

Data after February 2018 is preliminary and subject to change during data review and validation process  
TABLE 23

TNRCC Segment 1803  
 TNRCC Station 12672  
 Station Number 23 Upper San Marcos River upstream of IH 35  
 Latitude 29/52/31 Longitude 97/55/54

Parameter	Parameter Code	Date and 24 hour time											
		3/17/98 1503	6/11/98 1206	9/25/98 1010	12/07/98 1301	4/12/99 1114	6/14/99 1523	9/14/99 1301	12/13/99 1102	3/20/00 1338	7/17/00 1529	10/31/00 927	1/22/01 913
Flow (cfs)	00061			243		195			119	118	143	121	242
Fecal Coliform(org/100mL)	31616	<12	556	132	23	46	76	35	44	4	47	112	24
Suspended Solids(mg/L)	00530	4.6	9.9	2.8	1.8	9.5	2.2	1.3	2.3	17.3	1.9	5.9	2.9
Turbidity(NTU)	82079	2.2	2.4	1.9	1.7	1.8	1.6	2.3	1.1	4	1.2	2.6	1.4
pH	00400	7.84	7.77	7.64	7.27	8.06	7.68	7.93	8.04	7.91	7.84	7.13	7.53
Temperature(C)	00010	23.24	22.91	22.5	21.58	22.12	23.83	23.02	19.54	22.37	25.01	22.36	20.17
Dissolved Oxygen(mg/L)	00300	10.56	9.22	9.08	8.81	8.89	11.28	12.09	8.93	11.07	10.87	8.6	8.99
Conductivity(umhos/cm)	00094	608	592	522	624	623	581	567	577	610	594	593	636
Total Phosphorus(mg/L)	00665	0.07	0.24	0.02	<0.01	<0.01	0.28	<0.01	0.08	0.11	0.02	0.19	0.02
Nitrate-N(mg/L)	00620	1.35	1.18	1.3	1.4	1.14	1	1.1	1.27	1.11	1.39	1.24	1.22
Chloride(mg/L)	00940	42.2	22.1	19.7	22	19.9	21.5	18.6	19.1	18.2	19.2	19.9	20.4
Sulfate(mg/L)	00945	26.6	22.8	25.4	14.6	24	19.3	20.6	20.6	22.4	24.4	22.2	21.6
Total Hardness(mg/L)	00900	251	261	292	346	307	256	270	226	205	291	297	311
Ammonia-N(mg/L)	00610	0.04	0.13		0.03	0.07	0.04	0.14	0.09	0.08	0.09	0.04	0.08
E. coli(org/100mL)	31648	<12	364	68	18	40	52	16	44	4	34	80	14
Chlorophyll a(mg/m <sup>3</sup> )	32211	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.1	<1.0	<1	<1

