



TABLE 21

TNRCC Segment 1803  
 TNRCC Station 13700  
 Station Number 21 Guadalupe River near Spring Branch at RR 311  
 Latitude 29/53/00 Longitude 97/23/00

Parameter	Parameter Code	Date and 24 hour time											
		1/22/01 1206	2/15/01 1026	3/19/01 929	4/9/01 1128	5/1/01 1112	6/19/01 1026	7/16/01 911	8/15/01 1046	9/12/01 1106	10/9/01 1311	11/8/01 1315	12/17/01 1320
Flow (cfs)		691	729	922	647	486	186	108	84	357	160	203	729
Fecal Coliform(org/100mL)	31616	30	282	32	20	35	36	30	61	364	206	58	**
Suspended Solids(mg/L)	530	2.8	8.4	3.9	4.4	7.8	12.2	21.4	15.6	11.4	5.4	6.1	2.9
Turbidity(NTU)	82079	2.3		2.5	2.5	4	10	11	5.5	7.8	6.5	3.9	1.8
pH	400	8.01	7.83	7.91	7.98	8	8.11	7.59	7.42	8.04		8.1	7.94
Temperature(C)	10	10.23	16.72	13.46	21.99	21.66	26.52	29.12	29.1	24.31	21.33	19.05	16
Dissolved Oxygen(mg/L)	300	12.64	10.95	11.2	9.87	9.09	8.15	7.45	7.95	8.6	9.55	10.13	11.16
Conductivity(umhos/cm)	94	577	549	561	560	562	554		551	516	505	527	548
Total Phosphorus(mg/L)	665	0.02	0.06	0.07	0.01	0.05	0.03	<0.01	0.02	0.02	0.01	<0.01	0.12
Nitrate-N(mg/L)	620	1.11	1.16	0.81	0.74	0.61	0.37	0.3	0.25	0.69	0.48	0.35	1
Chloride(mg/L)	940	18	19.8	18.9	18.2	19.3	23.5	29.6	26	14.9	20.3	17.8	15.2
Sulfate(mg/L)	945	23	24.4	25	21.8	26	25.7	22.6	23.8	22.1		28.5	19.1
Total Hardness(mg/L)	900	274	280	267	305	278	266	215	241	246	244	270	263
Ammonia-N(mg/L)	610		<0.02		<0.02		<0.02		0.03		0.07		<0.02
E. coli(org/100mL)	31699	28	196	26	4	30	5	17	4	32	200	28	276
Chlorophyll a(mg/m <sup>3</sup> )	32211	<1	1.1	<1	<1.0	2.5	1	2.6	1.3	<1	5.9	<1	2.1
Pheophytin(mg/m <sup>3</sup> )	32218												<1.0

\*\*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											
		1/17/02 1317	2/12/02 1405	3/25/02 1244	4/24/02 1345	5/14/02 925	6/10/02 1013	7/23/02 941	8/8/02 1006	9/17/02 958	10/15/02 915	11/12/02 925	12/17/02 1602
Flow (cfs)		425	311	229	193	123	117	2150	604	352	377	690	546
E. coli(org/100mL)	31699	78	26	99	12	51	66	81	61	140	345	316	105
Suspended Solids(mg/L)	530	2	1.5	4.4	4.9	5.8	12.6	43.1	5.6	13.6	20.4	9.3	4.6
Turbidity(NTU)	82079	1	1.1	1.9	3.3	2.8	5.7	9.5	3.2	9	4.5	5.2	3
pH	400	8.12	8.11	8.12	8.06	7.91	8.1	7.87	7.89	7.92	8.05	7.9	7.97
Temperature(C)	10	13.85	12.63	18.56	25.97	22.87	28.26	25.4	26.2	23.9	18.9	17.3	15.8
Dissolved Oxygen(mg/L)	300	10.64	12.22	9.29	9.42	7.45	8.48	7.74	8.3	7.85	9.06	9.85	11.1
Conductivity(umhos/cm)	94	552	559	530	510	525	496	618	602	569	564	592	573
Total Phosphorus(mg/L)	665	0.05	0.1	0.04	0.02	0.03	0.01	0.05	0.31	<0.05	<0.05	0.06	0.05
Nitrate-N(mg/L)	620	0.79	0.99	0.58	0.48	0.25	0.17	1.85	0.89	0.58	0.41	0.37	0.57
Chloride(mg/L)	940	20.4	15.3	19.8	18.2	18.4	17.3	13.4	15.8	17	15.1	15.2	16.3
Sulfate(mg/L)	945	21.4	23.4	21.8	19.3	19.5	17.5	22.1	28.2	25.4	20.6	24.2	25.6
Total Hardness(mg/L)	900	274	248	239	224	224	254	359	295	280	281	289	310
Ammonia-N(mg/L)	610		<0.02		<0.02		0.02		<0.02		0.02		
Chlorophyll a(mg/m <sup>3</sup> )	32211		2.4	1	<1	<1	2.3	1.3	<1	3.34	<1	<1	<1
Pheophytin(mg/m <sup>3</sup> )	32218		<1	1.4	1.7	4.6	3.2	6.1	4.6	1.57	<1	7.28	4.6

