12921	5/21/2003	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)		0.1	1913
12924	1/30/2003	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)		0.28	1913
12924	4/17/2003	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)		0.968	1913
12924	3/6/2003	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)		0.067	1913
12921	7/7/2004	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)		0.398	1913
12921	4/15/2004	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)		0.18	1913
12924	8/4/2004	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)		1.065	1913
12921	3/6/2003	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)		0.464	1913
12921	1/30/2003	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)		0.78	1913
12924	12/11/2002	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)		224.85	1913
12927	4/17/2003	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)		0.052	1913
12924	8/7/2002	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)		0.88	1913
12924	5/18/2004	00665	PHOSPHORUS, TOTAL, WET METHOD (MG/L AS P)		1.121	1913
12927	4/17/2003	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)		0.046	1913
12921	7/23/2003	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)		0.95	1913
12921	7/7/2004	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)		0.38	1913
12924	7/23/2003	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)		1.83	1913
12921	4/17/2003	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)		0.519	1913
12927	7/23/2003	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)		0.03	1913
12924	4/17/2003	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)		0.838	1913
12921	5/21/2003	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)		0.66	1913
12924	5/21/2003	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)		0.98	1913
12927	5/21/2003	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)		0.05	1913
12927	10/15/2003	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)		0.14	1913
12927	3/6/2003	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)		0.04	1913
12924	7/7/2004	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)		0.824	1913
12927	2/6/2003	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)		0.02	1913
12927	8/4/2004	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)		0.025	1913
12927	10/11/2002	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)		0.081	1913
12924	8/4/2004	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)		1.023	1913
12921	5/18/2004	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)		0.74	1913
12921	8/28/2002	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)	<	0.1	1913
12921	10/15/2003	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)		0.75	1913
12921	2/6/2003	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)		0.63	1913
12924	3/6/2003	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)		0.65	1913
12924	8/28/2002	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)		0.3	1913
12924	2/6/2003	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)		0.84	1913
12927	8/28/2002	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)	<	0.1	1913
12927	8/7/2002	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)	<	0.1	1913
12921	4/15/2004	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)		0.762	1913
12924	8/7/2002	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)		0.84	1913
12921	8/7/2002	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)		0.31	1913
12924	4/15/2004	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)		0.976	1913
12927	7/7/2004	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)		0.024	1913

12921	8/4/2004	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)		0.871	1913
12927	4/15/2004	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)		0.03	1913
12924	10/11/2002	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)		0.502	1913
12921	10/11/2002	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)		0.246	1913
12924	10/15/2003	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)		1.31	1913
12921	1/30/2003	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)		0.46	1913
12921	3/6/2003	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)		0.43	1913
12927	5/18/2004	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)		0.076	1913
12924	1/30/2003	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)		0.77	1913
12927	8/13/2003	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)		0.03	1913
12927	1/30/2003	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)		0.01	1913
12921	8/13/2003	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)		0.86	1913
12924	8/13/2003	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)		1.61	1913
12924	5/18/2004	00671	PHOSPHORUS, DISSOLVED ORTHOPHOSPHORUS(MG/L AS P)		1.107	1913
12927	7/23/2003	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		5.32	1913
12924	8/7/2002	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		4.62	1913
12927	8/7/2002	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		1.54	1913
12927	8/28/2002	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		1.3	1913
12927	7/7/2004	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		6.9	1913
12927	5/21/2003	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		2.92	1913
12927	10/15/2003	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		3.1	1913
12927	1/30/2003	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		2.17	1913
12924	1/30/2003	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		6.705	1913
12921	7/7/2004	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		6.9	1913
12921	10/11/2002	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		3.97	1913
12921	8/7/2002	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		3.45	1913
12921	4/17/2003	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		3.8	1913
12927	4/17/2003	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		6.51	1913
12927	5/18/2004	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		4.7	1913
12924	4/15/2004	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		9.2	1913
12927	8/13/2003	00680	CARBON, TOTAL ORGANIC (MG/L AS C)	<	1	1913
12921	8/4/2004	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		8.2	1913
12927	12/11/2002	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		1.01	1913
12927	4/15/2004	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		4	1913
12921	4/15/2004	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		6.6	1913
12924	4/17/2003	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		7.24	1913
12927	3/6/2003	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		2.48	1913
12921	3/6/2003	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		5.49	1913
12924	7/7/2004	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		8.8	1913
12924	12/11/2002	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		4.92	1913
12921	1/30/2003	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		5.38	1913
12927	8/4/2004	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		7.7	1913
12921	7/23/2003	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		7.031	1913
12927	10/11/2002	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		2.96667	1913
12921	8/13/2003	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		11.24	1913
12921	5/21/2003	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		4.94	1913
12927	2/6/2003	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		4.19	1913
12924	8/13/2003	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		8.15	1913
12921	12/11/2002	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		5.79	1913
12924	10/15/2003	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		6.9	1913
12924	8/4/2004	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		8.2	1913
12924	2/6/2003	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		10.98	1913
12924	10/11/2002	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		3.36333	1913
12921	8/28/2002	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		1.38	1913
12924	5/21/2003	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		7.59	1913
12924	5/18/2004	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		8.2	1913