Parameter	Parameter Code	Date and 24 hour time											
		3/19/01 1309	7/16/01 1130	10/10/01 1135	12/17/01 939	3/18/02 1435	6/11/02 1418	9/23/02 1441	12/16/02 1453	3/19/03 1257	6/23/03 1421	09/15/03 1455	01/12/04 1557
Flow (cfs)	00061	266	186	205	338	251	176	297	326	295	220	196	152
Fecal Coliform(org/100mL)	31616	4	26	80	**								
Suspended Solids(mg/L)	00530	1.8	3.4	2.6	4	3.6	2.7	<1	2.4	1.7	1.2	1.1	3
Turbidity(NTU)	82079	1.5	1	1.4	1.6	1.6	1	1.8	1.2	1.2	1.7	0.12	1.7
pH	00400	7.87	7.48	7.42	7.46	7.65	7.61	7.67	7.67	7.79	7.7	7.94	7.84
Temperature(C)	00010	21.38	22.94	22.44	20.99	22.22	23.82	22.9	22	22.4	23.7	23.6	21.5
Dissolved Oxygen(mg/L)	00300	10.94	9.97	9.26	9.14	9.94	9.62	10.33	10.06	10.8	9.48	8.09	13
Conductivity(umhos/cm)	00094	639		603	618	608	620	613	620	647	635	646	618
Total Phosphorus(mg/L)	00665	0.07	<0.01	0.02	0.14	<0.01	0.03	<0.05	<0.05	0.06	<0.02	0.16	0.1
Nitrate-N(mg/L)	00620	2.04	1.2	1.34	1.5	1.3	1.3	0.76	0.8	0.56	0.44	1.31	0.74
Chloride(mg/L)	00940	20.3	20.4	22.6	21.8	19	18.7	16.9	17.9	19.4	18.7	19.5	17.6
Sulfate(mg/L)	00945	23	22.8		23.8	23.8	23.8	24.6	25.5	26.8	26	26.9	24.4
Total Hardness(mg/L)	00900	284	319	291	288	280	309	322	310	311	120	312	293
Ammonia-N(mg/L)	00610	<0.02	<0.02	0.03	<0.02	0.03	<0.02	0.05	0.02	<0.02	0.02	0.02	<0.02
E. coli(org/100mL)	31699	4	20	22	194	13	34	61	12	21	24	152	23
Chlorophyll a(mg/m <sup>3</sup> )	32211	<1	<1.0		<1.0	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<5.0
Pheophytin(mg/m <sup>3</sup> )	32218				<1.0	<1.0	<1.0	1.19	<1.0	1.81	<1.0	1	<3.0

\*\* Fecal coliform was dropped from the list of parameters analyzed. E. coli is used for the water quality index (126 org/100mL).

Parameter	Parameter Code	Date and 24 hour time											
		03/08/04 1448	06/15/04 1435	9/13/04 1330	12/8/04 1350	3/03/05 1326	6/06/05 1345	9/08/05 1405	12/9/05 1042	3/02/06 1541	6/05/06 1402	9/08/06 1342	12/06/06 1320
Flow (cfs)	00061	153	222	202	277	303	239	179	139	130	114	90	100
E. coli(org/100mL)	31699	15	34	41	64	58	50	25	100	50	34	140	<1
Suspended Solids(mg/L)	00530	3.3	3.2	1.5	4.9	2.9	2.7	4.7	6	<1	4	2	3.7
Turbidity(NTU)	82079	1.89	1.69	1.7	3.6	1.9	2.6	4	2.3	1.5	1.7	2	2.4
pH	00400	7.64	7.69	7.62	7.61	7.51	7.55	7.77	7.66	7.66	7.43	7.59	7.84
Temperature(C)	00010	22.8	23.6	23.1	21.4	21.6	23.4	23.2	19.2	24	25.2	23.7	21.1
Dissolved Oxygen(mg/L)	00300	12.2	9	9.92	11.1	10.9	10.16	9.24	10.6	10.7	11.8	10.3	10.8
Conductivity(umhos/cm)	00094	648	617	691	643	628	626	611	620	600	622	597	647
Total Phosphorus(mg/L)	00665	0.05	0.09	0.05	0.07	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Nitrate-N(mg/L)	00620	0.29	0.57	0.38	1.2	1.2	1.21	1.24	1.27	1.12	1.19	1.18	1.31
Chloride(mg/L)	00940	19	21.4	19.1	20.4	17.9	18	19	19	19.2	20.3	19	19.5
Sulfate(mg/L)	00945	25.7	28.2	25	29.4	24.4	23.8	25.3	25.4	27.5	28.8	27.2	27
Total Hardness(mg/L)	00900	300	304	304	303	311	300	299	318	286	320	300	297
Ammonia-N(mg/L)	00610	0.06	0.03	0.02	0.02	0.03	0.02	0.02	0.02	<0.02	0.04	<0.02	<0.02
Chlorophyll a(mg/m <sup>3</sup> )	32211	<5.0	<5.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Pheophytin(mg/m <sup>3</sup> )	32218	<3.0	<3.0	<3	<3	<3	<3	<3	<1	2.5	<1	<1	<1

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 TABLE 23 (cont.)

