

TABLE 12

TNRCC Segment 1800
 TNRCC Station 12570
 Station Number 12 Dry Comal at Seguin St., New Braunfels, TX
 Latitude 29/42/16 Longitude 98/07/45

Parameter	Parameter Code	Date and 24 hour time											
		10/14/96	11/4/96	12/9/96	1/20/97	2/17/97	3/18/97	4/21/97	5/21/97	6/16/97	7/15/97	8/18/97	9/29/97
Flow (cfs)	61	0.36	1.2	0.61	172	1.62	1.63	1.53	1.13	2.4	1.1	0.34	0.91
Fecal Coliform(org/100mL)	31616	260	144	104	172	546	92	108	156	438	180	350	356
Suspended Solids(mg/L)	530	3.8	3.5	3	4.1	10.4	15.2	6.4	5.5	13.6	4.7	3	7.7
Turbidity(NTU)	82079	2.8	3.5	1.9	2.3	7	6.5	3.7	6	14	3.3	2.5	2.7
pH	400	7.49	7.41	7.76	8.24	8.56	8.2	7.52	7.03	6.96	7.35	7.67	7.55
Temperature(C)	10	20.24	17.67	14.17	14.42	12.43	18.93	20.11	22.75	25.3	25.01	24.1	21.97
Dissolved Oxygen(mg/L)	300	6.02	5.88	4.9	7.66	9.65	7.42	5.94	4.19	4.54	5.73	6.75	5.08
Conductivity(umhos/cm)	94	615	619	591	743	641	620	743	528	583	749	620	632
Total Phosphorus(mg/L)	665	0.1	0.04	0.1	0.12	0.1	0.06	0.05	0.14	0.12	0.26	0.09	0.07
Nitrate-N(mg/L)	630	1.16	1.06	0.94	1.13	0.85	0.41	1	0.86	0.82	0.91	1.9	1.8
Chloride(mg/L)	940	25.5	19.1	35.9	27.5	39.9	38.9	48.8	25.2	22.6	30.3	18.2	19
Sulfate(mg/L)	945	34	37.7	45.3	53.8	72.8	59.1	83.2	57	69.2	74	36.8	24.1
Total Hardness(mg/L)	900	221	300	268	328	300	256	282	115	277	334	180	379
Ammonia-N(mg/L)	610	0.06	0.07	0.07	0.09	0.09	0.17	0.17	0.17	0.18	0.18	0.04	0.04
E. coli(org/100mL)	31648	12	12	84	2	546	76	108	104	138	144	212	280
Chlorophyll a(mg/m ³)	32211	<1.0	<1.0	<1.0	4.45	2.2	4.9	7.2	6.5	2.4	2.4	<1.0	1.3

Parameter	Parameter Code	Date and 24 hour time											
		10/20/97	11/17/97	12/9/97	1/12/98	2/9/98	3/17/98	4/13/98	5/18/98	6/10/98	8/26/98	9/15/98	
Flow (cfs)	61	0.54	1.32	0.72	2.1	2.28		2.06	1.09	0.68		1.45	2.38
Fecal Coliform(org/100mL)	31616	258	128	462	262	450	6400	164	508	325		850	4600
Suspended Solids(mg/L)	530	4.1	2.5	3	8.2	7.6	78.8	8.8	4.4	4.8		8.2	15.2
Turbidity(NTU)	82079	2.9	6	2.2	9.8	7.4	148	4.5	2.8	3.5		26.5	26
pH	400	7.64	7.68	7.64	8.03	7.11	7.83	8.06	7.88	7.7		7.54	7.78
Temperature(C)	10	19.16	13.57	16.55	16.55	14.7	16.56	20.91	22.55	24.56		25.82	24.68
Dissolved Oxygen(mg/L)	300	5.36	6.81	5.44	7.16	8.31	8.58	6.01	5.92	6.09		5.26	5.46
Conductivity(umhos/cm)	94	643	585	665	534	635	353	808	715	661		438	401
Total Phosphorus(mg/L)	665	0.06	0.08	0.09	0.18	0.07	0.38	0.06	0.12	0.21		0.2	0.05
Nitrate-N(mg/L)	630	1.56	1.2	0.97	0.89	0.77	0.58	1.01	1.4	1.6		0.96	0.63
Chloride(mg/L)	940	18.4	20.1	24.7	21.8	29.3	13.5	37.4	26.3	19.1		11.6	14.5
Sulfate(mg/L)	945	34.3	46.4	39.5	50.6	62.3	9.2	89.4	41	24.9		3	26.4
Total Hardness(mg/L)	900	370	344	307	233	635	124	314	320	282		179	195
Ammonia-N(mg/L)	610	0.05	0.06	0.06	0.15	0.15	0.13	0.13	0.11	0.11		0.26	0.26
E. coli(org/100mL)	31648	194	88	375	200	358	6400	132	480	212		82	1000
Chlorophyll a(mg/m ³)	32211	<1.0	<1.0	<1.0	2.2	7.3	<1.0	3.9	<1.0	<1.0		2.2	2.7

