

UPPER WALKER RIVER WATER QUALITY STUDY, 2000

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INTRODUCTION

This report summarizes findings from a 2000 surface water quality investigation conducted by Linda Vance, now with the Biological Sciences Program at University Extension, University of California, Davis. The study was initiated and funded by the Bridgeport Ranchers Association, the USDA Forest Service, and the North Mono County Resource Conservation District in response to concerns about water quality in the district. The study involved surface water sampling throughout the watershed, from the high Sierra lakes at the headwaters of the East and West Walker Rivers to the irrigation-depleted flows entering Bridgeport Reservoir. Sampling was conducted between May, 2000 and September 2000. All stream locations (with the exception of Eagle Creek, which was inaccessibly in May) were sampled during the weeks of May 19, May 30, June 15, July 10, August 10, and September 13. The high Lakes were sampled twice, in mid-July and mid-August. Water samples were analyzed for Total Kjeldahl Nitrogen, Nitrate (NO3 at two different labs), Total Phosphorus, Phosphate (PO4), Ammonium Ion (NH4), Calcium (Ca), Magnesium (Mg), Sodium (Na), Potassium (K), Chlorine (Cl), Sulfate (SO4) and Silica (Si). Dissolved Oxygen, temperature and pH were measured in the field. Turbidty, electroconductivity and Total Suspended Solids were analyzed in the Agronomy and Range Lab.

WATER QUALITY COMPONENTS INCLUDED IN THE STUDY

Total Kjeldahl Nitrogen (TKN)

TKN is a measure of both organic and inorganic forms (including ammonia) of nitrogen. Because organic nitrogen is not available to plants until it is decomposed into inorganic forms, measures of nitrogen alone are not useful in water quality analysis. TKN is the measure of nitrogen most often used in water quality testing. Detection level was 0.01 mg/L.

<u>Nitrate (NO3-)</u>

Nitrate, reported in mg/L, is the most stable form of nitrogen in water, as well as being the primary form of nitrogen used by plants for growth. When sufficient levels of phosphorus are present, high nitrate levels can stimulate excessive plant or algal growth. Nitrates are commonly found in animal wastes and in sewage. Samples were analyzed for nitrate by both the University of California Division of Agriculture and Natural Resources lab and by the Department of Land Air and Water Resources lab at UC Davis. The minimum detectable level for the DANR lab was 0.05 mg/L, while the level for LAWR was 0.01 mg/L. Sample results from DANR are reported as NO3-N, and sample reports from LAWR are reported simply as NO3.

Total phosphorus (P)

Total phosphorus measures both inorganic and organic forms of phosphorus. Phosphorus can be present in dissolved or particulate form. Except where there are anthropogenic sources like sewage or waste disposal, or high inputs of animal wastes from domestic or wild animals, phosphorus is usually a "limiting nutrient" in running water. This means that no matter how much nitrogen is added to a system, it will not support abundant plant life. However, since phosphorus binds to soil and silt particles, it will often accumulate in reservoir sediments. It is reported in mg/L. The

Sulfate

Sulfate (SO4-2) is typically less than a few mg/L except in areas where acid drainage or acid deposition are common, or where gypsum is found. Sulfates can also be produced by oxidation of sulfide minerals like iron pyrite (FeS2), or of hydrogen sulfide gas (H2S). Since certain bacteria can use sulfate ion as a terminal electron acceptor in respiration, sulfate can be reduced to elemental sulfur or to hydrogen sulfide gas. Hydrogen sulfide concentrations are sometimes high in the deepest areas of reservoirs in late summer, and bottom releases of water can cause fish kills under such conditions.

<u>Silica (Si)</u>

Silica is not very soluble in water at normal (6-8) pH values, and therefore is not common in natural fresh waters, although it is an important nutrient for diatoms and other elements of aquatic food chains.

Turbidity

Turbidity measures the passage of light through water in Nephelometric Turbidity Units (NTU). It is a useful benchmark for measuring sediments, and for inferring the source of phosphorus, which tends to bind to soil particles. Pure distilled water has an NTU of 0. Water with suspended particulates (clay, silt, organic materials, microorganisms) can have an NTU of 50 or greater. Because particulates provide surfaces for bacterial growth, and because high turbidity levels reduce light penetration and therefore impair photosynthesis, high turbidity levels are considered to be detrimental to aquatic ecosystems.

Electroconductivity (EC)

Electroconductivity measures the ability of water to conduct an electric current, which in turn is determined by the content of ions --dissolved metals and other materials-- in the water. It is reported as microsiemens per centimeter (μ S/cm), and generally ranges from 50-500 μ S/cm in inland streams. Electroconductivity can be used to measure total dissolved salts (TDS). Although a specific correlation should be developed for each stream, a general rule of thumb is that TDS in parts per million = EC in μ S/cm *0.55, so that an EC reading of 500 μ S/cm would translate to a TDS level of 275 ppm. Although very high concentrations of TDS can be lethal to fish, the levels commonly found in running waters pose little danger.

<u>pH</u>

pH measures the concentration of hydrogen ions in water. Most natural fresh waters have a pH between 4.0 and 10.0. A pH level below 7.0 is considered acidic, and a pH above 7 is considered basic. Each full unit represents a ten-fold increase or decrease, i.e. water with a pH of 6.5 is ten times more acidic than water with a pH of 6.5. Most inland lakes and streams in California have a pH greater than 7.0. In reservoirs and other water bodies where aquatic plants are present, pH tends to increase in summer months as a result of photosynthesis. At high pH levels, the solubilization of ammonia, heavy metals, and salt is greater.

Total suspended solids (TSS)

Like turbidity, this is a measure of particulates within the water column. It is determined by filtering a water sample into a preweighed filter, drying the filter, and reweighing it. The difference

electroconductivity, pH, turbidity and total suspended solids. using standard laboratory methods. Dissolved oxygen, temperature and pH were measured in the field at the time of collection using a handheld meters. Chain-of-custody procedures were followed in collecting, preserving, shipment and delivery of samples for chemical analysis. Quality assurance procedures were followed at all stages, and included random resampling, spiked samples, blank samples, coded samples, and duplicate samples.

STATISTICAL ANALYSIS

To determine if differences existed between sampling sites on East Walker, Robinson Creek and Buckeye Creek subwatersheds, pairwise comparisons (t-tests for paired samples) were performed on the nutrients TKN, NO3, NH-4, P and PO4. When minimum detection levels were not met, a value 0.001 mg/L below the detection level was used in the analysis, e.g. <0.02 became 0.019. USGS data and data collected specifically for this study were combined (see Table 4 for the full dataset). Orthophosphate (the component sampled by the USGS) was compared with PO4, although they are not quite identical components. Similarly, the USGS measure of NO3 and NO2 was treated as only including NO3, since NO2 is rarely even detectable in fresh water. To obtain a TKN value for the USGS data, NO2, NO3 and NH4 data was combined.

The value of this "statistical analysis" is to identify trends rather than to make valid statistical conclusions. Because so many samples were below detection levels, necessitating the substitution described above, any normal distribution of values that might have existed was obscured, leaving the data quite skewed. Since normal distribution is an assumption on which the statistical validity of pairwise t-tests depends, the analysis is far from robust. However, non-parametric tests on a sample of this size would not be any more valid. The reader is therefore cautioned not to look for firm conclusions, but rather to see the data and comparisons as revealing certain trends.

Table 5 shows the results of the comparisons. The P-value for a two-tailed test at a confidence level of 95% is boxed for each set of comparisons. A P-value greater than 0.05 indicates that any difference between the means of samples collected from the two sites could have occurred simply as a result of the overall variability in the data. The higher the value (e.g. 0.83 is higher than 0.13), the stronger the indication that the sites are not different. Conversely, a value less than 0.05 implies that there is a genuine difference between the sites. When this occurs, an examination of the mean will indicate which of the two compared sites had higher concentrations of the nutrient.

RESULTS

Table 1 gives all results collected for this study (e.g. does not include USGS data) by site, arranged from upper to lower reaches for each stream sampled. Table 2 includes all results for this study by date. Table 3 lists the major nutrients by concentration across all sites. Table 4 shows the combined USGS data and data collected for this study for the common sites. Figure 1 contains charts showing upstream, middle and downstream sampling results for the major nutrients, based on the combined data set in Table 4. Results are discussed separately below by subwatershed.

Taken as a whole, the results show the same seasonal, flow-based pattern apparent in 1999. TKN and NO3 are higher early in the season during high flows, while P and PO4 show less dramatic

Sauger Creek

In general, Sauger Creek shows higher TKN concentrations than the 0.05 mg/L standard for TN set by Lahontan. The same is true for P levels, which were in excess of the standards for both the East Walker (0.06 mg/L) and Robinson-Buckeye (0.02 mg/L) on every occasion but one. NH4 and NO3 levels were also dramatically higher than in other creeks. These elevated nutrient concentrations are probably attributable in large part to the low flows in this creek, and to the sheep-grazing operations upstream. However, it should also be noted that virtually all the water from this creek is diverted for irrigation downstream of the sampling site, and little if any of the water probably reaches the reservoir. It should also be noted that no detectable changes in concentrations occurred between upstream and downstream sampling sites.

The High Lakes

In general, the high lakes show higher TKN concentrations than the 0.05 mg/L standard for TN set by Lahontan for Robinson and Buckeye Creeks. The same is probably true for P. Although a detection limit of 0.05 mg/L meant that P could not be fully assessed, almost half the samples had P levels at or above the detection limit. NO3 levels were comparable to those found in the downstream creeks and streams, as were PO4 levels. Although the short season certainly inhibits plant growth, in general the high lakes have sufficient nutrient concentrations to raise the possibility of long-term eutrophication. In particular, Crown, Fremont, Gilman, Hoover, Long, Robinson, Stella and Summit Lakes all have combined high NO3-PO4 levels

There is no detectable pattern to the nutrient data for the high lakes, except a slight seasonality in NO3 levels, suggesting that some degree of plant take-up occurs later in the summer. Certain lakes, particularly lakes in popular areas, such as Trumbull, Cooney and Frog Lake, have elevated levels of P and/or PO4, suggesting that there may be erosion from trails or from bank use.

DISCUSSION AND RECOMMENDATIONS

The seasonal patterns observed during this study are in line with expectations based on studies by other researchers in other watersheds. On the rising arm of the hydrograph, nitrogen concentrations should initially be high, as nutrients are leached out of the soil, then fall due to dilution, flushing, and plant uptake, and finally increase as water levels drop in late summer. Similarly, suspended solids and turbidity should show an increase with high flows, then decline with decreasing discharge.

In the light of data collected in 1999, it is not surprising that differences in nitrogen (both TKN and NO3) are not pronounced along an upstream-downstream gradient. The data on the high lakes is instructive in this regard, as it demonstrates relatively high "background" levels for TKN and NO3. There does not appear to be any conclusive evidence that cow manure is acting as a major nutrient loading factor in the lower reaches of the watershed. However, increases in P and PO4 do indicate ongoing erosion, particularly on Buckeye Creek. It should be noted, however, that both Robinson and Buckeye suffered substantial bank damage during the 1997 flood, and it may be awhile before damaged streambanks in Bridgeport Valley revegetate.

Appendix 1: Sampling sites and rationale (sites marked ** were also USGS sites)

Site #	Name	Requested by	Description and rationale
1	Barney Inlet	USFS	Robinson Creek above Barney Lake just downstream of trail crossing, and upstream of beaver area and visible sedimentation
2	Barney Outlet	USFS	Robinson Creek below Barney Lake just downstream of outlet. Goal was to determine if beaver area above lake is contributing nutrients to Robinson Creek downstream
3	Horse Creek above Twin Lakes	USFS	Horse Creek US of confluence with Robinson. There is no permitted land use other than hiking and primitive camping here, so it was thought this might be a reference creek
4	Robinson Creek above Twin Lakes	USFS NMRCD/BRA	Robinson US of trail crossing/bridge to Horse Creek. This site is below the Twin Lakes resort but above the lakes, so it would permit comparisons with Sites 2 and 5.
5**	Robinson Creek at USGS gauge	USFS, NMRCD/BRA	Robinson DS of bridge by gauging station. This site is below the Twin Lakes outlet, and above several heavily used USFS campgrounds, so it would permit comparisons with sites 4 and 6.
6	Robinson at Doc & Al's	USFS, NMRCD/BRA	Robinson US of bridge on Buckeye Rd. This site is at the DS end of the USFS campgrounds and at the US end of cattle grazing activities in Bridgeport Valley.
7**	Robinson at 395	NMRCD/BRA	N. Robinson US of highway crossing. This site is DS of some cattle and irrigation uses, and upstream of others, and is a USGS site
8**	Robinson at WRID	NMRCD/BRA	Robinson at the fenceline between the Ascuaga Ranch and the Irrigation District lands. This site is below most grazing, but above any backflow from reservoir. It is near the USGS sampling site.

Robinson Creek subwatershed

Buckeye Creek Subwatershed

9	Eagle Ck. US	USFS/BRA	Eagle Creek just US of cow loafing area in meadow beneath Eagle Peak. Most upstream point accessible during late May for sampling, so used as reference for 10
10	Eagle Ck. DS	USFS/BRA	Eagle Creek DS of USFS gate across road, and US of big S-turn down to Buckeye trail. Intended to assess any impact of grazing from 9 down.
	Buckeye above Big Meadows	USFS, NMRCD/BRA	Buckeye below roughs, just upstream of cattle loafing area. This site was intended as a benchmark for sites downstream of grazing and recreational uses.
12	Buckeye below Big Meadows	USFS, NMRCD/BRA	Buckeye at fenceline between USFS property and Hunewill inholding DS of Big Meadows. To determine impact of grazing in Big Meadows.
13	Buckeye above FS	USFS	Buckeye DS of bridge to Hunewill "pack station " site. Intended as a comparison with 12 to identify any impacts of campground and sewage treatment area.
14**	Buckeye below FS	USFS, NMRCD/BRA	Buckeye US of bridge at USGS gauging station. Comparison with 11, and reference for 13 because it is above irrigated grazing areas.
15**	Buckeye at 395	NMRCD/BRA	Buckeye US of highway crossing. This site is DS of some cattle and irrigation uses, and upstream of others, and is a USGS site
16**	Buckeye at WRID	NMRCD/BRA	Buckeye at the fenceline between the Ascuaga Ranch and the Irrigation District lands. This site is below most grazing, but above any backflow from reservoir. It is near the USGS sampling site.

Sauger Creek

17**	Sauger at campground	USFS	Sauger just upstream of bridge in old campground on 395. This is slightly upstream of the USGS site. It was included to evaluate the impact, if any, of the USFS corrals
18	Sauger at FS	USFS	Just downstream of corrals at USFS compound, and upstream of diversion on Ascaugua ranch

TABLE 1: Sampling results by site

BARNEY LAKE (ROBINSON CK)

Date	Site	Discharge cfs(inst)	TEMP F	D.O. mg/L	TSS mg/L	Turbidity Ntu	рН	EC UV	TKN mg/L	NO3-N mg/L	NH4-N mg/L
05/19/00 05/19/00	Barney Lake Inlet Barney Lake Outlet	48.0 46.7	38.9 43.1	9.2 9.1	8 8			4.0 6.2		<0.05	0.007
05/30/00 05/30/00	Barney Lake Inlet Barney Lake Outlet	84.0 63.0			22 20	1.06 1.48	8.1	5.4 6.9	1.1	<0.05	<0.007
06/15/00 06/15/00	Barney Lake Inlet Barney Lake Outlet	86.0 78.0					7.7	34.2	0.2	<0.05	<0.007
07/10/00 7/10/00	Barney Lake Inlet Barney Lake Outlet	32.0 27.1	49.3 54.7			0.48 0.74	6.4	5,4	0.2		<0.007
8/18/00 8/18/00	Barney Lake Inlet Barney Lake Outlet	4.0 6.4			r ·	0.13 0.29					
03/16/00 03/16/00	Barney Lake Inlet Barney Lake Outlet	3.5 3.1									

Date	Site	NO3 mg/L	P mg/L	PO4 mgt	Ca mg/L	Mg mg/L	Na mg/L	K mgfL	Ci mg/L	SO4	Si mg/L
05/19/00	Barney Lake Inlet	0.215	0.11	<0.02	7.33	1.34	0.87	0.13	0.54		1.21
05/19/00	Barney Lake Outlet	0.059	0.08	0.05	6.08	0.40	0.74	0.19	0.28	0.25	1.07
05/30/00	Barney Lake Inlet	0.156	0.09	0.08	5.03	0.29	0.49	0.15		0.38	0,50
05/30/00	Barney Lake Outlet	<0.010	0.09	<0.02	5.64	0.27	0.57	0.17			0.57
06/15/00	Barney Lake Inlet	0.046	<0.05	<0.02	10.18	1.28	1.62	0.80	0.31	2.58	0.75
06/15/00	Barney Lake Outlet	<0.010	<0.05	<0.02	12.84	1.39	2.00	0.71	0.33		
07/10/00	Barney Lake Inlet	0.020	<0.05	<0.02	5.04	0.27	0.43	0.10	0.28	0.05	0.32
7/10/00	Barney Lake Outlet	<0.010	<0.05	0.05	4.60	0.26	0.61	0.12			0.28
8/18/00	Barney Lake Inlet	0.019	<0.05	<0.02	11.20	3.88	0.34	0.16	0.45	0.02	0.44
8/18/00	Barney Lake Outlet	<0.010	<0.05	0.05	6.91	1.22	0.76	0.11	0.29		
09/15/00	Barney Lake Inlet	0.125	<0.05	0.03	9.13	1.34	0.87	0.13			
09/16/00	Barney Lake Outlet	<0.010	<0.05	0. 02	3.98	0.40	0.74	0.19	0.28	0.25	1.07

BUCKEYE CK: BIG MEADOWS TO USGS GAUGE

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Date	Site	Discharge cfs(inst)	TEMP	D.O. mg/L	TSS	Turbidity Ntu	рН	EC	TKN mg/L	NO3-N	NH4-N mg/L
05/19/00	Buckeye above Big Meadows	80.0	50.1	9.3	26	8.32	7.9	11.1	0.7	<0.05	0.008
05/19/00	Buckeye below Big Meadows	83.2	51.5	9.3	34	1.80	7.5	17.3	0.6	<0.05	<0.007
05/19/00	Buckeye above FS Campground	102.9	52.2	9.2	58	4.78	7.5	23.8	0.8	<0.05	<0.007
05/19/00	Buckeye below FS Campground	132.8	51.7	9.8	52	4.01	7.7	17.4	0.5	<0.05	<0.007
05/30/00		132.0	41.1	9.2	10	0.44	8.1	18.9	0.8	<0.05	<0.007
	Buckeye above Big Meadows				30	2.71	8.1	20.4	0.6	<0.05	<0.007
05/30/00	Buckeye below Big Meadows	127.5	41.3	8.9				20.4	0.8	<0.05	<0.007
05/30/00	Buckeye above FS Campground	151.2	42.8	9.4	34	1.80		+	0.8		<0.007
05/30/00	Buckeye below FS Campground	168.0	41.7	9.7	30			29.6			
06/15/00	Buckeye above Big Meadows	160.2	47.4	9.2	76			13.5	0.3		<0.007
06/15/00	Buckeye below Big Meadows	166.0	48.4	9.1	18			10.7	0.4		<0.007
06/15/00	Buckeye above FS Campground	172.0	48.9	9.1	14	1.07		23.0	0.2		
06/15/00	Buckeye below FS Campground	196.0	50.2	9.3	16	1.16	7.7	24.0			
7/10/00	Buckeye above Big Meadows	55.7	55.0	8.3	4	0.68	6.6	9.4	0.2	⊲0.05	0.008
7/10/00	Buckeye below Big Meadows	56.6	59.0	8.2	16	0.56	6.3	36.1	0.2	<0.05	·· <0.007
7/10/00	Buckeye above FS Campground	58.8	61.0		14	1.32	7.0	39.3	0,1		
7/10/00	Buckeye below FS Campground	80.3	60.0	8.5	- 4	0.95	7.2	39.9	0.1	⊲0.05	· <0.007
8/18/00	Buckeye above Big Meadows	12.1	48.2	10.6	7	0.22	6.6	16,4	0.3	<0.05	
8/18/00	Buckeye below Big Meadows	12.0	51.8	12.8	7	0.18	6.1	21.1	0.2	<0.05	<0.007
8/18/00	Buckeye above FS Campground	20.0	59.5	8.5	l a	0.33	6.9	65.8			
8/18/00	Buckeye below FS Campground	31.0	6 0.6	8.5	8	0.31	7.0	42.6	0.2	⊴0.05	
09/15/00	Buckeye above Big Meadows	10.2	53,8	8.3	24	8.12			0.2		
09/15/00	Buckeye below Big Meadows	10.2	58,8	8.3	33	3.10	7.5	17.3	0.2		
09/16/00	Buckeye above FS Camporound	10.5	55.9	7.9	63	5.60		23.8			
09/16/00	Buckeye below FS Campground	11.3	56.1	7.9	44	0.57	7.5	81.1	0.2	2 <0.05	× 0.009

Date	Site	NO3 mg/L	P mgt	PO4 mgt	Ca mgL	Mg mg/L	Na mg/L	K mg/L	Ci mg/t.	SO4 mgfL	Si Mgl
05/19/00	Buckeye above Big Meadows	<0.010	<0.05	<0.02	6.44	0.63	1.01	0.34	0.31	0.76	1.66
05/19/00	Buckeye below Big Meadows	0.075	<0.05	<0.02	7.74	0.65	0.87	0.34	0.17	0.85	1.83
05/19/00	Buckeye above FS Campground	0.042	< 0.05	<0.02	8.99	0.94	1.17	0.50	0.24	1.27	2.27
05/19/00	Buckeye below FS Campground	<0.010	<0.05	<0.02	4.52	1.12	1.36	0.61	0.26	1.52	7.20
05/30/00	Buckeye above Big Meadows	0.126	0.09	0.02	7.90	0.61	0.95	0.44	0.32	1.12	2.04
05/30/00	Buckeye below Big Meadows	<0.010	0.08	0.02	8.03	0.70	0.91	0.36	0.28	1.23	1.98
05/30/00	Buckeye above FS Campground	<0.010	<0.05	< 0.02	9.39	0.96	1.15	0.48	0.23	1.58	2.55
05/30/00	Buckeye below FS Campground	<0.010	0.09	0.02	8. 93	0.98	1.21	0.48	0.27	1.67	2.88
06/15/00	Buckeye above Big Meadows	0.052	<0.05	<0:02	7.08	0.56	0.68	0.19	0.26	0.88	1.88
06/15/00	Buckeye below Big Meadows	0.086	0.16	0.04	6.73	0.60	0.54	0.25	0.25	0.63	2.05
06/15/00	Buckeye above FS Campground	0.050	.<0.05	<0.02	8.39	0.86	0.91	0.36	0.27	1.37	2.25
06/15/00	Buckeye below FS Campground	0.050	<0.05	<0.02	8.64	0.81	1.02	0.44	0.27	1.32	2.55
7/10/00	Buckeye above Big Meadows	0.047	<0.05	<0.02	6.38	0.48	0.60	0.24	0.14	0.07	2.15
7/10/00	Buckeye below Big Meadows	0.031	<0.05	<0. 02	8. 76	0.79	1.07	0.52	0.57	0.05	2.82
7/10/00	Buckeye above FS Campground	0.032	<0.05	<0. 02	10.88	1.16	1.27	0.71	0.50	0.13	3.49
7/10/00	Buckeye below FS Campground	<0.010	< 0.05	<0.02	12.48	1.49	1.69	0.77	0.14	0. 09	3.85
8/18/00	Buckeye above Big Meadows	<0.010	0.08	< 0.02	7.33	0.49	1.53	0.23	0.21	0.02	2.11
8/18/00	Buckeye below Big Meadows	0.019	0.08	<0.02		1.62	1.77	.0.93	0.22	0.02	4.20
8/18/00	Buckeye above FS Campground	0.032	0.06	0.03	11.22	1.43	1.66	0.87	0.22	0.03	4.22
8/18/00	Buckeye below FS Campground	0.053				1.62	1.91	0.90	0.25	0.04	4.81
09/15/00	Buckeye above Big Meadows	<0.010	0.05	<0.02	5.26	0.63	1.01	0.34	0.31	0.76	1.66
09/15/00	Buckeye below Big Meadows	0.042	<0.05	<0.02	10.23	0,65	0.87	0.34	0.17	0.86	1.83
09/15/00	Buckeye above FS Campground	0.028	<0.05	<0.02	12.09	0.94	. 1.17	0.50	0.24	1.27	2.27
09/15/00	Buckeye below FS Campground	<0.010	< 0.05	<0.02	5.94			0.30	Ó.56	1.11	9.80