12924	7/23/2003	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		8.12	1913
12921	2/6/2003	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		13.67	1913
12924	3/6/2003	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		7.69	1913
12924	8/28/2002	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		2.7	1913
12921	5/18/2004	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		9.2	1913
12921	10/15/2003	00680	CARBON, TOTAL ORGANIC (MG/L AS C)		4.1	1913
12921	8/28/2002	00800	Channel Flow Status 1=high 2-moderate 3=low 4=no flow		2	1913
12924	8/27/2002	00800	Channel Flow Status 1=high 2-moderate 3=low 4=no flow		2	1913
12927	8/26/2002	00800	Channel Flow Status 1=high 2-moderate 3=low 4=no flow		2	1913
12921	8/28/2002	00812	Statewide criteria IBI Score	Int	42	1913

12924	8/27/2002	00812	Statewide criteria IBI Score	Int	42	1913
12927	8/26/2002	00812	Statewide criteria IBI Score	Int	40	1913
12921	8/28/2002	00813	Number of native cyprinid species		3	1913
12927	8/26/2002	00813	Number of native cyprinid species		3	1913
12924	8/27/2002	00813	Number of native cyprinid species		2	1913
12921	8/28/2002	00814	Number of benthic invertivore species		0	1913
12924	8/27/2002	00814	Number of benthic invertivore species		0	1913
12927	8/26/2002	00814	Number of benthic invertivore species		0	1913
12927	8/26/2002	00816	Percentage of individuals as tolerants ex.G.affinis		51	1913
12921	8/28/2002	00816	Percentage of individuals as tolerants ex.G.affinis		59	1913
12924	8/27/2002	00816	Percentage of individuals as tolerants ex.G.affinis		12	1913
12924	8/27/2002	00817	Number of individuals/seine haul		20.2	1913
12921	8/28/2002	00817	Number of individuals/seine haul		27	1913
12927	8/26/2002	00817	Number of individuals/seine haul		5.5	1913
12927	8/26/2002	00818	Number of individuals/min electrofishing		3.2	1913
12924	8/27/2002	00818	Number of individuals/min electrofishing		1.2	1913
12921	8/28/2002	00818	Number of individuals/min electrofishing		7.1	1913
12921	8/28/2002	00819	Percentage of ind. as non-native species		4.1	1913
12924	8/27/2002	00819	Percentage of ind. as non-native species		0.7	1913
12927	8/26/2002	00819	Percentage of ind. as non-native species		4.9	1913
12921	8/28/2002	00820	Regional Criteria IBI Score	Lim	34	1913
12927	8/26/2002	00820	Regional Criteria IBI Score	Int	35	1913
12924	8/27/2002	00820	Regional Criteria IBI Score	Hgh	41	1913
12927	8/26/2002	00832	Total RBP Score	Int	28	1913
12921	8/28/2002	00832	Total RBP Score	Hgh	30	1913
12924	8/27/2002	00832	Total RBP Score	Int	26	1913
12921	8/28/2002	00833	Habitat Quality Index	Hgh	20	1913
12924	8/27/2002	00833	Habitat Quality Index	Hgh	20	1913
12927	8/26/2002	00833	Habitat Quality Index	Int	18	1913
12927	5/18/2004	00940	CHLORIDE (MG/L AS CL)		30	1913
12927	5/21/2003	00940	CHLORIDE (MG/L AS CL)		35.31	1913
12921	5/21/2003	00940	CHLORIDE (MG/L AS CL)		65.51	1913
12927	8/28/2002	00940	CHLORIDE (MG/L AS CL)		12	1913
12927	12/11/2002	00940	CHLORIDE (MG/L AS CL)		67.24	1913
12921	4/17/2003	00940	CHLORIDE (MG/L AS CL)		70.55	1913
12921	2/6/2003	00940	CHLORIDE (MG/L AS CL)		73.93	1913
12924	10/11/2002	00940	CHLORIDE (MG/L AS CL)		38.9	1913
12921	3/6/2003	00940	CHLORIDE (MG/L AS CL)		55.61	1913
12924	5/21/2003	00940	CHLORIDE (MG/L AS CL)		74.88	1913
12927	8/7/2002	00940	CHLORIDE (MG/L AS CL)		24.1	1913
12924	3/6/2003	00940	CHLORIDE (MG/L AS CL)		79.23	1913
12927	2/6/2003	00940	CHLORIDE (MG/L AS CL)		35.43	1913
12927	3/6/2003	00940	CHLORIDE (MG/L AS CL)		31.07	1913
12924	8/7/2002	00940	CHLORIDE (MG/L AS CL)		81.7	1913
12921	4/15/2004	00940	CHLORIDE (MG/L AS CL)		69	1913
12927	4/15/2004	00940	CHLORIDE (MG/L AS CL)		30	1913
12924	7/23/2003	00940	CHLORIDE (MG/L AS CL)		92.81	1913
12924	8/13/2003	00940	CHLORIDE (MG/L AS CL)		85.34	1913
12921	8/13/2003	00940	CHLORIDE (MG/L AS CL)		79.98	1913
12927	1/30/2003	00940	CHLORIDE (MG/L AS CL)		35.5	1913
12921	8/28/2002	00940	CHLORIDE (MG/L AS CL)		47.3	1913
12921	10/15/2003	00940	CHLORIDE (MG/L AS CL)		55	1913
12927	8/4/2004	00940	CHLORIDE (MG/L AS CL)		39.5	1913
12927	8/13/2003	00940	CHLORIDE (MG/L AS CL)		31.76	1913
12924	2/6/2003	00940	CHLORIDE (MG/L AS CL)		96.24	1913
12921	12/11/2002	00940	CHLORIDE (MG/L AS CL)		50.46	1913
12921	5/18/2004	00940	CHLORIDE (MG/L AS CL)		53	1913
12924	12/11/2002	00940	CHLORIDE (MG/L AS CL)		69.65	1913
12927	7/23/2003	00940	CHLORIDE (MG/L AS CL)		32	1913
12924	8/28/2002	00940	CHLORIDE (MG/L AS CL)		57	1913
12924	10/15/2003	00940	CHLORIDE (MG/L AS CL)		85	1913
12924	5/18/2004	00940	CHLORIDE (MG/L AS CL)		83	1913
12924	8/4/2004	00940	CHLORIDE (MG/L AS CL)		73	1913
12921	7/23/2003	00940	CHLORIDE (MG/L AS CL)		70.25	1913
12927	10/15/2003	00940	CHLORIDE (MG/L AS CL)		40	1913
12921	10/11/2002	00940	CHLORIDE (MG/L AS CL)		18.3	1913

12924	1/30/2003	00940	CHLORIDE (MG/L AS CL)		94.99	1913
12924	4/15/2004	00940	CHLORIDE (MG/L AS CL)		85	1913
12927	7/7/2004	00940	CHLORIDE (MG/L AS CL)		29	1913
12921	7/7/2004	00940	CHLORIDE (MG/L AS CL)		57	1913
12921	8/7/2002	00940	CHLORIDE (MG/L AS CL)		48.8	1913
12927	10/11/2002	00940	CHLORIDE (MG/L AS CL)		12	1913
12924	4/17/2003	00940	CHLORIDE (MG/L AS CL)		86.26	1913
12921	8/4/2004	00940	CHLORIDE (MG/L AS CL)		71	1913
12921	1/30/2003	00940	CHLORIDE (MG/L AS CL)		68.21	1913
12924	7/7/2004	00940	CHLORIDE (MG/L AS CL)		74	1913
12927	4/17/2003	00940	CHLORIDE (MG/L AS CL)		34.7	1913
12927	3/6/2003	00945	SULFATE (MG/L AS SO4)		53.53	1913
12924	8/28/2002	00945	SULFATE (MG/L AS SO4)		25.8	1913
12921	4/17/2003	00945	SULFATE (MG/L AS SO4)		25.08	1913
12927	1/30/2003	00945	SULFATE (MG/L AS SO4)		67.46	1913
12921	8/4/2004	00945	SULFATE (MG/L AS SO4)		52.6	1913
12921	5/21/2003	00945	SULFATE (MG/L AS SO4)		34.31	1913
12927	7/23/2003	00945	SULFATE (MG/L AS SO4)		42.82	1913
12927	8/28/2002	00945	SULFATE (MG/L AS SO4)		21.5	1913
12927	4/17/2003	00945	SULFATE (MG/L AS SO4)		50.97	1913
12924	7/23/2003	00945	SULFATE (MG/L AS SO4)		43.71	1913
12921	8/13/2003	00945	SULFATE (MG/L AS SO4)		26.44	1913
12924	12/11/2002	00945	SULFATE (MG/L AS SO4)		50.25	1913
12924	3/6/2003	00945	SULFATE (MG/L AS SO4)		58.29	1913
12924	8/4/2004	00945	SULFATE (MG/L AS SO4)		53.3	1913
12924	5/21/2003	00945	SULFATE (MG/L AS SO4)		45.6	1913
12921	7/23/2003	00945	SULFATE (MG/L AS SO4)		39.5	1913
12927	10/11/2002	00945	SULFATE (MG/L AS SO4)		32	1913
12924	10/15/2003	00945	SULFATE (MG/L AS SO4)		59	1913
12921	10/11/2002	00945	SULFATE (MG/L AS SO4)		26.8	1913
12924	4/17/2003	00945	SULFATE (MG/L AS SO4)		52.76	1913
12921	3/6/2003	00945	SULFATE (MG/L AS SO4)		54.92	1913
12921	2/6/2003	00945	SULFATE (MG/L AS SO4)		83.47	1913
12921	5/18/2004	00945	SULFATE (MG/L AS SO4)		47.7	1913
12924	1/30/2003	00945	SULFATE (MG/L AS SO4)		67.33	1913
12927	5/21/2003	00945	SULFATE (MG/L AS SO4)		33.92	1913
12921	4/15/2004	00945	SULFATE (MG/L AS SO4)		54	1913
12921	1/30/2003	00945	SULFATE (MG/L AS SO4)		57.61	1913
12924	8/13/2003	00945	SULFATE (MG/L AS SO4)		38.71	1913
12924	10/11/2002	00945	SULFATE (MG/L AS SO4)		41.2	1913
12924	8/7/2002	00945	SULFATE (MG/L AS SO4)		47.9	1913
12921	8/28/2002	00945	SULFATE (MG/L AS SO4)		24	1913
12924	5/18/2004	00945	SULFATE (MG/L AS SO4)		55	1913
12921	7/7/2004	00945	SULFATE (MG/L AS SO4)		48.8	1913
12927	2/6/2003	00945	SULFATE (MG/L AS SO4)		57.6	1913
12921	10/15/2003	00945	SULFATE (MG/L AS SO4)		49	1913
12924	7/7/2004	00945	SULFATE (MG/L AS SO4)		56.6	1913
12927	10/15/2003	00945	SULFATE (MG/L AS SO4)		46	1913
12927	8/7/2002	00945	SULFATE (MG/L AS SO4)		37.8	1913
12927	5/18/2004	00945	SULFATE (MG/L AS SO4)		45.2	1913
12927	8/13/2003	00945	SULFATE (MG/L AS SO4)		33.44	1913
12924	4/15/2004	00945	SULFATE (MG/L AS SO4)		59	1913
12921	8/7/2002	00945	SULFATE (MG/L AS SO4)		39.2	1913
12924	2/6/2003	00945	SULFATE (MG/L AS SO4)		66.47	1913
12921	12/11/2002	00945	SULFATE (MG/L AS SO4)		51.78	1913
12927	12/11/2002	00945	SULFATE (MG/L AS SO4)		37.58	1913
12927	8/4/2004	00945	SULFATE (MG/L AS SO4)		51.5	1913
12927	7/7/2004	00945	SULFATE (MG/L AS SO4)		46.1	1913
12927	4/15/2004	00945	SULFATE (MG/L AS SO4)		44	1913
12921	7/23/2003	01351	FLOW:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D		2	1913
12924	8/28/2002	01351	FLOW:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D		2	1913