Parameter	Parameter Code	Date and 24 hour time											
		10/27/98	11/10/98	12/8/98	1/11/99	2/8/99	3/15/99	4/12/99	5/12/99	6/8/99	7/12/99	8/23/99	9/15/99
Flow (cfs)	61	NA			2.6	2.36	1.9	1.2	1.85	0.88	6.17	0.53	0.36
Fecal Coliform(org/100mL)	31616	267	244	188	33	168	110	54	256	48	264	140	84
Suspended Solids(mg/L)	530	18	6	4.5	2.5	4.3	5.3	4.2	6.3	4.2	37.8	3.8	2.9
Turbidity(NTU)	82079	20	5.3	3.7	2.5	2.5	3.5	3.1	6.8	6.8	67	2.5	2.9
pH	400	7.36	7.58	7.28	7.26	7.27	7.85	7.71	7.95	7.52	7.84	7.92	7.85
Temperature(C)	10	21.86	18.84	18.78	15.23	20.75	19.87	23.73	23.55	26.42	26	25.37	24.06
Dissolved Oxygen(mg/L)	300	8.15	7.2	6.92	15.29	7.7	9.39	10.29	5.68	9.7	7.78	5.68	8.48
Conductivity(umhos/cm)	94	222	764	979	940	985	929	862	666	687	346	662	639
Total Phosphorus(mg/L)	665	0.08	0.02	<0.01	0.06	<0.01	0.12	0.13	0.15	0.16	0.26	0.01	<0.01
Nitrate-N(mg/L)	630	0.22	0.9	0.93	1.2	1.1	0.79	0.56	0.97	1.25	1.48	1.51	1.11
Chloride(mg/L)	940	6.7	36.2	53.3	46.8	44.2	38.4	38	29.7	27.9	8.2	24	21.8
Sulfate(mg/L)	945	<0.5	79.9	58.5	98.7	112	90.4	67	49.3	43.6	6	35.4	26
Total Hardness(mg/L)	900	90.6	262	269	320	338	348	363	250	305	164	338	329
Ammonia-N(mg/L)	610	0.16	0.12	0.12	0.11	0.11	0.17	0.17	0.25	0.25	0.11	0.11	0.11
E. coli(org/100mL)	31648	225	152	140	24	152	16	4.2	100	48	104	8	12
Chlorophyll a(mg/m ³)	32211	<1.0	1.2	<1.0	<1.0	2.7	<1.0	9.8	4	<1	<1	2.3	<1
Total Dissolved Solids(mg/L)	70300	180											

TABLE 12

TNRCC Segment 1800
 TNRCC Station 12570
 Station Number 12 Dry Comal at Seguin St., New Braunfels, TX
 Latitude 29/42/16 Longitude 98/07/45

Parameter	Date and 24 hour time												
	Parameter Code	10/19/99	11/10/99	12/14/99	1/24/00	2/14/00	3/21/00	4/18/00	5/11/00	6/26/00	7/18/00	8/13/00	9/25/00
Flow (cfs)	61		0.37	0.32	1.05	0.38	1.18	1.58	1.24	0.89	1.15	1.3	0.38
Fecal Coliform(org/100mL)	31616	1350	74	54	4	41	66	74	102	180	112	212	96
Suspended Solids(mg/L)	530	3.4	2.1	5.6	5.3	5.2	4.6	5.1	14	6.2	9.6	3	4.8
Turbidity(NTU)	82079	15.5	2.7	2.2	3	3.3	4.4	3.2	7.5	2.5	5.9	2.5	1.2
pH	400	7.81	7.56	7.55	7.77	7.79	7.83	7.65	7.62	7.55	7.84	7.27	7.83
Temperature(C)	10	22.49	20.36	16.29	18.54	22.01	20.86	23.38	27.19	29.55	32.26	26.27	21.45
Dissolved Oxygen(mg/L)	300	5.99	10.63	12	12.49	14.34	9.48	7.32	9.81	13.22	16.73	7.27	9.23
Conductivity(umhos/cm)	94	658	633	682	729	686	672	617	562	527	587	636	601
Total Phosphorus(mg/L)	665	0.04	0.1	0.07	0.04	0.02	0.05	0.07	0.12	0.07	0.04	0.04	0.03
Nitrate-N(mg/L)	630	0.23	0.93	1.07	0.78	0.62	0.56	0.75	0.65	0.51	1.03	0.94	1.07
Chloride(mg/L)	940	18	20.5	23.7	32.2	29.3	32	24.9	20.6	24.5	19.1	19.3	37.9
Sulfate(mg/L)	945	4.2	31.6	34.6	57.9	61.1	54.2	44.4	21.4	43.1	26.2	30.2	26.1
Total Hardness(mg/L)	900	300	335	393	333	310	215	263	246	270	259	337	305
Ammonia-N(mg/L)	610	0.12		0.1		0.12		0.23		0.18		0.23	
E. coli(org/100mL)	31648	462	22	48	4	41	48	68	68	60	52	128	4
Chlorophyll a(mg/m ³)	32211	<1	1.1	<1	<1	2.4	2.4	2.4	13.2	13	2.4	3.5	1.6