TCEQ Segment 1803  
 TCEQ Station 12672  
 Station Number 23 Upper San Marcos River upstream of IH 35  
 Latitude 29/52/31 Longitude 97/55/54

Parameter	Parameter Code	Date and 24 hour time											
		3/08/07 1338	7/09/07 1359	9/12/07 1400	1/07/08 1312	4/09/08 1458	6/11/08 1218	11/12/08 1357	1/07/09 1401	4/07/09 1447	6/03/09 1358	9/03/09 1352	1/12/10 1444
Flow (cfs)	00061	186	271	437	222	169	128	104	98	97	91	86	180
E. coli(org/100mL)	31699	12	73	84	100	37	35	170	130	30	460	67	51
Suspended Solids(mg/L)	00530	5	6	2.3	<1	1	5	2.3	1	3.3	3	3.3	6.3
Turbidity(NTU)	82079	3.9	2.1	0.52	1.2	1.2	<0.5	0.17	1.4	1.41	3.9	1.6	1.3
pH	00400	7.75	7.47	7.41	7.6	7.6	7.6	7.7	7.7	7.8	7.6	7.6	7.7
Temperature(C)	00010	22.7	23.1	22.9	21.9	22.4	23.9	22.5	20.3	22.5	24	24.3	21.3
Dissolved Oxygen(mg/L)	00300	12.7	10.5	11.1	9.4	9.3	9.5	10.4	10.9	11.9	12.9	11.1	11
Conductivity(umhos/cm)	00094	652	642	613	613	579	598	621	617	626	625	619	621
Total Phosphorus(mg/L)	00665	<0.05	<0.05	0.14	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Nitrate-N(mg/L)	00620	1.12	1.31	1.02	0.95	1.12	1.17	1.13	1.22	1.09	1.29	1.14	1.21
Chloride(mg/L)	00940	16.3	19.6	18.6	16.5	17.6	17.8	19.8	23.8	23.8	17.7	18.7	19.4
Sulfate(mg/L)	00945	26.6	27.9	27	24.2	27.7	26.8	29.1	31.2	27.4	25.6	27.2	31.1
Total Hardness(mg/L)	00900	314	299	306	291	311	304	299	307	307	329	321	322
Ammonia-N(mg/L)	00610	0.04	0.04	<0.1	0.51	<0.1	<0.1		0.12	<0.1	<0.1	0.13	<0.1
Chlorophyll a(mg/m <sup>3</sup> )	32211	1.9	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	2.5
Pheophytin(mg/m <sup>3</sup> )	32218	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Kjeldahl Nitrogen (mg/L)	00625			<0.5	<0.5	<0.2	0.27	<0.2	0.21	<0.2	0.29	<0.2	0.42

Parameter	Parameter Code	Date and 24 hour time											
		4/14/10 1444	7/6/10 1535	10/7/10 1436	12/2/10 1348	01/05/11 1430	03/03/11 1324	04/05/11 1406	6/2/11 1532	7/12/11 1327	8/1/11 1401	9/13/11 1428	10/18/11 1511
Flow (cfs)	00061	246	225	211	172	169	147	148	115	108		93	92
E. coli(org/100mL)	31699	38	56	38	79		59		82			51	
Suspended Solids(mg/L)	00530	4.7	3.7	2.7	3.2		2.2		1.5			1.4	
Turbidity(NTU)	82079	1.6	2.2	1	1.5		1.3		1.7			1.2	
pH	00400	7.6	7.5	7.7	7.7	7.7	7.8	7.9	7.7			7.7	7.6
Temperature(C)	00010	22.1	24.7	22.8	21.3	21.5	22.3	22.4	25.2			24.6	21.4
Dissolved Oxygen(mg/L)	00300	12.2	5.5	9.9	9.7	10	10.6	10.4	10.1			9.6	10.3
Conductivity(umhos/cm)	00094	627	619	617	615	613	629	626	620	640	640	645	616
Total Phosphorus(mg/L)	00665	<0.05	<0.05	<0.05	<0.05		<0.05		<0.05			<0.02	
Nitrate-N(mg/L)	00620	1.31	0.81	1.17	1.18		1.23		1.13			1.48	
Chloride(mg/L)	00940	20.5	20.5	18.9	19.3		21.1		20.3			17.8	
Sulfate(mg/L)	00945	29.8	29.6	26	26.7		30		28			24.4	
Total Hardness(mg/L)	00900	310	311	288	319		301		305			307	
Ammonia-N(mg/L)	00610	0.12	<0.1	0.22	<0.1		0.16		<0.1			<0.1	
Chlorophyll a(mg/m <sup>3</sup> )	32211	<1	<1	1.2	<1		<1		<1			<1	
Pheophytin(mg/m <sup>3</sup> )	32218	<1	<1	<1	<1		<1		<1			<1	
Total Kjeldahl Nitrogen (mg/L)	00625	0.37	0.31	<0.2	<0.2		0.22		<0.2			0.2	
Total Dissolved Solids (mg/L)				332	332	336	326	356	306	306	318	324	338