12921	7/7/2004	01351	FLOW:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D		3	1913
12924	7/23/2003	01351	FLOW:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D		2	1913
12921	2/6/2003	01351	FLOW:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D		3	1913
12927	3/6/2003	01351	FLOW:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D		3	1913
12924	3/6/2003	01351	FLOW:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D		3	1913

12927	5/21/2003	01351	FLOW:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D		3	1913
12927	8/4/2004	01351	FLOW:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D		3	1913
12924	10/11/2002	01351	FLOW:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D		5	1913
12927	10/15/2003	01351	FLOW:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D		3	1913
12927	4/17/2003	01351	FLOW:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D		3	1913
12924	5/21/2003	01351	FLOW:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D		3	1913
12924	4/15/2004	01351	FLOW:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D		3	1913
12921	8/28/2002	01351	FLOW:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D		2	1913
12921	12/11/2002	01351	FLOW:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D		5	1913
12927	4/15/2004	01351	FLOW:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D		3	1913
12924	8/13/2003	01351	FLOW:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D		3	1913
12927	12/11/2002	01351	FLOW:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D		5	1913
12927	8/7/2002	01351	FLOW:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D		2	1913
12927	7/23/2003	01351	FLOW:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D		2	1913
12924	4/17/2003	01351	FLOW:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D		3	1913
12927	8/13/2003	01351	FLOW:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D		3	1913
12921	8/4/2004	01351	FLOW:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D		3	1913
12924	5/18/2004	01351	FLOW:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D		3	1913
12924	8/7/2002	01351	FLOW:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D		2	1913
12927	7/7/2004	01351	FLOW:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D		3	1913
12921	4/15/2004	01351	FLOW:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D		3	1913
12921	8/7/2002	01351	FLOW:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D		3	1913
12921	5/18/2004	01351	FLOW:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D		3	1913
12924	10/15/2003	01351	FLOW:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D		3	1913
12921	10/11/2002	01351	FLOW:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D		5	1913
12927	1/30/2003	01351	FLOW:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D		2	1913
12921	10/15/2003	01351	FLOW:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D		3	1913
12927	10/11/2002	01351	FLOW:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D		5	1913
12921	5/21/2003	01351	FLOW:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D		3	1913
12927	2/6/2003	01351	FLOW:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D		3	1913
12924	2/6/2003	01351	FLOW:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D		3	1913
12921	3/6/2003	01351	FLOW:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D		3	1913
12924	8/4/2004	01351	FLOW:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D		3	1913
12924	7/7/2004	01351	FLOW:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D		3	1913
12921	8/13/2003	01351	FLOW:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D		3	1913
12927	5/18/2004	01351	FLOW:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D		3	1913
12921	4/17/2003	01351	FLOW:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D		3	1913
12924	12/11/2002	01351	FLOW:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D		5	1913
12927	8/28/2002	01351	FLOW:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D		2	1913
12924	1/30/2003	01351	FLOW:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D		2	1913
12921	1/30/2003	01351	FLOW:1=No Flow,2=Low,3=Normal,4=Flood,5=High,6=D		3	1913
12924	4/17/2003	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH, #/100ML		0	1913
12921	4/17/2003	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH, #/100ML		0	1913
12927	10/11/2002	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH, #/100ML		1133	1913
12927	4/17/2003	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH, #/100ML		92	1913
12921	8/7/2002	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH, #/100ML		40	1913
12921	8/28/2002	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH, #/100ML		75	1913
12924	10/11/2002	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH, #/100ML		1267	1913
12927	8/28/2002	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH, #/100ML		700	1913
12921	3/6/2003	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH, #/100ML		122.8	1913
12921	10/11/2002	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH, #/100ML		800	1913
12927	8/7/2002	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH, #/100ML		40	1913
12924	3/6/2003	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH, #/100ML		120	1913
12924	8/7/2002	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH, #/100ML	<	10	1913
12924	8/28/2002	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH, #/100ML		236	1913
12927	3/6/2003	31616	FECAL COLIFORM,MEMBR FILTER,M-FC BROTH, #/100ML		67	1913
12921	5/18/2004	31648	E. COLI, MTEC, MF, #/100 ML		330	1913
12927	7/7/2004	31648	E. COLI, MTEC, MF, #/100 ML		120	1913
12921	4/15/2004	31648	E. COLI, MTEC, MF, #/100 ML		40	1913
12924	7/7/2004	31648	E. COLI, MTEC, MF, #/100 ML		120	1913
12924	5/18/2004	31648	E. COLI, MTEC, MF, #/100 ML		270	1913
12921	10/15/2003	31648	E. COLI, MTEC, MF, #/100 ML		100	1913
12927	8/4/2004	31648	E. COLI, MTEC, MF, #/100 ML		140	1913
12924	8/4/2004	31648	E. COLI, MTEC, MF, #/100 ML		31	1913
12921	7/7/2004	31648	E. COLI, MTEC, MF, #/100 ML		100	1913
12927	4/15/2004	31648	E. COLI, MTEC, MF, #/100 ML		145	1913

12927	10/15/2003	31648	E. COLI, MTEC, MF, #/100 ML		108	1913
12921	8/4/2004	31648	E. COLI, MTEC, MF, #/100 ML		81	1913
12927	5/18/2004	31648	E. COLI, MTEC, MF, #/100 ML		240	1913
12924	10/15/2003	31648	E. COLI, MTEC, MF, #/100 ML		136	1913
12924	4/15/2004	31648	E. COLI, MTEC, MF, #/100 ML		75	1913
12921	4/17/2003	31699	E. COLI, COLILERT, IDEXX METHOD, MPN/100ML		25.3	1913
12927	12/11/2002	31699	E. COLI, COLILERT, IDEXX METHOD, MPN/100ML		207.5	1913
12924	5/21/2003	31699	E. COLI, COLILERT, IDEXX METHOD, MPN/100ML		36.9	1913
12924	12/11/2002	31699	E. COLI, COLILERT, IDEXX METHOD, MPN/100ML		248.9	1913
12921	5/21/2003	31699	E. COLI, COLILERT, IDEXX METHOD, MPN/100ML		86.2	1913
12927	4/17/2003	31699	E. COLI, COLILERT, IDEXX METHOD, MPN/100ML		118.7	1913
12927	7/23/2003	31699	E. COLI, COLILERT, IDEXX METHOD, MPN/100ML		66.3	1913
12921	8/7/2002	31699	E. COLI, COLILERT, IDEXX METHOD, MPN/100ML		22	1913
12921	12/11/2002	31699	E. COLI, COLILERT, IDEXX METHOD, MPN/100ML		648.8	1913
12927	5/21/2003	31699	E. COLI, COLILERT, IDEXX METHOD, MPN/100ML		122.3	1913
12927	3/6/2003	31699	E. COLI, COLILERT, IDEXX METHOD, MPN/100ML		131.7	1913
12927	10/11/2002	31699	E. COLI, COLILERT, IDEXX METHOD, MPN/100ML		800	1913
12921	3/6/2003	31699	E. COLI, COLILERT, IDEXX METHOD, MPN/100ML		185	1913
12921	10/11/2002	31699	E. COLI, COLILERT, IDEXX METHOD, MPN/100ML		567	1913
12924	2/6/2003	31699	E. COLI, COLILERT, IDEXX METHOD, MPN/100ML		46.4	1913
12921	7/23/2003	31699	E. COLI, COLILERT, IDEXX METHOD, MPN/100ML		77.1	1913
12927	8/13/2003	31699	E. COLI, COLILERT, IDEXX METHOD, MPN/100ML		146.7	1913
12921	8/13/2003	31699	E. COLI, COLILERT, IDEXX METHOD, MPN/100ML		79.1	1913
12924	8/7/2002	31699	E. COLI, COLILERT, IDEXX METHOD, MPN/100ML		6	1913
12924	8/13/2003	31699	E. COLI, COLILERT, IDEXX METHOD, MPN/100ML		193.5	1913
12924	10/11/2002	31699	E. COLI, COLILERT, IDEXX METHOD, MPN/100ML		800	1913
12924	4/17/2003	31699	E. COLI, COLILERT, IDEXX METHOD, MPN/100ML		82	1913
12927	2/6/2003	31699	E. COLI, COLILERT, IDEXX METHOD, MPN/100ML		285.1	1913