Parameter	Date and 24 hour time												
	Parameter Code	10/31/00	11/27/00	12/14/00	1/3/01	2/21/01	3/15/01	4/9/01	5/1/01	6/19/01	7/9/01	8/15/01	9/12/01
Flow (cfs)	61	0.71	4.2	8.53	1.82	3.27	16	1.87	1.95	2	1.63	1.64	2.43
Fecal Coliform(org/100mL)	31616	112	475	2260	62	60	1018	46	124	188	119	56	390
Suspended Solids(mg/L)	530	5.3	31	13.1	3.4	3.2	24.3	7	6.9	8.4	5.3	3.6	6.9
Turbidity(NTU)	82079	3.5	46.5	16	5	2.9	25	5.5	4	10	4.4	1.6	6.4
pH	400	7.24	7.59	7.92	7.95	7.81	8.06	8.14	7.77	7.86	7.67	7.93	7.87
Temperature(C)	10	24.61	15.29	10.6	9.8	19.19	17.19	25.21	22.86	27.31	29.44	26.66	25.52
Dissolved Oxygen(mg/L)	300	10.92	10.98	12.34	12.04	11.28	10.85	10.16	12.72	10.56	12.31	10.26	9.3
Conductivity(umhos/cm)	94	554	474	652	658	903	649	694	686	554	581	645	506
Total Phosphorus(mg/L)	665	0.05	0.16	0.13	0.06	0.03	0.17	0.03	0.1	0.09	0.06	0.02	0.11
Nitrate-N(mg/L)	630	0.73	1.07	0.26	0.56	0.78	0.33	0.94	1.07	0.79	1.4	0.68	0.64
Chloride(mg/L)	940	17.5	20.7	33.6	41.2	48.6	34.2	45.8	29.8	23.6	24.6	23.8	20.2
Sulfate(mg/L)	945	38.2	67.8	83	83.8	96.7	93.3	78	64.8	105	109	26.2	20.8
Total Hardness(mg/L)	900	297	195	255	283	318	216	416	280	222	227	304	232
Ammonia-N(mg/L)	610	0.05		0.19		<0.02		0.03		<0.02		0.02	
E. coli(org/100mL)	31648	98	387	1800	58	56	800	4	88	8	92	18	170
Chlorophyll a(mg/m ³)	32211	3.1	4.3	3.5	3.5	3.3	2.3	4.3	4.8	4	3.3	<1.0	5.9

Parameter	Date and 24 hour time												
	Parameter Code	10/9/01	11/19/01	12/19/01	1/21/02	2/14/02	3/14/02	4/22/02	5/14/02	6/10/02	7/23/02	8/8/02	9/17/02
Flow (cfs)	61	1.32	10.4	13	4.23	3.42	2.28	2.19	1.88	1.16	4.35	1.89	2.65
Fecal Coliform(org/100mL)	31616	264	420	**									
Suspended Solids(mg/L)	530	7.4	8.6	12	19.1	8.2	4.4	7.9	4.1	3.1	7.4	21.8	7.63
Turbidity(NTU)	82079	3.5	13	13	2.5	3.5	3	4.5	2	1.7	4.4	5	5.7
pH	400		7.33	7.6	7.79	8.04	7.61	7.53	7.43	7.76	7.44	7.52	7.32
Temperature(C)	10	23.57	19.55	15.54	15.63	17.58	19.6	26.2	22.61	27.75	28.8	28.4	25.2
Dissolved Oxygen(mg/L)	300	12.26	83.13	10.13	15.06	17.3	11.55	9.39	8.24	15.93	8.97	13.83	8.75
Conductivity(umhos/cm)	94	678	587	693	919	899	950	810	790	642	680	782	611
Total Phosphorus(mg/L)	665	0.04	0.09	0.22	0.08	0.06	<0.01	0.06	0.06	0.02	0.07	0.06	0.06
Nitrate-N(mg/L)	630	1.04	0.44	0.65	0.67	0.86	0.8	0.83	1	1.1	0.58	0.4	0.54
Chloride(mg/L)	940	26.6	24.4	36.1	31.2	44.4	43.8	41.8	27	25.1	27.2	33.5	20.6
Sulfate(mg/L)	945		67.2	70.8	100	97.8	102	82.8	51.6	45.7	44.6	64.4	45.7
Total Hardness(mg/L)	900	209	234	233	350	365	340	283	342	341	287	340	245
Ammonia-N(mg/L)	610	0.03		<0.02		<0.02		0.13		0.02		<0.02	
E. coli(org/100mL)	31699	236		365	37	16	44	76	147	158	67	71	230
Chlorophyll a(mg/m ³)	32211	2.8	1.5	<1	3.8	6.6	3.2	3.8	<1	4.7	<1	16.5	3.74
Pheophytin(mg/m ³)	32218			5.5	2.1	4.9	3	4.3	8.8	3.6	13.2	9.6	2.1