ROBINSON CK: ABOVE TWIN LAKES TO DOC & AL'S

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Date	Site	Discharge	TEMP	D.O.	TSS	Turbidity	pН	EC	TKN	NO3-N	NH4-N
		cfs(inst)	F	mg/L	mg/L	Ntu		UV	mg/L	mg/L	mg/L
05/19/00	Horse Creek at Twin Lakes	22.9	41.2	9.2	18	1.12	7.5	18.5	0.9	<0.05	<0.007
05/19/00	Robinson above Twin Lakes	70.0	45.6	9.1	18	0.68	7.5	11.3	1.2	<0. 05	<0.007
05/19/00	Robinson at gauge	125.2	46.4	9.0	18	0.63	6.1	28.0	0.5	<0.05	
05/19/00	Robinson @ Doc & Al	130.1	47.8	8. 9		1.30	8.2	35.6	0.4	<0.05	
05/30/00	Horse Creek at Twin Lakes	44.8	39,3	11.1	20	1.26	7.1	32. 3	1.0	0.08	<0.007
05/30/00	Robinson above Twin Lakes	118.8	42.3	10.2	20	0.08	7.2	17.5	1.4	<0.05	
05/30/00	Robinson at gauge	115.0	44.8	10.0		1.21	7.5	49.9	0.6	<0.05	
05/30/00	Robinson @ Doc & Al	120.0	45.2	9.8	20	0.73		57.1	0.4	<0.05	
06/15/00	Horse Creek at Twin Lakes	45.1	42.9	10.1	16	1.32	7.3	31.5	0.1	0.07	<0.007
06/15/00	Robinson above Twin Lakes	138.2	49.7	9.8		1.10		18.4	0,3		
06/15/00	Robinson at gauge	178.0	52.4	9.6		1.26		46.1	0.4		
06/15/00	Robinson @ Doc & Al	176.8	52.6	9.6	18			34.2	0.2	<0.05	
7/10/00	Horse Creek at Twin Lakes	20.1	58.1	8.9	6	2.13	7:2	28.0	0.1	<0.05	<0.007
7/10/00	Robinson above Twin Lakes	39.7	62.2	8.8	18	1.26	7.6	28.2	0.1	0.10	0.008
7/10/00	Robinson at gauge	98.6	63,5	8.4	12	1.05		42.5	0.2		
7/10/00	Robinson @ Doc & Al	87.5	65.2	8.4	4	1.66			0.1	<0.05	<0.007
7/25/00	Horse Creek at Twin Lakes	18.5									
7/25/00	Robinson above Twin Lakes	57.6		8.1							
7/25/00	Robinson at gauge	85.2		7.3							
7/25/00	Robinson at Doc & Al	78.2									
8/18/00	Horse Creek at Twin Lakes	11.0		10.8	-						
8/18/00	Robinson above Twin Lakes	12.0									
8/18/00	Robinson at gauge	65.0									
8/18/00	Robinson @ Doc & Al	64.1			1						
03/15/00	Horse Creek at Twin Lakes	12.6			1						
09/15/00	Robinson above Twin Lakes	10.7									
03/16/00	Robinson at gauge	21.6									
09/16/00	Robinson @ Doc & Al	19.8	53,4	8.4	52	0.68	7.5	58.3	0,2	4 <0.05	5

Date	Site	NO3 mg/L	P mg/L	PO4 mg/L	Ca mg/L	Mg mg/L	Na mgiL	K mg/L	Ci mgA.	SO4 mgl.	Si mol
05/19/00	Horse Creek at Twin Lakes	0.368	0.08	0.02	11.26	0.40	0.84	0.31	0.26	2.07	1.85
05/19/00	Robinson above Twin Lakes	0.063	<0.05	<0.02	8.61	0.53	1.00	0.28	0.17	0.89	2.42
05/19/00	Robinson at gauge	<0.010	<0.05	<0.02	8.80	0.97	2.00	0.69	0.37	4.87	5.12
05/19/00 🕴	Robinson @ Doc & Al	<0.010	<0. 05	<0.02	-14.63	1.12	2.05	0.69	0.34	4.95	2.34
05/30/00	Horse Creek at Twin Lakes	0.485	0.09	0.03	12.50	0.48	0.75	0.32	0.27	2.54	1.81
05/30/00	Robinson above Twin Lakes	0.111	0.08	0.02	8.22	0.60	0.94	0.26	0.27	0.80	2.06
06/30/00	Robinson at gauge	0.076	· <0.05	<0.02	13.13	1.17	1.85	0.46	0.38	4.00	2.51
05/30/00	Robinson @ Doc & Al	0.192	<0.05	<0.02	13.79	2.10	2.68	0.62	0,78	5.03	2.84
06/15/00	Horse Creek at Twin Lakes	0.366	0.12	0.04	10.57	0.33	0.47	0.25	0.16	2.02	1.46
06/15/00	Robinson above Twin Lakes	0.072	< 0.05	<0.02	7.56	0.48	0.80	0.20	5- 0.28	1.01	2.12
06/15/00	Robinson at gauge	<0.010	· <0.05	<0.02	12.22	0.92	1.76	0.48	0.32	3.97	2.39
06/15/00	Robinson @ Doc & Al	1 0.033	<0. 0 5	<0.02	11.64	0.68	0.93	0.26	0.27	2.27	2.53
7/10/00	Horse Creek at Twin Lakes	0.200	<0.05	<0.02	10.98	0.36	0.57	0.28	0.21	0.20	1.06
7/10/00	Robinson above Twin Lakes	0.261	<0.05	<0.02	10.90		0.58	0.28	0.64	0.12	1.5
7/10/00	Robinson at gauge	; 0.034	` <0.05	<0.02		· 0.74	1.63	0.48	0.43	0.10	
7/10/00	Robinson @ Doc & Al	0.068	<0.05				1.67	0.53	0.14	0.16	
7/25/00	Horse Creek at Twn Lakes	0.096		<0.02		0.24	0.52	0.28	0.57	0.12	1.40
7/25/00	Robinson above Twin Lakes	0.075		<0.02			1.23	0.32	0.57	0.10	
7/25/00	Robinson at gauge	0.026					0.65	0.22	· 0.21	0.12	
7/25/00	Robinson at Doc & Al	0.059					1.51	0.51	0.64	0.11	
8/18/00	Horse Creek at Twin Lakes	<0.010					0.65	0.31	0.33	0.05	1.28
8/18/00	Robinson above Twin Lakes	<0.010					1.66	0.43	0.37	0.09	
8/18/00	Robinson at gauge	<0.010					1.72	0.44	0.21	0.90	
8/18/00	Robinson @ Doc & Al	<0.010	0. 07	0.03	13.06	0.76	1.51	0.51	0.25	0.02	
09/15/00	Horse Creek at Twin Lakes	0.032					1.64	0.12	0.76	1.57	4.5
09/15/00	Robinson above Twin Lakes	0.048					4.70	0.22	0.63	0.81	
09/16/00	Robinson at gauge	0.044					1.70	0.49	0.37	3.57	
09/15/00	Robinson @ Doc & Al	0.041	<0.05	<0.02	17.12	1.54	2.65	1.09	0.06	5.05	5.3

BUCKEYE CK: USGS GAUGE TO WRID FENCELINE

Date	Site	Discharge	TEMP	D.O. ma/L	TSS mg/L	Turbidity Ntu	рН	EC	TKN	NO3-N mort	NH4-N mg/L
05/19/00	Buckeye below FS Campground	cfs(inst) 132.8	51.7	9.8	52	4.01	7.7	17.4	0.5	<0.05	< 0.007
05/19/00	Buckeye below PS Campground Buckeye (N) at 395	60.0	57.2	9.0 9.4	36	3.28	7.6	25.6	0.3	<0.05	0.010
05/19/00	Buckeye (D WRID	62.2	56.2	9.4	44	5.09	7.5	51.5	0.4	<0.05	0.010
05/30/00	· · · · · · · · · · · · · · · · · · ·	168.0	41.7	9.7	30	3.41	8.1	29.6		<0.05	<0.007
05/30/00	Buckeye below FS Campground	142.6	41.7 44.8			3.41 1.35	8.4	29.0 48.0	0.6	<0.05	<0.007
06/30/00	Buckeye (N) at 395	142.0	44.8	9.5 9.3	2 24	1.35	0.4 8.1	48.0	0.4	<0.05	<0.007
	Buckeye @ WRID										
06/15/00	Buckeye below FS Campground	196.0	50.2	9.3	16	1.16	7.7	24.0	0.2	<0.05	<0.007
06/16/00	Buckeye (N) at 395	112.6	53.3	9.0	16	1.10	7.6	32.0	0.2 0.4	<0.05 <0.05	<0.007
06/15/00	Buckeye @ WRID	102.5	53.1	8.8	20	3.45	7.7	20.9			<0.007
7/25/00	Buckeye below FS Campground	62.1	61.7	10.1	14	1.23	7.B	42.6	0.2	< 0.05	<0.007
7/25/00	Buckeye at 395	12.1	74.5	7.1	23	3.43	7.8	122.6	0.4 0.5	>0.05 0.20	<0.007
7/25/00	Buckeye at WRID fence	4.1	79.2	. 7.7	34	4.68	7.9	141.1			×0.007
8/18/00	Buckeye below FS Campground	31.0	60.6	8.5	8	0.31	7.0	42.6	0.2	<0.05	<0.007
BM8/00	Buckeye (N) at 395	7.5	63.5	7.2	10	1.32	7.8	51.9	0.3	<0.05	<0.007
8/18/00	Buckeye @ WRID	3.0	68.2	7.1	14	1.64	7.3	71.1	0.4	<0.05	<0.007
09/15/00	Buckeye below FS Campground	11.3	56.1	7.9	. 44	0.57	7.5	81.1	0.2	< 0.05	0.009
		3.1	55.1	7.7	40	1.18	7.9	189.4	0.1	<0.05	<0.007
03/15/00	Buckeye (N) at 395										
	Buckeye (N) at 395 Buckeye @ WRID	5.9	5 3.6	7.8	36	3.10	7.8	171.1	0.2	<0.05	0.090
03/15/00 03/15/00	Buckeye @WRID	5.9	53.6	7.8						<0.05	
03/15/00					36 Ca mg/L	3.10 Mg mg/L	7.8 Na mg1.	171.1 K mg/L	0.2 Cl mgL ::		0.090 Si mg/L
03/15/00 03/15/00	Buckeye @WRID	5.9 NO3	53.6 P	7.8	Ca	Mg mg/L	Na	к	G	504	SI
09/15/00 09/15/00 Date	Buckeye @WRID	5.9 NO3 mg1.	53.6 P mg/L <0.05 <0.05	7.8 PO4 mg/L	Ca mg/L	Mg mg/L 1.12	Na mg/L 1.36 2.04	K mg/L		SO4 mgL .	Si Mgl
09/15/00 09/15/00 Date 05/19/00	Buckeye @ WRID	5.9 NO3 mgL <0.010	53.6 P mgt. <0.05	7.8 PO4 mg/L <0.02	Ca mg/L 4.52	Mg mg/L 1.12 1.49	Na mg/L 1.36	K mg/L 0.61	Ci mgfL :: 0.26	SO4 mgl 1.52	Si mol 7.20
09/15/00 09/15/00 Date 05/19/00 05/19/00	Buckeye @ WRID Site Buckeye below FS Campground Buckeye (N) at 395	5.9 NO3 mgl. <0.010 <0.010	53.6 P mg/L <0.05 <0.05	7.8 PO4 mg/L <0.02 <0.02	Ca mg/L 4.52 6.02 6.40 8.93	Mg mg/L 1.12 1.49 1.68 0.98	Na mgl. 1.36 2.04 3.49 1.21	K mg/L 0.61 0.76	Ci mg/L :: 0.26 0.27	SO4 mgl. 1.52 1.92 2.07 1.67	Si mgL 7.20
09/15/00 09/15/00 Date 05/19/00 05/19/00 05/19/00	Buckeye @ WRID Site Buckeye below FS Campground Buckeye (N) at 395 Buckeye @ WRID Buckeye below FS Campground Buckeye (N) at 395	5.9 mg 1. <0.010 <0.010 <0.010	53.6 P mg1. <0.05 <0.05 <0.05 0.09 0.11	7.8 PO4 mg/L <0.02 <0.02 <0.02 0.02	Ca mg/L 4.52 6.02 6.40 8.93 9.55	Mg mg/L 1.12 1.49 1.68 0.98 3.05	Na mg1. 1.36 2.04 3.49 1.21 2.41	K mgl. 0.61 0.76 1.00 0.48 0.34	Cl mgr. 1 0.26 0.27 0.35 0.27 1.23	SO4 mgl 1.52 1.92 2.07 1.67 2.22	Si mgL 7.20 9.20 9.60 2.88 3.54
09/15/00 09/15/00 05/19/00 05/19/00 05/19/00 05/30/00 05/30/00 05/30/00	Buckeye @WRID Site Buckeye below FS Campground Buckeye (N) at 395 Buckeye @WRID Buckeye below FS Campground	5.9 mg1. <0.010 <0.010 <0.010 <0.010	53.6 P mgl. <0.05 <0.05 <0.05 0.09 0.11 0.09	7.8 PO4 mg/L <0.02 <0.02 <0.02 0.02 0.03 0.02	Ca mg/L 4.52 6.02 6.40 8.93 9.55 10.60	Mg mg/L 1.12 1.49 1.68 0.98 3.05 2.32	Na mgt. 1.36 2.04 3.49 1.21 2.41 2.26	K mg/L 0.61 0.76 1.00 0.48	Cl mgL 1 0.26 0.27 0.35 0.27 1.23 0.70	SO4 mgl. 1.52 1.92 2.07 1.67 2.22 2.22	Si mg/L 7.20 9.20 9.60 2.88 3.54 3.51
09/15/00 09/15/00 05/19/00 05/19/00 05/19/00 05/30/00 05/30/00 05/30/00 05/30/00	Buckeye @ WRID Site Buckeye below FS Campground Buckeye (N) at 395 Buckeye @ WRID Buckeye (N) at 395 Buckeye @ WRID Buckeye @ WRID Buckeye below FS Campground	5.9 mgL <0.010 <0.010 <0.010 <0.010 0.361 0.174 0.050	53.6 P mgL <0.05 <0.05 <0.05 0.09 0.11 0.09 <0.05	7.8 PO4 mg/L <0.02 <0.02 <0.02 0.03 0.03 0.02 <0.02 <0.02	Ca mg/L 4.52 6.02 6.40 8.93 9.55 10.60	Mg mg/L 1.12 1.49 1.68 0.98 3.05 2.32 0.81	Na mgr. 1.36 2.04 3.49 1.21 2.26 1.02	K mgrL 0.61 0.76 1.00 0.48 0.34 0.54	Ci mol. 1 0.26 0.27 0.35 0.27 1.23 0.27 1.23 0.70 0.27	SO4 mgl. 1.52 1.92 2.07 1.67 2.22 2.22 1.32	Si mgL 7.20 9.20 9.60 2.88 3.54 3.51 2.55
09/15/00 09/15/00 05/19/00 05/19/00 05/19/00 05/30/00 05/30/00 05/30/00 05/15/00 06/15/00	Buckeye @ WRID Site Buckeye below FS Campground Buckeye (N) at 395 Buckeye @ WRID Buckeye below FS Campground Buckeye @ WRID Buckeye below FS Campground Buckeye (N) at 395	5.9 mpf. <0.010 <0.010 <0.010 <0.010 0.361 0.174 0.050 0.093	53.6 P mg/ <0.05 <0.05 <0.05 0.09 0.11 0.09 <0.05 0.09	7.8 PO4 mg/L <0.02 <0.02 0.03 0.02 0.03 0.02 <0.02 <0.02 0.03 0.02 <0.02 <0.02 0.03 0.02 <0.02 0.03 0.02 0	Ca mg/L 4.52 6.02 6.40 8.93 9.55 10.60 8.64 9.37	Mg mg/L 1.12 1.49 1.68 0.98 3.05 2.32 0.81 1.50	Na mgr. 1.36 2.04 3.49 1.21 2.41 2.26 1.02 1.85	K mg/L 0.61 0.76 1.00 0.48 0.34 0.54 0.54	Ci mol. 1 0.26 0.27 0.35 0.27 1.23 0.70 0.27 0.32	SO4 mgL 1.52 1.92 2.07 1.67 2.22 2.22 1.32 2.38	Si mort 7.20 9.60 2.88 3.54 3.51 2.55 2.83
09/15/00 09/15/00 05/19/00 05/19/00 05/19/00 05/30/00 05/30/00 05/30/00 05/30/00 05/30/00 05/15/00 06/15/00	Buckeye @ WRID Site Buckeye below FS Campground Buckeye (N) at 395 Buckeye @ WRID Buckeye below FS Campground Buckeye @ WRID Buckeye (N) at 395 Buckeye (N) at 395 Buckeye @ WRID	5.9 mpf. <0.010 <0.010 <0.010 <0.010 0.361 0.174 0.050 0.093 <0.010	53.6 P mg/L <0.05 <0.05 <0.05 0.09 0.11 0.09 0.11 0.09 <0.05 0.06	7.8 PO4 mg/L <0.02 <0.02 0.02 0.02 0.02 0.02 0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02	Ca mg/L 4.52 6.02 6.40 8.93 9.55 10.60 8.64 9.37 8.28	Mg mg/L 1.12 1.49 1.68 0.98 3.05 2.32 0.81 1.50 0.74	Na mgl. 1.36 2.04 3.49 1.21 2.41 2.26 1.02 1.85 2.76	K mgl 0.61 0.76 1.00 0.48 0.34 0.54 0.44 0.54 0.43 0.26	Cl mgL 1 0.26 0.27 0.35 0.27 1.23 0.70 0.27 0.32 0.25	SO4 mgL 1.52 1.92 2.07 1.67 2.22 2.22 1.32 2.38 0.83	Si mol 7.20 9.60 2.88 3.54 3.51 2.55 2.83 3.02
09/15/00 09/15/00 05/19/00 05/19/00 05/19/00 05/30/00 05/30/00 05/30/00 05/30/00 05/15/00 05/15/00 05/15/00 7/25/00	Buckeye @ WRID Site Buckeye below FS Campground Buckeye (N) at 395 Buckeye @ WRID Buckeye below FS Campground Buckeye @WRID Buckeye (N) at 395 Buckeye @WRID Buckeye @WRID Buckeye below FS Campground Buckeye below FS Campground	5.9 mgL <0.010 <0.010 <0.010 <0.010 0.361 0.174 0.050 0.093 <0.010 0.053	53.6 PmgL <0.05 <0.05 <0.05 0.09 0.11 0.09 <0.05 0.06 0.05 0.06	7.8 PO4 mg/L <0.02 <0.02 0.02 0.02 0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.	Ca mg/L 4.52 6.02 6.40 8.93 9.55 10.60 8.64 9.37 8.28 12.02	Mg mgL 1.12 1.49 1.68 0.98 3.05 2.32 0.81 1.50 0.74	Na mgl. 1.36 2.04 3.49 1.21 2.26 1.02 1.85 2.76 1.77	K mgl 0.61 0.76 1.00 0.48 0.34 0.54 0.44 0.54 0.44 0.83 0.26 0.90	Cl mgL 1 0.26 0.27 0.35 0.27 1.23 0.70 0.27 0.32 0.32 0.32 0.35 0.50	SO4 mgr. 1.52 1.92 2.07 1.67 2.22 2.32 1.32 2.38 0.83 0.12	\$i mg1 7.20 9.60 2.88 3.54 3.51 2.55 2.83 3.02 4.82
09/15/00 09/15/00 05/19/00 05/19/00 05/19/00 05/30/00 05/30/00 05/30/00 05/30/00 05/30/00 05/15/00 06/15/00 06/15/00 7/25/00	Buckeye @ WRID Site Buckeye below FS Campground Buckeye (N) at 395 Buckeye @ WRID Buckeye (N) at 395 Buckeye @ WRID Buckeye below FS Campground Buckeye @ WRID Buckeye @ WRID Buckeye @ WRID Buckeye below FS Campground Buckeye below FS Campground Buckeye below FS Campground Buckeye ta 395	5.9 NO3 mgL <0.010 <0.010 <0.010 0.361 0.174 0.050 0.093 <0.010 0.053 0.120	53.6 Pmg/L <0.05 <0.05 <0.05 0.09 0.11 0.09 <0.05 0.06 0.05 <0.05 <0.05 <0.05	7.8 PO4 mg/L <0.02 <0.02 <0.02 0.03 0.03 0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.	Ca mg/L 4.52 6.02 6.40 8.93 9.55 10.60 8.64 9.37 8.28 12.02 13.20	Mg mg/L 1.12 1.49 1.68 0.98 3.05 2.32 0.81 1.50 0.74 1.53 2.23	Na mgl. 1.36 2.04 3.49 1.21 2.41 2.26 1.02 1.85 2.76 1.77 16.22	K mg/L 0.61 0.76 1.00 0.48 0.34 0.54 0.54 0.44 0.83 0.26 0.90 1.93	Cl mgL 1 0.26 0.27 0.35 0.27 1.23 0.70 0.27 0.32 0.25 0.50 1.03	SO4 mgL 1.52 1.92 2.07 1.67 2.22 2.22 1.32 2.38 0.83 0.12 0.41	Si mg/L 7,20 9,60 2,88 3,54 3,51 2,55 2,83 3,02 4,82 11,55
09/15/00 09/15/00 05/19/00 05/19/00 05/19/00 05/30/00 05/30/00 05/30/00 05/30/00 05/15/00 06/15/00 06/15/00 7/25/00 7/25/00	Buckeye @ WRID Site Buckeye below FS Campground Buckeye (N) at 395 Buckeye @ WRID Buckeye (N) at 395 Buckeye @ WRID Buckeye @ WRID Buckeye @ WRID Buckeye @ WRID Buckeye @ WRID Buckeye delow FS Campground Buckeye at 395 Buckeye at WRID fence	5.9 NO3 mp1 <0.010 <0.010 <0.010 0.010 0.0361 0.174 0.050 0.093 <0.010 0.053 0.120 0.160	53.6 Pmg/L <0.05 <0.05 <0.05 0.09 0.11 0.09 <0.05 0.06 0.05 <0.05 <0.05 <0.05	7.8 PO4 mg/L <0.02 <0.02 <0.02 0.03 0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0	Ca mg/L 4.52 6.02 6.40 8.93 9.55 10.60 8.64 9.37 8.28 12.02 13.202 13.202 13.202 13.202	Mg mo/L 1.12 1.49 1.68 0.98 3.05 2.32 0.81 1.50 0.74 1.53 2.23 2.23	Na mgl. 1.36 2.04 3.49 1.21 2.41 2.26 1.02 1.85 2.76 1.77 16.22 20.82	K mgl. 0.61 0.76 1.00 0.48 0.34 0.34 0.44 0.83 0.26 0.90 1.93 2.39	Cl mgL 1 0.26 0.27 0.35 0.27 1.23 0.70 0.27 0.32 0.25 0.50 1.03 1.21	504 mgL 1.52 1.92 2.07 1.67 2.22 2.22 1.32 2.38 0.83 0.12 0.41 0.41 0.45	Si mort 7.20 9.60 2.88 3.54 3.51 2.55 2.83 3.02 4.82 11.55 11.64
09/15/00 09/15/00 05/19/00 05/19/00 05/19/00 05/30/00 05/30/00 05/30/00 05/30/00 05/15/00 06/15/00 06/15/00 06/15/00 7/25/00 7/25/00 8/18/00	Buckeye @ WRID Site Buckeye below FS Campground Buckeye below FS Campground Buckeye @ WRID Buckeye @ WRID Buckeye below FS Campground Buckeye below FS Campground Buckeye @ WRID Buckeye @ WRID Buckeye @ WRID Buckeye at 395 Buckeye at WRID fence Buckeye below FS Campground	5.9 NO3 mpL <0.010 <0.010 <0.010 <0.010 0.361 0.174 0.050 0.093 <0.010 0.053 0.120 0.160 0.053	53.6 P mgL <0.05 <0.05 <0.05 0.09 0.11 0.09 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	7.8 PO4 mg/L <0.02 <0.02 <0.02 0.03 0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0	Ca mg/L 4.52 6.02 6.40 8.93 9.55 10.60 8.64 9.37 8.28 12.02 13.20 16.35 .11.98	Mg mg/L 1.12 1.49 1.68 0.98 3.05 2.32 0.81 1.50 0.74 1.53 2.23 2.71 1.62	Na mgl. 1.36 2.04 3.49 1.21 2.41 2.26 1.02 1.85 2.76 1.77 16.22 20.82 2.0.82 1.91	K mg/L 0.61 0.76 1.00 0.48 0.34 0.54 0.54 0.54 0.54 0.54 0.53 0.26 0.90 1.93 2.39 0.90	Ci mgL ~ 0.26 0.27 0.35 0.27 1.23 0.70 0.32 0.25 0.50 1.03 1.21 0.25	SO4 mgL 1.52 2.07 1.67 2.22 2.22 2.22 1.32 2.38 0.83 0.12 0.41 0.45 0.04	Si mort 7.20 9.60 2.88 3.54 3.51 2.55 2.83 3.02 4.82 11.55 11.64 4.81
09/15/00 09/15/00 05/19/00 05/19/00 05/19/00 05/30/00 05/30/00 05/30/00 05/30/00 05/30/00 05/15/00 05/15/00 05/15/00 7/25/00 7/25/00 7/25/00 8/18/00 8/18/00	Buckeye @ WRID Site Buckeye below FS Campground Buckeye (N) at 395 Buckeye @ WRID Buckeye below FS Campground Buckeye @ WRID Buckeye @ WRID Buckeye @ WRID Buckeye @ WRID Buckeye at 395 Buckeye below FS Campground Buckeye at 395 Buckeye below FS Campground Buckeye at WRID fence Buckeye below FS Campground Buckeye to River S Campground Buckeye with at 395	5.9 NO3 mg4. <0.010 <0.010 <0.010 <0.010 0.361 0.174 0.053 <0.010 0.053 0.160 0.053 0.039 0.039	53.6 P mgL <0.05 <0.05 <0.05 <0.05 0.09 0.11 0.09 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	7.8 PO4 mg/L <0.02 <0.02 <0.02 0.02 0.02 0.02 0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.0	Ca mgl. 4.52 6.02 6.40 8.93 9.55 10.60 8.64 9.37 8.28 12.02 13.20	Mg mg/L 1.12 1.49 1.68 0.98 3.05 2.32 0.81 1.50 0.74 1.53 2.23 2.71 1.62 2.71	Na mgl. 1.36 2.04 3.49 1.21 2.26 1.02 1.85 2.76 1.77 16.22 20.82 20.82 1.91 12.87	K mg/L 0.61 0.76 1.00 0.48 0.54 0.54 0.54 0.54 0.83 0.26 0.90 1.93 2.39 0.90 1.98	Cl mgL 1 0.26 0.27 0.35 0.27 1.23 0.70 0.27 0.32 0.25 0.50 1.03 1.21 0.25 0.41	SO4 mgL 1.52 1.92 2.07 1.67 2.22 2.22 1.32 2.38 0.83 0.12 0.41 0.45 0.04 0.04	Si mol 7.20 9.60 2.88 3.54 3.51 2.55 2.83 3.02 4.82 11.55 11.64 4.81 6.77
09/15/00 09/15/00 05/19/00 05/19/00 05/19/00 05/30/00 05/30/00 05/30/00 05/30/00 05/30/00 05/15/00 05/15/00 05/15/00 05/15/00 7/25/00 7/25/00 7/25/00 8/18/00 8/18/00	Buckeye @ WRID Site Buckeye below FS Campground Buckeye (N) at 395 Buckeye @ WRID Buckeye below FS Campground Buckeye @WRID Buckeye @WRID Buckeye @WRID Buckeye @WRID Buckeye below FS Campground Buckeye at 395 Buckeye at WRID fence Buckeye at WRID fence Buckeye @WRID Buckeye @WRID fence Buckeye @WRID fence	5.9 NO3 mgL <0.010 <0.010 <0.010 0.0361 0.174 0.053 0.093 <0.010 0.053 0.120 0.053 0.139 (0.039 0.039 (0.039) (0.039) (0.039) (0.039) (0.039) (0.039) (0.039) (0.039) (0.039) (0.039) (0.039) (0.037) (53.6 P mgL <0.05 <0.05 <0.05 0.09 0.11 0.09 <0.05 0.06 0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 0.09 0.09 0.11 0.09 0.05 <0.05 0.09 0.09 0.05 <0.05 0.09 0.09 0.05 0.09 0.05 0.09 0.05 0.05 0.09 0.05 0.09 0.05 0.09 0.05 0.05 0.05 0.09 0.05 0.	7.8 PO4 mg/L <0.02 <0.02 <0.02 0.03 0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0	Ca mg/L 4.52 6.02 6.40 8.93 9.55 10.60 8.64 9.37 8.28 12.02 13.20 13.20 16.35 11.98 13.33 16.35	Mg mg/L 1.12 1.49 1.68 0.98 3.05 2.32 0.81 1.50 0.74 1.53 2.23 2.71 1.62 2.71	Na mgl. 1.36 2.04 3.49 1.21 2.41 2.26 1.02 1.85 2.76 1.77 16.22 20.82 1.91 12.87 18.73	K mgl 0.61 0.76 1.00 0.48 0.34 0.54 0.44 0.83 0.26 0.90 1.93 2.39 0.90 1.98 2.39	Cl mgL 1 0.26 0.27 0.35 0.27 1.23 0.70 0.27 0.32 0.25 0.50 1.03 1.21 0.25 0.41 0.44	SO4 mgL 1.52 1.92 2.07 1.67 2.22 2.38 0.83 0.12 0.41 0.41 0.45 0.045 0.05 0.16	Si mol 7.20 9.60 2.88 3.54 3.51 2.55 2.83 3.02 4.82 11.55 11.64 4.81 1.64 4.81 1.55
09/15/00 09/15/00 05/19/00 05/19/00 05/19/00 05/30/00 05/30/00 05/30/00 05/30/00 05/30/00 05/30/00 05/15/00 06/15/00 7/25/00 7/25/00 7/25/00 8/18/00 8/18/00 09/15/00	Buckeye @ WRID Site Buckeye below FS Campground Buckeye (N) at 395 Buckeye @ WRID Buckeye below FS Campground Buckeye @ WRID Buckeye @ WRID Buckeye @ WRID Buckeye @ WRID Buckeye @ WRID Buckeye at 395 Buckeye at WRID fence Buckeye elow FS Campground Buckeye (N) at 395 Buckeye @ WRID Buckeye @ WRID Buckeye @ WRID Buckeye @ WRID Buckeye @ WRID Buckeye @ WRID	5.9 NO3 mgL <0.010 <0.010 <0.010 0.361 0.174 0.050 0.093 <0.010 0.053 0.120 0.160 0.053 0.120 0.053 0.037 <0.037 <0.010	53.6 P mg1 <0.05 <0.05 <0.05 0.09 <0.05 0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.0	7.8 PO4 mg/L <0.02 <0.02 <0.02 0.03 0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.03 <0.02 <0.03 <0.02 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.03 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0.04 <0	Ca mg/L 4.52 6.02 6.40 8.93 9.55 10.60 8.64 9.37 8.28 12.02 13.20 16.35 11.98 13.33 16.35 5.94	Mg mgh 1.12 1.49 1.68 0.98 3.05 2.32 0.81 1.50 0.74 1.53 2.23 2.71 1.62 2.18 5.2.71 1.62 2.18 5.2.71	Na mgl. 1.36 2.04 3.49 1.21 2.41 2.26 1.02 1.85 2.76 1.77 16.22 20.82 1.91 12.87 18,73 2.50	K mg/L 0.61 0.76 1.00 0.48 0.34 0.54 0.44 0.54 0.90 1.93 2.39 0.90 1.98 2.19 0.30	Cl mgL 0.26 0.27 0.35 0.27 1.23 0.70 0.27 0.32 0.25 0.50 1.03 1.21 0.25 0.41 0.44 0.56	SO4 mgL 1.52 1.92 2.07 1.67 2.22 2.22 1.32 2.38 0.83 0.12 0.41 0.45 0.04 0.045 0.04	Si mg/L 7.20 9.60 2.88 3.54 3.51 2.55 2.83 3.02 4.82 11.55 11.64 4.81 6.77 10.56 9.80
09/15/00 09/15/00 05/19/00 05/19/00 05/19/00 05/30/00 05/30/00 05/30/00 05/30/00 05/30/00 05/15/00 05/15/00 05/15/00 05/15/00 7/25/00 7/25/00 7/25/00 8/18/00 8/18/00	Buckeye @ WRID Site Buckeye below FS Campground Buckeye (N) at 395 Buckeye @ WRID Buckeye below FS Campground Buckeye @WRID Buckeye @WRID Buckeye @WRID Buckeye @WRID Buckeye below FS Campground Buckeye at 395 Buckeye at WRID fence Buckeye at WRID fence Buckeye @WRID Buckeye @WRID fence Buckeye @WRID fence	5.9 NO3 mgL <0.010 <0.010 <0.010 0.0361 0.174 0.053 0.093 <0.010 0.053 0.120 0.053 0.139 (0.039 0.039 (0.039) (0.039) (0.039) (0.039) (0.039) (0.039) (0.039) (0.039) (0.039) (0.039) (0.039) (0.037) (53.6 P mg/L <0.05 <0.05 <0.05 <0.05 0.09 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0	7.8 PO4 mg/L <0.02 <0.02 <0.02 0.03 0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.03 0.02 <0.02 <0.02 <0.02 <0.03 0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.0	Ca mg/L 4.52 6.02 6.40 8.93 9.55 10.60 8.64 9.37 8.28 12.02 13.20 13.20 16.35 11.98 13.33 16.35	Mg mol 1.12 1.49 1.68 0.98 3.05 2.32 0.81 1.50 0.74 1.53 2.23 2.71 1.62 2.71 1.62 2.71 1.62 3.2.71 1.62 3.2.71 1.62 3.36	Na mgl. 1.36 2.04 3.49 1.21 2.41 2.26 1.02 1.85 2.76 1.77 16.22 20.82 1.91 12.87 18.73 2.50 5.14	K mg/L 0.61 0.76 1.00 0.48 0.34 0.54 0.44 0.83 0.96 0.90 1.93 2.39 0.90 1.98 2.19 0.30	Cl mgL 0.26 0.27 0.35 0.27 1.23 0.70 0.27 0.32 0.25 0.50 1.03 1.21 0.25 0.41 0.44 0.56	SO4 mgL 1.52 1.92 2.07 1.67 2.22 2.22 1.32 2.38 0.83 0.12 0.41 0.45 0.04 0.045 0.04	Si mort 7.20 9.60 2.88 3.54 3.51 2.55 2.83 3.02 4.82 11.55 11.64 4.81 6.77 10.56 9.80 16.10