Parameter	Parameter Code	Date and 24 hour time											
		1/10/03 1447	2/27/03 1050	3/21/03 956	4/16/03 1603	5/16/03 1105	6/25/03 1347	7/29/03 1530	8/18/03 1305	09/10/03 1227	10/02/03 1129	11/06/03 1140	12/02/03 1511
Flow (cfs)		448	896	586	416	242	226	182	132	141	138	193	178
E. coli(org/100mL)	31699	39	275	30	2	29	26	26	23	34	38	96	37
Suspended Solids(mg/L)	530	5.3	7.5	7.6	8.2	13.7	19.3	3.1	15.5	23.4	12.3	7.1	2.1
Turbidity(NTU)	82079	3.2	4	4	4.6	6.6	2	3.5	5.2	16.9	12.4	6.58	3.3
pH	400	8.02	7.9	7.53	7.83	7.79	7.6	8.11	8.07	8.12	8.36	8.21	8.4
Temperature(C)	10	13.9	9.71	15.8	23.3	26.2	29.7	27.8	28.6	26.5	21.3	21.9	14.7
Dissolved Oxygen(mg/L)	300	11.4	13.1	10.8	10.3	7.15	8.4	7.33	8.24	8.42	8.59	8.69	11.1
Conductivity(umhos/cm)	94	580	557	561	563	551	522	484	526	478	528	519	537
Total Phosphorus(mg/L)	665	0.05	<0.05	<0.05	<0.05	<0.05	0.02	0.02	0.02	0.28	<0.02	<0.02	0.16
Nitrate-N(mg/L)	620	0.39	0.26	0.48	0.47	0.22	0.11	0.08	0.07	0.58	0.07	0.18	0.03
Chloride(mg/L)	940	17	14.5	16.3	19.3	19.6	17.2	15.7	19.2	17.5	19	16.9	17.8
Sulfate(mg/L)	945	26.7	23.1	25.7	29.4	27.3	21.9	20.5	22.7	21.7	21.6	21.3	22.3
Total Hardness(mg/L)	900	300	276	283	266	268	243	247	250	203	242	249	260
Ammonia-N(mg/L)	610		<0.02		0.02		0.02		0.02		<0.02		<0.02
Chlorophyll a(mg/m <sup>3</sup> )	32211	<1	<1	3.74	<1	1.6	3	<1	<1	1.4	19	1.1	<5
Pheophytin(mg/m <sup>3</sup> )	32218	1.18	5.36	<1	2.33	1.67	<1	3.1	<1	<1	21.6	1.1	<3



TABLE 21 (cont.)

TCEQ Segment 1803  
 TCEQ Station 13700  
 Station Number 21 Guadalupe River near Spring Branch at RR 311  
 Latitude 29/53/00 Longitude 97/23/00

Parameter	Parameter Code	Date and 24 hour time											
		1/10/07	2/7/07	3/5/07	4/2/07	5/7/07	6/11/07	7/10/07	8/8/07	9/17/07	10/10/07	11/12/07	12/10/07
Flow (cfs)	00061	76	108	73	1760	740	908	1250	1420	1260	705	420	264
E. coli(org/100mL)	31699	22	42	6	440	200	46	73	79	54	72	80	105
Suspended Solids(mg/L)	00530	5.7	10.3	5	53	24	5.3	13.3	18.3	3.7	2.3	1.7	<1
Turbidity(NTU)	82079	4.4	5.9	5	35.9	16.7	3.95	7.6	5.2	5.8	2.26	1	0.69
pH	00400	7.99	8.09	8.1	7.91	8.1	8.01	8.05	7.99	7.95	7.99	8.01	8.06
Temperature(C)	00010	9.93	13.2	13.2	20.2	23.1	26.5	26.2	26.9	25.1	23.7	20.3	16.6
Dissolved Oxygen(mg/L)	00300	12.5	11.4	12	8.33	10.3	11.3	9.86	8.44	9.54	9.26	9.85	10.3
Conductivity(umhos/cm)	00094	583	570	565	504	554	561	518	500	555	533	523	555
Total Phosphorus(mg/L)	00665	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Nitrate-N(mg/L)	00620	0.28	0.49	0.16	1.03	0.54	0.85	0.47	0.66	1.77	1.03	0.97	0.31
Chloride(mg/L)	00940	22.6	20.3	20.2	10.2	9.1	14.4	12.6	12.9	14	16.2	18.7	16.1
Sulfate(mg/L)	00945	26	25.6	25.5	19	23.2	25.8	18.7	22.7	24.4	27.3	26.7	24
Total Hardness(mg/L)	00900	246	242	247	260	284	282	266	263	275	267	272	266
Ammonia-N(mg/L)	00610		<0.02		0.02		0.03		0.03		<0.10		<0.10
Chlorophyll a(mg/m <sup>3</sup> )	32211	<1	<1	<1	<1	1.9	<1	<1	<1	1.6	<1	<1	<1
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