** Fecal Coliform dropped from the list of parameters analyzed. E. coli used for Water Quality Index (126 org/100ml).

TABLE 12

TCEO Segment 1800
 TCEO Station 12570
 Station Number 12 Dry Comal at Seguin St., New Braunfels, TX
 Latitude 29/42/16 Longitude 98/07/45

Parameter	Date and 24 hour time												
	Parameter Code	10/15/02	11/12/02	12/01/02	1/9/03	2/27/03	3/21/03	4/14/03	5/15/03	6/25/03	7/24/03	8/6/03	9/10/03
Flow (cfs)	61	10.1	8.8	46.3	7.3	9.3	4.3	3.8	1.8	2.8	2.1	1.84	2.8
E. coli(org/100mL)	31699	230	88	5065	56	108	62	54	89	45	99	62	97
Suspended Solids(mg/L)	530	6.2	5.4	24.5	2.2	4.7	6.4	4.6	7.2	20	3.7	4.7	4.3
Turbidity(NTU)	82079	6.5	3.1	27	2.7	3.4	2.8	3	2.9	5.5	2.1	1.5	3.17
pH	400	7.71	7.52	7.87	7.76	7.8	7.57	7.47	7.58	7.46	7.48	7.64	7.64
Temperature(C)	10	20.9	18.9	11.6	15.9	10.9	20.6	23.8	27.2	29	24.8	25.7	27.1
Dissolved Oxygen(mg/L)	300	8.51	9.65	11.7	13.3	13.1	15.4	11.4	8.69	11.8	8.45	5.15	6.95
Conductivity(umhos/cm)	94	569	869	425	930	829	922	986	903	551	672	741	763
Total Phosphorus(mg/L)	665	0.06	0.1	0.12	<0.05	<0.05	<0.05	<0.05	0.05	0.02	0.04	0.36	0.49
Nitrate-N(mg/L)	630	0.37	0.63	0.45	0.15	0.28	0.36	0.26	0.52	0.24	0.23	0.49	0.86
Chloride(mg/L)	940	16.7	43.2	19.8	50.2	52	55.1	39.3	40.3	30.1	26.2	28.8	34
Sulfate(mg/L)	945	35.4	78.8	38.3	96.4	94.1	110	110	85.6	26.1	49.5	56.8	78.7
Total Hardness(mg/L)	900	259	363	188	395	317	355	367	358	306	279	292	303
Ammonia-N(mg/L)	610	0.02		<0.02		0.03		0.04		0.03		0.03	
Chlorophyll a(mg/m ³)	32211	<1	<1	3.7	1.6	1.33	3.29	<1	1.11	7.1	<1	<1	2.7
Pheophytin(mg/m ³)	32218	7.9	2.74	1.2	2.57	1.34	3.25	3.82	1.32	1.8	3.6	3.3	2.05

Parameter	Date and 24 hour time												
	Parameter Code	10/02/03	11/06/03	12/05/03	01/14/04	02/18/04	03/09/04	04/13/04	05/10/04	06/16/04	7/16/04	8/6/04	9/17/04
Flow (cfs)	61	2.17	2.44	3.08	2.27	2.05	2.53	8.6	2.95	13.1	3.26	2.76	21.9
E. coli(org/100mL)	31699	59	68	45	44	46	38	50	163	488	445	365	72
Suspended Solids(mg/L)	530	5	4.2	3	2.1	4	3.3	11	3.8	6.2	4.6	3.9	7.2
Turbidity(NTU)	82079	5.72	3.6	2.02	1.98	3.26	5.58	13.8	3.23	6.26	4.56	5.8	6.3
pH	400	7.84	7.83	7.87	7.6	7.87	7.81	7.84	7.71	7.59	7.54	7.47	7.92
Temperature(C)	10	23.4	22.1	17	18.1	17.9	22.4	18	24.9	26.8	28.4	29.1	28.4
Dissolved Oxygen(mg/L)	300	7.24	7.87	15.6	12.8	11.4	7.88	8.73	9.82	6.77	8.94	9.45	7.8
Conductivity(umhos/cm)	94	696	807	739	882	754	719	646	813	655	875	758	476
Total Phosphorus(mg/L)	665	<0.02	<0.02	0.08	0.07	0.02	0.04	0.22	0.24	0.12	0.13	0.09	<0.05
Nitrate-N(mg/L)	630	0.34	0.28	0.6	0.31	0.47	0.79	0.39	0.41	0.5	0.77	0.57	0.31
Chloride(mg/L)	940	26.2	34.1	32.8	32.3	37.2	41.2	50.6	28.6	30.6	41.6	29	10.5
Sulfate(mg/L)	945	50.1	74.6	77.9	78	76	59.6	58.2	58.9	64.3	85.6	70	26.9
Total Hardness(mg/L)	900	290	323	346	360	314	257	227	315	246	339	299	238
Ammonia-N(mg/L)	610	0.02		<0.02		<0.02		0.1		0.03		0.07	
Chlorophyll a(mg/m ³)	32211	3.4	<1	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	14.9	5.8	2.1	<1
Pheophytin(mg/m ³)	32218	<1	<1	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3	<3	<3