E. WALKER ABOVE & BELOW RESERVOIR

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Date	Site	Discharge cfs(inst)	TEMP F	D.O. mg/L	TSS mg/L	Turbidity Ntu	pН	EC UV	TKN mg/L	NO3-N mg/L	NH4-N mg/L
05/19/00	East Walker above Reservoir	68.0	61.8	9.1	30	3.88	8.4	98.8	1.1	<0.05	0.010
05/19/00	East Walker below Reservoir	165.0	60.3	9.2	55	4.82	8.7	134.9	0.5	0. 05	0.030
05/30/00	East Walker above Reservoir	144.2	52.1	9.2	22	1.69	7.9	109.8	1.3	<0.05	<0.007
05/30/00	East Walker below Reservoir	187.5	5 0.5	8. 9	90	5.18	7.9	163.1	0.6	<0. 05	<0.007
06/16/00	East Walker above Reservoir	146.2	53.8	8.9	26	4.19	7.9	101.9	0.2		<0.007
06/16/00	East Walker below Reservoir	225.0	53.4	8.7	88	5. 02	8.1	144.0	0.4	<0. 05	<0.007
7/25/00	East waiker above Reservoir	32.5	70.0	8.6	16	1.69	7.8	125.7	0.2	<0.05	<0.007
7/25/00	East Walker below Reservoir	252.0	6 9.6	6.7	16	2.39	7.4	130.2	0.6	0.61	<0.007
8/18/00	East Walker above Reservoir	21.0	68.3	9.1	14	3.51	7.9	28.9	0.2		
8/18/00	East Walker below Reservoir	198.0	65.9	7.1	8	0.38	7.8	124.7	0.2	<0.05	0.610
09/15/00	East Walker above Reservoir	14.8	62.2	8.1	56	5.31	7.6	190.9	0.2		
03/15/00	East Walker below Reservoir	214.0	59.4	7.5	56	7.55	8.1	139.7	0.1	<0. 05	0.060

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Date	Site	NO3 (ng/L	P mg/L	PO4 mgfL	Ca mg/L	Mg mg/L	Na mg/L	K mg/L	CI mg/L	so4 mg/L	Si mg1.
05/19/00 05/19/00	East Walker above Reservoir East Walker below Reservoir	<0.010 0. 03 0	<0.05 0.05	<0.02 0.35	21.08 18.22	3.20 4.66	9.07 16.10	2.93 3.38	0.89 2.68	10.63 16.20	19.66 14.90
05/30/00 05/30/00	East Walker above Reservoir East Walker below Reservoir	0.099 <0.010	0.10 0.08	0. 03 0. 02	19.96 30.31	4.07 7.50	5.17 21.83	1.50 3.70	1.04 3.63	7.67 18.45	7.12 7.38
06/15/00 06/15/00	East Walker above Reservoir East Walker below Reservoir	0.032 0.030	0.06 <0.05	0.03 0.06		3.07 5.55	4.23 21.33	1.73 4.50	0.53 1.98	6.44 3.80	7.99 15.20
7/25/00 7/25/00	East walker above Reservoir East Walker below Reservoir	<0.010 0.028	<0.05 0.13	0. 04 0. 05		3.85 3.69		2.08 2. 20	0.57 0. 57	0.16 0.23	11.54 7.71
8/18/00 8/18/00	East Walker above Reservoir East Walker below Reservoir	<0.010 0.171	0.08 0.12	0.05 0. 10		3.88 3.91	10.21 12.35	1.69 2.61	1.87	7.40	22.10 13.10
09/15/00 09/15/00	East Walker above Reservoir East Walker below Reservoir	<0.010 0.044	<0.05 <0.05	<0. 02 0. 09	22.88 18.22	3.39 4.66		2.03 3.38		10. 13 16. 20	22.36 14.90

HIGH LAKES, JULY-AUGUST

Date	Site	Discharge cfs(inst)	TEMP F	D.O. mg/L	TSS mg/L	Turbidity Ntu	рĤ	EC UV	TKN mg/L	NO3-N mg/L	NH4-N mg/L
/10/00	Blue Lake Outlet	7.2	55.2	9,1	- 4	0.55	7.2	54.7	0.1	<0.05	0.020
/18/00	Blue Lake Outlet	6.9	56.3	8.4	12	0.16	6.7	19.5	0.2	<0.05	0.020
/10/00	Bonnie Lake Outlet	6.2	58,6	12.2	6	0.63	6.5	4.4	0.2	<0.05	0.016
/18/00	Bonnie Lake Outlet	<1	62.1	11.4	16	0.20	6.1	0.4	0.4	<0.05	0.016
/10/00	Chain o Lakes	n/a	67.1	6.8	14	1.99	6.7	18.7	0.2 0.3	<0.05 <0.05	0.028
/18/00	Chain o Lakes	rva	66.0	9.1	15	0.22	6.4	9.5			0.020
//10/00	Cooney Lake Outlet	6.0	56.9	10.9	6	0.55	6.8	64.7	0.5 0.2	<0.05 <0.05	<0.007
118/00	Cooney Lake Outlet	4.0	57.4	8.2	16	0.29	6.7	54.1			<0.007
//10/00	Crown Lake Injet	12.0	49.6	12.5	4	0.57	6.6	4.7	0.6	0.07	0.010
/10/00	Crown Lake Outlet	16.5	52.0	10.5	6	0.94	6.7	5.4	0.2	<0.05	0.064
8/18/00	Crown Lake Inlet	2.1	54.0	6.6	7	0.13	5.9	1.3	0.2	<0.05 <0.05	<0.007
3/18/00	Crown Lake Outlet	3.1	59.9	7:1	5		6.1	3.9			0.020
7/10/00	East Lake	12.0	55.9	11.2	8		7.0	42.9	0.2	<0.05 <0.05	<0.007
3/18/00	East Lake	7.5	56.5	11.7	.8		6,4	31.5	0.3		
7/10/00	Fremont Lake Trail	Na	69.2	9.3	6		7,0	20.2	0.4	<0.05	0.071
3/18/00	Fremont Lake Trail	n/a	67.0	11.0	7		6.2	15.3	0.2		0.020
7/10/00	Fremont Lake Tule	rva	69.1	9.4	14		6,5	20.0	0.2	<0.05	
B/18/00	Fremont Lake Tule	n/a	67.1	11.2	9		7.1	16.9	0.3		0.014
7/10/00	Frog Lake Outlet	5.3	-11.5	55.2	14	0.85	6.9	71.2	0,1	< 0.05	0.000
B/18/00	Frog Lake Outlet	3.0	53.8	10.1	9		6.6	47.5	0.3	⊲.05	<0.007
7/10/00	Giman Lake Outlet	11.5	57.0	11.8	6		7.0	42.2	0.2	<0.05	0.014
B/18/00	Gilman Lake Outlet	6.0	59.0	12.4	. g		6.5	6.8	0.3		
7/10/00	Harriet Lake	8.0	58.6	11.0	e		7.0	5.7	0.2	<0.05	
7/10/00 B/18/00	Harriet Lake	6.0	12.6		9		6.7	0.6	0.3	<0.05	
7/10/00	Helen Lake Outlet	4.9	58.8				6.5	5.9	0.3	<0.05	0.015
7/10/00 8/18/00	Helen Lake Outlet	1.8	58.6		e		6.1	3.1	0.2		
7/10/00	Hoover (Lower) Laige Outlet	12.0	52.9			0.83	6.9	42.8	0.3	0.00	
8/18/00	Hoover (Lower) Lake Outlet	9.0	54.3		7		6.6	22.2	0.2		
7/10/00	Long Lake (Upper)	0.0	70.3				6.8	11.3	0.2	<0.0	0.076
8/18/00	Long Lake (Upper)	n/a	66.4		10		6.0	5.3	0.3		
7/10/00	Peeler at Ranchena	1.0	55.8		10			4.9	0.	<0.0	
B/18/00	Peeler at Rancheria	4	59.0					3.3		< .0.0	
	Pecier at Robinson Outlet	6.0	56.5			4 0.64		1.5		2 <0.0	
7/10/00 8/18/00	Peeler at Robinson Outlet	1.8	59.1			0.26		2.0			
	Robinson Lake Lower Outlet	8.2	56.0		1			5.9		-	
7/10/00	Robinson Lake Lower Outlet	4.0	.58.6			9 0.43		1.5			
8/18/00		3.0				6 0.90					
7/10/00	Robinson Lake Upper Outlet Robinson Lake Upper Outlet	2.0	57.7		1						
8/18/00					1						0.020
7/10/00	Roosevelt Lake outlet	8.0 n/a	69.0		1						
8/18/00	Rooseveit Lake outlet										
7/10/00	Ruth Lake Outlet	2.2 n/a	59. 61.			4 2.90 7 0.23					
8/18/00	Ruth Lake Outlet									-	- 0.010
7/10/00	Snow Lake Outlet	2.0									
8/18/00	Snow Lake Outlet	1.0							1		
7/10/00	Stella Lake Outlet	2.5				6 1.61					
8/18/00	Stella Lake Outlet	n/a				6 0.19					
7/10/00	Summit Lake Outlet	4.1	57.	1 11.4)	8 1:0:	3 6.8		· · · ·		
B/18/00	Summit Lake Outlet	2.2	56.	1 11.7	1 1	0 0.58	6.4	11.0	s 0.	3 ⊲0.0	5 <0.007
7/10/00	Tower Lake Outlet	6.6				2 0.6	2 6.5	6.4			
8/18/00	Tower Lake Outlet	3.6				6 0.2			1 0.	2 <0.0	5 0.010
7/10/00	Trumbul Lake Outlet	1.4	a construction of the second	-		6 1.0		36.	5 1	.0 <0.0	5 <0.007
8/18/00	Trumbull Lake Outlet	0.5				2 2.8					
		8.1				8 0.8				2 <0.0	
7/10/00	Virginia Lake Upper Outlet Virginia Lake Upper Outlet	a. 4.5				9 0.6				3 <0.0	

Table 2: All results by date.