Parameter	Parameter Code	Date and 24 hour time											
		1/9/08	2/12/08	3/10/08	4/8/08	5/6/08	6/10/08	7/2/08	8/5/08	9/8/08	10/6/08	11/11/08	12/3/08
Flow (cfs)	00061	201	175	178	139	97	47	36	25	37	32	45	58
E. coli(org/100mL)	31699	130	100	440	40	53	70	61	12	820	46	26	44
Suspended Solids(mg/L)	00530	<1	12	3.7	1.7	2.3	3.7	7	5.3	7.3	8.7	3	2.3
Turbidity(NTU)	82079	0.52	1.6	2.6	1.3	1.9	3.6	4.68	6.4	7.8	6.68	2.4	1.2
pH	00400	8	8	8.2	8.1	8.1	8.1	8.1	8.1	8.2	8.3	8	7.9
Temperature(C)	00010	13.9	15.5	13.4	22	22.9	28.9	27.4	31	28.6	24.1	19.3	13.9
Dissolved Oxygen(mg/L)	00300	10.5	10.6	11.7	8.4	9.9	8.6	8.2	7.7	7.9		8.9	11.1
Conductivity(umhos/cm)	00094	538	498	513	491	465	485	464	469	462	475	485	589
Total Phosphorus(mg/L)	00665	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Nitrate-N(mg/L)	00620	0.97	0.88	0.71	0.43	---	0.16	0.13	0.11	<0.05	<0.5	<0.05	<0.05
Chloride(mg/L)	00940	15.6	17.6	18	1.74	20.9	20.2	22.2	24	22.1	23.9	23.5	21.8
Sulfate(mg/L)	00945	23.1	26.4	25.5	24.3	25.4	23.2	24.9	24.3	19.8	23.9	25.2	23.9
Total Hardness(mg/L)	00900	258	266	238	241	255	219	221	206	197	217	227	246
Ammonia-N(mg/L)	00610		<0.1		<0.1		<0.1		<0.1		<0.1		0.13
Chlorophyll a(mg/m <sup>3</sup> )	32211	<1	1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Pheophytin(mg/m <sup>3</sup> )	32218	<1	<1.0	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1
Total Kjeldahl Nitrogen (mg/L)	00625		<0.5		<0.5		0.21		0.23		0.2		<0.2

Parameter	Parameter Code	Date and 24 hour time											
		1/5/09	2/2/09	3/9/09	4/8/09	5/4/09	6/1/09	7/7/09	8/5/09	9/8/09	10/7/09	11/9/09	12/02/09
Flow (cfs)	00061	61	56	43	49	90	66	13	31	2.1	82	131	208
E. coli(org/100mL)	31699	29	11	59	37	55	120	34	43	68	150	280	250
Suspended Solids(mg/L)	00530	2.3	4.7	13	5	8.3	10	6.3	8.7	5	17	7	6
Turbidity(NTU)	82079	1.69	3.04	8.8	4.4	2.1	2.2	4.9	7.2	4.4	10.1	6.2	5.4
pH	00400	8	8.1	8.1	8.3	8	8.2	8.2	8.3	8.1	8.1	8.1	8
Temperature(C)	00010	11	10.8	21.2	17.4	24.3	27.2	29.9	30.3	27.8	24.4	18.5	12.2
Dissolved Oxygen(mg/L)	00300	12.4	11.8	9.3	10.2	8.7	8.4	9.8	8.3	8.2	7.3	6.8	10.8
Conductivity(umhos/cm)	00094	503	506	457	455	460	463	464	476	458	479	508	531
Total Phosphorus(mg/L)	00665	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Nitrate-N(mg/L)	00620	0.14	0.26	0.11	0.09	0.18	0.05	<0.05	<0.05	0.15	0.57	0.33	0.42
Chloride(mg/L)	00940	28.3	23.6	24.7	25.5	26.4	23.2	27.5	26.9	26.5	14.4	19.8	19.9
Sulfate(mg/L)	00945	30.8	25.7	26.9	27.7	25.8	21.9	19.2	21.7	17.4	14	21.1	27.8
Total Hardness(mg/L)	00900	236	237	216	222	214	214	237	226	209	252	257	279
Ammonia-N(mg/L)	00610		<0.1		<0.1		<0.1		0.15		0.12		0.16
Chlorophyll a(mg/m <sup>3</sup> )	32211	<1	<1	<1	<1	1.1	<1	<1	<1	<1	1.9	1.2	<1
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		<0.2		<0.2		0.32		0.22		0.27		0.21

TABLE 21 (cont.)