Parameter	Date and 24 hour time												
	Parameter Code	10/12/04	11/8/04	12/7/04	1/12/05	2/8/05	3/1/05	4/1/05	5/4/05	6/1/05	7/5/05	8/2/05	9/13/05
Flow (cfs)	61	2.44	6.3	11.9	5.9	18	20	6.07	7.4	31.7	1.8	1.7	2.3
E. coli(org/100mL)	31699	117	1778	44	90	612	435	71	110	>9600	67	160	250
Suspended Solids(mg/L)	530	4.5	6.1	3.9	4.9	11.9	7.4	5	7.1	72.6	7	5.7	11.3
Turbidity(NTU)	82079	3.2	5	3	4.5	15.1	8.5	3.5	4.4	84.8	4.6	3.2	20.8
pH	400	7.56	7.47	7.66	7.55	7.72	7.47	7.63	7.32	7.51	7.52	7.51	7.35
Temperature(C)	10	24.1	19.2	18	19.2	15.3	16.2	22	20.5	23.8	26	25.4	24.9
Dissolved Oxygen(mg/L)	300	11.66	9.88	9.81	8.34	10.4	11.33	11.57	7.5	7.53	6.44	7.36	6.01
Conductivity(umhos/cm)	94	651	803	962	959	726	735	1116	924	380	773	761	684
Total Phosphorus(mg/L)	665	0.05	0.09	0.08	0.09	0.05	<0.05	<0.05	0.48	0.22	<0.05	0.06	<0.05
Nitrate-N(mg/L)	630	0.38	0.64	1.01	1	0.56	0.51	0.81	1.06	0.59	1.19	1.03	0.94
Chloride(mg/L)	940	22.6	41.8	44.2	48.3	45.2	46.2	49	39.3	18.5	29.3	29.3	25.7
Sulfate(mg/L)	945	47.1	76.6	97.9	122	66.7	66.6	109	93.1	42.8	63.6	70.3	53.5
Total Hardness(mg/L)	900	272	314	364	376	272	280	364	366	428	328	316	296
Ammonia-N(mg/L)	610	0.13		0.02		0.05		0.04		0.11		0.03	
Chlorophyll a(mg/m ³)	32211	2.7	<1	1.1	3.5	4.7	1.9	3.6	1.5	<1	1.8	2.5	5
Pheophytin(mg/m ³)	32218	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	<3	3.1

TABLE 12

TCEQ Segment 1800
 TCEQ Station 12570
 Station Number 12 Dry Comal at Seguin St., New Braunfels, TX
 Latitude 29/42/16 Longitude 98/07/45

Parameter	Date and 24 hour time												
	Parameter Code	10/3/05 958	11/3/05 929	12/1/05 1004	1/3/06 1009	2/3/06 1423	3/2/06 1615	4/3/06 954	5/3/06 1001	6/6/06 1453	7/11/06 1512	8/8/06 1030	9/7/06 1210
Flow (cfs)	61	1.3	1.2	1.2	1.4	1.3	1.1	1.1	23.5	0.7	1.1	1.1	4.6
E. coli(org/100mL)	31699	180	450	250	390	1010	130	1990	>2420	140	130	410	140
Suspended Solids(mg/L)	530	2.7	17.7	7.3	9.7	5.7	31	7	22.7	8.7	9.7	8.3	8.7
Turbidity(NTU)	82079	3.7	10.7	6.8	3.8	4.8	16.1	5.7	29.1	6.3	8.1	6.7	8.3
pH	400	7.26	7.5	7.49	7.58	7.91	7.8	7.5	7.65	7.78	7.72	7.54	7.59
Temperature(C)	10	24.6	16.7	16.4	15.7	19.9	24.6	22.3	22.8	28.6	29.3	24.5	22.4
Dissolved Oxygen(mg/L)	300	6.33	8.41	8.23	13	11	13.3	7.39	5.3	12.7	11.8	8.13	7.76
Conductivity(umhos/cm)	94	677	698	739	823	821	789	700	399	625	475	634	580
Total Phosphorus(mg/L)	665	<0.05	<0.05	<0.05	<0.05	0.05	0.05	<0.05	<0.05	<0.05	0.07	<0.05	<0.05
Nitrate-N(mg/L)	630	1.47	1.27	1.14	0.96	0.81	0.64	0.85	0.42	0.76	0.38	1	0.63
Chloride(mg/L)	940	23.7	40.3	23.2	27.7	29.5	30	25.6	16.8	19.6	15.5	17.3	16.2
Sulfate(mg/L)	945	42.9	84.8	54.5	71.5	75	74.5	55.2	38.5	34.9	37.7	31.7	28.9
Total Hardness(mg/L)	900	350	340	350	358	354	332	278	317	314	194	326	283
Ammonia-N(mg/L)	610	0.04		0.03		0.02		0.02		0.05		0.02	
Chlorophyll a(mg/m ³)	32211	2.3	3.8	3.5	24.6	na	54.2	4.9	9.4	1.2	9	3.4	18.5
Pheophytin(mg/m ³)	32218	1.5	1.5	<1	2.5	na	3.4	<1	1.9	1.1	<1	<1	1.5