Date Site Name

05/19/00	DATE	Discharge (TEMP	D.O. mg/L	TSS mg/L	Turbidity Ntu	PH	EC UV	TKN	NO3-N mgl	NH4-N mgA
Bamey Lake Inlet	05/19/00	48.0	38.9	9.2	8	0,45	7.3	4.0	0.9	< 0.05	0.010
Barney Lake Outlet	05/19/00	46.7	43.1	9.1	8	1,91	7.6	6.2	1.1	<0.05	0.007
Buckeye above Big Meadows	05/18/00	80.0	50.1	9.3	26	8.32	7.9	11.1	0.7	<0.05	0.008
Buckeye below Big Meadows	05/18/00	83.2	51.5	9.3	34	1.80	7.5	17.3	0.6	<0.05	<0.007
Buckeye above FS Campground	05/19/00	102.9	52.2	9.2	58	4,78	7.5	23.8	0.8	<0.05	<0.007
Buckeye below FS Campground	05/19/00	132.8	51.7	9.8	52	4.01	7.7	17.4	0.5	<0.05	<0.007
Buckeye (N) at 395	05/19/00	60.0	57.2	9.4	36	3.28	7.6	25.6	0.4	<0.05	0.010
Buckeye @ WRID	05/18/00	62.2	56.2	9.4	44	5.09	7.5	51.5	0.4	<0.05	0.010
Eagle Ck US	05/18/00							•			
Engle Ck DS	05/18/00		•	•			•	•	•	-	-
East Walker above Reservor	05/19/00	68.0	61.8	9.1	30	3.88	8.4	98.6	1.1	<0.05	0.010
East Walker below Reservoir	05/19/00	165.0	60.3	9.2	55	4.82	8.7	134.9	0.5	0.05	0.030
Green Lake inlet	05/19/00	6.0	48.1	10.1	18	0.79	7.4	8.7	0.4	<0.05	0.008
Green Lake Outlet	05/18/00	27.0	40.3	10.2	20	1.93	7.3	23.9	0.4	<0.05	0.051
Green above FS Campground	45/18/00	89.6	44.3	9.8	22	2.01	7.4	33.3	0.6	<0.05	0.023
Green below FS Campground	05/19/00	69.6	44.6	9.6	18	0.65	7.5	24.3	3.0	<0.05	0.025
Green at guage	05/18/00	115.2	46.7	3.6 9.6	22	1.38	7.9	30.6	0.5	+	0.007
Horse Creek at Twin Lakes	05/18/00	22.9	41.2	9.2	18	1.12	7.5	18.5	0.9		<0.007
Robinson above Twin Lakes	05/18/00	70.0	45.6	9.1	18	0.68	7.5	11.3	1.2		<0.007
Robinson at guage	05/18/00	125.2	45.4	9.0	18	0.63	5,1	28.0	0.5		0.007
Robinson @ Doc & Al	05/18/00	130.1	47.8	8.9	18	1.30	8.2	35.6	0.4	<0.05	0.007
Robinson (N) at 395	05/18/00	42.7	49.9	8,9	24	2.58	7.7	36.7	0.4	<0.05	0.007
Robinson @ WRID fence	05/18/00	40.0	51.2	9,1	24	2.84	8.2	34.9	0.9	<0.05	<0.007
Sauger @ Campground	05/18/00	21.3	45,7	8.9	34	3.23	. 8.3	55,5	0.6	<0.05	<0.007
Sauger below FS Compound	05/19/00	20.2	45,7	8.9	54	4.15	6.2	93.6	0.6	<0.05	<0.007
05/19/00	DATE	NO3	P mgt	PO4 mgt	Ca m gi	Mg	Na	K mgil	Ci mgl.	SO4 mg1_	SI mgiL
05/19/00 Barney Laks Inlet	DATE 05/19/00					mgi.					
		mgt.	ngt. 0.11 0.08	mg#_	7,33	mgt.	mgt	mpl	mpl	mgt_	mgl
Barney Lake Inlet	05/19/00	mgt. 0.215	ngt. 0.11 0.08 <0.05	mgt. <0.02	7,33 6.08	mgt. 1.34 0.40	0.87	mpt. 0.13	mgt. 0.54 0.28 0.31	mgl. 0.50 0.25 0.76	mgL 1.21 1.07 1.65
Barney Lake Inlet Barney Lake Outlet	05/19/00 05/19/00	mgit. 0.215 0.059 <0.010 0.075	mgt. 0.11 0.05 <0.05 <0.05	mg#_ <0.02 0.05 <0.02 <0.02	7.33 6.08 6.44 7.74	mgt. 1.34 0.40 0.63 0.65	ngt. 0.87 0.74 1.01 0.87	0,13 0,19 0,34 0,34	mpt. 0.54 0.28 0.31 0.17	mgfL 0.50 0.25 0.76 0.85	ngL 1.21 1.07 1.66 1.83
Barney Laks inlet Barney Laks Outlet Buckeye above Big Meadowa Buckeye below Big Meadowa Buckeye above FS Campground	05/19/00 05/19/00 05/19/00 05/19/00 05/19/00	0.215 0.059 <0.010 0.075 0.042	ngt. 0.11 0.05 <0.05 <0.05 <0.05	mgt. <0.02 0.05 <0.02 <0.02 <0.02 <0.02	7,33 6,08 6,44 7,74 8,99	mgiL 1.34 0.40 0.63 0.65 0.94	0.87 0.74 1.01 0.87 1.17	0.13 0.19 0.34 0.34 0.50	mgt. 0.54 0.28 0.31 0.17 0.24	mg4. 0,50 0,25 0,76 0,85 1,27	ngL 1.21 1.07 1.68 1.83 2.27
Barney Lake Inlet Barney Lake Cutlet Buckeye above Big Meadowa Buckeye above FS Campground Buckeye above FS Campground Buckeye below FS Campground	05/19/00 05/19/00 05/19/00 05/18/00 05/18/00 05/18/00	894 0.215 0.059 <0.010 0.075 0.042 <0.010	0.11 0.05 <0.05 <0.05 <0.05 <0.05 <0.05	mgL <0.02 0.05 <0.02 <0.02 <0.02 <0.02 <0.02	7,33 6,08 6,44 7,74 8,99 4,52	mgit. 1.34 0.40 0.63 0.65 0.94 1.12	0.87 0.74 1.01 0.87 1.17 1.36	0,13 0,19 0,34 0,34 0,34 0,50 0,61	0.54 0.28 0.31 0.17 0.24 0.26	mgl. 0.50 0.25 0.76 0.88 1.27 1.52	ngL 1.21 1.07 1.65 1.83 2.27 7.20
Barney Lake Inlet Barney Lake Outlet Buckeye shove Big Meadowa Buckeye shove Big Meadowa Buckeye below FS Campground Buckeye below FS Campground Buckeye (N) at 395	05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00	MgL 0.215 0.059 <0.010 0.075 0.042 <0.010 <0.010	0.11 0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05		7,33 6,08 6,44 7,74 8,99 4,52 6,02	mgit. 1.34 0.40 0.63 0.65 0.94 1.12 1.49	0.87 0.74 1.01 0.87 1.17 1.36 2.04	0,13 0,19 0,34 0,24 0,50 0,61 0,76	0.54 0.28 0.31 0.17 0.24 0.26 0.27	mgl. 0.50 0.25 0.76 0.85 1.27 1.52 1.92	ngl 1.21 1.07 1.65 1.83 2.27 7.20 9.20
Barney Lake Inlet Barney Lake Outlet Bucksye above Big Meadowa Bucksye above FS Campground Bucksye below FS Campground Bucksye (N) at 395 Bucksye (VRID	05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00	894 0.215 0.059 <0.010 0.075 0.042 <0.010	0.11 0.05 <0.05 <0.05 <0.05 <0.05 <0.05	mgL <0.02 0.05 <0.02 <0.02 <0.02 <0.02 <0.02	7,33 6,08 6,44 7,74 8,99 4,52 6,02	mgit. 1.34 0.40 0.63 0.65 0.94 1.12 1.49	0.87 0.74 1.01 0.87 1.17 1.36 2.04	0,13 0,19 0,34 0,34 0,34 0,50 0,61	0.54 0.28 0.31 0.17 0.24 0.26 0.27	mgl. 0.50 0.25 0.76 0.85 1.27 1.52 1.92	ngl 1.21 1.07 1.65 1.83 2.27 7.20 9.20
Barney Lake Inlet Barney Lake Cutlet Buckeye above Big Meadowa Buckeye above FS Campground Buckeye below FS Campground Buckeye (N) at 395 Buckeye (Q WRID Eagle Ck US	05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00	MgL 0.215 0.059 <0.010 0.075 0.042 <0.010 <0.010	0.11 0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05		7,33 6,08 6,44 7,74 8,99 4,52 6,02	mgit. 1.34 0.40 0.63 0.65 0.94 1.12 1.49	0.87 0.74 1.01 0.87 1.17 1.36 2.04	0,13 0,19 0,34 0,24 0,50 0,61 0,76	0.54 0.28 0.31 0.17 0.24 0.26 0.27	mgl. 0.50 0.25 0.76 0.85 1.27 1.52 1.92	ngl 1.21 1.07 1.65 1.83 2.27 7.20 9.20
Barney Lake Inlet Barney Lake Outlet Buckeye above Big Meadowa Buckeye above Big Meadowa Buckeye below FS Campground Buckeye below FS Campground Buckeye Below FS Campground Buckeye Q VIRID Engle CK US Engle CK US	05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00	0.215 0.059 <0.010 0.075 0.042 <0.010 <0.010 <0.010	mg4. 0.11 0.08 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05		mgt 7.33 6.08 6.44 7.74 8.99 4.52 6.02 6.40	mgi. 1.34 0.40 0.63 0.65 0.94 1.12 1.49 1.68	7494 0.87 0.74 1.01 0.87 1.17 1.36 2.04 3.49	mgt 0,13 0,19 0,34 0,34 0,50 0,61 0,76 1,00	mgt. 0.54 0.28 0.31 0.17 0.24 0.26 0.27 0.35	mgL 0.50 0.25 0.76 0.86 1.27 1.52 1.92 2.07	ngL 1.21 1.07 1.66 1.83 2.27 7.20 9.20 9.20 9.60
Barney Lake Inlet Barney Lake Outlet Buckeye above Big Meadowa Buckeye above Big Meadowa Buckeye above FS Campground Buckeye below FS Campground Buckeye (N) at 335 Buckeye (N) At 335 B	05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00	mge. 0.215 0.059 <0.010 0.075 0.042 <0.010 <0.010 <0.010 <0.010	0.11 0.08 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05		mgt 7.33 6.08 6.44 7.74 8.99 4.52 6.02 6.40 6.40	mgi. 1.34 0.40 0.63 0.94 1.12 1.49 1.68 3.320	mgt. 0.87 0.74 1.01 0.87 1.17 1.36 2.04 3.49 9.07	mgt 0,13 0,19 0,34 0,34 0,50 0,61 0,76 1,00 2,93	mgt. 0.54 0.28 0.31 0.17 0.24 0.26 0.27 0.35 0.89	mgL 0.50 0.25 0.76 0.86 1.27 1.52 1.92 2.07 10.63	ngt 1.21 1.07 1.68 1.83 2.27 7.20 9.20 9.60 9.60
Barney Lake Inlet Barney Lake Cutlet Buckeye above Big Meadowa Buckeye above FS Campground Buckeye below FS Campground Buckeye below FS Campground Buckeye (N) at 395 Backeye Q WRID Eagle Ck US Eagle Ck US East Walker above Reservoir East Walker below Reservoir	05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00	- mge 0.215 0.059 <0.010 0.075 0.042 <0.010 <0.010 <0.010 <0.010 <0.010	0.11 0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05		7,33 6,08 6,44 7,74 8,99 4,52 6,00 6,40 6,40 21,08 18,22	mgi. 1.34 0.63 0.65 0.94 1.12 1.49 1.68 3.320 2.4.68	mg4. 0.87 0.74 1.01 1.17 1.36 2.04 3.49 9.07 15.10	mgt. 0,13 0,34 0,34 0,50 0,50 0,51 0,56 1,00 2,93 3,30	mgt. 0.54 0.28 0.31 0.17 0.24 0.26 0.27 0.35 0.27 0.35 0.89 0.89 0.89	mgL 0.50 0.25 0.76 0.85 1.27 1.52 1.92 2.07 10.63 15.20	mgL 1.21 1.07 1.68 1.83 2.27 7.20 9.20 9.60 9.60 9.60 19.66 14.90
Barney Lake Inlet Barney Lake Outlet Buckeye above Big Meadowa Buckeye above Big Meadowa Buckeye above FS Campground Buckeye below FS Campground Buckeye (M) at 395 Buckeye (W) at 395 B	05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00	mge. 0.215 0.059 <0.010 0.075 0.042 <0.010 <0.010 <0.010 <0.010 0.030 <0.010	mg/L 0.11 0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	mgL <0.02 0.05 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <02 <02 <02 <02 <02 <02 <00	7,33 6,08 5,44 7,74 8,99 4,52 6,00 6,40 6,40 18,22 18,22 7,97	mgit 1.34 0.40 0.63 0.65 0.94 1.12 1.49 1.68 3.320 2.4.68 7.0.42	mg4 0.87 0.74 1.01 0.87 1.17 1.36 2.04 3.49 9.07 16.10 1.25	mgt. 0.13 0.19 0.34 0.34 0.34 0.34 0.35 1.00 2.93 3.38 0.46	mgt. 0.54 0.28 0.31 0.17 0.24 0.26 0.27 0.35 0.23 0.89 2.88 0.23	mgL 0.50 0.25 0.76 1.27 1.52 1.92 2.07 10.63 16.20 3.76	ngt 1.21 1.07 1.68 1.63 2.27 7.20 9.20 9.20 9.60
Barney Lake Inlet Barney Lake Outlet Buckeye shove Big Meadowa Buckeye shove Big Meadowa Buckeye below FS Campground Buckeye Below FS Campgrou	05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00	- 0.215 0.059 -0.010 0.075 0.042 -0.010 -0.010 -0.010 -0.010 -0.010 0.030 -0.010 0.030 -0.010 0.030	mg4 0.11 0.08 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	*0.02 0.05 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.03 <0.03 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <	mgt 7,33 6,04 7,74 8,99 4,52 6,02 6,40 7,74 8,29 4,52 6,02 6,40 7,74 18,22 7,97 11,35	mgi 1.34 0.40 0.63 0.65 0.94 1.12 1.49 1.68 3.320 2.4.68 7.0.42 5.0.50	744 0.87 0.74 1.01 0.87 1.17 1.36 2.04 3.49 9.07 15.10 1.25 1.49	mgt. 0,13 0,19 0,34 0,34 0,50 0,61 0,76 1,00 2,93 3,38 0,46 0,89	mgt. 0.54 0.28 0.31 0.27 0.24 0.26 0.27 0.35 0.89 2.88 0.23 0.54	mgt. 0.50 0.25 0.76 1.27 1.52 1.92 2.07 10.63 15.20 3.76 11.23	ngt. 1.21 1.07 1.68 1.83 2.27 7.20 9.60 9.60 19.66 14.90 3.00 1.97
Barney Lake Inlet Barney Lake Cutlet Buckeye above Big Meadowa Buckeye above FS Campground Buckeye bolow FS Campground Buckeye (N) at 395 Buckeye	05/19/00 06/19/00 06/19/00 05/19/00 05/19/00 06/19/00 06/19/00 06/19/00 06/19/00 06/19/00	• • • • • • • • • • • • • • • • •	mgt 0.11 0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	mgL <0.02 0.05 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0	7,33 6,04 6,44 7,74 8,99 4,52 6,00 6,40 	1.34 0.40 0.63 0.65 0.94 1.12 1.49 1.68 3.320 2.4.66 7.0.42 5.0.50	0.87 0.74 1.01 0.87 1.17 1.36 2.04 3.49 9.07 16.10 1.25 1.49 1.26	mgt. 0.13 0.34 0.34 0.50 0.51 0.76 1.00 2.93 3.38 0.46 0.89 0.63	mgA 0.54 0.28 0.31 0.27 0.26 0.27 0.35 0.27 0.35 0.23 0.54 0.23 0.54 0.23	mgt. 0.50 0.25 0.66 1.27 1.52 2.07 10.63 18.20 3.76 11.23 8.92	ngt. 1.21 1.07 1.68 1.83 2.27 7.20 9.60 9.20 9.60 19.66 14.90 3.00 1.97 2.26
Barney Lake Inlet Barney Lake Outlet Buckeye above Big Meadowa Buckeye above Big Meadowa Buckeye above FS Campground Buckeye below FS Campground Buckeye (N) at 395 Buckeye (2) WRID Eagle Ck US Eagle Ck US Eagle Ck US Eagle Ck US Eagle Ck US East Walker below Reservoir Green Lake Inlet Green Lake Utlet Green Lake Campground Green below FS Campground	05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00	C.215 C.255 C.255 C.059 C.010 C.014	mgL 0.11 0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	mgL <0.02 <0.05 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.	7.33 6.08 6.44 7.74 8.99 4.52 6.00 6.40 7.74 8.99 4.52 6.00 7.74 18.22 7.93 11.32 10.77 10.51	1.34 0.40 0.63 0.65 0.94 1.12 1.49 1.68 3.320 2.4.68 7.0.42 5.0.50 0.41	ngt. 0.87 0.74 1.01 0.87 1.05 2.04 3.49 9.07 16.10 1.25 1.49 1.25 1.23	mgL 0.13 0.34 0.34 0.50 0.51 0.76 1.00 2.93 3.30 0.46 0.89 0.63 0.48	mgL 0.54 0.22 0.31 0.17 0.26 0.27 0.25 0.27 0.35 0.85 0.22 0.54 0.35 0.54 0.32	mgL 0.50 0.25 0.766 1.27 1.52 1.922 2.07 10.65 15.20 3.76 11.23 3.76 11.23 8.692 8.55	ngt 1.21 1.07 1.68 1.83 2.27 7.20 9.20 9.20 9.60 9.60 19.66 14.90 3.00 1.97 2.26 2.34
Barney Lake Inlet Barney Lake Outlet Buckeye above Big Meadowa Buckeye above Big Meadowa Buckeye below FS Campground Buckeye below FS Campground Buckeye Below FS Campground Buckeye Q WRID Eagle CL US Eagle CL OS East Walker above Reservoir Green Lake Inlet Green Lake Inlet Green Lake Inlet Green Lake Cutlet Green above FS Campground Green at guage	05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00	0.215 0.059 0.059 0.075 0.042 0.010 0.070 0.010 0.030 0.030 0.074 0.074 0.074 0.073	mgt. 0.11 0.08 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05	mgL <0.02 0.05 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.0	mpi 7.33 6.08 5.44 7.74 8.99 4.55 6.02 6.02 6.40 5.4 6.02 6.40 6.40 6.40 6.40 6.40 6.40 6.40 6.40	mpi. 1.34 0.400 0.65 0.94 1.12 1.49 1.68 3.200 2.4.68 7.0.42 5.0.50 5.0.41 0.446 0.446 2.0.455 0.50	894 0.87 0.74 1.01 0.87 1.36 2.04 3.49 9.07 16.10 1.25 1.49 1.25 1.49 1.25 1.22 1.37	mpt. 0.13 0.34 0.34 0.50 0.61 1.00 2.93 3.36 0.46 0.65 0.65 0.65 0.65	mgL 0.54 0.22 0.31 0.17 0.24 0.26 0.27 0.35 0.88 0.22 0.88 0.22 0.54 0.22 0.54 0.22 0.54 0.22 0.22	994 0.50 0.25 0.76 0.88 1.27 1.52 2.07 10.63 15.20 3.76 11.23 8.52 8.52 8.52	ngt. 1.21 1.07 1.68 1.83 2.27 7.20 9.20 9.60 9.60 19.66 14.90 3.00 1.97 2.26 2.34 2.34
Barney Lake Inlet Barney Lake Outlet Bucksys above Big Meadowa Bucksys above Big Meadowa Bucksys above FS Campground Bucksys below FS Campground Bucksys (N) at 395 Bucksys (Q) WRID Eagle CK US Eagle CK US Eagle CK DS East Walker above Reservoir Green Lake Inlet Green Lake Outlet Green below FS Campground Green below FS Campground Green below FS Campground Green below FS Campground Green to guage Horse Creek at Twin Lakes	05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00	mgt 0.215 0.059 0.010 0.075 0.042 <0.010 <0.010 <0.010 0.030 0.030 0.074 0.074 0.038	mgt 0.11 0.08 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 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Barney Lake Inlet Barney Lake Cutlet Buckeye above Big Meadowa Buckeye above Big Meadowa Buckeye obiow FS Campground Buckeye below FS Campground Buckeye (N) at 305 Buckeye (Q) WRID Eagle CK US Eagle CK US Eagle CK US East Walker below Reservoir Green Lake thiet Green Lake thiet Green Lake Utilet Green Lake Utilet Green Lake Utilet Green Lake Twin Lakes Robinson above Twin Lakes	05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00	• • • • • • • • • • • • • • • • •	mgt 0.11 0.08 <0.05 <0.05 <0.05 <0.05 <0.05 0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 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Barney Lake Inlet Barney Lake Outlet Buckeye above Big Meadowa Buckeye above Big Meadowa Buckeye above FS Campground Buckeye below FS Campground Buckeye (N) at 395 Buckeye (V Nit) Eagle Ck US Eagle Ck US Eagle Ck US East Walker above Reservoir Green Lake Inlet Green Lake Inlet Green Lake Cutlet Green Lake Cutlet Green Lake Cutlet Green above FS Campground Green at guage Horse Creek at Twin Lakes Robinson at guage	05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00	C.215 C.215 C.25 C.25	mgL 0.11 0.08 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 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Barney Lake Inlet Barney Lake Outlet Bucksye above Big Meadowa Bucksye above Big Meadowa Bucksye bolow FS Campground Bucksye below FS Campground Bucksye below FS Campground Bucksye Q WRID Eagle CK US Eagle CK US East Walker below Reservoir Green Lake Outlet Green Lake Outlet Green Lake Outlet Green above FS Campground Green a guage Horse Crock at Twin Lakes Robinson above Twin Lakes Robinson at guage	05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00	mgt 0.215 0.059 0.010 0.075 0.042 <0.010 <0.010 <0.010 0.030 0.030 0.044 0.074 0.074 0.073 0.358 0.063 <0.050 <0.010	mpt 0.11 0.08 0.05 0.05 0.05 0.05 0.05 0.05 0.05	mgL <0.02	mpi. 7,33 6,000 6,44 7,74 8,959 4,52 6,40 6,44 7,74 18,22 7,57 11,13 2,10,76 10,85 1	mpi. 1.34 0.40 0.53 0.65 0.65 0.65 1.12 1.49 1	894 0.87 0.74 1.01 0.87 1.17 1.36 2.04 3.49 9.07 16.10 1.25 1.49 1.25 1.49 1.25 1.23 1.37 1.37 1.25 1.23 1.23 1.25 1.23 1.25 1.23 1.25 1.23 1.25 1.23 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25	mpt. 0.13 0.19 0.34 0.50 0.61 1.00 2.035 3.36 0.46 0.48 0.48 0.45 0.45 0.45 0.55 0.55 0.55 0.55 0.55	mgt. 0.54 0.22 0.31 0.27 0.35 0.27 0.35 0.27 0.35 0.22 0.55 0.22 0.55 0.22 0.55 0.22 0.55 0.22 0.55 0.22 0.55 0.22 0.54 0.23 0.54 0.22 0.25 0.22 0.25 0.22 0.25 0.22 0.25 0.25	994 0.50 0.25 0.76 0.68 1.27 1.52 2.07 1.52 2.07 10.63 15.20 10.63 11.23 8.58 8.58 8.58 8.58 8.58 8.58 8.58 8.5	ngt 1.21 1.07 1.68 1.83 2.27 7.20 9.20 9.20 9.20 9.20 9.60 19.66 14.90 1.97 2.25 2.34 2.31 1.85 2.42 5.12 2.34
Barney Lake Inlet Barney Lake Cutlet Buckaye above Big Meadowa Buckaye above Big Meadowa Buckaye obiow FS Campground Buckaye below FS Campground Buckaye (N) at 395 Base CK US Eagle CK US Eagle CK US East Walker above Reservoir East Walker below Reservoir Green Lake Utlet Green Lake Utlet Green Lake Utlet Green Lake Vitlet Green Lake Vitlet Green above FS Campground Green at guage Horse Creek at Twin Lakas Robinson above Twin Lakas Robinson at guage Robinson (N) at 335	05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00	• • • • • • • • • • • • • • • • •	mpt 0.11 0.08 0.05 0.05 0.05 0.05 0.05 0.05 0.05	mpL <0.02 0.052 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.	mpi 7,33 6,00 6,44 7,74 8,99 4,55 6,00 6,00 10,57 11,57 10,57 11,	mpi. 1.34 0.40 0.65 0.65 0.65 1.12 1.49 1	ngt 0.87 0.741 1.057 1.17 1.36 2.04 3.49 9.07 16.10 1.25 1.49 1.25 1.23 1.25 1.23 1.23 1.25 1.23 1.25 1.23 1.25 1.23 1.25 1.23 1.25 1.23 1.25 1.23 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25	mpt. 0.13 0.19 0.34 0.50 0.51 0.55 1.00 2.93 3.35 0.46 0.89 0.65 0.48 0.52 0.33 0.48 0.55 0.55 0.55 0.55	mgt. 0.54 0.22 0.31 0.77 0.24 0.27 0.27 0.35 0.89 2.88 0.23 0.22 0.22 0.22 0.22 0.22 0.22 0.22	MpL 0.50 0.756 0.766 0.807 1.622 1.522 1.922 10.633 11.523 1.924 1.925 1.925 8.588 5 7.035 2.077 0.859 4.923 3.340	ngt 1.21 1.07 1.68 1.83 2.27 7.20 9.20 9.60 9.20 9.60 19.66 14.90 3.00 1.97 2.26 2.34 2.34 2.34 2.34 2.34 2.34 2.34 2.34
Barney Lake Inlet Barney Lake Outlet Buckeye above Big Meadowa Buckeye above Big Meadowa Buckeye above FS Campground Buckeye below FS Campground Buckeye (N) at 395 Buckeye (Q VRID) Eagle Ck US Eagle Ck US East Walker below Reservoir Green Lake Inlet Green Lake Inlet Green Lake Utilet Green Lake Citlet Green Lake Citlet Green above FS Campground Green at guage Horse Creek at Twin Lakes Robinson at guage Robinson at guage Robinson (Q Doc & Al Robinson (Q Doc & Al Robinson (Q WRID ferice	05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00	C.215 C.215 C.255 C.059 C.010 C.010 C.010 C.010 C.010 C.010 C.010 C.010 C.020 C.020 C.020 C.074	mgt 0.11 0.08 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 <0.05 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Barney Lake Inlet Barney Lake Cutlet Buckeye above Big Meadowa Buckeye above Big Meadowa Buckeye above FS Campground Buckeye below FS Campground Buckeye (N) at 305 Bagle Ck US Eagle Ck US Eagle Ck US East Walker above Reservoir East Walker below Reservoir Green Lake Utlet Green above FS Campground Green above FS Campground Green above FS Campground Green at guage Horse Crieke at Twin Lakes Robinson above Twin Lakes Robinson (N) at 395	05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00 05/19/00	• • • • • • • • • • • • • • • • •	mpt 0.11 0.08 0.05 0.05 0.05 0.05 0.05 0.05 0.05	mpL <0.02 0.052 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.	mpi 7.33 6.08 5.44 7.74 8.99 4.55 6.02 6.40 6.40 6.40 6.40 6.40 6.40 6.40 6.40	mpi. 1.34 0.40 0.53 0.65 0.94 1.12 1.49 1.49 1.49 1.68 3.20 2.4.68 3.20 2.4.68 3.20 5.0.41 0.40 5.0.55 0.41 0.40 5.0.55 0.41 0.40 5.0.55 0.41 0.40 5.0.55 0.41 0.40 5.0.55 0.41 0.40 5.0.55 0.41 0.40 5.0.55 0.41 0.42	0.87 0.74 1.01 0.87 1.17 1.36 2.04 3.49 9.07 16.10 1.25 1.49 1.25 1.49 1.25 1.23 1.37 0.64 4 1.00 2.05 2.16 2.93 9.90	mpt. 0.13 0.34 0.34 0.50 0.61 0.76 1.00 2.93 3.36 0.45 0.65 0.65 0.65 0.65 0.65 0.65 0.65 0.6	mgL 0.54 0.22 0.31 0.77 0.24 0.26 0.27 0.35 0.89 2.88 0.22 0.54 0.54 0.54 0.22 0.54 0.22 0.35 0.22 0.35 0	MgL 0.50 0.25 0.76 0.88 1.27 1.52 1.92 2.07 10.63 15.20 3.76 1.23 8.52 7.93 8.52 9.85 3.34 3.366 4.25 4.26 3.66 4.22	1.21 1.21 1.07 1.68 1.83 2.27 7.20 9.20 9.60 9.60 9.60 19.66 19.66 14.90 3.00 1.97 2.26 2.34 2.31 1.85 2.42 5.12 5.12 5.12 5.12 5.12 5.12 5.12 5.1

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Barney Lake Inlet Barney Lake Outlet Buckeye above Big Meadows Buckeye above Big Meadows Buckeye above FS Campgrour Buckeye above FS Campgrour Buckeye (WRID Eagle CK US Eagle CK US Eagle CK US Eagle CK US East Walker above Reservoir Green Lake Inlet Green Lake Inlet Green Lake Outlet Green Lake Scampground Green tig uage Horse Creek at Twin Lakes Robinson & Doc & Al Robinson & Doc & Al Robinson (N) at 335 Robinson @ Oc & Al Robinson (N) at 335 Robinson @ WRID fence Sauger @ Campground Sauger below FS Compound USGS Buckeye @ 335 6/6 USGS Sauger 6/8