TCEQ Segment 1803  
 TCEQ Station 13700  
 Station Number 21 Guadalupe River near Spring Branch at RR 311  
 Latitude 29/53/00 Longitude 97/23/00

Parameter	Parameter Code	Date and 24 hour time											
		1/11/10	2/10/10	3/2/10	4/6/10	5/3/10	6/8/10	7/7/10	8/2/10	9/13/10	10/5/10	11/16/10	12/3/10
Flow (cfs)	00061	110	1000	605	322	548	282	287	127	378	171	113	105
E. coli(org/100mL)	31699	28	200	40	21	40	18	23	38	90	37	43	66
Suspended Solids(mg/L)	00530	<1	8	3.7	5.3	4	4.7	6.3	10	6.7	3.4	<1	1.9
Turbidity(NTU)	82079	0.5	6.2	1.5	5	4.4	6.1	4.6	10.5	11.5	2.8	1.7	1.6
pH	00400	8	7.7	8	8	8.2	8.1	8.1	8.1	8.1	8.2	8.1	8.1
Temperature(C)	00010	5.3	11.4	13.2	21.6	21.2	27.6	28.6	28.9	27.3	20.1	16.2	12.3
Dissolved Oxygen(mg/L)	00300	11.1	10.2	10.7	14.9	9.4	7	8.5	9.1	7.7	9.1	9.7	10.3
Conductivity(umhos/cm)	00094	549	539	561	548	543	518	503	493	476	491	531	540
Total Phosphorus(mg/L)	00665	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
Nitrate-N(mg/L)	00620	0.58	1.06	0.91	0.45	1.07	0.46	0.27	0.23	0.48	0.09	0.25	0.23
Chloride(mg/L)	00940	22.4	14.8	17.8	19	17.4	18.5	15.7	21.7	17.1	17.9	20.3	10.1
Sulfate(mg/L)	00945	30.7	24	26.4	30.7	26.4	24.3	18.3	25.2	19.3	20.6	24.9	12.5
Total Hardness(mg/L)	00900	274	288	279	276	260	259	240	241	240	236	252	258
Ammonia-N(mg/L)	00610		<0.1		<0.1		0.11		<0.1		0.17		<0.1
Chlorophyll a(mg/m <sup>3</sup> )	32211	<1	<1	<1	<1	<1	<1	<1	<1	2.2	<1	<1	<1
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		0.2		<0.2		0.3		0.26		<0.2		<0.2

Parameter	Parameter Code	Date and 24 hour time											
		1/4/11	2/14/11	3/1/11	4/6/11	5/9/11	6/1/11	7/7/11	8/3/11	9/6/11	10/12/11	11/2/11	12/7/11
Flow (cfs)	00061	114	99	91	59	36	15	1.8	0	dry	8.1	4.4	43
E. coli(org/100mL)	31699	180	58	110	34	68	26	110	77		460	120	66
Suspended Solids(mg/L)	00530	1.2	2	4	7.4	7.1	6.3	3.1	4		1.4	1	<1
Turbidity(NTU)	82079	0.9	1.4	1.5	4.3	3.4	5.5	2.9	4.3		1.4	1.2	0.5
pH	00400	8.1	8	8.2	8.1	8.2	8.2	8.1	8.1		8	7.9	8
Temperature(C)	00010	11.1	9.9	17.5	20	27.3	30.6	32.7	29.5		23.6	18.8	10.1
Dissolved Oxygen(mg/L)	00300	10.6	11.1	9.7	8.8	8.1	8.4	9.1	5.2		5.2	6.4	11.3
Conductivity(umhos/cm)	00094	532	519	510	518	502	479	479	423		504	510	526
Total Phosphorus(mg/L)	00665	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05		0.02	<0.02	<0.02
Nitrate-N(mg/L)	00620	0.4	0.46	0.37	0.11	0.07	0.14	0.12	0.09		0.2	<0.05	0.05
Chloride(mg/L)	00940	22	21.5	23.8	24.7	25.2	26.9	25.7	35.6		24.8	32.5	28.7
Sulfate(mg/L)	00945	26.7	25.9	27.5	25.7	24.1	23.5	17.9	15.1		17.9	24.6	22.6
Total Hardness(mg/L)	00900	250	244	246	245	236	214	204	162		222	222	228
Ammonia-N(mg/L)	00610		0.1		0.12		0.12		0.29			0.14	
Chlorophyll a(mg/m <sup>3</sup> )	32211	<1	<1	<1	1.1	<1	<1	1.4	<1		1.2	<1	<1
Pheophytin(mg/m <sup>3</sup> )	32218	<1	<1	<1	<1	<1	<1	<1	<1		<1	<1	<1
Total Kjeldahl Nitrogen (mg/L)	00625		<0.2		0.22		0.26		0.95		0.21	0.25	0.21