Parameter	Date and 24 hour time												
	Parameter Code	10/11/06 1534	11/2/06 1002	12/4/06 1417	1/10/07 1447	2/7/07 953	3/5/07 1518	4/2/07 959	5/7/07 1323	6/11/07 1505	7/10/07 934	8/8/07 1008	9/17/07 1445
Flow (cfs)	61	3.8	1.5	too low	1.4	1.8	1.1	26.1	2	2.2	9	4.9	0.21
E. coli(org/100mL)	31699	>2420	160	40	60	120	29	5	180	190	150	130	70
Suspended Solids(mg/L)	530	14.3	14.3	1.7	10	7.7	6	28	11.3	4.7	11.7	6	4.7
Turbidity(NTU)	82079	14.4	9.9	1.7	16.6	4.7	2.2	39	24.3	4.25	11.6	3.1	5.03
pH	400	7.56	7.65	7.76	7.85	7.54	8.03	7.73	7.49	7.64	7.53	7.68	7.56
Temperature(C)	10	24.8	16.4	13.7	16	15.1	20.3	21.5	24.3	29.5	26.1	26.6	26.1
Dissolved Oxygen(mg/L)	300	7.39	8.87	13.9	12.6	13.2	11.9	7.55	9.43	13.2	7.65	7.14	10.2
Conductivity(umhos/cm)	94	479	621	645	492	845	929	555	718	816	611	902	874
Total Phosphorus(mg/L)	665	<0.05	<0.05	<0.05	0.1	<0.05	<0.05	0.15	<0.05	<0.05	0.08	<0.05	<0.05
Nitrate-N(mg/L)	630	0.44	1.01	0.73	0.61	0.53	0.55	0.55	0.68	0.79	0.39	0.8	0.77
Chloride(mg/L)	940	11.8	17.4	19.1	18.9	44.8	47.9	26	22.8	42.2	27.2	48.9	49.4
Sulfate(mg/L)	945	20.6	33.9	37.4	39.3	101	116	59.6	74.5	90.8	65.4	102	99.8
Total Hardness(mg/L)	900	208	296	300	227	320	356	220	271	318	229	356	349
Ammonia-N(mg/L)	610	<0.02		0.03		<0.02		0.07		0.03		0.03	
Chlorophyll a(mg/m ³)	32211	1.6	<1	<1	2.9	13.5	2.4	1.4	1	2.2	1.9	1.8	<1
Pheophytin(mg/m ³)	32218	<1	<1	<1	<1	1.3	<1	<1	<1	<1	<1	<1	<1

Parameter	Date and 24 hour time												
	Parameter Code	10/10/07 938	11/12/07 930	12/10/07 1530	1/9/08 915	2/12/08 1002	3/10/08 1004	4/8/08 931	5/6/08 914	6/10/08 1337	7/2/08 1424	8/5/08 1030	9/8/08 1453
Flow (cfs)	00061	3	1.5	1.4	1.7	1	12	1.5	0.5	1.2	2.5	0.56	0.92
E. coli(org/100mL)	31699	260	100	70	170	300	1590	140	160	97	>2420	210	>4840
Suspended Solids(mg/L)	00530	3.7	10.7	4	5	13.7	41	17.3	6.7	5.7	18.7	4.7	4.3
Turbidity(NTU)	82079	3.68	3.97	1.95	3	8.3	19.3	13.5	3.7	4.9	25.4		3.87
pH	00400	7.51	7.5	7.73	7.6	7.6	7.5	7.6	7.5	7.7	7.6	7.5	7.6
Temperature(C)	00010	23.6	21	17.8	15.6	18.8	17.3	22.5	22.6	28.4	25.9	25.9	28.4
Dissolved Oxygen(mg/L)	00300	7.33	7.32	10.5	10.2	8.1	8.8	6.9	6.2	13.4	11	6.7	10
Conductivity(umhos/cm)	00094	840	804	880	676	838	796	842	732	694	543	643	634
Total Phosphorus(mg/L)	00665	<0.05	<0.05	<0.05	<0.05	0.08	0.11	0.07	<0.05	<0.05	0.06	<0.05	<0.05
Nitrate-N(mg/L)	00620	0.95	1.12	1.24	1	0.76	0.79	0.67	0.95	0.96	0.98	0.86	0.88
Chloride(mg/L)	00940	38.5	37.4	34.5	33.3	37	34	35	29.5	21.9	18.6	21.4	18.6
Sulfate(mg/L)	00945	93.4	90	84.6	82.3	92.2	80.2	84	61.8	41	35.3	49	31.3
Total Hardness(mg/L)	00900	334	366	374	362	398	340	361	324	321	309	301	294
Ammonia-N(mg/L)	00610	<0.10		<0.1		0.15		<0.1		<0.1		0.18	
Chlorophyll a(mg/m ³)	32211	<1	1.6	1.9	1.7	66.5	23.9	117	39.9	<1	5.8	2.2	1.7
Pheophytin(mg/m ³)	32218	<1	<1	<1	<1	3.1	1.6	2.3	1.3	<1	<1	<1	<1
Total Kjeldahl Nitrogen (mg/L)	00625	<0.5		<0.5		0.87		0.82		0.45		0.4	