12924	3/6/2003	31699	E. COLI, COLILERT, IDEXX METHOD, MPN/100ML		105.4	1913
12924	7/23/2003	31699	E. COLI, COLILERT, IDEXX METHOD, MPN/100ML		81.6	1913
12927	8/7/2002	31699	E. COLI, COLILERT, IDEXX METHOD, MPN/100ML		199	1913
12921	2/6/2003	31699	E. COLI, COLILERT, IDEXX METHOD, MPN/100ML		62.4	1913
12921	10/11/2002	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH	<	10	1913
12927	4/15/2004	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH	<	1	1913
12927	8/4/2004	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH		1	1913
12927	10/11/2002	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH	<	10	1913
12924	10/11/2002	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH	<	10	1913
12924	2/6/2003	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH	<	0.25	1913
12921	8/28/2002	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH	<	10	1913
12921	10/15/2003	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH		7	1913
12924	8/4/2004	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH		2.1	1913
12924	8/28/2002	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH		10.9	1913
12924	10/15/2003	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH	<	1	1913
12921	2/6/2003	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH	<	0.25	1913
12927	10/15/2003	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH	<	1	1913
12927	8/28/2002	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH	<	2	1913
12927	5/18/2004	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH	<	1	1913
12921	5/18/2004	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH		2.7	1913
12924	4/15/2004	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH	<	1	1913
12927	7/7/2004	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH		1.6	1913
12927	2/6/2003	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH	<	0.25	1913
12924	8/7/2002	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH		8.7	1913
12921	4/15/2004	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH	<	1	1913
12921	1/30/2003	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH	<	0.25	1913
12924	5/18/2004	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH		3.5	1913
12921	8/7/2002	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH		6.4	1913
12924	1/30/2003	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH		0.305	1913
12927	8/7/2002	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH	<	2	1913
12927	8/13/2003	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH	<	0.25	1913
12927	3/6/2003	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH	<	0.25	1913
12924	5/21/2003	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH	<	0.25	1913
12924	7/7/2004	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH		4.8	1913
12924	3/6/2003	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH	<	0.25	1913
12921	4/17/2003	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH	<	0.25	1913
12927	7/23/2003	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH	<	0.25	1913
12921	3/6/2003	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH	<	0.25	1913

12924	7/23/2003	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH	<	0.25	1913
12924	4/17/2003	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH	<	0.25	1913
12921	12/11/2002	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH	<	0.25	1913
12921	5/21/2003	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH	<	0.25	1913
12924	8/13/2003	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH	<	0.25	1913
12927	4/17/2003	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH	<	0.25	1913
12921	8/13/2003	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH	<	0.25	1913
12921	7/23/2003	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH	<	0.25	1913
12927	1/30/2003	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH	<	0.25	1913
12927	12/11/2002	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH	<	0.25	1913
12921	8/4/2004	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH		4.8	1913
12921	7/7/2004	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH		5.3	1913
12924	12/11/2002	32211	CHLOROPHYLL-A UG/L SPECTROPHOTOMETRIC ACID. METH	<	0.25	1913
12924	8/7/2002	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	2	1913
12924	10/15/2003	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	1	1913
12924	8/28/2002	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	5	1913
12927	12/11/2002	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	0.25	1913
12924	5/18/2004	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	1	1913
12927	4/17/2003	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	0.25	1913
12924	12/11/2002	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	0.25	1913
12927	1/30/2003	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	0.25	1913
12921	7/23/2003	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	0.25	1913
12921	1/30/2003	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	0.25	1913
12921	5/18/2004	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.		1.8	1913
12927	7/23/2003	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	0.25	1913
12927	10/11/2002	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	5	1913
12921	8/7/2002	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.		5.9	1913
12921	3/6/2003	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	0.25	1913
12924	1/30/2003	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.		0.21	1913
12921	4/15/2004	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.		10.04	1913
12921	12/11/2002	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	0.25	1913
12921	7/7/2004	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.		3.6	1913
12921	8/13/2003	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	0.25	1913
12921	8/28/2002	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	5	1913
12924	8/13/2003	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	0.25	1913
12921	10/15/2003	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	1	1913
12924	4/15/2004	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.		26.7	1913
12927	5/18/2004	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	1	1913
12924	7/23/2003	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	0.25	1913
12924	2/6/2003	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	0.25	1913
12924	3/6/2003	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	0.25	1913
12924	7/7/2004	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.		3	1913
12927	2/6/2003	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	0.25	1913
12921	8/4/2004	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.		6.8	1913
12924	10/11/2002	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	5	1913
12927	3/6/2003	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	0.25	1913
12924	8/4/2004	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.		3.5	1913
12927	8/13/2003	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	0.25	1913
12921	4/17/2003	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	0.25	1913
12927	10/15/2003	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	1	1913
12927	4/15/2004	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.		16.82	1913
12924	4/17/2003	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	0.25	1913
12927	7/7/2004	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	1	1913
12921	5/21/2003	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	0.25	1913
12921	10/11/2002	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	5	1913
12924	5/21/2003	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	0.25	1913
12921	2/6/2003	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	0.25	1913
12927	8/28/2002	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.		6.5	1913
12927	8/4/2004	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.		4.6	1913
12927	8/7/2002	32218	PHEOPHYTIN-A UG/L SPECTROPHOTOMETRIC ACID. METH.	<	2	1913
12927	8/26/2002	72052	STREAMBED SLOPE (FT/FT)		0.0061	1913
12924	8/27/2002	72052	STREAMBED SLOPE (FT/FT)		0.0013	1913
12921	8/28/2002	72052	STREAMBED SLOPE (FT/FT)		0.0012	1913
12927	1/30/2003	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)	>	5	1913