Parameter	Parameter Code	Date and 24 hour time											
		1/3/2012	2/8/2012	3/5/12	4/9/12	5/1/12	6/13/12	7/9/12	8/13/12	9/4/12	10/16/12	11/7/12	12/12/12
Flow (cfs)	00061	36	50	61	109	45	64	31	7.4	1.2	42	33	37
E. coli(org/100mL)	31699	23	130	81	74	100	61	220	19	34	96	46	71
Suspended Solids(mg/L)	00530	<1.00	1.70	3.5	8.4	5.2	11.9	14.5	10.9	10.1	19.8	9.4	1.9
Turbidity(NTU)	82079	0.6	1.4	2.2	3.5	3.1	5	8.8	8.2	9.4	10.8	7.2	2.5
pH	00400	8.1	7.9	7.9	8.1	8.2	8.2	7.8	8.1	8.3	7.5	7.9	7.8
Temperature(C)	00010	10.2	12.3	17.5	24	24.8	28.9	29.6	30.6	30	19.6	19.7	11
Dissolved Oxygen(mg/L)	00300	11.8	11.2	10.4	8.9	8.5	7.9	7.4	9.2	9	10	9.4	11
Conductivity(umhos/cm)	00094	565	531	518	544	526	505	474	462	464	505	505	546
Total Phosphorus(mg/L)	00665	<0.02	<0.02	0.02	<0.02	0.02	0.02	0.02	0.03	0.02	0.02	<0.02	<0.02
Nitrate-N(mg/L)	00620	0.21	0.34	0.29	0.53	0.15	0.09	0.14	0.13	0.14	0.09	0.15	0.15
Chloride(mg/L)	00940	28.6	28.1	26.8	23.3	23.9	21.7	20.7	25.1	25.1	26.5	26.3	29.1
Sulfate(mg/L)	00945	29.1	28.5	30.6	27.7	26.2	24.4	21.5	20.6	19.1	25.4	23.8	27.3
Total Hardness(mg/L)	00900	244	242	256	246	248	232	224	222	213	233	228	246
Ammonia-N(mg/L)	00610	0.23		0.23		0.12		0.12		0.16	0.17	0.15	
Chlorophyll a(mg/m <sup>3</sup> )	32211	<1.0	<1.0	<1	<1	<1	1.1	1.2	1.7	1.84	<1	<1	<1
Pheophytin(mg/m <sup>3</sup> )	32218	<1.0	<1.0	<1	<1	<1	<1	<1	<1	<1	1.81	<1	1.56
Total Kjeldahl Nitrogen (mg/L)	00625	<0.20		0.21	0.29	0.23	0.32	<0.2	0.23	0.28	0.26	0.2	<0.2

TABLE 21 (cont.)

TCEQ Segment 1803  
 TCEQ Station 13700  
 Station Number 21 Guadalupe River near Spring Branch at RR 311  
 Latitude 29/53/00 Longitude 97/23/00

Parameter	Parameter Code	Date and 24 hour time											
		1/8/13	2/5/13	3/19/13	4/10/13	5/6/13	6/3/13	7/9/13	8/5/13	9/9/13	10/8/13	11/4/13	12/2/13
Flow (cfs)	00061	59	55	46	69	36	134	19	4.6	DRY	18	39	54
E. coli(org/100mL)	31699	110	40	19	40	42	150	>2420	3		68	440	56
Suspended Solids(mg/L)	00530	2.9	7.30	11.3	17.6	11.3	5.7	13.3	8.4		10.9	5.1	5.5
Turbidity(NTU)	82079	1.7	7.1	8.2	13.6	8.42	20.7	13	9		8.2	3.5	3.6
pH	00400	8.2	8.1	8.1	8.2	8.2	8.1	8	8.4		8.5	8.1	8.1
Temperature(C)	00010	9.1	15.4	21.6	19.9	21.5	27.7	29.3	33		21.9	18.7	13.9
Dissolved Oxygen(mg/L)	00300	10.6	10	9.2	8.5	9.5	8.2	8	9.6		8.8	10.1	10.4
Conductivity(umhos/cm)	00094	535	524	522	523	484	497	483	466		491	490	527
Total Phosphorus(mg/L)	00665	<0.02	0.02	<0.02	0.02	0.03	0.02	0.02	0.05		0.02	<0.02	<0.02
Nitrate-N(mg/L)	00620	0.19	0.19	0.14	0.11	0.15	0.2	0.12	0.11		0.16	0.12	0.19
Chloride(mg/L)	00940	29.1	26.2	29.5	32	18.7	22.6	25	25.8		32.5	27.2	29.3
Sulfate(mg/L)	00945	27.2	26.8	27.8	30.8	30	19.6	20.7	19.4		23.7	20.7	27
Total Hardness(mg/L)	00900	252	246	236	242	227	244	220	204		218	217	241
Ammonia-N(mg/L)	00610	0.14		0.13		0.1		0.12				<0.1	
Chlorophyll a(mg/m <sup>3</sup> )	32211	<1	3.86	3.6	1.99	<1	1.25	1.54	<1		1.51	1.42	<1
Pheophytin(mg/m <sup>3</sup> )	32218	<1	<1	20.5	<1	<1	<1	1.24	<1		<1	<1	4.55
Total Kjeldahl Nitrogen (mg/L)	00625	<0.2	0.26	<0.2	0.36	0.3	0.39	<0.2	<0.2			0.21	