DATE	Discharge	TEMP	D. O .	TSS	Turbidity	рH	50	TKN	NO3-N	NH4
	cfs(inst)	F	mg/l	mg/t	ntu		٧V	ppm	ppm	mg/
08/15/00	86.0	41.2	9.3	24	1.68	7.6	36.6	0.2	<0.05	<0.00
06/15/00	78.0	47.3	6.9	19	1.10	7.7	34.2	0.2	<0.05	<0.00
05/15/00	160.2	47.4	9.2	76	1.68	7.9	13.5	0.3	<0.05	<0.00
06/15/00	166.0		9.1	18	2.96	7.3	10.7	0.4	<0.05	<0.00
06/15/00	172.0		9.1	14	1.07	7.4	23.0	0.2	<0.05	<0.00
06/15/00	196.0	50.2	9.3	16	1.16	7.7	24.0	0.2	< 0.05	<0.00
06/15/00	112.6	53,3	9.0	16	1.10	7.6	32.0	0.2		<0.00
06/16/00	102.5		8.8	20	3,45	7.7	20.9	0.4	<0.05	<0.00
05/15/00	8.8	39,2	9.5	. 18	2.25	6.4	21.4	0.2		<0.00
06/15/00	22.6	44.2	10.1	16	2.00	7.1	23.6	0.2	<0.05	<0.00
08/15/00	[146.2	53,8	8.9	26	4,19	7.9	101.9	0.2	<0.05	<0.00
06/15/00	225.0	53,4	8.7	88	5.02	8.1	144.0	0.4	<0.05	<0.00
06/15/00	15.2	49.2	9.7	20	1.81	7.6	17.3	0.1	< 0.05	<0.00
08/16/00	78.8	50,1	9.9	- 16	1.10	7.6	222	0.1	< 0.05	<0.00
06/16/00	130.1	53.1	9,9	18	1.08	7.4	26.1	Q.2	<0.05	<0.0
05/15/00	128,2	53,7	10.1	20	1.22	7,4	28.2	0.2	<0.05	<0.0
00138/00	138.5	55.2	9.6	22	0.91	7.2	32.7	0.3	<0.05	<0.0
00/16/00	45.1								0.07	<0.0
06/15/00	138.2			18	1.10	7.7	18.4	·0.3	<0.05	<0.0
06/16/00	178.0	52.4	9.6	14	1.26	- 7,9	46.1	0.4	<0.05	<0.0
06/15/00	176.8	52.6	9.6	18	1.31	7.7	34,2	0.2	<0.05	<0.0
06/15/00	89,3	54.8	8.7	24	· 1.75	7.7	50.2	0.1	<0.05	<0.0
06/16/00	83.1	55.9	9.1	14	0.78	7,6	54.9	0.3	<0.05	<0.0
06/15/00	5,3	50.3	8,1	33		7.6	135.4			<0.0
06/15/00	5,1		8.1							
	150,0	n/a	n/a	26	2.62	7.1	34.4	0.3		
	112.0		1Va	22	1.02	8.1	25.0	0.4		
	5.2		n/a							
	125.0	n/a	n/a	20	1.97	7.8	35.1	0.2	d <0.05	<0.0

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06/15/00	DATE	NO3	Р	PO4	Cal	Mo	Nal	ĸ	al	SO4	SI
		mg/l	ppm	mgΛ	mg/1	mg/i	mg/l	mg/l	mg/l	mg/l	ppm
Barney Lake Inlet	06/15/00	0.046	<0.05	< 0.02	10.18	1.26	1.62	0.80	0.31	2.58	0.75
Barney Lake Outlet	06/15/00	<0.010	<0.05	<0.02	12.84	1.39	2.00	0.71	. 0.33	3.13	0.78
Buckeye above Big Meadows	05/15/00	0.052	< 0.05	< 0.02	7.08	0.56	0,68	0.19	0.26	88.0	1.68
Buckeys below Big Meadows	06/16/00	0.086	0.16	0.04	6.73	0.60	0.54	0.25	0.25	0.83	2.05
Buckeye above FS Campground	06/15/00	0.050	< 0.05	<0.02	8.39	0.86	0.91	0.36	0.27	1.37	2.25
Buckeye below FS Campground	06/15/00	0.050	· <0.05	<0.02	8.64	0.81	1.02	0.44	0.27	1.32	2.55
Buckeye (N) at 395	06/15/00	0.093		0.02	· 9.37	1.50	1.85	0.63	0.32	2.38	2.83
Buckaye @ WRID	06/15/00	<0.010	0.05	<0.02	8.28	0.74	2.76	0.26	0.25	0.83	3.02
Eagle Ck US	06/15/00	0.096	0.09	0.03	7.95	1.24	1.03	0.48	Q.29	0.97	3.42
Eagle Ck DS	06/15/00	0.046	0.11	0.02	8.18	0.83	1.00	0.47	0.31	1.53	4.70
East Walker above Reservoir	06/15/00	0.032	0.06	0.03	20.90	3.07	4.23	1.73	0.53	6,44	7.99
East Walker below Reservoir	06/16/00	0.030	< 0.05	0.06	21.22	5.55	21.33	4.50	1.96	3.60	15.20
Green Lake inlet	06/15/00	0.049	0.07	ું 0.03	7.96	0.35	0.62	0.17	0.25	4.04	1.54
Green Lake Outlet	06/15/00	0.077	0.10	0.04	8.44	· 0.27	0.66	0.15	0.24	6.61	2.02
Green above FS Campground	06/16/00	0.104	0.18	0.05	10.06	0.37	0.91	0.34	0.30	8.39	2.12
Green below FS Campground	06/16/00	0.090	0.15	0.04	9,92	0.35	0.92	0.35	0.23	8.07	2.19
Green at guage	06/15/00	0.021	<0.05	<0.02	10.53	0.40	0.93	0,34	0.27	8,52	2:30
Horse Creek at Twin Lakes	06/15/00	0.366	0.12	0.04	10.57	0.33	0.47	0.25	0,16	2.02	1.46
Robinson above Twin Lakes	06/15/00	0.072	⇒à <0.̀05	<0.02	7.56	· 0,48	0.80	0.20	0.25	1.01	2.12
Robinson at guage	05/15/00	<0.010	< 0.05	<0.02	12.22	0.92	1.76	0.48	0.32	3.97	2.39
Robinson @ Doc & Al	08/15/00	0.033	< 0.05	<0.02	11.64	0.68	0.93	0.26	0.27	2.27	2.53
Robinson (N) at 395	06/16/00	<0.010	0.13	0.04	13.35	• 1.29	1.83	0.65	0.32	3, 19	3.18
Robinson @ WRID fence	06/15/00	0.028	. 0.14	0.02	5.26	0.29	0.47	0.09	0.24	0.19	0.80
Sauger @ Campground	06/15/00	0.050	0.08	0.09	17.22	÷ 4.87	9.98	2.10	1.42	5.24	12.36
Sauger below FS Compound	06/15/00	0.060	0,09	0 09	18.28	4.45	9,88	2.20	1,34	5.07	11.93
USGS Buckeye @ 395 6/6		0.063	0.05	<0.02	10,17	1.33	1.59	0.56	0.32	1.67	2.97
USGS Buckeye @ Res 6/8	•	0.118	0.05	<0.02	9.35	1.18	1,19	0.41	0.26	1.60	2.82
USGS Sauger 6/8		<0.010	0.07	0.03	16,92	5.13	10.69	2.26	1.32	5.43	12.24
USGS Green 6/6		0.089	0.15	0.03	11.08	0.51	1.12	0,41	0.30	8,99	2.35

7/10/2000 to 7/18/2000

	DATE	Discharge		D. Q ,	T.SS	Turbidity	pН	EC	TKN	NO3-N	NH4
		cfs(inst)	F	mg/i	mg/i	ntu		u۷	ppm	ppm	mg/l
Blue Lake Outlet	7/14/00	7.2	55.2	9.1	- 4	0.55	7.2	54.7	0.1	<0,05	0.020
Bonnie Lake Outlet	7/16/00	6.2			6	0.63	6.5	4.4	0.2	<0.05	0.016
Chain o Lakes	7/18/00	rva	67.1	6.8	14	1.99	6.7	18.7	0.2	<0.05	0.028
Cooney Lake Outlet	7/14/00	6.0	56.9	10.9	6	0.55	6.8	64.7	0.5	<0.05	<0.007
Crown Lake Inlet	7/11/00	12.0	49.6	12.5	4	0.57	6.6	4.7	0.6	0.07	0.010
Crown Lake Outlet	7/11/00	16.5	52.0	10,5	6	0.94	6.7	5.4	0.2	<0.05	0.064
East Lake	7/14/00	12.0	55.9	11.2	8	0.92	7.0	42.9	0.2	<0.05	<0.007
Fremont Lake Trail	7/10/00	n/a	69.2	9.3	6	2.05	7.0	20.2	0.4	<0.05	0.071
Fremont Lake Tule	7/11/00	n/a	69,1	9,4	14	1.89	6.5	20.0	0.2	<0.05	0.014
Frog Lake Outlet	7/14/00	5.3	11.5			0.85	6,9	71.2	0.1	<0.05	0.000
Giman Lake Outlet	7/14/00	11.5	57.0		6	0.55	7.0	42.2	0.2	<0.05	0.014
Harriet Lake	7/16/00	8.0			8	2.25	7.0	5.7	0.2	<0.05	0.038
Helen Lake Outlet	7/16/00	4.9	58.8			0.99	6.5	5.9	0.3	<0.05 0.09	0.015
Hoover (Lower) Lake Outlet	7/14/00	12.0			4	0.83	6.9	42.8	0.2	<0.09	<0.007
Long Lake (Upper)	7/18/00	r/a	70.3		8	0.94	6.8	11.3			0.078
Peeler at Rancheria	7/10/00	1.0			16	0.62	6.9	4.9	0.2	<0.05	<0.007
Peeler at Robinson Outlet	7/10/00	6.0				0.64	6.4	1.5	0.2	<0.05	0.030
Robinson Lake Lower Outlet	7/11/00	6.2						6.9		<0.05	0.013
Robinson Lake Upper Outlet	7/11/00	3.0								<0.05	0.009
Rooseven Lake outlet	7/18/00	5.0				1.60	7.5		0.1	<0.05 <0.05	<0.007
Ruth Lake Outlet	7/16/00	2.2				2.58				<0.05	0.010
Snow Lake Outlet Stella Lake Outlet	7/16/00	2.5								<0.05	0.010
Summit Lake Outlet	7/14/00	4.1								<0.05	<0.015
Tower Lake Outlet	7/17/00									0.08	0.010
Trumbull Lake Outlet	7/14/00		1							<0.05	<0.007
Virginia Lake Upper Outlet	7/14/00									<0.05	<0.007
7/10/2000 to 7/18/2000											
	DATE	NO3								504	SI
		mg/								mg/l	ppm
Blue Lake Outlet	7/14/00									0.05	2.42
Bonnie Lake Outlet	7/16/00									0,06	0.27
Chain o Lakes	7/18/00									0.19	0.77
Cooney Lake Outlet Crown Lake Inlet	7/14/00									0.05	2.61 0.11
Crown Lake Outlet	7/11/00									0.05	0.11
East Lake	7/14/00									0.09	2.76
Fremont Lake Trail	7/18/00								-	0.20	0.17
Fremont Lake Tule	7/18/00									0,18	0.17
Frog Lake Outlet	7/14/00	0.03	<0.0	<0.02	18.38	0.31	0.99	0.31	0.50	0.08	2.56
Giman Lake Outlet	7/14/00	0.08			12.96	0.31	0.95	i 0.32	0.21	0.05	1.95
Harriet Lake	7/16/00	0.03			6.15	0.3	0.27	0.14	0.28	0.22	0.39
Helen Lake Outlet	7/16/00									, 0.10	0.62
Hoover (Lower) Lake Outlet	7/14/00									0.08	1.68
Long Lake (Upper)	7/18/00									0.09	0.35
Peeler st Ranchena	7/10/00									0.06	0.37
Peeler at Robinson Outlet	7/10/00									0.06	0.14
Robinson Lake Lower Outlet	7/11/00									0.07	0.89
Robinson Lake Upper Outlet	7/11/00									0.09	0.77
Roopevelt Lake outlet Ruth Lake Outlet	7/18/00	1 · · · · ·								0.15	5.67
Snow Lake Outlet	7/16/00									0.29	0.48
Stella Lake Outlet	7/16/00									0.08	0.76
Summit Lake Outjet	7/14/00		· .							0.15	1.30
Tower Lake Outlet	7/14/00		- I							0.10	0.64
Truinbuli Lake Outlet	7/14/00						-				
										1. ·	
Virginia Lake Upper Outlet	7/14/00	0.03	1 0.0	5 <0.0	2 15.37	0.3	2 0.76	5 0.4	2 0.28	0.08	2.29
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08/18/00 to 08/25/00

	DATE	Discharge	TEMP	D.O.	TSS	Turbidity	pri l	EC	ŤKN	NO3-N	NH4
		cfs(inst)	F	mg/l	mg/i	ntu		uV	ppm	ppm	- mg/l
Barney Lake Inlet	08/24/00	4.0	56.3	9,1	7	0.13	E.4	2.8	0.2	<0.05	0.020
Barney Lake Outlet	06/24/00	8.4	61.5	10.5	8	0.29	6.8	1.8	0.2	<0.05	<0.007
Buckeye above Big Meadows	06/21/01	12.1	46.2	10.6	7	0.22	6.6	16.4	0.3	<0.05	<0.007
Buckeye below Big Meadows	06/21/01	12.0	51.8	12.8	7.	0.18	6.1	21.1	0.2	<0.05	<0.007
Buckeye above FS Campground	08/21/01	20.0	59.5	8.5	8	0.33	6.9	65.8	0.2	<0.05	0.030
Buckeye below FS Campground	06/21/01	31.0	60.6	8.5	8	0.31	7.0	42.6	0.2	<0.05	< 0.007
Buckeye (N) at 395	06/21/01	7.5	63.5	7.2	10	1.32	7.8	51.9	0.3	<0.05	<0.007
Buckeye @ WRID	06/21/01	3.0	66.2	7.1	- 14	1.64	7.3	71.1	0.4	<0.05	<0.007
Eagle Ck US	06/21/01	4.0	56.1	7.7	7	0.26	6.1	24.8	0.2	0.06	<0.007
Esgle Ck DS	00/21/01	11.0	53.6	7.7	7	0.16	6.0	44.9	0.3	<0.05	0.030
East Walker above Reservoir	08/21/01	21.0	68.3	9.1	14	3.51	7.9	28.9	0.2	<0.05	0.020
East Walker below Reservoir	00/21/01	198.0	65.9	7.1	8	0.38	7.8	124.7	0.2	<0.05	0.61D
Green Lake Inlet	08/22/00	3.1	58.2	7.6	9	0.40	6.3	18.1	0.2	<0.05	<0.007
Green Lake Outlet	00/22/00	12.5	60.6	8.7	5	0.10	6.4	17.5	0.2	<0.05	
Green above FS Campground	09/22/00			· · · · ·		0.21				<0.05	
Green below FS Campground	08/22/00							35.9	0.2	<0.05	
Green at guage	08/22/00							28.6	0.3	<0.05	
Horse Creek at Twin Lakes	06/24/00	11.0	58,8	10.8	8	0.42	6.2	8,1	0.3	<0.05	<0.007
Robinson above Twin Lakes	06/24/00	12.0	. 61.1	10,9	9	0.88	6.7	12.5	0.2	<0.05	<0.007
Rebinson at guage	08/24/00	65.0	63.1						0.4	<0.05	<0.007
Robinson @ Doc & Al	08/24/00	64,1	64.2	9.3	7	0.12	6.3	36.8	0.3	<0.05	<0.007
Robinson (N) at 395	06/24/00	10.5	66.2	8,9	8	0.52	6.4	47.5	0.2	<0.05	<0.007
Robinson @ WRID fance	06/24/00	I				0.20	7.7	38.1	0.2	<0.05	
Sauger @ Campground	08/25/01									0.18	
Sauger below FS Compound	09/25/01	4.2	68.3	7.0	27	10.59	6.6	88.6	0,4	0.07	0.090

08/18/00 to 08/25/00

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1	DATE	NO3	P	P04	Ca	Mg	Na	K	CI	SO4	Si
		mg/l	ppm	mg/l	mg/l	mgA	mg/l	mg/i	mg/i	mg/i	ppm
Barney Lake Inlet	06/24/00	0.019	<0.05	<0.02	11.20	3.88	0.34	0.16	0.45	0.02	0.44
Barney Lake Outlet	08/24/00	< 0.010	< 0.05	0.05	6.91	1.22	0.76	0.11	0.29	0.03	0.31
Buckeye above Big Meadows	00/21/01	<0.010	0.08	<0.02	7.33	0.49	1.53	0.23	0.21	0.02	2.11
Buckeye below Big Meadows	06/21/01	0.019	0.08	<0.02	11.61	1.62	1.77	0.93	0.22	0.02	4.20
Buckeye above FS Campground	06/21/01	0.032	0.06	0.03	11.22	1.43	1.66	0.87	0.22	0.03	4.22
Buckeye below FS Campground	08/21/01	0.053	0.08	<0.02	11.98	1.62	1.91	0.90	0.25	0.04	4.81
Buckeye (N) at 395	06/21/01	, 0.039	0.09	0.06	13.33	2.18	12.87	1.96	0.41	0.05	6.77
Buckeye 🗱 WRID	08/21/01	0.037	0.12	0.05	16.35	2.71	18.73	2.19	0.44	0.15	10.56
Eagle Ck US	08/21/01	0.080	0.06	0.02	9.23	1.35	1.22	0.49	0.33	0.04	4.09
Eagle Ck DS	00/21/01	0.040	< 0.05	0.00	12,13	1.46	1.55	0.63	0.26	0.03	4.02
East Walker above Reservoir	06/21/01	< < 0.010	0.06	0.05	17.80	3.88	. 10.21	1.69	1.45	7.30	22.10
East Walker below Reservoir	06/21/01	0.171	0.12	0.10	18.40	3.91	12.35	2.61	1.87	7.40	13.10
Green Lake Inlet :	08/22/00	<0.010	0,06	0.02	7.91	0.45	1.56	0.62	·0.28	0.03	4.17
Green Lake Outlet	08/22/00	< <0.010	< 0.05	0.02	8.99	0.36	1.10	0.45	0.22	0.02	2.21
Green above FS Campground	09/22/00	<0.010	0.09	0,05	10.65	0.41	1.13		, 0.27	0.02	2.45
Green below FS Campground	00/22/00	<0.010	0.07	0.03	11.49	0.54	1.28	0.51	0.39	0.72	, 3,10
Green at guage	06/22/00	< 0.010	0.08	0.03	12.22	0.57	1.36	0.55	0.76	0,61	3.22
Home Creck at Twin Lakes	08/24/00	<0.010	0.08	0,04	10.12	0.33	0.65	0.31	0.33	0.05	1.28
Robinson above Twin Lakes	08/34/00	<0.010	÷ 0.08	0.04	10.19	0.56	1.65	0.43	0.37	0.09	3,12
Robinson at guage	· 09/24/00	<0.010	0.07	0.04	7.20	0.61	1.72	0.44	0.21	0,90	5.91
Robinson @ Doc & Al	· 08/24/00	<0.010	0.07	0.03	13.06	-0.76	1 51	0.51	0.25	0.02	2.94
Robinson (N) at 395	09/24/00	<0.010	< 0.05	0,03	9.67	. 1.10	2.27	0,91	0.33	0.05	2.68
Robinson @ WRID fence	. 08/24/00	<0.010	0.08	0.06	15.33	3.10	4.57	1.73	0.56	0.16	9,89
Sauger @ Campground	09/25/01	0,160	0.07	0.09	12.35	4.12	9.88	2.23	0.78	0,19	
Sauger below FS Compound	09/25/01	0.128	· 0.08	0.10	15.21	4.23					

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09/15/00

Barney Lake Inlet Barney Lake Outlet Barney Lake Outlet Buckeye above Big J Buckeye above FS C Buckeye above FS C Buckeye (N) at 395 Buckeye (W WilD Eagle Ck US Eagle Ck US Eagle Ck US East Walker above F East Walker below F Green Lake Iniet Green Lake Inlet Green Lake Outlet Green above FS Ca Green below FS Ca Green below FS Can Green at gauge Horse Creek at Twin Robinson at gauge Robinson (R) boc & A Robinson (R) at 335 Robinson (WRID fo Sauger @ Campgro Sauger below FS Co

	DATE	Discharge	TEMP	D, O ,	TSS	Turbidity	pH	EC	TKN	NO3-N	NH4-N
		cts(inst)	4	mg/l	mg/L				ppm	ppm	. mg/L
	09/17/00	3.5			12	0.66	7.1	4.0	0.3	<0.05	0.008
et i	09/17/00	3.1	63.8	7.4	. 12	1.62	7.2	6.2	0.3	<0.05	0.016
g Meadows	09/16/00	10.2	53.8	8.3	24	8.12	7.6	11.1	0.2	<0.05	0.011
g Meadows	09/16/00	10.2	58.8	8.3	33	3.10	7.5	17.3	0.2	<0.05	<0.007
5 Campground	09/18/00	10.5		7.9	63	5.60	7.1	23.8	0.1	<0.05	0.008
5 Campground	09/16/00	11.3		7.9	44	0.57	7.5	81.1	0.2	<0.05	0.009
5	09/16/00	3.1	55.1		40	1.18	7.9	189.4	0.1	<0.05	<0.007
1	09/16/00	5.9	53.6			3.10	7.8	171.1	0.2	<0.05	0.090
	09/16/00	29	44.1			2.33	7.2	22.7	0.3	<0.05	0.009
	09/16/00	8.8				1.57	7.1	43.8	0.2	<0.05	0.011
a Reservoir	09/15/00	14.8				5.31	7.6	190.9	0.2	<0.05	0.012
v Reservoir	09/16/00	214.0				7.55		139.7	0.1	< 0.05	0.060
	09/17/00	2.8				1.20		8.7	0.2	<0.05	800,0
t	09/17/00	8,1				0.93	7.2	23.9		<0.05	0.019
Campground	09/17/00	8.6				2.05		33.3		<0.05	0.015
Campground	06/17/00	8.8				2.65		24.3		< 0.05	0.007
	06/17/00	9.1				1.16				<0.05	<0.007
vin Lakes	06/17/00	12.6				1.02		18.5		< 0.05	0.011
win Lakes	09/17/00	10.7				0.92				<0.05	0.013
8	04/17/00	21.6				0.76				<0.05	<0.007
& Al	06/17/00	19.8				0.68	7.5			<0.05	<0.007
95	06/17/00	8.3				1.13				<0.05	<0.007
D fence	09/17/00	4.1				1.48				<0.05	<0.007
round	09/17/00	5.2				0.43					0.021
Compound	09/17/00	5.2	56.3	8.4	36	0.48	7.7	166.2	0.2	0.12	0.028