12924	8/13/2003	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)	>	14	1913
12921	7/7/2004	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)	>	7	1913

12927	5/21/2003	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)	>	30	1913
12921	8/13/2003	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)	>	14	1913
12924	5/21/2003	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)	>	30	1913
12927	10/11/2002	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)		2	1913
12921	7/23/2003	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)		8	1913
12921	5/21/2003	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)	>	30	1913
12927	2/6/2003	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)	<	1	1913
12924	10/15/2003	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)	>	5	1913
12921	5/18/2004	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)	>	10	1913
12921	4/17/2003	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)	>	14	1913
12927	10/15/2003	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)	>	5	1913
12924	1/30/2003	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)	>	5	1913
12924	4/15/2004	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)	<	7	1913
12927	8/4/2004	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)	>	14	1913
12924	7/23/2003	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)		8	1913
12924	2/6/2003	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)	<	1	1913
12921	1/30/2003	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)	>	5	1913
12927	4/17/2003	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)	>	14	1913
12924	4/17/2003	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)	>	14	1913
12921	2/6/2003	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)	<	1	1913
12927	5/18/2004	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)	>	10	1913
12927	7/23/2003	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)		8	1913
12921	8/4/2004	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)	>	14	1913
12924	10/11/2002	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)		2	1913
12924	5/18/2004	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)	>	10	1913
12921	4/15/2004	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)	<	7	1913
12921	12/11/2002	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)		2	1913
12924	7/7/2004	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)	>	7	1913
12924	8/4/2004	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)	>	14	1913
12927	12/11/2002	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)		2	1913
12927	7/7/2004	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)	>	7	1913
12927	4/15/2004	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)	<	7	1913
12921	10/15/2003	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)	>	5	1913
12924	12/11/2002	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)		2	1913
12927	8/13/2003	72053	DAYS SINCE PRECIPITATION EVENT (DAYS)	>	14	1913
12921	1/30/2003	74069	STREAM FLOW ESTIMATE (CFS)		8	1913
12924	7/7/2004	74069	STREAM FLOW ESTIMATE (CFS)		3	1913
12924	12/11/2002	74069	STREAM FLOW ESTIMATE (CFS)		30	1913
12924	1/30/2003	74069	STREAM FLOW ESTIMATE (CFS)		6	1913
12924	2/6/2003	74069	STREAM FLOW ESTIMATE (CFS)		25	1913
12924	10/11/2002	74069	STREAM FLOW ESTIMATE (CFS)		15	1913
12927	1/30/2003	74069	STREAM FLOW ESTIMATE (CFS)		4	1913
12924	8/27/2002	84159	AVERAGE PERCENTAGE INSTREAM COVER		32.5	1913
12921	8/28/2002	84159	AVERAGE PERCENTAGE INSTREAM COVER		47	1913
12927	8/26/2002	84159	AVERAGE PERCENTAGE INSTREAM COVER		46	1913
12927	8/26/2002	84161	STREAM ORDER		4	1913
12921	8/28/2002	84161	STREAM ORDER		4	1913
12924	8/27/2002	84161	STREAM ORDER		4	1913
12921	8/28/2002	89832	NUMBER OF LATERAL TRANSECTS MADE		5	1913
12924	8/27/2002	89832	NUMBER OF LATERAL TRANSECTS MADE		6	1913
12927	8/26/2002	89832	NUMBER OF LATERAL TRANSECTS MADE		5	1913
12924	10/15/2003	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2	1913
12927	2/6/2003	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2	1913
12921	7/23/2003	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2	1913
12921	10/15/2003	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2	1913
12927	8/4/2004	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2	1913
12927	10/11/2002	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2	1913
12927	7/23/2003	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2	1913
12921	8/7/2002	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2	1913
12921	4/15/2004	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2	1913
12921	10/11/2002	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2	1913
12924	8/4/2004	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2	1913
12924	5/21/2003	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2	1913
12927	12/11/2002	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2	1913
12924	8/28/2002	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2	1913
12924	5/18/2004	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2	1913

12927	5/18/2004	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2	1913
12927	8/13/2003	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2	1913
12924	8/7/2002	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2	1913
12924	4/15/2004	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2	1913
12921	12/11/2002	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2	1913
12927	8/28/2002	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2	1913
12921	3/6/2003	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2	1913
12927	4/17/2003	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2	1913
12921	8/4/2004	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2	1913
12924	7/23/2003	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2	1913
12921	4/17/2003	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2	1913
12927	10/15/2003	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2	1913
12927	7/7/2004	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2	1913
12924	3/6/2003	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2	1913
12921	8/13/2003	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2	1913
12927	3/6/2003	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2	1913
12921	2/6/2003	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2	1913
12927	5/21/2003	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2	1913
12921	7/7/2004	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2	1913
12927	8/7/2002	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2	1913
12921	8/28/2002	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2	1913
12921	5/18/2004	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2	1913
12924	4/17/2003	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2	1913
12921	5/21/2003	89835	FLOW MTH 1=Gage Station 2=Elec 3=Mech 4=Weir/Flu		2	1913
12927	8/26/2002	89839	TOTAL NUMBER OF STREAM BENDS		4	1913
12921	8/28/2002	89839	TOTAL NUMBER OF STREAM BENDS		3	1913
12924	8/27/2002	89839	TOTAL NUMBER OF STREAM BENDS		1	1913
12924	8/27/2002	89840	NUMBER OF WELL DEFINED STREAM BENDS		0	1913
12927	8/26/2002	89840	NUMBER OF WELL DEFINED STREAM BENDS		0	1913
12921	8/28/2002	89840	NUMBER OF WELL DEFINED STREAM BENDS		1	1913
12927	8/26/2002	89841	NUMBER OF MODERATELY DEFINED STREAM BENDS		1	1913
12924	8/27/2002	89841	NUMBER OF MODERATELY DEFINED STREAM BENDS		0	1913
12921	8/28/2002	89841	NUMBER OF MODERATELY DEFINED STREAM BENDS		0	1913
12927	8/26/2002	89842	NUMBER OF POORLY DEFINED STREAM BENDS		3	1913
12921	8/28/2002	89842	NUMBER OF POORLY DEFINED STREAM BENDS		2	1913
12924	8/27/2002	89842	NUMBER OF POORLY DEFINED STREAM BENDS		1	1913
12921	8/28/2002	89843	TOTAL NUMBER OF RIFFLES		1	1913
12924	8/27/2002	89843	TOTAL NUMBER OF RIFFLES		2	1913
12927	8/26/2002	89843	TOTAL NUMBER OF RIFFLES		3	1913
12921	8/28/2002	89844	DOMINANT SUBSTRATE TYPE		5	1913
12924	8/27/2002	89844	DOMINANT SUBSTRATE TYPE		5	1913
12927	8/26/2002	89844	DOMINANT SUBSTRATE TYPE		7	1913
12924	8/27/2002	89845	AVERAGE PERCENT OF SUBSTRATE GRAVEL SIZE OR LARG		70	1913
12921	8/28/2002	89845	AVERAGE PERCENT OF SUBSTRATE GRAVEL SIZE OR LARG		81	1913