Parameter	Parameter Code	Date and 24 hour time											
		1/15/14	2/4/14	3/11/14	4/8/14	5/5/14	6/9/14	07/01/14	8/4/14	9/2/14	10/7/14	11/11/14	12/2/14
Flow (cfs)	00061	49	43	38	24	5.7	64	23	1.7	Dry	12	56	31
E. coli(org/100mL)	31699	30	40	61	45	87	1500	60	7		38	180	93
Suspended Solids(mg/L)	00530	2.60	3.90	8.11	13.8	7.80	12.3	13.1	8.70		4.50	4.70	3.00
Turbidity(NTU)	82079	2.3	2.9	7.7	9.7	11.6	9.2	6.7	9.1		4.1	4.7	2.4
pH	00400	7.6	7.8	8.1	8.1	8.3	7.7	7.8	8.0		8.1	8.3	7.7
Temperature(C)	00010	10.9	10.4	15.6	17.7	24.7	26.1	30.2	28.5		25.8	15.9	12.8
Dissolved Oxygen(mg/L)	00300	11.9	11.5	10.5	10.0	9.4	7.3	8.4	10.5		8.3	10.3	9.8
Conductivity(umhos/cm)	00094	575	579	556	569	548	462	479	458		531	495	553
Total Phosphorus(mg/L)	00665	<0.02	<0.02	0.02	0.02	0.02	<0.02	<0.02	0.02		<0.02	<0.02	<0.02
Nitrate-N(mg/L)	00620	0.21	0.24	0.08	0.17	0.17	0.12	<0.05	<0.05		<0.05	0.10	<0.05
Chloride(mg/L)	00940	30.3	32.3	35.0	34.2	34.8	21.1	27.0	26.3		34.1	31.2	33.2
Sulfate(mg/L)	00945	30.0	31.8	31.9	28.6	26.8	19.7	19.8	16.3		21.6	21.4	25.9
Total Hardness(mg/L)	00900	251	249	239	257	244	222	213	200		216	231	246
Ammonia-N(mg/L)	00610	<0.10		0.30		0.22		0.28				0.35	
Chlorophyll a(mg/m <sup>3</sup> )	32211	<1.0	<1.0	---	2.27	2.31	1.16	1.19	1.54		1.51	1.25	<1.0
Pheophytin(mg/m <sup>3</sup> )	32218	<1.0	1.04	---	<1.0	<1.0	10.8	<1.0	<1.00		<1.0	<1.00	<1.0
Total Kjeldahl Nitrogen (mg/L)	00625	0.20		<0.2		0.298		0.37				0.22	