09/15/00	DATE	NO3	P	PO4	Ca	Mg	Na	ĸ	a	SO4	SI
`		mg/L	() () () () () () () () () () () () () (mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	ppm
Barney Lake Inlet	09/17/00	0.125	<0.05	0.03	9.13	1.34	0.87	0.13	0.54	0.50	1.21
Barney Lake Outlet	OW17/00	<0.010	<0.05	0.02	3.98	0.40	0.74	0.19	0.28	0.25	1.07
Buckeye above Big Meadows	09/16/00	<0.010	0.05	<0.02	5.26	0.63	1.01	0.34	0.31	0.76	1.66
Buckeye below Big Meadows	09/16/00	0.042	<0.05	<0.02	10.23	0.65	0.87	0.34	0.17	0.85	1.83
Buckeye above FS Campground	09/16/00	0.028	<0.05	<0.02	12.09	0.94	1.17	0.50	0.24	1.27	2.27
Buckeye below FS Campground	00/18/00	<0.010	<0.05	<0.02	5.94	1.35	2.50	0.30	0.56	1.11	9.80
Buckeye (N) at 395	06/16/00	C.049	<0.05	< 0.02	13.95	3,36	5.14	1.96	0.23	4.82	16.10
Buckeye @ WRID	00/16/00	0.041	< 0.05	0.06	6.90	0,89	1.30	0.40	1.00	3.40	4.70
Esgle Ck US	00/16/00	0.032	· <0.05	0.03	16.64	3.07	3.86	1.55	0.01	5,65	10.30
Eagle Ck DS	00/18/00	0.035	≤. <0.05	0,03	. 11.76	2,28	2.63	1.65	0.68	2.47	6.52
East Walker above Reservoir	00/15/00	<0.010	<0.05	< 0.02	22.88	3.39	9.87	2.03	1.39	10.13	22.36
East Walker below Reservoir	00/16/00	0.044	· <0.05	0.09	18.22	4.66	15.10	3,38	2.88	16.20	14.90
Green Lake Inlet	01/17/00	. <0.010	<0.05	< 0.02	11.07	1.19	3.05	1.36		5.26	6.60
Green Lake Outlet	101/17/00	0.160	< 0.05	<0.02	16.81	1.90	3.19	1.79	0.14	14.23	7.17
Green above FS Campground	,06/17/00	0.011	< 0.05	<0.02	18,69	2.25	4,35	1.83	0.16	11.62	9,16
Green below FS Campground	00/17/00	0.074	<0.05	<0.02	19.11	2.96	14.23	4.18	0.25	8.58	2.34
Green at gauge	09/17/00	<0.010	0,05	0.02	7.23	0.51	1.20	0.80	0.30	11.90	5,10
Horse Croek at Twin Lakes	09/17/00	0.032	0.10	0.05	13.06	0.59	1.64	0.12	0.76	1.57	4.55
Robinson above Twin Lakes	09/17/00	0.048	<0.05	<0.02	6.51	0.10	4.70	0.22	0.63	0.81	0,58
Robinson at gauge	09/17/00	5 0.044	< 0.05	<0.02	7.62	0.79	1.70	0.49	0.37	3.57	4.52
Robinson @ Doc & Al	09/17/00	0.041	<0.05	<0.02	17.12	1.54	2.65	1.09			5.34
Robinson (N) at 395	09/17/00	0.068	<0.05	<0.02	9.66	1.62	2.50	1,40	2 0.50	4.20	10,90
Robinson @ WRID fence	01/17/00	<0.010	<0.05	<0.02	13.60	3.25		2.30			13.90
Sauger @ Campground	09/17/00	0.112	<0.05	0.02	10.20	3.33		2.60			27.90
Sauger below FS Compound	09/17/00	0.125	0.08	0.05							28.60

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Date	-	Discharge	mg/L	1	Date	Site	Discharge	mg/L
06/15/00	Buckeye below Big Meadows	166.0	0.4	1	05/19/00	Barney Lake Outlet	46.7	0.059
7/10/00	Fremont Lake Trail	n/a	0.4	ľ	7/25/00	Robinson at Doc & Al	78.2	0.059
8/18/00	Robinson at guage	65.0	0.4	1	6/18/00	Helen Lake Outlet	1.8	0.058
05/30/00	Buckeye (N) at 395	142.6	0.4	1	7/10/00	Chain o Lakes	n/a	0.055
7/10/00	Summit Lake Outlet	4.1	0.4		7/10/00	Summit Lake Outlet	4.1	0.054
8/18/00	Bonnie Lake Outlet	<1	0.4		7/25/00	Buckeye below FS Campground	62.1	0.053
	Sauger @ Campground	5.2	0.4		8/18/00	Buckeye below FS Campground	31.0	0.053
	Buckeye @ WRID	144.0	0.4		8/18/00	Buckeye below FS Campground	31.0	0.053
	Eagle Ck DS	16.8	0.4		7/10/00	Fremont Lake Tule	n/a	0.053
	Robinson Lake Upper Outlet	2.0	0.3		06/15/00	Buckeye above Big Meadows	160.2	0.052
	Ruth Lake Outlet	n/a	0.3		06/16/00	Buckeye above FS Campground	172.0	0.050
	Green Lake Inlet	5.1	0.3		06/15/00	Buckeye below FS Campground	196.0	0.050
	Green Lake Outlet	22.7	0.3		06/15/00	Buckeye below FS Campground	196.0	0.050
	Green below FS Campground	40.2	0.3		05/19/00	Sauger below FS Compound	20.2	0.050
	Helen Lake Outlet	4.9	0.3		8/18/00	Summit Lake Outlet	2.2	0.050
	Robinson above Twin Lakes	138.2	. 0.3		06/15/00	Sauger @ Campground	5.3	0.050
	Robinson Lake Lower Outlet	8.2	0.3		05/19/00	Sauger @ Campground	21.3	0.050
	Green at guage	44.5	0.3	-	09/15/00	Buckeye (N) at 395	3.1	0.049
	Buckeye above Big Meadows	160,2	0.3		06/15/00	Green Lake Inlet	15.2	0.049
7/10/00	Snow Lake Outlet	2.0	0.3		09/15/00	Robinson above Twin Lakes	10.7	0.048
	Green at guage	138.5	0.3		8/18/00	Fremont Lake Trail	n/a	0.048
	Green above FS Campground	8.8	0.3		8/18/00	Robinson Lake Lower Outlet	4.0	0.048
8/18/00	Buckeye above Big Meadows	12.1	0.3		7/10/00	Buckeye above Big Meadows	55.7	0.047
8/18/00	Virginia Lake Upper Outlet	4.5	0.3		06/15/00	Eagle Ck DS	22.6	0.046
7/25/00	Sauger below FS Compound	2.7	0.3	ł	8/18/00	Crown Lake Inlet	2.1	0.046
06/15/00 06/15/00	Sauger below FS Compound	5.1 5.3	0,3 0,3		06/15/00	Barney Lake Inlet	86.0	0.046
8/18/00	Sauger @ Campground Harriet Lake	5.3 6.0	0.3		09/15/00	Robinson at gauge East Walker below Reservoir	21.6 214.0	0.044 0.044
8/18/00	Robinson Lake Lower Outlet	4.0	0.3		7/10/00	Fremont Lake Trail		0.043
8/18/00	Buckeye (N) at 395	7.5	0.3		09/15/00	Buckeye below Big Meadows	10.2	0.042
	Long Lake (Upper)	r/a	0,3		05/19/00	Buckeye above FS Campground	1	0.042
8/18/00	Snow Lake Outlet	1.0	0.3		09/15/00	Robinson @ Doc & Al	19.8	0.041
8/18/00	Chain o Lakes	n/a	0,3		09/15/00	Buckeye @ WRID	5.9	0.041
09/15/00	Horse Creek at Twin Lakes	12.6	0.3		7/10/00	Peeler at Robinson Outlet	6.0	0.041
8/18/00	Gilman Lake Outlet	6.0	0.3		8/18/00	Eagle Ck DS	11.0	. 0.040
8/18/00	Frog Lake Outlet	3.0	0.3		05/30/00	Sauger @ Campground	26.7	0.040
8/18/00	Horse Creek at Twin Lakes	11.0	: 0.3		05/30/00	Sauger below FS Compound	26.4	0.040
8/18/00	East Lake	7.5	0,3		8/18/00	Cooney Lake Outlet	4.0	0.040
8/18/00	Fremont Lake Tule	n/a	0.3 0.3		8/18/00 8/18/00	Tower Lake Outlet	3.6	0.040
09/15/00	Barney Lake Inlet	3.5 2.9	0.3		05/30/00	Fremont Lake Tule	n/a	0.040
8/18/00	Eagle Ck US Summit Lake Outlet	2.2	0.3		8/18/00	Eagle Ck DS	16.8 7.5	0.039
8/18/00	Green at guage	21.0	0.3		8/18/00	Buckeye (N) at 395 Buckeye @ WRID	3.0	0.033
8/18/00	Robinson @ Doc & Al	64.1	0.3	.7	05/30/00	Green at guage	134.4	0.037
09/15/00	Barney Lake Outlet	3.1	0.3	•	8/18/00	Office and a loss of the A	6.0	0.036
08/15/00	Robinson @ WRID fence	83.1	0.3		09/15/00	Eagle Ck DS	8.8	0.035
8/18/00	Eagle Ck DS	11.0	0.3		7/10/00	Robinson at guage	98.6	0.034
06/15/00	Barney Lake Outlet	78.0	· 0.2	;	7/10/00	Stella Lake Outlet	2.5	0.034
09/15/00	Buckeye below FS Campground	11.3	0.2	?	8/18/00	Stella Lake Outlet	n/a	0.034
09/15/00	Buckeye below FS Campground	11.3	0.2	: .	05/19/00	Green at guage	115.2	
7/10/00	Eagle Ck US	9.8	0.2	: •	7/25/00	Green at gauge	36.8	
7/10/00	Eagle Ck DS	22.0	0.2		06/15/00	Robinson @ Doc & Al	176.8	
09/15/00	East Walker above Reservoir	14.8	0.2	•	7/10/00	Virginia Lake Upper Oullet	8.1	0.033
09/15/00	Green Lake Inlet	2.8	· 0.2	:	7/10/00	Buckeye above FS Campground		
09/15/00	Robinson @ WRID fence	4.1	0.2		8/18/00	Buckeye above FS Campground		
7/25/00	Robinson at WRID Fence	9.1	0.2	·	7/10/00	Long Lake (Upper)	n/a	
09/15/00	Green Lake Outlet	8.1	0.2	· ·	8/18/00	Long Lake (Upper)	n/a	
7/10/00	Tower Lake Outlet	6.6	. 0.2		09/16/00	Eagle Ck US	2.9	
7/10/00	Hoover (Lower) Lake Outlet	12.0	0.2		7/25/00	Robinson at 395	6.8	
7/25/00	Horse Creek at Twin Lakes	18.5	0.2		09/15/00	Horse Creek at Twin Lakes	12.6	
7/10/00	Green above FS Campground	39.8	0.2		7/10/00	Frog Lake Outlet	5.3	
09/15/00	Robinson (N) at 395	8.3	0.2		06/15/00	East Walker above Reservoir	146.2	
7/10/00	Crown Lake Outlet	16.5	0.2		7/10/00	Buckeye below Big Meadows	56.8	
7/10/00	Gilman Lake Outlet	11.5	0.2		7/10/00	Harriet Lake	8.0	1
7/25/00	Green below FS campground	38.3	0.2		06/15/00	East Walker below Reservoir	225.0	
7/25/00	Robinson above Twin Lakes	57.6	0.2		05/19/00	East Walker below Reservoir	165.0	
09/15/00	Green below FS Campground	8.9	0.2	i I	06/15/00	Robinson @ WRID fence	83.1	0.02

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	By TKN	inst.	
Date	Site	Discharge	mg/L
8/18/00	Green Lake Inlel	3.1	0.2
06/15/00	Buckeye (N) at 395	112.6	0.2
8/18/00	Eagle Ck US	. 4.0	0.2
7/10/00	Buckeye below FS Campground	80.3	0.1
7/10/00	Roosevelt Lake outlet	8.0	0.1
7/10/00	Robinson above Twin Lakes	39.7	0.1
7/10/00	Horse Creek at Twin Lakes	20.1	0.1
7/10/00	Robinson @ Doc & Al	87.5	· 0.1
09/15/00	Buckeye (N) at 395	3.1	0.1
7/10/00	Buckeye above FS Campground	58.8	0.1
7/10/00	Frog Lake Outlet	5.3	
7/10/00	Blue Lake Outlet	7.2	0.1
09/15/00	Buckeye above FS Campground	10.5	0.1
7/10/00	Robinson Lake Upper Outlet	3.0	0.1
07/10/00	Barney Lake Inlet	32.0	0.1
09/15/00	East Walloor below Reservoir	214.0	0.1
06/15/00	Robinson (N) at 395	89.3	0.4
06/15/00	Horse Creek at Twin Lakes	45.1	
06/15/00	Green Lake Outlet	78.8	
06/15/00	Green Lake Inlet	15.2	•
09/16/00	Green at gauge	9.1	0.

	By NO3	inst.	
Date	Site	Discharge	mg/L
05/30/00	Green Lake Inlet	12.8	<0.010
05/30/00	Green Lake Outlet	84.7	< 0.010
8/18/00	Roosevelt Lake outlet	n/a	<0.010
8/18/00	Green above FS Campground	20.0	<0.010
05/30/00	Buckeye below Big Meadows	127.5	<0.010
05/30/00	Eagle Ck US	4.1	<0.010
05/30/00	East Walker below Reservoir	187.5	<0.01(
8/18/00	Buckeye above Big Meadows	12.1	<0.010
8/18/00	Horse Creek at Twin Lakes	11.0	<0.01
8/18/00	Green at guage	21.0	<0.01
8/18/00	Robinson @ WRID fence	8.7	<0.01
8/18/00	East Walker above Reservoir	21.0	<0.01
8/18/00	Robinson above Twin Lakes	12.0	<0.01
8/18/00	Robinson et guage	¹¹ 65:0	<0.01
8/18/00	Robinson @ Doc & Al	64.1	<0.01
8/18/00	Green below FS Campground	20.0	<0.01
7/25/00	Sauger below FS Compound	2.7	<0.01
8/18/00	Green Lake injet	3.1	_<0.01
06/15/00	Buckeye @ WRID	102.5	″ ⊂0.01
09/15/00	Buckeye above Big Meadows	10.2	<0.01
09/15/00	Green at gauge	9.1	<0.01

	By P	inst.	
Date	Site	Discharge mg/	
7/10/00	Trumbuli Lake Outlet	1.4	0.84
06/15/00	Green above FS Campground	130.1	0.18
06/15/00	Buckeye below Big Meadows	166.0	0.16
06/15/00	Green below FS Campground	128.2	0.15
06/15/00	Robinson @ WRID fence	83.1	0.14
7/25/00	East Walker below Reservoir	252.0	0.13
06/15/00	Robinson (N) at 395	89,3	0.13
06/30/00	Sauger @ Campground	26,7	0.12
05/30/00	Sauger below FS Compound	26,4	0.12
7/10/00	Cooney Lake Outlet	6,0	0.12
8/18/00	Buckeye @ WRID	3.0	0.12
8/18/00.	East Walker below Reservoir	198,0	0.12
06/15/00	Horse Creek at Twin Lakes	45,1	0.12
06/19/00	Barney Lake Inlet	48.0	0.11
05/30/00	Buckeye (N) at 395	142.6	0.11
06/15/00	Eagle Ck DS	22.6	0.11
05/30/00	East Walker above Reservoir	. 144.2	0.10
05/19/00	Sauger below FS Compound	20.2	0.10
7/10/00	Crown Lake Inlet	12.0	0.10
7/25/00	Sauger @ Campground	2.7	0.10
05/30/00	Green above FS Campground	115.6	0.10
7/10/00	Fremont Lake Trail	n/a	0.10
7/10/00	Summit Lake Outlet	4.1	0.10
09/15/00	Horse Creek at Twin Lakes	12.6	0.10
05/15/00	Green Lake Outlet	78.8	0.10
05/30/00	Barney Lake Outlet	63.0	0.09
05/30/00	Horse Creek at Twin Lakes	44.8	0.09
05/30/00	Barney Lake Inlet	84.0	0.09
05/30/00	Buckeye above Big Meadows	132.0	0.09
05/30/00	Green at guage	134.4	0.09
05/30/00	Buckeye below FS Campground	168.0	0.09
05/30/00	Buckeye below FS Campground	168.0	0.09
05/30/00	Green Leke Inlet	12.8	0.09
05/30/00	Green Lake Outlet	84.7	0.09
05/30/00	Buckeye @ WRID	144.0	0.09
06/15/00	Sauger below FS Compound	5.1	0.09
8/18/00	Robinson Lake Lower Outlet	4.0	0.09
8/18/00	Buckeye (N) at 395	7.5	0.09
8/18/00	Gilman Lake Outlet	6.0	0.09
8/18/00	Summit Lake Outlet	2.2	0.09
8/18/00	Cooney Lake Outlet	4.0	0.09

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	By PO4	inst.	
Date	Site	Discharge	mg/L
05/19/00	East Walker below Reservoir	165.0	0,35
B/18/00	Trumbull Lake Outlet	0.5	0.12
7/10/00	Trumbuil Leke Outlet	1.4	0.10
8/18/00	East Walker below Reservoir	196.0	0.10
8/18/00	Cooney Lake Outlet	4.0	0.10
8/18/00	Sauger below FS Compound	4.2	0.10
09/15/00	East Walker below Reservoir	214.0	0.09
06/19/00	Sauger below FS Compound	20.2	0.0
06/15/00	Sauger below FS Compound	- 5.1	0.0
06/15/00	Sauger @ Campground	5.3	0.0
8/18/00	Sauger @ Campground	42	0.0
09/15/00	Buckeye @ WRID	5.9	0.0
8/18/00	Buckeye @ WRID	3.0	0.0
05/30/00	Barney Lake Inlet	84.0	0,0
6/18/00	Roosevelt Lake outlet	2 n/a	0.0
8/18/00	Harriet Lake	6.0	0.0
06/15/00	East Walker below Reservoir	225.0	0.0
8/18/00	Robinson Lake Lower Outlet	4.0	0.0
6/18/00	Buckeye (N) at 395	7.5	0.0
8/18/00	Robinson @ WRID fence	8.7	0.0
8/18/00	Long Lake (Upper)	n/a	0.0
8/18/00	Snow Lake Outlet	1.0	0.0
8/18/00	Chain o Lákes	n/m	0.0
8/18/00	Peeler at Robinson Outlet	1.8	0.0
7/10/00	Barney Lake Outlet	27.1	0.0
8/18/00	Barney Lake Outlet	8.4	0.0
05/19/00	Barney Lake Outlet	46.7	0.0
06/15/00	Green above FS Campground	130.1	0.0
7/25/00	East Walker below Reservoir	252.0	0.0
7/10/00	Cooney Lake Outlet	6.0	0.0
09/15/00		12.6	0.0
8/18/00	Green above FS Campground	20.0	0.0
8/18/00	Gilman Lake Outlet	6.0	0.0
8/18/00	East Walker above Reservoir	21.0	0.0
09/15/00	lean Bou agint t a antichante	5.2	0.0
8/18/00	Frog Lake Outlet	3.0	. 0.0
05/19/00	Sauger @ Campground	21.3	0.0
7/25/00	East walker above Reservoir	32.5	0.0
06/15/00	Buckeye below Big Meadows	166.0	0.0
06/15/00	Green below FS Campground	128.2	0.0
06/15/00	Robinson (N) at 395	89.3	0.0

D at t		Inst.	
Date		Discharge mg/L	<0.05
05/19/00 05/19/00	Buckeye @ WRID Green Lake injet		<0.05
05/19/00	Robinson (N) at 395		<0.05
05/19/00	Robinson @ Doc & Al		< 0.05
06/15/00	Robinson at guage		<0.05
05/30/00	Robinson (N) at 395	76.0	<0.05
05/30/00	Robinson @ Doc & Al		<0.05
05/19/00	Green Lake Outlet		<0.05
7/25/00	Buckeye at 395		<0 .0 5
06/15/00	East Walker below Reservoir		<0.05
09/15/00	Sauger @ Campground		<0.05 <0.05
8/18/00	Robinson Lake Upper Outlet Ruth Lake Outlet		<0.05
			<0.05
7/10/00	Green Lake inlet Green Lake Outlet		<0.05
7/10/00	Green below FS Camparound		<0.05
7/10/00	Holen Lake Outlet		<0.05
06/15/00	Robinson above Twin Lakes	138.2	<0.05
7/10/00	Robinson Lake Lower Outlet	8.2	<0.05
7/10/00	Green at guage		<0.05
06/15/00	Buckeye above Big Meadows		<0.05
7/10/00	Snow Lake Outlet		<0.05
06/15/00	Green at guage Green above FS Campground	138.5 8.8	<0.05 <0.05
09/15/00	Barney Lake injet	3.5	<0.05
09/15/00	Eagle CkUS	2.9	<0.05
09/15/00	Barney Lake Outlet	3.1	<0.05
8/18/00	Eagle Ck DS	11.0	<0.05
06/15/00	Barney Lake Outlet	78.0	<0.05
09/15/00	Buckeye below FS Campground	11.3	<0.05
09/15/00	Buckeye below FS Campground	11.3 9,8	<0.05
7/10/00	Eagle Ck US Eagle Ck DS	22.0	<0.05 <0.05
09/15/00	East Walker above Reservoir	14.8	<0.05
09/15/00	Green Lake Inlet	2.8	<0.05
09/15/00	Robinson @ WRID fence	4.1	<0.05
7/25/00	Robinson at WRID Fence	9.1	<0.05
09/15/00	Green Lake Outlet	8.1	<0.05
7/10/00	Tower Lake Outlet	6.6 12.0	<0.05
7/25/00	Hoover (Lower) Lake Outlet Horse Creek at Twin Lakes	12.0	<0.05
7/10/00	Green above FS Camoground		<0.05
09/15/00	Robinson (N) at 395	8,3	<0,05
7/10/00	Crown Laice Outlet	16.5	<0.05
7/10/00	Gilman Lake Outlet	11.5	<0.05
7/25/00	Green below FS campground	38.3	<0.05
7/25/00	Robinson above Twin Lakes		<0.05
09/15/00	Green below FS Campground	8.9	<0.05
7/25/00	Robinson at Doc & Al	78.2	<0.05
8/18/00	Helen Lake Outlet Chain o Lakes	• 1.8 n/a	<0.05 <0.05
7/25/00	Buckeye below FS Campground		<0.05
7/10/00	Fremont Lake Tule	ī√a)	<0.05
06/15/00	Buckeye above FS Campground	172.0	<0.05
06/15/00	Buckeye below FS Campground	196.0	<0.05
06/15/00	Buckeye below FS Campground		<0.05
09/15/00	Robinson above Twin Lakes	10.7	<0.05
7/10/00	Buckeye above Big Meadows Barney Lake Inlet	55.7 86.0	< 0.05
09/15/00	Robinson at gauge	21.6	<0.05
09/15/00	Buckeye below Big Meadows	1 1	<0.05
09/15/00	Robinson @ Doc & Al	19.8	<0.05
7/10/00	Peeler at Robinson Outlet	6.0	<0.05
7/10/00	Robinson at guage	98.6	<0.05
7/10/00	Stella Lake Outlet	2.5	<0.05
8/18/00	Stella Lake Outlet	n/a	<0.05
7/25/00	Green at gauge	36,8	<0.05
06/15/00	Robinson @ Doc & Al	176.8 8.1	<0.05 <0.05
7/10/00	Virginia Lake Upper Outlet	1 0.11	-0.05

	By PO4	Inst.	
Date	Site	Discharge	mg/L
06/15/00	Barney Lake Outlet	78.0	<0.02
09/15/00	Buckeye below FS Campground	11.3	<0.02
09/15/00	Buckeys below FS Campground	11.3	<0.02
7/10/00	Eagle Ck US	9.8	<0.02
7/10/00	Eagle Ck DS	22.0	<0.02
09/15/00	East Walker above Reservoir	14.8	<0.02
09/15/00	Green Lake Intet	2.8	<0.02
09/15/00	Robinson @ WRID fence	4.1	<0.02
7/25/00	Robinson at WRID Fence	9.1	<0.02
	Buckeye below FS Campground		
7/10/00		80.3	<0.02
7/10/00	Roosevelt Lake outlet	8.0	<0.02
06/30/00	Robinson (N) at 395 Robinson above Twin Lakes	76.0	<0.02 <0.02
7/10/00			
7/10/00	Horze Creek at Twin Lakes	20.1	<0.02
06/30/00	Robinson @ Doc & Al	120.0	<0.02
05/19/00	Green Lake Outlet	27.0	<0.02
7/25/00	Buckeye at WRID fence		<0.02
09/15/00	Green Lake Outlet		<0.U2
7/10/00	Tower Lake Outlet	6.6	<0.02
7/10/00	Hoover (Lower) Lake Outlet	12.0	<0.02
05/19/00	Green above FS Campground	89.6	<0.02
7/10/00	Green Lake Inlet	5.1	<0.02
7/10/00	Green Lake Outlet	22.7	<0.02
7/25/00	Buckeye at 395	12.1	<0.02
7/25/00	Horse Creek at Twin Lakes	18.5	<0.02
7/10/00	Green above FS Campground	39.8	<0.02
09/15/00	Robinson (N) at 395	83	<0.02
7/10/00	Crown Lake Outlet	16.5	<0.02
7/10/00	Green below FS Campground	40.2	<0.02
7/10/00	Gilman Lake Outlet	11.5	<0.02
7/25/00	Green below FS campground	38,3	<0.02
06/30/00	Robinson at guage	115.0	<0.02
7/10/00	Helen Lake Outlet	4.9	<0.02
7/25/00	Robinson above Twin Lakes	57.6	<0.02
05/19/00	Buckeye below Big Meadows	83.2	<0.02
05/19/00	Green below FS Campground	89,8	<0.02
09/15/00	Green below FS Campground	8.9	< < 0.02
06/15/0 0 ⁻	Robinson above Twin Lakes	138.2	<0.02
7/10/00	Robinson Lake Lower Outlet	8.2	
7/10/00	Green at guage	44.5	<0.02
7/10/00	Robinson @ Doc & Al	87.5	<0.02
05/30/00	Green below FS Campground	115.2	<0.02
06/19/00	Robinson above Twin Lakes	70.0	<0.02
7/25/00	Robinson et Doc & Al	78.2	<0.02
8/18/00	Helen Lake Outlet	1.8	<0.02
7/10/00	Chain o Lakes	n/a	<0.02
7/25/00	Buckeye below FS Campground	62.1	<0.02
7/10/00	Fremont Lake Tule	n/a	<0.02
06/15/00	Buckeye above Big Meadows	160.2	<0.02
06/15/00	Buckeye above FS Campground		<0.02
06/15/00	Buckeye below FS Campground		<0.02
06/15/00	Buckeye below FS Campground		<0.02
09/15/00	Buckeye (N) at 395	3.1	<0.02
09/15/00	Robinson above Twin Lakes	10.7	<0.02
7/10/00	Buckeye above Big Meadows	55.7	<0.02
06/15/00	Barney Lake Inlet	85.0	<0.02
09/15/00	Robinson at gauge	21.6	<0.02
09/15/00	Buckeye below Big Meadows	10.2	<0.02
05/19/00	Buckeye above FS Campgroun		<0.02
	Robinson @ Doc & Al	19.8	<0.02
09/15/00	Peeler at Robinson Outlet	6.0	<0.02
09/15/00			<0.02
		301,61	
7/10/00 7/10/00	Robinson at guage	95.6 2.5	
7/10/00 7/10/00 7/10/00	Robinson at guage Stella Lake Outlet	2.5	<0.02
7/10/00 7/10/00 7/10/00 8/18/00	Robinson at guage Stella Lake Outlet Stella Lake Outlet	2.5 n/a	<0.02 <0.02
7/10/00 7/10/00 7/10/00 8/18/00 05/19/00	Robinson at guage Stelia Lake Outlet Stelia Lake Outlet Green at guage	2.5 n/a 115.2	<0.02 <0.02 <0.02
7/10/00 7/10/00 7/10/00 8/18/00 05/19/00 7/25/00	Robinson at guage Stella Lake Outlet Stella Lake Outlet Green at guage Green at gauge	2.5 n/a 115.2 36.8	<0.02 <0.02 <0.02 <0.02
7/10/00 7/10/00 7/10/00 8/18/00 05/19/00 7/25/00 06/15/00	Robinson at guage Stella Lake Outlet Stella Lake Outlet Green at guage Green at gauge Robinson @ Doc & Al	2.5 n/a 115.2 36.8 176.8	<0.07 <0.07 <0.07 <0.07 <0.07
7/10/00 7/10/00 7/10/00 8/18/00 05/19/00 7/25/00	Robinson at guage Stella Lake Outlet Stella Lake Outlet Green at guage Green at gauge	2.5 1/a 115.2 36.8 176.8 8.1	<0.02 <0.02 <0.02