12927	8/26/2002	89845	AVERAGE PERCENT OF SUBSTRATE GRAVEL SIZE OR LARG		43	1913
12924	8/27/2002	89846	AVERAGE STREAM BANK EROSION (%)		79	1913
12927	8/26/2002	89846	AVERAGE STREAM BANK EROSION (%)		58	1913
12921	8/28/2002	89846	AVERAGE STREAM BANK EROSION (%)		65	1913
12921	8/28/2002	89847	AVERAGE STREAM BANK SLOPE (DEGREES)		60	1913
12924	8/27/2002	89847	AVERAGE STREAM BANK SLOPE (DEGREES)		35	1913
12927	8/26/2002	89847	AVERAGE STREAM BANK SLOPE (DEGREES)		68	1913
12927	8/26/2002	89849	AVERAGE PERCENT TREES AS RIPARIAN VEGETATION		19	1913
12924	8/27/2002	89849	AVERAGE PERCENT TREES AS RIPARIAN VEGETATION		27	1913
12921	8/28/2002	89849	AVERAGE PERCENT TREES AS RIPARIAN VEGETATION		8	1913
12927	8/26/2002	89850	AVERAGE PERCENT SHRUBS AS RIPARIAN VEGETATION		15	1913
12924	8/27/2002	89850	AVERAGE PERCENT SHRUBS AS RIPARIAN VEGETATION		22	1913
12921	8/28/2002	89850	AVERAGE PERCENT SHRUBS AS RIPARIAN VEGETATION		28	1913
12924	8/27/2002	89851	AVERAGE PERCENT GRASS AS RIPARIAN VEGETATION		24	1913
12927	8/26/2002	89851	AVERAGE PERCENT GRASS AS RIPARIAN VEGETATION		15.5	1913
12921	8/28/2002	89851	AVERAGE PERCENT GRASS AS RIPARIAN VEGETATION		23	1913
12921	8/28/2002	89853	AVERAGE PERCENT OTHER AS RIPARIAN VEGETATION		41	1913
12927	8/26/2002	89853	AVERAGE PERCENT OTHER AS RIPARIAN VEGETATION		50.5	1913
12924	8/27/2002	89853	AVERAGE PERCENT OTHER AS RIPARIAN VEGETATION		27	1913
12927	8/26/2002	89854	AVERAGE PERCENTAGE OF TREE CANOPY COVERAGE		66	1913
12924	8/27/2002	89854	AVERAGE PERCENTAGE OF TREE CANOPY COVERAGE		0	1913
12921	8/28/2002	89854	AVERAGE PERCENTAGE OF TREE CANOPY COVERAGE		39	1913

12921	8/4/2004	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA		5.4	1913
12921	7/8/2004	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA		5.99	1913
12924	7/23/2003	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA		1.66	1913
12927	5/21/2003	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA		5.64	1913
12924	5/19/2004	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA		1.83	1913
12924	8/28/2002	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA		3.93	1913
12921	12/11/2002	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA		6.88	1913
12924	5/21/2003	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA		1.93	1913
12924	8/7/2002	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA		3.66	1913
12924	12/11/2002	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA		5.5	1913
12927	8/4/2004	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA		5.37	1913
12921	4/16/2004	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA		3.38	1913
12927	4/16/2004	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA		6.31	1913
12927	7/23/2003	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA		5.58	1913
12927	3/6/2003	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA		6.17	1913
12921	2/6/2003	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA		6.14	1913
12924	8/4/2004	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA		3.44	1913
12921	7/22/2003	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA		4.36	1913
12927	2/6/2003	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA		5.45	1913
12921	3/6/2003	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA		7.05	1913
12927	12/11/2002	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA		6.77	1913
12921	5/19/2004	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA		2.9	1913
12924	3/6/2003	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA		5.63	1913
12924	4/17/2003	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA		1.17	1913
12927	8/7/2002	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA		5.15	1913
12927	5/19/2004	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA		4.55	1913
12927	10/12/2002	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA		5.19	1913
12921	10/12/2002	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA		5.31	1913
12927	10/16/2003	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA		4.34	1913
12924	7/8/2004	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA		3.2	1913
12924	10/12/2002	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA		3.97	1913
12921	8/7/2002	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA		6.11	1913
12921	8/28/2002	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA		5.43	1913
12927	4/17/2003	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA		4.25	1913
12927	7/8/2004	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA		5.23	1913
12924	10/16/2003	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA		2.97	1913
12921	4/17/2003	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA		5.92	1913
12921	5/21/2003	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA		5.92	1913
12921	10/16/2003	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA		4.02	1913
12924	4/16/2004	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA		3.15	1913
12921	8/13/2003	89855	DISSOLVED OXYGEN, 24-HOUR MIN. (MG/L) MIN. 4 MEA		4.28	1913
12924	8/4/2004	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA		10.31	1913
12927	2/6/2003	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA		8.42	1913
12924	10/16/2003	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA		7.25	1913
12927	3/6/2003	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA		11.56	1913
12921	8/13/2003	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA		5.71	1913
12927	12/11/2002	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA		7.9	1913
12921	2/6/2003	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA		9.51	1913
12921	8/7/2002	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA		8.64	1913
12924	3/6/2003	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA		10.21	1913
12927	7/23/2003	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA		13.15	1913
12924	7/8/2004	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA		11.73	1913
12921	7/22/2003	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA		5.84	1913
12921	5/19/2004	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA		4.06	1913
12927	8/7/2002	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA		6.84	1913
12927	10/12/2002	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA		6.08	1913
12921	10/12/2002	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA		5.74	1913
12921	4/16/2004	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA		5.48	1913
12927	8/4/2004	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA		8.03	1913
12921	10/16/2003	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA		4.42	1913
12924	7/23/2003	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA		12.7	1913
12921	3/6/2003	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA		7.63	1913
12924	5/21/2003	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA		15.12	1913
12921	4/17/2003	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA		8.95	1913
12927	5/21/2003	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA		8.77	1913
12924	8/28/2002	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA		12.83	1913

12921	7/8/2004	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA		7.87	1913
12921	8/28/2002	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA		7.15	1913
12921	8/4/2004	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA		7.18	1913
12924	4/17/2003	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA		15.88	1913
12921	12/11/2002	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA		7.38	1913
12924	5/19/2004	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA		6.45	1913
12924	12/11/2002	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA		7.96	1913
12927	4/17/2003	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA		7.65	1913
12927	4/16/2004	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA		7.99	1913
12927	5/19/2004	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA		6.45	1913
12927	10/16/2003	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA		5.95	1913
12924	10/12/2002	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA		7.97	1913
12924	4/16/2004	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA		7.89	1913
12921	5/21/2003	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA		7.5	1913