Parameter	Parameter Code	Date and 24 hour time												
		1/6/15	2/2/15	3/9/15	4/6/15	5/6/15	6/8/15	7/6/15	8/4/15	9/1/15	10/19/15	11/11/15	12/1/15	
Flow (cfs)	00061	46	79	74	64	143	1260	607	171		83	48	161	426
E. coli(org/100mL)	31699	34	100	390	78	140	46	29	40		29	77	220	730
Suspended Solids(mg/L)	00530	1.90	7.00	9.20	5.60	39.80	6.50	5.90	5.20		6.80	3.50	3.10	9.40
Turbidity(NTU)	82079	1.8	6.2	9.6	9.1	34.5	5.1	3.7	4.0		4.0	4.2	3.4	6.9
pH	00400	7.5	8.2	7.9	8.3	7.8	7.9	8.0	8.0		8.0	8.3	8.0	8.0
Temperature(C)	00010	9.5	12.8	12.0	20.9	23.2	25.7	27.3	28.8		27.6	20.6	20.1	14.4
Dissolved Oxygen(mg/L)	00300	11.7	10.9	10.1	8.9	8.4	9.6	8.7	7.9		7.9	9.1	9.2	9.9
Conductivity(umhos/cm)	00094	553	550	514	549	528	618	551	554		551	545	548	511
Total Phosphorus(mg/L)	00665	<0.02	<0.02	0.02	<0.02	0.02	<0.02	<0.20	<0.02		<0.02	<0.02	<0.02	<0.02
Nitrate-N(mg/L)	00620	0.21	0.46	0.25	1.38	0.20	1.78	1.05	0.55		0.35	0.23	0.70	0.67
Chloride(mg/L)	00940	34.6	28.7	27.1	34.2	22.4	20.1	22.1	24.7		26.7	29.0	19.2	17.8
Sulfate(mg/L)	00945	26.2	28.4	24.9	28.1	25.6	25.8	28.4	30.5		30.5	33.9	22.5	20.0
Total Hardness(mg/L)	00900	251	259	223	256	278	290	274	260		263	254	265	249
Ammonia-N(mg/L)	00610	0.23		<0.10		<0.10		<0.10			<0.10		<0.10	
Chlorophyll a(mg/m <sup>3</sup> )	32211	<1.0	<1.0	<1.0	1.19	1.78	1.19	<1.00	<1.00		1.01	<1.00	<1.00	1.10
Pheophytin(mg/m <sup>3</sup> )	32218	<1.0	<1.0	<1.0	<1.0	<1.0	<1.00	<1.00	<1.00		<1.00	<1.00	<1.00	<1.00
Total Kjeldahl Nitrogen (mg/L)	00625	<0.20		<0.20		0.24		<0.20			0.24		<0.20	

TABLE 21 (cont.)

TCEQ Segment 1803  
 TCEQ Station 13700  
 Station Number 21 Guadalupe River near Spring Branch at RR 311  
 Latitude 29/53/00 Longitude 97/23/00

Parameter	Parameter Code	Date and 24 hour time											
		1/4/16	2/10/16	3/7/16	4/5/16	5/3/16	6/7/16	7/11/16	8/2/16	9/19/16	10/10/16	11/16/16	12/14/16
Flow (cfs)	00061	347	195	157	249	569	2070	455	268	217	207	215	300
E. coli(org/100mL)	31699	120	26	95	52	230	95	30	17	40	43	83	170
Suspended Solids(mg/L)	00530	2.90	2.20	6.40	7.20	11.6	8.00	1.00	1.70	6.70	4.80	3.00	1.90
Turbidity(NTU)	82079	2.2	2	4.0	4.7	12.6	13.4	3.6	2.0	6.2	4.4	2.7	1.7
pH	00400	8.2	8.1	7.9	8.1	7.9	7.9	7.9	7.8	7.9	8.0	7.9	7.8
Temperature(C)	00010	11.4	11.9	18.8	19.1	20.5	23.2	28.2	28.9	27.1	21.2	18.5	14.2
Dissolved Oxygen(mg/L)	00300	11.4	11.1	8.9	9.7	9.3	8.0	7.1	5.2	7.7	8.7	9.4	10.0
Conductivity(umhos/cm)	00094	567	569	543	540	524	590	556	548	529	517	516	531
Total Phosphorus(mg/L)	00665	<0.02	<0.02	<0.02	<0.02	0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Nitrate-N(mg/L)	00620	0.67	0.61	0.42	0.37	0.45	1.29	1.11	0.69	0.53	0.45	0.45	0.54
Chloride(mg/L)	00940	21.0	26	23.7	22.4	17.4	15.3	22.0	23.3	23.0	23.1	20.1	20.3
Sulfate(mg/L)	00945	25.6	31.7	28.5	26.8	22.1	21.6	31.3	31.4	25.7	25.6	22.8	24.1
Total Hardness(mg/L)	00900	270	269	272	258	271	291	256	263	247	233	237	258
Ammonia-N(mg/L)	00610	<0.10		<0.10		<0.10		<0.10		<0.10		<0.10	
Chlorophyll a(mg/m <sup>3</sup> )	32211	<1.00	<1.00	<1.00	<1.00	<1.00	1.01	1.34	1.01	-	<1.00	<1.00	<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
Total Kjeldahl Nitrogen (mg/L)	00625	<0.20		0.53		0.30		<0.20		<0.20		<0.20	