Parameter	Parameter Code	Date and 24 hour time											
		11/7/11 1336	12/7/11 1510	1/10/2012 1509	2/14/12 1202	3/6/12 1534	5/2/12 1552	7/10/12 1420	8/14/12 1409	9/5/12 1401	10/17/12 1502	11/19/12 1207	12/18/12 1613
Flow (cfs)	00061	94	98				190	190					
E. coli(org/100mL)	31699		76				23	1200					
Suspended Solids(mg/L)	00530		2				2.4	2.9					
Turbidity(NTU)	82079		1.4				1.3	1.8					
pH	00400	7.6	7.7				7.6	7.8					
Temperature(C)	00010	22.3	19.2				23	22.9					
Dissolved Oxygen(mg/L)	00300	8.9	10.6				9.8	9.1					
Conductivity(umhos/cm)	00094	654	650	627	643	833	631	610	624	618	632	622	630
Total Phosphorus(mg/L)	00665		0.02				0.02	0.02					
Nitrate-N(mg/L)	00620		1.69				1.26	1.18					
Chloride(mg/L)	00940		20.8				20.1	19.7					
Sulfate(mg/L)	00945		28.4				27.7	26.8					
Total Hardness(mg/L)	00900		308				318	288					
Ammonia-N(mg/L)	00610		<0.1				0.23	<0.1					
Chlorophyll a(mg/m <sup>3</sup> )	32211		<1				<1	<1					
Pheophytin(mg/m <sup>3</sup> )	32218		<1				<1	<1					
Total Kjeldahl Nitrogen (mg/L)	00625	358	<0.2				0.42	<0.2					
Total Dissolved Solids (mg/L)				328	370	362	340	342	344	338	360	342	344

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TABLE 23 (cont.)

TCEQ Segment 1803  
TCEQ Station 12672  
Station Number 23 Upper San Marcos River upstream of IH 35  
Latitude 29/52/31 Longitude 97/55/54

Parameter	Parameter Code	Date and 24 hour time							
		1/7/13	2/4/13	3/20/13	4/17/13	5/14/13	6/5/13	7/10/13	8/28/13
		1520	1558	1544	1506	1749	1520	1537	1405
Flow (cfs)	00061								
E. coli(org/100mL)	31699								
Suspended Solids(mg/L)	00530								
Turbidity(NTU)	82079								
pH	00400								
Temperature(C)	00010								
Dissolved Oxygen(mg/L)	00300								
Conductivity(umhos/cm)	00094	610	609	638	1170	624	624	619	645
Total Phosphorus(mg/L)	00665								
Nitrate-N(mg/L)	00620								
Chloride(mg/L)	00940								
Sulfate(mg/L)	00945								
Total Hardness(mg/L)	00900								
Ammonia-N(mg/L)	00610								
Chlorophyll a(mg/m <sup>3</sup> )	32211								
Pheophytin(mg/m <sup>3</sup> )	32218								
Total Kjeldahl Nitrogen (mg/L)	00625								
Total Dissolved Solids (mg/L)		358	334	320	352	380	282	354	352