12924	8/7/2002	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA		11.16	1913
12927	7/8/2004	89856	DISSOLVED OXYGEN, 24-HOUR MAX. (MG/L) MIN. 4 MEA		7.52	1913
12921	4/17/2003	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA		7.19	1913
12927	4/16/2004	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA		7.33	1913
12921	5/21/2003	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA		6.53	1913
12921	4/16/2004	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA		4.44	1913
12924	4/17/2003	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA		7.46	1913
12927	8/4/2004	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA		6.68	1913
12927	5/21/2003	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA		7.39	1913
12924	5/21/2003	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA		9.25	1913
12924	4/16/2004	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA		5.46	1913
12921	8/7/2002	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA		7.32	1913
12924	8/7/2002	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA		7.29	1913
12927	4/17/2003	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA		6.19	1913
12921	5/19/2004	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA		3.49	1913
12921	7/22/2003	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA		4.97	1913
12927	10/16/2003	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA		5.32	1913
12924	7/23/2003	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA		6.43	1913
12924	10/12/2002	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA		5.24	1913
12924	7/8/2004	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA		7.5	1913
12921	8/13/2003	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA		4.93	1913
12921	10/12/2002	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA		5.52	1913
12927	10/12/2002	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA		5.6	1913
12921	12/11/2002	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA		7.09	1913
12921	8/28/2002	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA		6.36	1913
12927	7/23/2003	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA		9.47	1913
12924	10/16/2003	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA		4.87	1913
12921	2/6/2003	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA		6.86	1913
12924	8/4/2004	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA		6.66	1913
12927	2/6/2003	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA		6.52	1913
12927	12/11/2002	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA		7.15	1913
12927	5/19/2004	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA		5.6	1913
12924	12/11/2002	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA		6.49	1913
12921	7/8/2004	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA		7.04	1913
12924	5/19/2004	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA		3.85	1913
12921	10/16/2003	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA		4.29	1913
12927	8/7/2002	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA		6.14	1913
12927	7/8/2004	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA		6.33	1913
12921	3/6/2003	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA		7.31	1913
12924	3/6/2003	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA		7.26	1913
12924	8/28/2002	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA		7.55	1913
12927	3/6/2003	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA		7.84	1913
12921	8/4/2004	89857	DISSOLVED OXYGEN, 24-HOUR AVG. (MG/L) MIN. 4 MEA		6.46	1913
12924	7/23/2003	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS		96	1913
12921	5/19/2004	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS		96	1913
12924	4/17/2003	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS		96	1913
12924	8/4/2004	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS		96	1913
12927	4/16/2004	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS		96	1913
12921	2/6/2003	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS		96	1913
12924	3/6/2003	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS		96	1913
12921	5/21/2003	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS		97	1913
12927	8/7/2002	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS		96	1913

12927	7/23/2003	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS		96	1913
12927	5/19/2004	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS		96	1913
12927	12/11/2002	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS		96	1913
12921	3/6/2003	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS		96	1913
12921	7/8/2004	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS		96	1913
12924	5/21/2003	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS		81	1913
12924	5/19/2004	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS		96	1913
12921	7/22/2003	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS		96	1913
12921	12/11/2002	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS		96	1913
12927	5/21/2003	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS		97	1913
12924	12/11/2002	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS		96	1913
12927	2/6/2003	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS		96	1913
12921	8/7/2002	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS		96	1913
12927	4/17/2003	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS		96	1913
12921	8/28/2002	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS		96	1913
12927	8/4/2004	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS		96	1913
12927	7/8/2004	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS		96	1913
12924	8/28/2002	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS		96	1913
12924	10/12/2002	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS		96	1913
12924	4/16/2004	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS		96	1913
12921	8/13/2003	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS		96	1913
12927	3/6/2003	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS		96	1913
12924	7/8/2004	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS		96	1913
12924	10/16/2003	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS		96	1913
12921	8/4/2004	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS		96	1913
12927	10/12/2002	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS		96	1913
12924	8/7/2002	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS		90	1913
12921	4/17/2003	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS		96	1913
12921	10/16/2003	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS		96	1913
12921	4/16/2004	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS		96	1913
12921	10/12/2002	89858	DISSOLVED OXYGEN, # OF MEASUREMENTS IN 24-HRS		96	1913
12927	8/26/2002	89859	DRAINAGE AREA ABOVE MOST DOWNSTREAM TRANSECT (KM		740	1913
12921	8/28/2002	89859	DRAINAGE AREA ABOVE MOST DOWNSTREAM TRANSECT (KM		784.2	1913
12924	8/27/2002	89859	DRAINAGE AREA ABOVE MOST DOWNSTREAM TRANSECT (KM		772	1913
12927	8/26/2002	89860	LENGTH OF STREAM EVALUATED (KM)		0.25	1913
12921	8/28/2002	89860	LENGTH OF STREAM EVALUATED (KM)		0.25	1913
12924	8/27/2002	89860	LENGTH OF STREAM EVALUATED (KM)		0.455	1913
12921	8/28/2002	89861	AVERAGE STREAM WIDTH (METERS)		8.35	1913
12927	8/26/2002	89861	AVERAGE STREAM WIDTH (METERS)		9.22	1913
12924	8/27/2002	89861	AVERAGE STREAM WIDTH (METERS)		26.43	1913
12921	8/28/2002	89862	AVERAGE STREAM DEPTH (METERS)		0.51	1913
12924	8/27/2002	89862	AVERAGE STREAM DEPTH (METERS)		0.45	1913
12927	8/26/2002	89862	AVERAGE STREAM DEPTH (METERS)		0.33	1913
12927	8/26/2002	89864	MAXIMUM POOL WIDTH (METERS)		5	1913
12924	8/27/2002	89864	MAXIMUM POOL WIDTH (METERS)		20	1913
12921	8/28/2002	89864	MAXIMUM POOL WIDTH (METERS)		10	1913
12921	8/28/2002	89865	MAXIMUM POOL DEPTH (METERS)	>	1	1913
12924	8/27/2002	89865	MAXIMUM POOL DEPTH (METERS)	>	1	1913
12927	8/26/2002	89865	MAXIMUM POOL DEPTH (METERS)	<	1	1913
12921	8/28/2002	89866	AVERAGE WIDTH OF NATURAL RIPARIAN VEGETATION (M)	>	20	1913
12924	8/27/2002	89866	AVERAGE WIDTH OF NATURAL RIPARIAN VEGETATION (M)	>	20	1913
12927	8/26/2002	89866	AVERAGE WIDTH OF NATURAL RIPARIAN VEGETATION (M)	>	20	1913