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	Gauge	395
Mean	0.01064	0.014906667
Variance	5.91E-05	0.000220751
Observations	15	15
Pearson Correlation	0.700693	
Hypothesized Mean Difference	0	
df	14	
t Stat	-1.50987	
P(T<=t) one-tail	0.076656	
t Critical one-tail	1.761309	
P(T<=t) two-tail	0.153312	
t Critical two-tail	2,144789	

Green at gauge vs E. Walker above reservoir, TKN

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	Green	E. Walker
Mean	0.184829	0.165942857
Variance	0.05639	0.113949113
Observations	14	14
Pearson Correlation	0.437846	
Hypothesized Mean Difference	0 -	
df	13	
t Stat	0.223298	
P(T<=t) one-tail	0.413387	
t Critical one-tail	1.770932	
P(T<=t) two-tail	0.826774	
t Criticat two-tail	2.160368	

Buckeye at FS vs Buckeye at Reservoir, PO4

	Gauge	Reservoir
Mean	0.01064	0.024867
Variance	5.91E-05	0.000593
Observations	15	15
Pearson Correlation	0.469166	
Hypothesized Mean Difference	0	
df	14	
t Stat	-2.52373	
P(T<=t) one-tail	0.012162	
t Critical one-tail	1.761309	
P(T<=t) two-tail	0.024324	
t Critical two-tail	2.144789	•

E. Walker above R. vs. E. Walker Below, TKN

	Above	Below
Mean	0.228213	0.261127
Variance	0.163974	0.062038
Observations	15	15
Pearson Correlation	-0.30985	
Hypothesized Mean Difference	0	
df	14	
t Stat	-0.23732	
P(T<=t) one-tail	0.407923	
t Critical one-tail	1.761309	
P(T<=t) two-tail	0.815847	
t Critical two-tail	2.144789	

Green at gauge vs E. Walker	E. Walker above R.	vs E. Wa		
	Green	E. Walker		
Mean	0.019954	0.022680368	Mean	
Vanance	0.000339	0.001355973	Variance	
Observations	14	14	Observations	
Pearson Correlation	-0.0032	•	Pearson Correlation	
Hypothesized Mean Difference	· 0		Hypothesized Mean	Differenc
đf	.13		df	
t Stat	-0.24751		t Stat	٠
P(T<=t) one-tail	0.404191		P(T<=t) one-tail	
t Critical one-tail	1.770932		t Critical one-tail	
P(T<=t) two-tail	0.808382		P(T<=t) two-tail	۰ ۰
t Critical two-tail	2.160368		t Critical two-tail	
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E. Walker above R. vs E. Walker Below, NO3

	Above	Below
Mean	0.021768	0.030994
Variance	0.001272	0.001635
Observations	. 15	15
Pearson Correlation	-0.16706	
Hypothesized Mean Difference	· 0	•
df	. 14	
t Stat	-0.61384	
P(T<=t) one-tail	0.274582	,
t Critical one-tail	1.761309	
P(T<=t) two-tail	0.549164	
t Critical two-tail	2.144789	

	Green	E. Walker		Above	Below	
Mean	0.004943	0.008314286	Mean	0.008427	0.138973	
Variance	5.29E-06	3.12213E-05	Variance	2.92E-05	0.052882	
Observations	14	14	Observations	15	15	
Pearson Correlation	-0.30822		Pearson Correlation	-0.00285		
Hypothesized Mean Difference	0		Hypothesized Mean Difference	0		
df	13		df	14		
t Stat	-1.89226	- 1.	t Stat	-2.1979	•.	
P(T<=t) one-tail	0.040469		P(T<=t) one-tail	0.022639		
t Critical one-tail	1.770932		t Critical one-tail	1.761309		
P(T<≓t) two-tail	0.080938		P(T<=t) two-tail	0.045278		
t Critical two-tail	2,160368		t Critical two-tail	2.144789		

Table 4: Combined USGS and FS/RCD samples for selected sites. Sites in bold were sampled for FS/USGS .

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	Station name	Date	Discharge cfs(inst)	TEMP	D.O. mg/L	Turbidity Ntu	рH	EC uS/cm	TKN mg/L	NO3 mg/L	NH4-N mg/L	P mg/L	PO4 mg/L	Ca mg/L	Mg mg/L	Na mg/L	K mg/L	CI mg/L	SO4 mg/L	SI mg/L	
			Cistuist	<u> </u>		1110												,	·		
	المهدو																•	· 1			ŀ.
	1	1				· .															in the second
	Buckeye at 395	04/13/00	12	6.5	8.9		7.7	.76	0.0089	O .0049	0.0040	0.116	0.010								
in 74	Buckeye at 395	05/11/00	46	3	· 10	0.5	7.8	59	0.0149	0.0049	0.0100	0.011	0.002	6.47		2.7	· 1.44	0.2	2.4	9.9	J ·
ويت بالمبترة	Buckeye at 395	05/18/00	60.0	57.2	9.4	3.28	7.6	25.6	0.4	0.009	0.0100	0.05	0.019	6.02	1.49	2.04	0.76	0.27	1.92	9.20	· ·
	Buckeye at 395	05/30/00	142.6	44.8	9.5	1.35	8.4	48.0	0.4	0.361	0.0069	0.11	0,030	9.55	3.05	2.41	· 0.34	1.23	2.22	- 3.54	1 ·
	Buckeye at 395	06/06/00	150	7	9.4	2.2	6.9	36	0.015	0.013	0.0020	0.032	0.001								
	Buckeye at 395	06/15/00	112.6	53.3	9.0	1.10	7.6	32.0	0.2	0.093	0.0069	0.06	0.020	9.37	1.50	1.85	0.83	0.32	2.38	2.83	1 1
	Buckeye at 395	07/12/00	45	12.5	8.8	1,4	7.5 7.8	· 61 122.6	0.0068	0.0049	0.0019	0.029 0.05	0.006 0.019	13.20	2.23	46.22	1.93	1.03	0.41	11.55	
· • •	Buckeye at 395	07/25/00	12.1 9.9	74.5	7.1	3.43 1.4	7.8	98	0,4 0.0068	0.120 0.0049	0.0019	0.036	0.013	13.20	2.43	16.22	1.55	1,05		11.55	· "
· .	Bučkeve at 395 Buckeve at 395	08/21/00	7.5	63.5	7.2	1.32	7.8	51,9	0.0000	0.039	0.0069	0.030	0.060	13.33	2.18	12.87	1.98	0.41	0.05	6.77	· ·
1.1	Buckeye at 395	09/13/00	2.8	11	7.6	0.7	7.2	132	0.055	0.046	0.0090	0.018	0.006	13.4		5.8	3.31	0.5	5.3	16.8	1 · . ·
: ·	Buckeye at 395	09/16/00	3.1	55.1	7.7	1,18	7.9	189.4	0.1	0.049	0.0069	0.05	0.019	13.95	3.36	5.14	1.96	0.23	4.82	16.10	· ·
	Buckeye at 395	10/12/00	· 12	6	9.7	0.3	6,8	114	0.0099	0.0049	0.0050	0.013	0.007					1			1 · · · ·
	Buckeye at 395	11/14/00	· · · 8.5	0.5	10.1	0.4	7.4	115	0.008	0.005	0.0030	0.008	0.007						- 1		
•	Buckeye at 395	12/12/00	11	0.1	10.4	0.4	7.9	120	0.0069	0.005	0.0019	0.004	0.007		1			1			1 · ·
•	Buckeye at Reservoir	04/11/00	6	15	8.7		7.5	135	0.0119	O .0049	0.0070	0.048	0.022		`·.						· ·
	Buckeye at Reservoir	05/09/00	56	13	8.4	1.7	7.9	62	0.0149	D .0049	0.0100	0.029	0.007	6.2		4.1	. 1.46	0.5	2.6	9.9	1 · · ·
	Buckeye at Reservoir	05/18/00	62.2	56.2	9.4	5.09	7.5	51.5	0.4	0.009	0.0100	0.05	0.019	6.40	1.68	3.49	1.00	0.35	2.07	9.60	i .
•	Buckeye at Reservoir	05/30/00	144.0	43.2	9.3	1.64	8.1	44.7	0.4	. D.174	0,0069	0.09	0.020	10.60	2.32	2.26	0.54	0.70	2.22	3.51	· ·
	Buckeye at Reservoir	06/07/00	112	15	8.2	3.3	7.6	47 20.9	~0.014 0.4	0.012 0.009	0.0020	0.045 0.05	0.005	8.28	0.74	2.76	0.26	0.25	0.83	3.02	1
	Buckeye at Reservoir Buckeye at Reservoir	06/15/00 07/11/00	102.5 22	53.1 15	8.8 6.8	3.45 1.5	7.7	20.9	0.0068	D .0049	0.00019	0.03	0.009	0.20	0.74	2.70	0.20	0.20	0.00		1
	Buckeye at Reservoir Buckeye at Reservoir	07/25/00	4.1	79.2	7.7	4.68	7.9	141.1	0.0000	0.160	0.0069	0.025	0.019	16.35	2.71	20.82	2.39	1.21	0.45	11.64	1
	Buckeye at Reservoir	08/08/00		20	7	- 2.3	. 7.5	213	0.0068	O.0049	0.0019	0,1	0.044								1
·	Buckeyent teservoir	08/21/00	3.0	68.2	7.1	1.64	7.3	71.1	0.4	0.037	0.0059	0.12	0.080	16.35	2.71	[·] 18.73	[:] 2.19	0.44	0.16	10.56	1
•	Buckeye at Refervoir	09/12/00	. 8.4	13.5	8.1	<.5	7.1	193	0.0139	0.0049	0.0090	0.059	0.021	14.5		17.1	4.02	2.5	9.4	21.3	· ·
	Buckeye at Reservoir	09/16/00	5.9	53.6	; 7.8	3.10	7.8	171.1	0.2	0.041	0.0900	0.05	0.080	· 6.9D	0.89	1.30	0.40	1.00	3.40	4.70	· ·
· · .	Buckeye at Reservoir	10/11/00	: 20	5.5	7.6	. 0.6	. 8	131	0.0089	O _0049	0.0040	0.038	0.013					•		· · · ·	1
1	Buckeye at Reservoir	11/15/00	' 25	• · · •	10.5	1.1	7.2	135	0.01	0.008	0.0020	0.051	0.008		4	. 1			· ·		i .
r :	Buckeye at Reservoir	12/11/00	27	0.5	10.3	2.6	7.9	130	0.01	0.008	0.0020	0.04	0.007								L. C. C.
, :	Buckeye below FS	04/12/00	65 137					40	0.0068	O.0049 O.005	0,0019	0.014	0.002 0.002	4.84		1.6	0.91		1.6	7.7	1 🕴 👘
,	Buckeye below FS	05/10/00 05/18/00	13/	4.5 51.7	9.7 9.8	0.6 4.01	7.8 7.7	40		0.009	0.0019	0.01	0.002	4.52	1.12	1.36	0.61	0.26	1.52	7.20	
	Buckeye below FS Buckeye below FS	05/30/00	168.0	41.7	9.0 9.7	3.41	8.1	30		0.009	0.0069	0.09	0.020	8.93	0.98	1.33	0.48	0.23	1.67.	2.88	l
	Buckeye below FS	06/08/00	213	45.		0.8	7.7	29		0.022	0.0019	0.018	0.001	0.00	0.50		0.10				
r	Buckeye below FS	06/15/00	196.0	50.2	9.3		7.7	24		0.050	0.0069	0.05	0.019	8.64	0.81	1.02	0.44	0.27	1.32	2,55	·
	Buckeve below FS	07/13/00	89	8.5	9.4	0.6	8	42		0.01	0.0019	0.012	0.004		:						
	Buckeye below FS	7/13/00	80.3	60.0	8.5	0.95	. 1.2	40	0.100	0.009	0.0069	0.05	[:] 0.019	12.48	1.49	1.69	0.77	0.14	0.09	3.85	
	Buckeye below FS	07/25/00	62.1	61.7	10.1	1.23	7.8	43	0.200	0.053	0.0069	0.05	0.019	12.02	1.53	1.77	0.90	0.50	0.12	4.82	1 N. 1
÷.	Buckeye below FS	08/10/00	41	់ , 9.5	8.3	0.4	7.8	63	0.0229	0.021	0.0019	[.] 0.009	0.003			·		· .	· · ·	•	
4	Buckeye below FS	08/21/00	31.0	60.6	8.5	0.31	7.0	43		0.053	0.0069	. 0.08	0.019	11.98	1.62	1.91	÷ 0.90	0.25	0.04	4.81	1
	Buckeye below FS	09/14/00	20	9.5	8.3	<.5	7.9	87	0.0079	0.0049	0.0030	0.01	0.012	10.3		3.3	2.31	0.4	4.6	12.9	· ·
	Buckeye below FS	09/16/00	i1.3	56.1	7.9		7.5	81	0.200	0.009	0.0090	0.05	0.019	5.94	1.35	2.50	0.30	0.56	1.11	9.80	. · · ·
	Buckeye below FS	10/12/00	19	6	9.3	0.2	⁻¹ 7.6	85		O .0049	0,0020	0.006	0.007	17				-2- 	· 1		(* e - *
	Buckeye below FS	11/14/00	22	· 0	10.5	0.2	7.8	88		0.009	0.0019	0,007	0.007		· .			·.			
	Buckeye below FS	12/13/00	16	0	8.5	2.6	8,1	100	0.024	0.006	0.0180	0.004	0.007	i I	. 1			1	1		1

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Date	Site	Discharge cfs(inst)	TEMP F	D,O. mg/L	Turbidity Ntu	pH	EC uS/cm	TKN mg/L	NO3 mg/L	NH4-N mg/L	P mg/L	РО4 mg/L	Ca mg/L	Mg mg/L	Na mg/L	K mg/L	Cl mg/L	SO4 mg/L	.Si mg/L	
East Walker above Reservoir East Walker above Reservoir	04/12/00 05/10/00	68 0 144.2	61.8 52.1	9.1 9.2	3.88	8.4 7.9	98.8 109.8	1.1 1.3	0.009	0.0100	0.05	0.019 0.030	21.08 19.96	3.20 4.07	9.07 5.17	2.93 1.50	0.89	10.63 7/61	19.6 74	6
East Walker above Reserver	05/19/00	146.2	53,8	9.2. 8.9	4.19	· 7.9	101.9	0.2	2 0.032	0.0069	0.06	0.030	20.90	3.07	4.23	1.73	0.53	6.44	7.9	
Eäst Walker abové Reservoir	05/30/00	32.5	70.0	8.6	1.69	7.8	125.7	0.2	0.009	0.0069	0.05	0.042	27.52	3.85	6.56		0.57 1.39		11.5 22.3	
East Walker above Reservoir East Walker above Reservoir	06/07/00 06/15/00	14.8 21.0	62.2 68.3	8.1 9.1	5.31 3.51	7.6 , 7.9	190.9 28.9	0.2 0.2	0.009	0.0120 0.0200	0.05	0.019 0.050	22.88 17.80	3.39 3.88	9.87	2.03 1.69	1.39		. 22.1	0
East Walker above Reservoir	07/11/00	34	- 13	9.4	. 0.01	8.2	197	0.0068	0.0049	0.0019	0.051	0.023		, i		ξ				1.4
East Walker above Reservoir	07/25/00	71	14.5	8.5	0.5	8.5	166	0.0169	0.0049	0.0120	0.042	0.019	18		10.2	3.8	1 - 1 - 1	11.1	21.	6
East Walker above Reservoir East Walker above Reservoir	© 08/08/00	143	19	7.5	1.8	7.7 8.3	126 ÷	0.016 0.0079	0.009 0.0049	0.0070 0.0030	0.041 0.042	0.007 0.016		:	••	4 ¹		12		
East Walker above Reservoir	08/21/00	28	20,5	9.1	1.6 2.3	8.4	197	0.0068	0.0049	0.0019	0.042	0.016		5 1			;			14 - 14
East Walker above Reservoir	09/15/00	. 17	. 17	9.2	0.6	7.6	187	0.0169	0.0049	0.0110	0.03	0.013	19.8	2 · · · .	- 11	3.99	1.5	<u>਼</u> 10.6	24.	3
East Walker above Reservoir	10/11/00	; 30	8.5	(9.1	0.8	7.6	145	0.124 0.022	0.116	0.0080 0.0170	0.069 0.016	0.033 0.008		· .						
East Walker above Reservoir East Walker above Reservoir	11/13/00 12/11/00	- 36 - 32	0.5	11.4	0.8 0.5	7.2 8.4	148 185	0.022	 0.005 ₽0.005 	0.0170	0.013	0.008	. 3. <u>1</u>							. · *
East Walker, below reservoir	04/12/00	136	13	18.3	,	8.3	216	0.041	0.005	0.0360	0.031	0.004							· · · ·	
East Walker below reservoir East Walker below reservoir	05/10/00	154	14	8.1	2.8	8.5	214	0.046	0.017	0.0290	0.038	0.014 0.350	18.5 18.22	4.66	19.1 16.10	4.33 3.3B	3.7 2.88	15.9 16.20	15.0	- ×
East Walker below reservoir	05/19/00 05/30/00	165.0 187.5	60.3 50.5	9.2	4.82 5.18	8.7 7.9	134.9 163.1	0.5	0.009	0.0069	0.05	0.020	30.31	7.50	21.83	3.30	3.63	18.45	7.30	
East Walker below reservoir	06/07/00	208	17	7.7	1.6	8.3	193	0.1	0.028	0.0720	0.073	0.036	1 Š		· · · ;					
East Walker below reservol	06/15/00	225.0	53.4	8.7	5.02	8.1	144.0	0.4	0.030	0.0069	0.05	0.060 0.082	21.22	5.55	21.33	4.50	1.98	3.80	15.20	J
East Walker below reservoir East Walker below reservoir	07/11/00 07/25/00	274 252.0	19 69.6	. 6.7	1.6 2.39	83 7.4	161 130.2	0.626 0.6	0.019 0.028	0.6070 0.0069	0.14 0.13	0.082	22.26	3,69	10.16	2.20	0.57	0.23	7.71	1
East Walker below reservoir	08/08/00	244	20.5	6.2	1.4	8.8	161	0.542	0.02	0.5220	0,18	0.127								
East Walker below reservoir	08/21/00	228	15.5	6.7	1.5	8.3	175	0.103	0.036	0.0670	0.145	0.089	16.4	·	13.4	3.7 3,38	1.9 2.88	7.2 16.20	12.5 14.90	
East Walker below reservoir East Walker below reservoir	09/12/00 09/15/00	214.0 70	59.4	7.5	7.55 5.5	8.1 7.1	139.7 171	0.1 0.013	0.044 0.007	0.0600 0.0060	0.05 0.153	0,090 0,001	18.22	4.66	16.10	3,30	2.00	10.20	14.30	1
East Walker below reservoir	10/11/00	26	3.5	9.4	3	9	186	0.0169	0.015	0.0019	0.03	0.010		 						1
East Walker below reservoir	11/13/00	198.0	65.9	-7.1	0.38	7.8	124.7	0.2	0.171	0.6100	0.12	0.100	. 18.40	3.91	12.35	2.61	1.87	7.40	13.10	
East Walker below reservoir Green at gauge	12/12/00 05/19/00	19 115.2	4 46.7	10 9.6	5.2 1.38	7.9 7.9	171 30.6	0.029	0.006 0.033	0.0230 0.0070	0.052 0.05	0.001 0.019	10.89	0.46	1.37	0.52	0.25	7.93	2.31	
Green at gauge	05/30/00	134.4	43.2	10.3	1.59	7.0	35.4	0.8	0.037	0.0069	0.09	0.020	10.86	0.45	1,18	0.44	0.26	8.43	2.21	
Green at gauge	06/06/00	125	, 1 2	8.3	0.4	7.1	41	0.015	0.011	0.0040	0.0004	0.001					7	, , , , , , , , , , , , , , , , , , , ,		
Green at gauge Green at gauge	06/15/00 07/12/00	138.5	55.2	9.6 8.3	0.91 0.6	7.2 7.4	32.7 44	0.3 0.0079	0.021 0.006	0.0069 0.0019	0.05 0.0004	0.019 0.001	10.53	0.40	0.93	. 0.34	0.27	8.52	2,30	2
Green at gauge	7/14/00	44.5	59.3	8.5	2.20	7.5	54.1	0.3	0.070	0.0069	0.05	0.019	12.80	0.45	1.12	0.43	0.53	0.22	2.45	i
Green at gauge	07/25/00	36.8	61.5	10,1	0.74	7.6	21.1	0.2	0.033	0.0069	0.05	0.019	13.55	0.57	1.47	0.60	0.43	0.07	2.64	· · ·
Green at gauge	08/09/00 08/22/00	20	16.5	· ·	1.1		50 28.6	0.025 0.3	0.023 0.009	0.0020	0.034 0.08	0.017 0.030	12.22	0.57	1.36	0.55	0.76	. 0.61	3.22	
Green at gauge Green at gauge	09/13/00	21.0 8.3	62.1 14	9.2 7.6	8.22 <.5	6.9 7.1	20.0	0.0109	0.009	0.0069	0.0079	0.030	7.46	0.57	1.9	0.46	E.2	12.2	5.2	
Green at gauge	09/17/00	9.1	55.7	7.7	1.16	7.8	106.8	0.1	0.009	0.0069	0.05	0.020	7.23	0.51	1.20	0.80	0.30	11.90	5.10	1 A
Green al gauge	10/10/00	6.4	8	8.4	0.3	7.4	65 77	0.0079	0.0049	0.0030	0,0003	0.007								
Green at gauge Green at gauge	11/13/00 12/12/00	7.2 5.3	0	11 10.6	0.3 0.3	7.6 7.9		0.007 0.0139	0.005 0.012	0.0020 0.0019	0.004 0.0039	0.007 0.007	I							
Robinson @ 395	04/13/00	11	8	10.6 8.8		7.6	75 77	0.012	0.007	0.0050	0.023	0.004							•	
Robinson @ 395	05/11/00	39	6	9.4	0.5	7.6	60	0,0068	0.0049	0.0019	0.012	0.001	7.28		2.4	1.21	E.3	3.9	8.8	
Robinson @ 395	05/19/00 05/30/00	42.7	49.9	8.9 0.5	2.88	7.7	36.7 51.9	0.4 0.4	0.009 0.262	0.0070 0.0069	0.05 0.05	0.019 0.019	7.15 12.79	1.57 2.21	2.16 2.30	0.85 0.50	0.31 0.83	3.34 3.42	8.22 3.44	•
Robinson @ 395 Robinson @ 395	05/30/00	76.0 124	48.6 14.5	9.5 8.3	0.70 0.8	7.4 7.3	64	0.4	0.202	0.0030	0.03	0.019	12.15	2.21	2.00	. 0,00	0.00	0.42		· ·
Robinson @ 395	06/15/00	89.3	54.8	8.7	1.75	7.7	50.2	0.1	0.009	0.0069	0.13	0.040	13.35	1.29	1.83	0.65	0.32	3.19	3.18	
Robinson @ 395	07/12/00	12	17	8.1	2.1	7.3	82	0.011	0.009	0.0 020	0.018	0.003						0.11	5.49	
Robinson @ 395 Robinson @ 395	07/25/00 08/09/00	6.8 8.8	73.8 17	7.1	1.12	7.2	65.7 77	0.2 0.0079	0.032 0.0049	0.0069 0.0030	0.05 0.016	0.019 0.003	17.12	2.81	3.85	1.41	0.66	0.11	0.49	
Robinson @ 395	08/24/00	0.0 10.5	66.2	8.9	1.5 0.55	6.4	47.5	0.0079	0.0049	0.0050	0.05	0.003	9.67	1.10	2.27	0.91	0.33	0.05	· 2.68	
Robinson @ 395	09/13/00		13.5	8	<.5	7.2	82	0.109	0.107	0.0020	0.0005	0.001	9.77		з	1.63	0.4	4	11.8	I
	······································					••••					·			~				· ·		