TABLE 12

TCEO Segment 1800
 TCEO Station 12570
 Station Number 12 Dry Comal at Seguin St., New Braunfels, TX
 Latitude 29/42/16 Longitude 98/07/45

Parameter	Parameter Code	Date and 24 hour time											
		10/6/08	11/11/08	12/3/08	1/5/09	2/2/09	3/9/09	4/8/09	5/4/09	6/1/09	7/07/09	8/05/09	9/08/09
Flow (cfs)	00061	0.4	0.15	53	0.81	0.94	0.68	0.65	0.76	0.41	1.2	0.4	0.2
E. coli(org/100mL)	31699	780	170	69	93	83	380	380	1340	300	2420	410	>4840
Suspended Solids(mg/L)	00530	5	3.3	2	1.3	4.7	22.7	111	15.7	5	12.3	8	11.3
Turbidity(NTU)	82079	4.09	3.3	1.24	1.8	3.7	8.7	21.2	5.3	1.8	4.8	4.2	5.6
pH	00400	7.7	7.5	7.6	7.4	7.7	8	7.6	7.5	8	7.4	7.5	7.7
Temperature(C)	00010	22.9	21.4	20	12.1	12	23.7	15.2	21.4	27.4	25.5	26.3	26.7
Dissolved Oxygen(mg/L)	00300	6.2	11.9	8.6	8.8	11.9	8.7	5.8	11.7	7	4.8	8	8
Conductivity(umhos/cm)	00094	650	652	642	640	696	704	658	606	580	618	608	606
Total Phosphorus(mg/L)	00665	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	0.07	<0.05	0.05	<0.05	<0.05
Nitrate-N(mg/L)	00620	1.13	1.01	0.9	0.89	0.9	0.68	0.81	0.64	0.78	0.82	0.35	0.57
Chloride(mg/L)	00940	19.4	19.9	17.9	22.1	21.6	23.7	24.8	24.3	17.1	23.3	16.4	15.8
Sulfate(mg/L)	00945	33.3	33.6	29.3	34.9	38.8	46.9	45.9	45.6	28.4	24.6	26.1	25.9
Total Hardness(mg/L)	00900	324	325	326	348	331	307	340	276	304	325	304	312
Ammonia-N(mg/L)	00610	<0.10		0.15		<0.10		<0.1		<0.1		0.19	
Chlorophyll a(mg/m ³)	32211	<1	1.5	<1	1.8	5.7	32.1	14.5	4.1	<1	1.4	1.8	1
Pheophytin(mg/m ³)	32218	<1	<1	<1	<1	1.1	1.8	3.3	4	<1	<1	1	<1
Total Kjeldahl Nitrogen (mg/L)	00625	<0.2		1.22		<0.2		0.5		0.39		0.36	

* follow-up sampling for E. coli was conducted: 7/13/09 - 1130 org/100mL; 7/15/09 - 1300 org/100mL; 7/20/09 - 1590 org/100mL; 7/27/09 - 980 org/100mL

Parameter	Parameter Code	Date and 24 hour time											
		10/07/09	11/09/09	12/02/09	01/11/10	2/10/10	3/2/10	4/6/10	5/3/10	6/8/10	7/7/10	8/2/10	9/13/10
Flow (cfs)	00061	44	3.4	13	1.3	9.8	5.5	1.7	1.2	2.1	3.6	1.9	7.5
E. coli(org/100mL)	31699	1940	2420	>4840	61	290	2040	120	750	340	370	130	290
Suspended Solids(mg/L)	00530	50	7	34.3	2.3	7.3	11	4.7	63	6.3	8.3	8	7.3
Turbidity(NTU)	82079	76.5	10.8	33.7	2.9	9.3	9.1	4.7	33.7	6	5.5	7.8	9.6
pH	00400	7.6	7.5	7.7	7.5	7.8	7.7	7.7	7.5	7.3	7.6	7.5	7.3
Temperature(C)	00010	25.2	18.7	12.2	9	12.5	13.2	24.1	20.1	25.5	29.2	26.1	27.1
Dissolved Oxygen(mg/L)	00300	6.3	5.5	10.9	10.3	11.8	10.4	11.1	6.5	5.6	8.8	6.2	5.9
Conductivity(umhos/cm)	00094	229	629	565	581	733	765	833	845	792	580	666	382
Total Phosphorus(mg/L)	00665	0.16	0.1	0.19	<0.05	0.12	<0.05	0.05	0.1	0.06	0.07	0.06	0.11
Nitrate-N(mg/L)	00620	0.73	0.57	0.28	0.77	1.62	0.9	0.65	1.04	0.93	0.76	0.91	0.71
Chloride(mg/L)	00940	3.65	28	26.4	36.3	37.3	44.8	41.9	38.8	37.6	22.2	29.7	11.5
Sulfate(mg/L)	00945	12	71.8	83	90.8	99.4	92	91.8	79.7	85.8	38.1	61.6	28.5
Total Hardness(mg/L)	00900	119	273	219	342	310	286	336	368	325	240	280	178
Ammonia-N(mg/L)	00610	0.13		0.32		0.1		0.13		0.15		0.11	
Chlorophyll a(mg/m ³)	32211	<1	4.8	1.3	<1	3.8	2.4	3.4	10.3	1.2	1.7	<1	1.4
Pheophytin(mg/m ³)	32218	<1	<1	<1	<1	1	<1	1.9	4.7	2.3	2.3	<1	<1
Total Kjeldahl Nitrogen (mg/L)	00625	0.81		1.02		0.6		0.64		0.69		0.65	

