



Water-Data Report 2008

302957098062500 Lake Travis at Muleshoe Bend near Spicewood, TX

Middle Colorado-Llano Basin
Austin-Travis Lakes Subbasin

LOCATION.--Lat 30°29'57.1", long 98°06'25.5" referenced to North American Datum of 1983, Travis County, TX, Hydrologic Unit 12090205.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--

CHEMICAL DATA: May 2005 to June 2006.

BIOCHEMICAL DATA: May 2005 to June 2006.

SEDIMENT DATA: May 2005 to June 2006.

REMARKS.--The following sites were selected for USGS studies as part of the Colorado River Environmental Models System project.

302233097594000 Lake Travis Mid-Lake at Lakeway, TX

302329097542100 Lake Travis at Mansfield Dam near Lakeway, TX

302341097565800 Lake Travis at Arkansas Bend near Lakeway, TX

302723098031800 Lake Travis at Carpenter Bend near Lago Vista, TX

302807097543800 Lake Travis at Lime Ck confluence near Jonestown, TX

302859098005300 Lake Travis at Cow Ck confluence near Lago Vista, TX

302957098062500 Lake Travis at Muleshoe Bend near Spicewood, TX

303318098202000 Lake LBJ near Alvin Wirtz Dam near Marble Falls, TX

303322098152200 Lake Marble Falls near Starcke Dam near Marble Falls, TX

303430098244300 Lake LBJ near Sandy Creek near Granite Shoals, TX

303831098245800 Lake LBJ near Llano River Arm near Kingsland, TX

304355098225900 Inks Lake near Inks Dam near Kingsland, TX

The following chemical constituent data supplement sub-surface collections of natural phytoplankton that were incubated in growth chambers with seasonal light/dark cycles, ambient reservoir temperatures, and experimental nutrient treatments including:

Ambient samples that have no nutrients added are identified with a "Sample medium and type" of "Surface water, regular".

Control samples are the ambient samples that were incubated and are identified with a "Sample medium and type" of "QC - Surface water, reference".

Nitrate addition samples are offset by 1 minute from the associated ambient or control samples and have a "Sample medium and type" of "QC - Artificial, spike".

Phosphate addition samples are offset by 2 minutes from the associated ambient or control samples and have a "Sample medium and type" of "QC - Artificial, spike".

Nitrate plus phosphate addition samples are offset by 3 minutes from the associated ambient or control samples and have a "Sample medium and type" of "QC - Artificial, spike".

COOPERATION.--Lower Colorado River Authority

302957098062500 Lake Travis at Muleshoe Bend near Spicewood, TX—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

[Remark codes: <, less than.]

Date	Time	Sample medium and type	Particulate nitrogen, susp, water, mg/L (49570)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inorganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, unfltrd mg/L (00680)
May							
04-04	1145	Surface water, regular	--	--	--	--	3.4
Jun							
08-08	1320	Surface water, regular	.11	1.0	<.1	1.0	3.5
Jul							
07-07	1355	Surface water, regular	.10	.9	<.1	.9	7.9
Aug							
03-03	1300	Surface water, regular	.09	.8	<.1	.8	4.4
Sep							
08-08	1240	Surface water, regular	.12	.9	<.1	.9	3.5

302957098062500 Lake Travis at Muleshoe Bend near Spicewood, TX—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 1 of 2

[QC, quality control sample. Remark codes: <, less than.]

Date	Time	Sample medium and type	pH, water, unfltrd field, std units (00400)	Specif- ic conduc- tance, wat unf μS/cm 25 degC (00095)	Temper- ature, water, deg C (00010)	ANC, wat unf infl pt titr., field, mg/L as CaCO3 (00419)	Partic- ulate nitro- gen, susp, water, mg/L (49570)	Total carbon, suspnd sedimnt total, mg/L (00694)	Inor- ganic carbon, suspnd sedimnt total, mg/L (00688)
Oct									
05-05	1145	Surface water, regular	--	--	--	--	.17	1.1	<.1
Nov									
09-09	1200	Surface water, regular	--	--	--	--	.09	.7	<.1
Dec									
07-07	1230	Surface water, regular	--	--	--	--	.07	.6	<.1
Jan									
05-05	1220	Surface water, regular	--	--	--	--	.09	.6	<.1
Feb									
08-08	1115	Surface water, regular	--	--	--	--	.14	.8	<.1
Mar									
08-08	1230	Surface water, regular	--	--	--	--	.16	1.0	<.1
Apr									
05-05	1145	Surface water, regular	--	--	--	--	.16	1.4	<.1
Apr									
05-19	1146	QC - Surface water, reference	--	--	--	--	.17	2.9	--
Apr									
05-19	1147	QC - Artificial, spike	--	--	--	--	.25	2.9	--
Apr									
05-19	1148	QC - Artificial, spike	--	--	--	--	.21	3.1	--
Apr									
05-19	1149	QC - Artificial, spike	--	--	--	--	1.18	10.6	--
May									
04-04	1050	Surface water, regular	8.2	481	25.1	159	.14	.8	<.1
Jun									
07-07	1250	Surface water, regular	--	--	--	--	--	--	--
Jul									
07-07	1300	Surface water, regular	--	--	--	--	--	--	--

302957098062500 Lake Travis at Muleshoe Bend near Spicewood, TX—Continued

WATER-QUALITY DATA
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006

Part 2 of 2

[QC, quality control sample. Remark codes:

<, less than.]

Date	Organic carbon, suspnd sedimnt total, mg/L (00689)	Organic carbon, water, unfltrd mg/L (00680)	Data base number	Medium code
Oct				
05-05	1.1	3.8	01	WS
Nov				
09-09	.6	3.4	01	WS
Dec				
07-07	.6	3.5	01	WS
Jan				
05-05	.6	4.0	01	WS
Feb				
08-08	.8	3.5	01	WS
Mar				
08-08	.9	3.5	01	WS
Apr				
05-05	1.4	4.2	01	WS
Apr				
05-19	--	--	02	WSQ
Apr				
05-19	--	--	02	OAQ
Apr				
05-19	--	--	02	OAQ
Apr				
05-19	--	--	02	OAQ
May				
04-04	.8	3.6	01	WS
Jun				
07-07	--	4.9	01	WS
Jul				
07-07	--	5.8	01	WS