Date	Site	Discharge cfs(inst)	TEMP	D.O. mg/L	Turbldity Ntu	рH	EC uS/cm	TKN mg/L	NO3 mg/L	NH4-N mg/L	P mg/L	PO4 mg/L	Ca mg/L	Mg mg/L	Na mg/L	K mg/L	CI mg/L	SO4 mg/L	S
Robinson @ 395	09/17/00					7.6				+									41.00
Robinson @ 395	10/12/00	1 1				6.8							1 1	1	1	1,	1	1	
-	11/14/00													1 7	1 '	1 1	1 7	í · '	1 "
Robinson @ 395 Robinson @ 395						7.3								1 '	1 '	1 . 7	1. 7	1 .'	
Robinson @ 395	12/12/00			10.1		1.07	8 83						· · ·	1. 7	1 2 2	1 : 1	6 2 21	1	E.
Robinson at gauge	04/12/00		4 2	9.6	- 1 - 1	8.2	2 60			1 1			1	.1 7	1	1	1!	1 .'	1 - * -
Robinson at gauge	05/1 0/0 0		81	8.9		87	8 58						7.88		.1 . 2'	2 0.84			1
Robinson at gauge	05/19/00					8.1							9.80						
Robinson at gauge	05/30/00					7.5								3 1.17	7 1.85	5 0.46	5 0,38	4.00	4
Robinson at gauge	06/08/00				2 0.4	· 7.8	B 56	6 0.009						(· ·)	1 ,	1 1 1 1	é F	1	1
Robinson at gauge	06/15/00	0 178.0	52.4	9.6		7.9										6 0.48	0.32	2 3.97	A
Robinson at gauge	7/12/00					7.4													
Robinson at gauge	07/13/00					7.8)	4 . 7	ſ ?	1 2	1 9	1 . 217	0
Robinson at gauge	07/25/00					6.9							9.75	5 · 0,53	3 0.65	5 0,22	0.21	0.12	2 .
Robinson at gauge	08/10/00					7.4								£,	1 ,7	1 J - 1	4 7	4 1977	1
	08/24/00					7.4 6.6							· · ·	.1 ·	4 17-	0.44	0.21	0.90	o .
Robinson at gauge																		1 Jar	A
Robinson at gauge	09/14/00					7.7			•						1.7				
Robinson at gauge	09/17/00		52.5			7.9								2 0.79	1 . 1.70	0,49	0.37	1 1/2 577	£
Robinson al gauge	10/12/00					7.4								4 5 7	4. 7	1 1	4 9	1 1	1 : 7
Robinson at gauge	11/14/00			8.7	1 1	7.6								1 . 7	f ' .'	1 1	4 F		J
Robinson at gauge	12/13/00	1 1	1 I			8.3								1 7	1 . 7	1 .)	4 · J	4 187	
Robinson at Reservoir	04/11/00	()	16			8.2								1. 1	1	1)	4 J	1 41	6
Robinson at Reservoir	05/09/030		17	1		. 87	88 88								3.6			4	
Robinson at Reservoir	05/19/00		51.2			8.2												1	
Robinson at Reservoir	05/30/00		49.9		3 4.62	7.8			0.257					4.41	1 6.61	1 1.93	1.33	4	
Robinson at Reservoir	06/07/000	123				7.7	7 68	0.012			0.027			£ · *	1 7	()	4)	1	Anth
Robinson at Reservoir	06/15/00		55.9			7.6								6 0.29	9 0.47	7 0.09	0.24		
Robinson at Reservoir	07/11/00				1 1	7.5						0.003		1	.1 . 7	1 1	1 J	1 19	1
Robinson at Reservoir	07/25/00		79.2			7.8								7 2.90	0 4.75	5 1.63	0.71	0.11	4.8
Robinson at Reservoir	08/08/00					7.6	1 1							()	1	1	i)	1 127	1
Robinson at Reservoir	08/24/00		66.8		1 1	7.0 7.7	1 1	•						3.10	0 4.87	1.73	0.56	0.16	4 (E
Robinson at Reservoir	09/12/00	1 1	11.5	7.6		7.1									4.87 5.4				f
	09/12/00		• •											1 · I		• •			5
Robinson at Reservoir			56.1	f 7, L		7.8								3.26	5 5,40	1 2.00	4 6.90	4 0.19	1
Robinson at Reservoir	10/11/00		7.5			7.6						0,001		4 7	í ?	1)	4 J	4 - F F	6 . 1
Robinson at Reservoir	11/15/00		4	9.1		7.4								4 · 2 /	1	1 3	4 F	4 ·	1
Robinson at Reservoir	12/11/00		2.5		1 1	; B.2						0.007		(* .)	1	1)	i J	4 50	1.
Sauger at Campground	04/13/00		5.5			8.3	1 1							1	1 1	1	ن ، ا	4 - j ^e	1 1 1
Sauger at Campground	05/11/00		4	10.9														3.5	
Sauger at Campground	05/19/0-0		45.7	8.9				4 · · ·					• •	· · · ·					
Sauger at Campground	05/30/0-0		46.1	B.7		8.0								4.06	6.22	2 1.90	1.30	4.40	1
Sauger at Campground	06/09/00	2.3	· 10 .	F = 1	2.1		201	0.294			0.1	0.060			C Set 1	1 121	12 3 1	12	1
Sauger at Campground	, 7 06/15/OO	5.3	50.3	8.1	2.88	7.6	6	l · · · 0.3	0.050	0.0069	0.08	0.090	17.22		7 9.98	3 2.10	1.42	.5.24	1 1
Sauger at Campground	07/12/00	1 3	10,5	9.1	0.7	2 S 8	8 201		. .			0.056		19.3	F E	1	230 S 🔰 🗍	4 · · · · · · · · · · · · · · · · · · ·	12.00
Sauger at Campground	07/25/00				1 1	7.9	128.9									2.85	0.50	÷0.15	5 1
Sauger at Campground	08/21/00				1							· · ·							
Sauger at Campground	09/13/010		i j	8.5		7.3							11.5	3.92	2 3 11.8		1.3		
Sauger at Campground	09/17/00				I. I	7.6												ſ. ſ	
Sauger at Campground	: 10/12/00			9.9	0.43	7.6								4	1 1	1	4	4	1 7
	11/14/00	4 * •												4 i 3 k	1 . 1	4 s.J.	4 ¹⁹ 🕴	4 F	1
Sauger at Campground				10.1										11 12 🖓	1 7	1. J	4 5 J	r. ~ J	1
Sauger at Campground	12/12/00	6.1	1.5	10.7	0.5	8.5	5 136	0.1039	والتصييف فيتحدث وريها	0.0019	0.054	0.037	لسم		لنسب	لسببيها	المشيشيد	ليستنب	<u> </u>
•	i			. •	· .	, e , e		•		i.	1. Z	-			•••••••••••••••••••••••••••••••••••••••				
·	1.22					1					41 g					· · ·	a.		
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1						•-	•,			•							•		

Table 5: Comparison of mean values, upstream and downstream sites (see text) • •

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· .	Gauge	395	· · · · · · · · · · · · · · · · · · ·	Gauge	Reservoir
Mean	0.134807	0.128813333	Mean	0.134807	0.159813
Variance	0.035682	0.026782871	Variance	0.035682	0.039144
Observations	15	15 -	Observations	15	15
Pearson Correlation	0.880425		Pearson Correlation	0.799121	
Hypothesized Mean Difference df	0 14	ан салан Алтар	Hypothesized Mean Difference	. 0 14	
t Stat	0.259031	· ·	t Stat	-0.78829	· -
P(T<=t) one-tail	0.399691		P(T<=t) one-tail	0.221836	
t Critical one-tail	1.761309	• • • •	t Critical one-tail	1.761309	
P(T<=t) two-tail	0.799381		P(T<=t) two-tail	0.443672]
t Critical two-tail	2.144789	-	t Critical two-tail	2.144789	-

Mean Variance

df

t Stat P(T<=t) one-tail t Critical one-tail P(T<=t) two-tail

	Gauge	395
Mean	0.018068	0.051019335
Variance	0.000338	0.008650369
Observations	15	15
Pearson Correlation	0.162122	·
Hypothesized Mean Differe	nce O	-
df	- 14	
t Stat	-1.38964	•
P(T<≖t) one-tail	0.093171	an tanan
t Critical one-tail	1.761309	•:
P(T<=t) two-tail	0.186341	
t Critical two-tail	2.144789	

A.966900	0.00000000		
15	15	•	Observations
0.162122			Pearson Correlation
0			Hypothesized Mean Difference

P(T<=t) one-tail t Critical one-tail P(T<=t) two-tail	0.093171 <u>1.761309</u> 0.186341
t Critical two-tail	2.144789
- 5	

Buckeye at FS vs Buckeye at 395, NH4

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	Gauge	395
Mean	0.005193	0.005546667
Variance	1.95E-05	8.74267E-06
Observations	15	15
Pearson Correlation	0.021738	
Hypothesized Mean Difference	0	
df	14	
t Stat	-0.26008	
P(T<=t) one-tail	0.399295	•
t Critical one-tail	1.761309	و محمد م
P(T<=t) two-tail	0.798589	
t Critical two-tail	2,144789	

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14 -1.0603 0.153479 1.761309 0.306959 2.144789 t Critical two-tail

Buckeye at FS vs Buckeye at Reservoir, NO3

 Gauge
 Reservoir

 0.018068
 0.032498

 0.000338
 0.003121

 15
 15

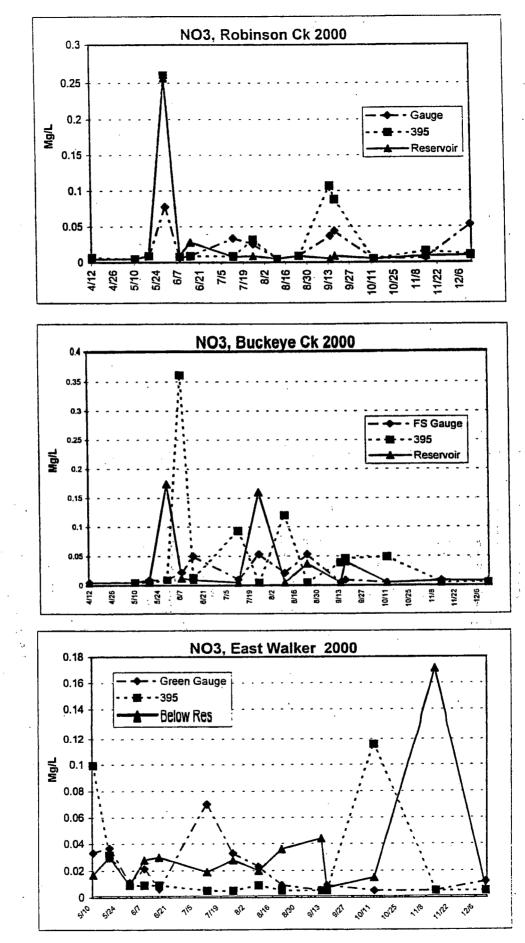
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0.331145

	Gauge	Reservoir
Mean	0.005193	0.01116
Variance	1.95E-05	0.000485
Observations	15	15
Pearson Correlation	0.23369	
Hypothesized Mean Difference	0	
df	14	
Stat	-1.07877	
P(T<=t) one-tail	0.149462	
t Critical one-tail	1.761309	_
P(T<≖t) two-tail	0.298924]
t Critical two-tail	2.144789	-

Buckeye at FS vs Buckeye a	t 395, P			Buckeye at FS vs Buckeye at I	teservoir, r	
	Gauge	395			Gauge	Reservoir
Mean	0.0304	0.044933333	÷.	Mean	0.0304	0.0564
Variance	0.000806	0.001287781	÷,	Variance	0.000806	0.000688
Observations	15	15		Observations	15	. 15
Pearson Correlation	0.705578			Pearson Correlation	0.574623	
Hypothesized Mean Difference		•		Hypothesized Mean Difference	0	
34				df	14	
or tStat	-2.19744			t Stat	-3.98621	
P(T<=t) one-tail	0.022658			P(T<=t) one-tail	0.000676	
	1.761309	and and		t Critical one-tail	1.761309	
P(T<=t) two-tail	0.045317			P(T<=t) two-tail	0.001352	
t Critical two-tail	2,144789	e an e		t Critical two-tail	2.144789	

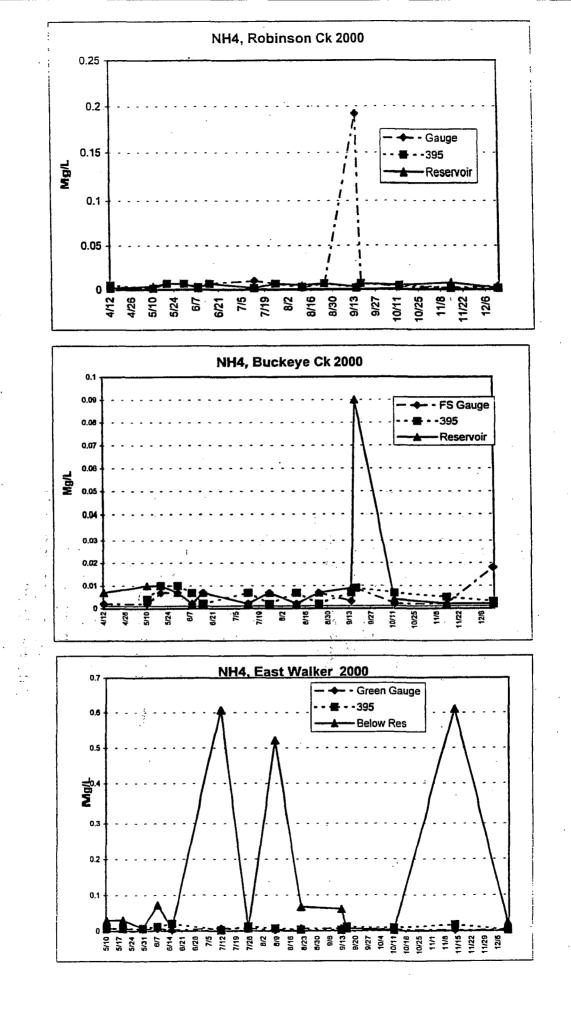
Figure 1: Compared nutrient values for US and DS sites



Robinson at Gauge vs Robins	on at 395, NH	4	Robinson at Gauge vs Robinson at Res., NH4				
	Gauge	395		Gauge	Reservoir		
Mean	0.017013	0.0045	Mean	0.017013	0.00494		
Variance	0.002351	5.20171E-06	Variance	0.002351	5.25E-06		
Observations	15	15	Observations	15	15		
Pearson Correlation	-0.28134		Pearson Correlation	-0.22548			
Hypothesized Mean Difference	0		Hypothesized Mean Difference	0			
df	14		df	14			
t Stat	0.987138		t Stat	0.953296			
P(T<=t) one-tail	0.170165		P(T<=t) one-tail	0.178305			
t Critical one-tail	1.761309		t Critical one-tail	1.761309			
P(T<=t) two-tail	0.340329		P(T<=t) two-tail	0.356611			
t Critical two-tail	2.144789		t Critical two-tail	2.144789	•		

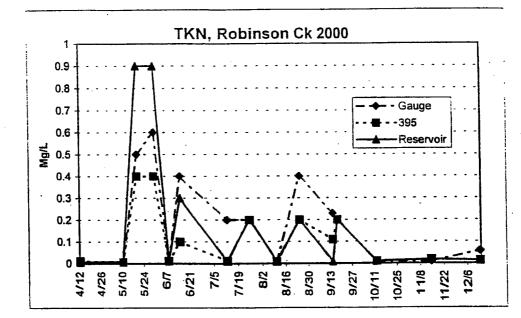
Robinson at Gauge vs Robins	on at 395, P		Robinson at Gauge vs Robinson at Res., P					
	Gauge	395	•	Gauge	Reservoir			
Mean	0.023293	0.0314	Mean	0.023293	0.040467			
Variance	0.000643	0.0011	Variance	0.000643	0.001305			
Observations	15	15	Observations -	15	15			
Pearson Correlation	0.606859		Pearson Correlation	0.696682				
Hypothesized Mean Difference	0		Hypothesized Mean Difference	0				
df	14		df	14				
t Stat	-1.15528		t Stat	-2.5662				
P(T<=t) one-tail	0.133656		P(T<=t) one-tail	0.011201				
t Critical one-tail	1.761309		t Critical one-tail	1.761309				
P(T<=t) two-tail	0.267313		P(T<=t) two-tail	0.022402				
t Critical two-tail	2.144789		t Critical two-tail	2.144789	8			

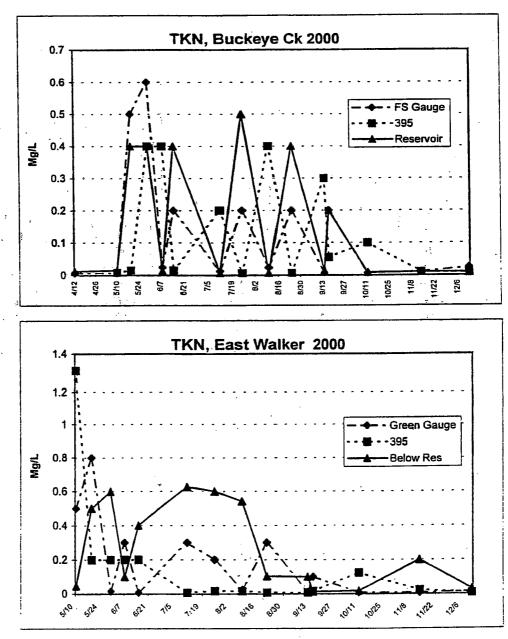
Robinson at Gauge vs Robinson at 395, PO4			Robinson at Gauge vs Robinson at Res., PO4				
, ,	Gauge	395			Gauge	Reservoir	
Mean	0.016553	0.0120	2	Меал	0.016553	0.01302	
Variance	0.000513	0.0001	•	Variance	0.000513	0.000227	
Observations	15	⁶ 15		Observations	15	° 15	
Pearson Correlation	0.102564			Pearson Correlation	0.306619		
Hypothesized Mean Difference	0			Hypothesized Mean Difference	· 0	,	
df	14			df	. 14		
t Stat	0.725714		ī.	t Stat	0.593909		
P(T<=t) one-tail	0.239985	-	į.	P(T<=t) one-tail	0.281024		
t Critical one-tail	1.761309			t Critical one-tail	1.761309		
P(T<=t) two-tail	0.47997			P(T<=t) two-tail	0.562047		
t Critical two-tail	2.144789		ż	t Critical two-tail	2.144789		



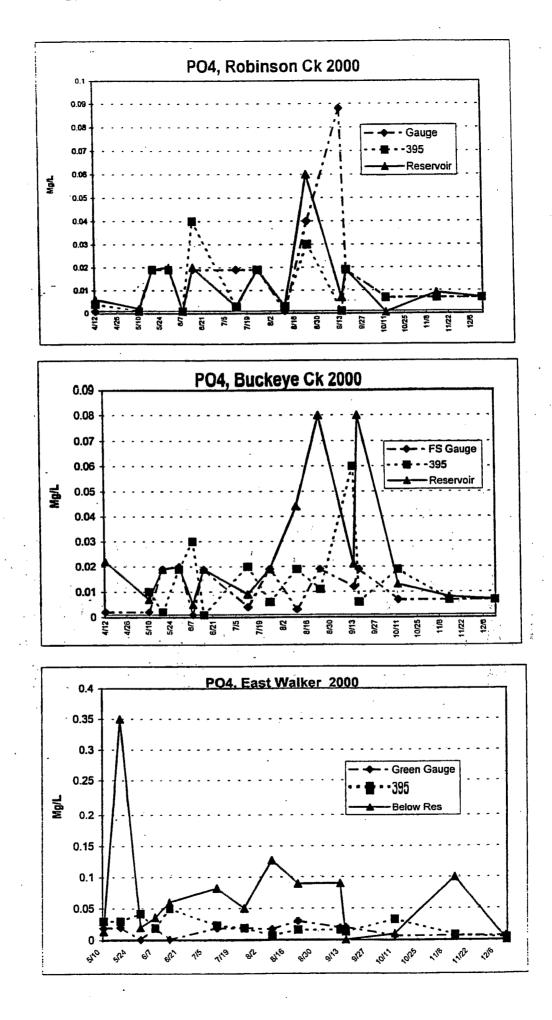


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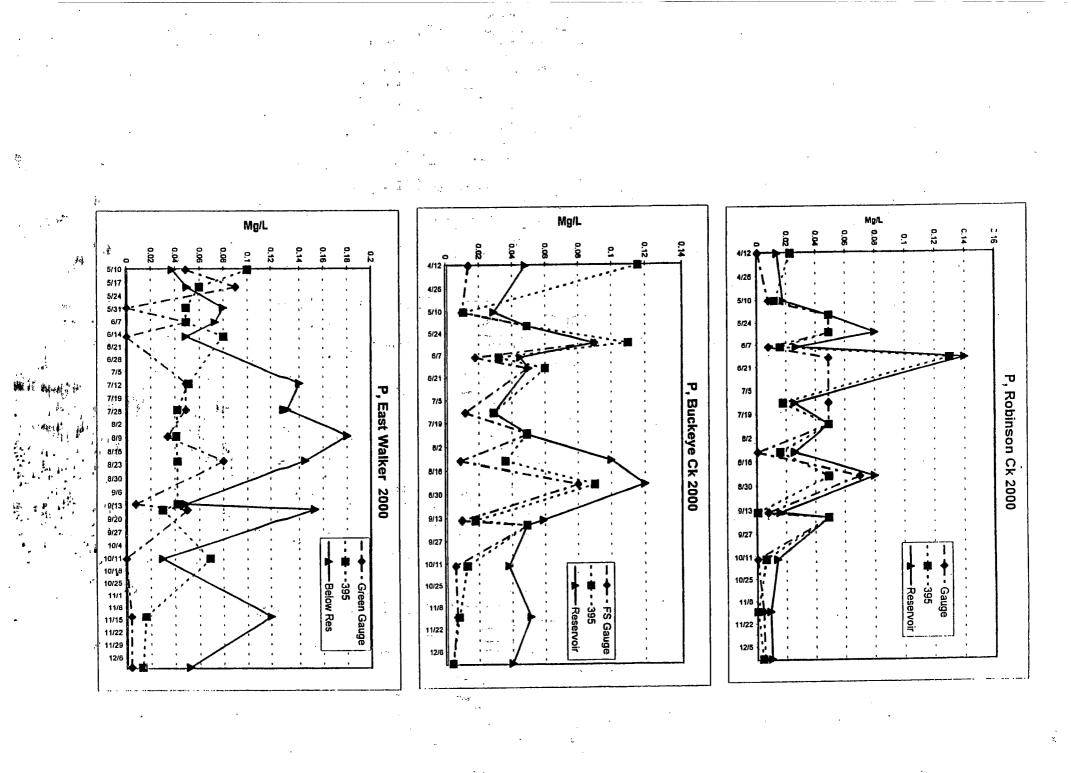
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