Parameter	Parameter Code	Date and 24 hour time											
		1/9/17	2/28/17	3/14/17	4/17/17	5/10/17	6/7/17	7/17/17	8/16/17	9/14/17	10/3/17	11/1/17	12/4/17
Flow (cfs)	00061	194	492	403	381	189	212	53	69	32	121	57	72
E. coli(org/100mL)	31699	42	110	36	400	22	48	37	55	32	>2400	35	46
Suspended Solids(mg/L)	00530	3.50	3.40	3.90	59.70	6.20	6.20	7.60	10.8	11.1	20.3	6.00	4.00
Turbidity(NTU)	82079	1.5	2.4	3.3	34.0	4.7	4.6	9.1	7.2	6.6	11.2	2.7	3.3
pH	00400	7.7	7.8	7.8	7.9	7.8	8.2	7.9	8.8	8.1	8.2	8.2	8.1
Temperature(C)	00010	8.4	18.5	17.1	22.3	22.0	26.5	31.4	29.9	26.0	24.8	16.1	18.2
Dissolved Oxygen(mg/L)	00300	11.3	8.1	8.9	8.4	8.6	8.0	7.1	6.7	6.8	8.0	10.0	8.3
Conductivity(umhos/cm)	00094	547	537	544	497	522	482	498	460	459	504	503	525
Total Phosphorus(mg/L)	00665	<0.02	<0.02	0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Nitrate-N(mg/L)	00620	0.62	0.46	0.50	0.33	0.26	0.18	0.08	0.10	0.05	0.28	0.13	0.13
Chloride(mg/L)	00940	23.9	18.3	19.8	15.6	21.5	21.1	22.8	21.8	25.7	25.6	24.2	24.4
Sulfate(mg/L)	00945	28.8	22.9	24.9	21.9	24.2	22.7	21.3	19.3	23.0	23.2	22.3	23.2
Total Hardness(mg/L)	00900	263	260	261	254	249	225	219	221	231	233	234	247
Ammonia-N(mg/L)	00610	<0.10		<0.10		<0.10		<0.10		<0.10		<0.10	
Chlorophyll a(mg/m <sup>3</sup> )	32211	<1.00	<1.00	<1.00	3.26	<1.00	<1.00	2.37	2.16	1.04	1.01	<1.00	<1.00
Pheophytin(mg/m <sup>3</sup> )	32218	<1.00	<1.00	<1.00	1.12	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
Total Kjeldahl Nitrogen (mg/L)	00625	0.29		<0.20		0.30		0.58		0.33		0.36	

Parameter	Parameter Code	Date and 24 hour time											
		1/17/18	2/20/18	3/8/18	4/9/18	5/3/18	6/7/18	7/9/18	8/1/18	9/6/18	10/8/18	11/5/18	12/4/18
Flow (cfs)	00061	83	78.8	82	60	45	0.5	1.8	0	0	193	711	323
E. coli(org/100mL)	31699	20	160	44	70	35	12	130	<1	45	120	64	51
Suspended Solids(mg/L)	00530	0.50	3.90	7.00	7.80	18.20	6.50	8.20	5.4	5.3	9.8	1.50	1.00
Turbidity(NTU)	82079	0.5	2.8	4.9	4.0	5.7	5.6	6.8	4.8	4.4	5.1	1	0.65
pH	00400	8.3	8.2	8.1	8.1	8.2	8.2	8.2	8.2	8.3	7.9	8.0	8.1
Temperature(C)	00010	6.7	18.2	16.8	18.8	24.0	31.4	28	28	31.0	25.7	19	13.6
Dissolved Oxygen(mg/L)	00300	12.4	9.2	9.7	9.3	8.6	8.3	7.4	6.4	10.1	8.1	9.4	10.7
Conductivity(umhos/cm)	00094	526	507	450	500	456	465	373	417	392	504	554	551
Total Phosphorus(mg/L)	00665	<0.02	<0.02	<0.02	<0.02	0.02	0.02	0.02	0.02	0.02	<0.02	0.15	0.02
Nitrate-N(mg/L)	00620	0.45	0.3	0.17	0.09	<0.05	<0.05	0.05	<0.05	<0.05	0.33	1.3	0.95
Chloride(mg/L)	00940	25.7	26.3	24.4	26.4	29.1	27.6	22.7	0.61	17.4	18.5	18.7	20.6
Sulfate(mg/L)	00945	25.7	25.9	23.8	23	25	19.5	14.8	0	25.2	18.9	23.3	25.4
Total Hardness(mg/L)	00900	249	239	230	229	232	208	177	172	174	254	280	275
Ammonia-N(mg/L)	00610	<0.10		<0.10		<0.10		0.1		<0.10		<0.10	
Chlorophyll a(mg/m <sup>3</sup> )	32211	<1.00	<1.0	<1.00	1.1	3.26	1.6	1.6	2.7	7.9	1.01	1.01	<1.00
Pheophytin(mg/m <sup>3</sup> )	32218	<1.00	<1.0	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	1.59	<1.00	<1.00	<1.00
Total Kjeldahl Nitrogen (mg/L)	00625	0.60		0.24		<0.20		0.37		<0.20		0.22	