12927	8/26/2002	89867	AESTHETICS (1=WILD 2=NAT. 3=COMM. 4=OFF.)		3	1913
12921	8/28/2002	89867	AESTHETICS (1=WILD 2=NAT. 3=COMM. 4=OFF.)		3	1913
12924	8/27/2002	89867	AESTHETICS (1=WILD 2=NAT. 3=COMM. 4=OFF.)		3	1913
12921	8/28/2002	89899	#IND/1=SUBSAMPLE,2=SQFT,3=SQMTR,4=TOTAL KICKNET		4	1913
12924	8/27/2002	89899	#IND/1=SUBSAMPLE,2=SQFT,3=SQMTR,4=TOTAL KICKNET		4	1913
12927	8/26/2002	89899	#IND/1=SUBSAMPLE,2=SQFT,3=SQMTR,4=TOTAL KICKNET		4	1913
12921	8/28/2002	89905	DEBRIS/SHORELINE SAMPLING EFFORT, MINUTES PICKED		0	1913
12924	8/27/2002	89905	DEBRIS/SHORELINE SAMPLING EFFORT, MINUTES PICKED		0	1913
12927	8/26/2002	89905	DEBRIS/SHORELINE SAMPLING EFFORT, MINUTES PICKED		0	1913
12921	8/28/2002	89906	NUMBER OF INDIV. IN BENTHIC RBA SUBSAMPLE (#IND)		104	1913
12924	8/27/2002	89906	NUMBER OF INDIV. IN BENTHIC RBA SUBSAMPLE (#IND)		109	1913
12927	8/26/2002	89906	NUMBER OF INDIV. IN BENTHIC RBA SUBSAMPLE (#IND)		105	1913
12921	8/28/2002	89941	NET LENGTH (METERS)		5.49	1913
12924	8/27/2002	89941	NET LENGTH (METERS)		5.49	1913

12927	8/26/2002	89941	NET LENGTH (METERS)		5.49	1913
12921	8/28/2002	89943	ELECTROFISHING METHOD 1BOAT2BACKPACK3TOTEBARGE		2	1913
12924	8/27/2002	89943	ELECTROFISHING METHOD 1BOAT2BACKPACK3TOTEBARGE		2	1913
12927	8/26/2002	89943	ELECTROFISHING METHOD 1BOAT2BACKPACK3TOTEBARGE		2	1913
12921	8/28/2002	89944	ELECTROFISH EFFORT, DURATION OF SHOCKING (SEC)	>	900	1913
12924	8/27/2002	89944	ELECTROFISH EFFORT, DURATION OF SHOCKING (SEC)	>	900	1913
12927	8/26/2002	89944	ELECTROFISH EFFORT, DURATION OF SHOCKING (SEC)	>	900	1913
12927	8/26/2002	89946	MESH SIZE, ANY NET OR SIEVE, AVERAGE BAR (CM)		0.3175	1913
12921	8/28/2002	89946	MESH SIZE, ANY NET OR SIEVE, AVERAGE BAR (CM)		0.3175	1913
12924	8/27/2002	89946	MESH SIZE, ANY NET OR SIEVE, AVERAGE BAR (CM)		0.3175	1913
12921	8/28/2002	89948	COMBINED LENGTH OF SEINE HAULS (METERS)		60	1913
12927	8/26/2002	89948	COMBINED LENGTH OF SEINE HAULS (METERS)		60	1913
12924	8/27/2002	89948	COMBINED LENGTH OF SEINE HAULS (METERS)		60	1913
12927	8/26/2002	89950	BENTHIC SAMPLER (1=SURB,2=EKM,3=KICK,4=PET,5=H-D		3	1913
12921	8/28/2002	89950	BENTHIC SAMPLER (1=SURB,2=EKM,3=KICK,4=PET,5=H-D		3	1913
12924	8/27/2002	89950	BENTHIC SAMPLER (1=SURB,2=EKM,3=KICK,4=PET,5=H-D		3	1913
12927	8/26/2002	89961	ECOREGION (TEXAS ECOREGION CODE)		32	1913
12921	8/28/2002	89961	ECOREGION (TEXAS ECOREGION CODE)		32	1913
12924	8/27/2002	89961	ECOREGION (TEXAS ECOREGION CODE)		32	1913
12921	8/28/2002	89976	AREA SEINED (SQ METERS)		330	1913
12924	8/27/2002	89976	AREA SEINED (SQ METERS)		330	1913
12927	8/26/2002	89976	AREA SEINED (SQ METERS)		330	1913
12927	8/26/2002	90007	HILSENHOFF BIOTIC INDEX		5.09	1913
12921	8/28/2002	90007	HILSENHOFF BIOTIC INDEX		5.09	1913
12924	8/27/2002	90007	HILSENHOFF BIOTIC INDEX		5.66	1913
12924	8/27/2002	90008	EPT INDEX		5	1913
12921	8/28/2002	90008	EPT INDEX		6	1913
12927	8/26/2002	90008	EPT INDEX		6	1913
12924	8/27/2002	90009	NUMBER OF BENTHIC FUNCTIONAL FEEDING GROUPS		4	1913
12921	8/28/2002	90009	NUMBER OF BENTHIC FUNCTIONAL FEEDING GROUPS		4	1913
12927	8/26/2002	90009	NUMBER OF BENTHIC FUNCTIONAL FEEDING GROUPS		5	1913
12924	8/27/2002	90010	DOMINANT BENTHIC FUNC FEEDING GRP, % OF COMMUNIT		56	1913
12927	8/26/2002	90010	DOMINANT BENTHIC FUNC FEEDING GRP, % OF COMMUNIT		64	1913
12921	8/28/2002	90010	DOMINANT BENTHIC FUNC FEEDING GRP, % OF COMMUNIT		64	1913
12927	8/26/2002	90025	BENTHIC GATHERERS (% OF COMMUNITY)		16	1913
12921	8/28/2002	90025	BENTHIC GATHERERS (% OF COMMUNITY)		16	1913
12924	8/27/2002	90025	BENTHIC GATHERERS (% OF COMMUNITY)		13	1913
12921	8/28/2002	90030	BENTHIC FILTERERS (% OF COMMUNITY)		64	1913
12924	8/27/2002	90030	BENTHIC FILTERERS (% OF COMMUNITY)		56	1913
12927	8/26/2002	90030	BENTHIC FILTERERS (% OF COMMUNITY)		64	1913
12927	8/26/2002	90035	BENTHIC SHREDDERS (% OF COMMUNITY)	<	1	1913
12921	8/28/2002	90035	BENTHIC SHREDDERS (% OF COMMUNITY)		0	1913
12924	8/27/2002	90035	BENTHIC SHREDDERS (% OF COMMUNITY)		0	1913
12927	8/26/2002	90036	BENTHIC PREDATORS (% OF COMMUNITY)		10	1913
12924	8/27/2002	90036	BENTHIC PREDATORS (% OF COMMUNITY)		14	1913
12921	8/28/2002	90036	BENTHIC PREDATORS (% OF COMMUNITY)		9	1913
12921	8/28/2002	90042	PERCENT DOMINANT TAXON, BENTHOS		39.05	1913
12927	8/26/2002	90042	PERCENT DOMINANT TAXON, BENTHOS		39.05	1913
12924	8/27/2002	90042	PERCENT DOMINANT TAXON, BENTHOS		50.46	1913
12924	8/27/2002	90050	RATIO OF INTOLERANT TO TOLERANT TAXA, BENTHOS		0.36	1913
12921	8/28/2002	90050	RATIO OF INTOLERANT TO TOLERANT TAXA, BENTHOS		0.93	1913
12927	8/26/2002	90050	RATIO OF INTOLERANT TO TOLERANT TAXA, BENTHOS		0.93	1913
12924	8/27/2002	90052	NUMBER OF NON-INSECT TAXA		2	1913
12927	8/26/2002	90052	NUMBER OF NON-INSECT TAXA		2	1913
12921	8/28/2002	90052	NUMBER OF NON-INSECT TAXA		2	1913
12924	8/27/2002	90054	PERCENT OF TOTAL NUMBER AS ELMIDAE		4.59	1913
12921	8/28/2002	90054	PERCENT OF TOTAL NUMBER AS ELMIDAE		2.86	1913
12927	8/26/2002	90054	PERCENT OF TOTAL NUMBER AS ELMIDAE		2.86	1913
12921	8/28/2002	90055	MACROINVERTEBRATE TAXA RICHNESS		17	1913
12924	8/27/2002	90055	MACROINVERTEBRATE TAXA RICHNESS		14	1913
12927	8/26/2002	90055	MACROINVERTEBRATE TAXA RICHNESS		16	1913
12921	8/28/2002	92266	TRICHOPTERA		92.86	1913
12927	8/26/2002	92266	TRICHOPTERA		92.86	1913
12924	8/27/2002	92266	TRICHOPTERA		100	1913
12921	8/28/2002	92491	CHIRONOMIDAE		10.48	1913
12924	8/27/2002	92491	CHIRONOMIDAE		7.34	1913

12927	8/26/2002	92491	CHIRONOMIDAE		10.48	1913
12924	8/27/2002	98003	NUMBER OF SPECIES, FISH		12	1913
12921	8/28/2002	98003	NUMBER OF SPECIES, FISH		18	1913
12927	8/26/2002	98003	NUMBER OF SPECIES, FISH		13	1913
12927	8/26/2002	98004	TOTAL NUMBER OF DARTER SPECIES		0	1913
12924	8/27/2002	98004	TOTAL NUMBER OF DARTER SPECIES		0	1913
12921	8/28/2002	98004	TOTAL NUMBER OF DARTER SPECIES		0	1913
12927	8/26/2002	98008	TOTAL NUMBER OF SUNFISH SPECIES		4	1913
12921	8/28/2002	98008	TOTAL NUMBER OF SUNFISH SPECIES		6	1913
12924	8/27/2002	98008	TOTAL NUMBER OF SUNFISH SPECIES		4	1913
12924	8/27/2002	98009	TOTAL NUMBER OF SUCKER SPECIES		0	1913
12927	8/26/2002	98009	TOTAL NUMBER OF SUCKER SPECIES		0	1913
12921	8/28/2002	98009	TOTAL NUMBER OF SUCKER SPECIES		0	1913
12924	8/27/2002	98010	TOTAL NUMBER OF INTOLERANT SPECIES, FISH		0	1913
12927	8/26/2002	98010	TOTAL NUMBER OF INTOLERANT SPECIES, FISH		1	1913
12921	8/28/2002	98010	TOTAL NUMBER OF INTOLERANT SPECIES, FISH		1	1913
12927	8/26/2002	98016	PERCENT OF INDIVIDUALS AS TOLERANTS, FISH		68	1913
12924	8/27/2002	98016	PERCENT OF INDIVIDUALS AS TOLERANTS, FISH		19	1913
12921	8/28/2002	98016	PERCENT OF INDIVIDUALS AS TOLERANTS, FISH		65	1913
12921	8/28/2002	98017	PERCENT OF INDIVIDUALS AS OMNIVORES, FISH		3	1913
12927	8/26/2002	98017	PERCENT OF INDIVIDUALS AS OMNIVORES, FISH		5	1913
12924	8/27/2002	98017	PERCENT OF INDIVIDUALS AS OMNIVORES, FISH		4	1913
12924	8/27/2002	98021	PERCENT OF INDIVIDUALS AS INSECTIVORES, FISH		91	1913
12921	8/28/2002	98021	PERCENT OF INDIVIDUALS AS INSECTIVORES, FISH		92	1913
12927	8/26/2002	98021	PERCENT OF INDIVIDUALS AS INSECTIVORES, FISH		80	1913
12927	8/26/2002	98022	PERCENT OF INDIVIDUALS AS PISCIVORES, FISH		15	1913
12924	8/27/2002	98022	PERCENT OF INDIVIDUALS AS PISCIVORES, FISH		5	1913
12921	8/28/2002	98022	PERCENT OF INDIVIDUALS AS PISCIVORES, FISH		4	1913
12927	8/26/2002	98023	TOTAL NUMBER OF INDIVIDUALS IN SAMPLE, FISH		81	1913
12921	8/28/2002	98023	TOTAL NUMBER OF INDIVIDUALS IN SAMPLE, FISH		271	1913
12924	8/27/2002	98023	TOTAL NUMBER OF INDIVIDUALS IN SAMPLE, FISH		139	1913
12927	8/26/2002	98024	PERCENT OF INDIVIDUALS AS HYBRIDS		1	1913
12927	8/26/2002	98024	PERCENT OF INDIVIDUALS AS HYBRIDS		1	1913
12924	8/27/2002	98024	PERCENT OF INDIVIDUALS AS HYBRIDS		0	1913
12924	8/27/2002	98024	PERCENT OF INDIVIDUALS AS HYBRIDS		0	1913
12921	8/28/2002	98024	PERCENT OF INDIVIDUALS AS HYBRIDS		0.7	1913
12921	8/28/2002	98024	PERCENT OF INDIVIDUALS AS HYBRIDS		0.7	1913
12927	8/26/2002	98030	PERCENT OF INDIVIDUALS WITH DISEASE OR ANOMALY		0	1913
12921	8/28/2002	98030	PERCENT OF INDIVIDUALS WITH DISEASE OR ANOMALY		0	1913
12924	8/27/2002	98030	PERCENT OF INDIVIDUALS WITH DISEASE OR ANOMALY		0	1913