Parameter	Parameter Code	Date and 24 hour time											
		1/11/17	5/10/17	8/9/17	10/2/17	12/6/17	4/5/18	7/10/18	9/17/18	2/5/19	5/13/19	6/17/19	#####
		1259	1502	1253	1207	1309	1555	1357	1329	915	1440	1019	1445
Flow (cfs)	00061	218	274	177	218	167	194	140	158	260	261	288	181
E. coli(org/100mL)	31699	86	47	190	79	1400	42	320	44	54	20	490	53
Suspended Solids(mg/L)	00530	0.80	3.70	2.00	2.50	2.80	3.5	6.4	2.4	2	11.2	5.3	1
Turbidity(NTU)	82079	1.1	1.8	3.2	0.9	2.9	2	2.6	1.5	1	1.4	2.3	1.1
pH	00400	7.5	7.2	7.6	7.6	7.6	7.6	7.4	7.5	7.4	7.6	7.4	7.9
Temperature(C)	00010	21.9	22.4	23.4	24.5	19.4	22.6	24.2	23.2	22.1	23.2	22.1	22.4
Dissolved Oxygen(mg/L)	00300	9.9	8.8	9.3	9.1	8.9	9.8	9.4	9.7	9.4	7.4	7.8	9.6
Conductivity(umhos/cm)	00094	613	625	621	619	583	632	622	621	637	620	605	619
Total Phosphorus(mg/L)	00665	<0.02	<0.02	<0.02	<0.02	0.03	<0.02	0.02	0.02	<0.02	<0.02	0.31	0.021
Nitrate-N(mg/L)	00620	1.10	1.27	1.19	1.30	1.20	1.2	1.31	1.28	1.26	1.22	1.19	1.24
Chloride(mg/L)	00940	21.2	19.7	20.9	21.1	19.1	20.4	20.6	20.9	21.4	22	20.9	20.2
Sulfate(mg/L)	00945	28.3	25.4	28.0	28.0	26.0	28.2	28.9	29.4	28.6	30.4	28.2	28
Total Hardness(mg/L)	00900	300	304	313	301	282	305	302	311	314	314	304	313
Ammonia-N(mg/L)	00610	<0.10	<0.10	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Chlorophyll a(mg/m <sup>3</sup> )	32211	<1.00	1.57	1.16	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	1.78	<1.00
Pheophytin(mg/m <sup>3</sup> )	32218	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Total Kjeldahl Nitrogen (mg/L)	00625	<0.20	<0.20	<0.20	<0.20	0.69		0.38	<0.20	<0.20	<0.2	0.42	<0.20

Parameter	Parameter Code	Date and 24 hour time	
		2/17/20	5/14/20
		1353	1123
Flow (cfs)	00061	157	167
E. coli(org/100mL)	31699	180	140
Suspended Solids(mg/L)	00530	2.70	3.20
Turbidity(NTU)	82079	1.2	1.4
pH	00400	7.4	7.6
Temperature(C)	00010	22.1	24
Dissolved Oxygen(mg/L)	00300	10	10.1
Conductivity(umhos/cm)	00094	625	628
Total Phosphorus(mg/L)	00665	<0.02	0.022
Nitrate-N(mg/L)	00620	1.26	1.24
Chloride(mg/L)	00940	21.3	21.8
Sulfate(mg/L)	00945	30.1	31
Total Hardness(mg/L)	00900	316	305
Ammonia-N(mg/L)	00610	<0.10	<0.10
Chlorophyll a(mg/m <sup>3</sup> )	32211	<1.00	<1.00
Pheophytin(mg/m <sup>3</sup> )	32218	<1.00	<1.00
Total Kjeldahl Nitrogen (mg/L)	00625	0.2	<0.20