* Nitrate Nitrogen results reported with 11/09/09 sample were actually collected on 11/13/09 due to equipment failure on 11/09/09.

** All of the data from 12/02/09 is considered preliminary and has not been validated by the GBRA laboratory or the CRP data manager.

Parameter	Parameter Code	Date and 24 hour time											
		10/5/10	11/16/10	12/3/10	01/04/11	02/14/11	03/01/11	04/06/11	05/09/11	06/01/11	07/07/11	08/03/11	09/06/11
Flow (cfs)	00061	2.1	0.6	0.7	1.4	1.6	1	0.6	0.5	0.3	0.2	0.09	0.03
E. coli(org/100mL)	31699	740	340	70	90	53	43	97	37	150	240	310	110
Suspended Solids(mg/L)	00530	8	3.4	2.7	3.1	2.3	5.9	6	8.8	10.6	5	8.1	8.4
Turbidity(NTU)	82079	4.5	3.1	3	2.4	1.3	2.1	2.2	1.8	6.6	2.4	1.7	2.9
pH	00400	7.6	7.6	7.4	7.6	7.9	7.9	7.8	8	8	7.8	7.7	8
Temperature(C)	00010	19.2	19.3	15.4	16.3	18.8	21.5	23	28.6	29.8	31.7	26.7	27.4
Dissolved Oxygen(mg/L)	00300	7.3	10.1	6.9	8.3	17.8	14.5	12	15.9	16.3	7.5	5.8	17
Conductivity(umhos/cm)	00094	714	728	757	795	716	781	805	643	538	638	620	563
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	0.02
Nitrate-N(mg/L)	00620	1.26	1.49	1.39	1.17	0.82	0.82	0.97	1.24	1.08	0.89	0.92	0.84
Chloride(mg/L)	00940	30.3	25	26.4	30.5	30.8	35.7	34	22.6	21.2	18.7	18.2	19.3
Sulfate(mg/L)	00945	53.7	51.2	54.6	66	67.9	81.9	66.3	36.6	34.6	28.5	26.8	30
Total Hardness(mg/L)	00900	316	358	352	334	306	334	338	301	291	294	316	278
Ammonia-N(mg/L)	00610	0.14		0.1		0.24		0.12		<0.1		0.22	0.34
Chlorophyll a(mg/m ³)	32211	1.6	2.9	3.2	2.4	2.5	1.4	2.7	1.3	<1	<1	2.3	3
Pheophytin(mg/m ³)	32218	<1	<1	<1	<1	<1	<1	2.5	<1	<1	<1	<1	<1
Total Kjeldahl Nitrogen (mg/L)	00625	0.33		<0.2		0.3		0.37		0.26		0.29	0.24

TABLE 12

TCEO Segment 1800
 TCEO Station 12570
 Station Number 12 Dry Comal at Seguin St., New Braunfels, TX
 Latitude 29/42/16 Longitude 98/07/45

Parameter	Date and 24 hour time												
	Parameter Code	10/12/2011 1013	11/2/11 1008	12/7/11 1035	01/03/12 1418	02/08/12 1335	03/05/12 1415	04/09/12 1229	5/1/12 1002	6/13/12 1420	7/9/12 955	8/13/12 1314	9/4/12 1138
Flow (cfs)	00061	0.9	0.8	3	1.6	5.9	3	2.1	1.9	1.6	6.1	0.8	0.4
E. coli(org/100mL)	31699	160	160	170	160	470	160	390	260	280	8300	440	430
Suspended Solids(mg/L)	00530	4.8	7.4	4.9	3.9	24.1	6.9	7.2	3.3	8.6	166	11.6	9.9
Turbidity(NTU)	82079	4	4.3	7.6	3.5	38.8	2.5	3.6	2.4	3.1	122	4.2	6.9
pH	00400	7.5	7.6	7.8	8	7.8	7.9	7.9	7.6	7.9	7.6	7.6	7.7
Temperature(C)	00010	22.1	18	10.4	14.6	13.6	21.9	23.7	23.2	29.3	26.5	27.4	25.8
Dissolved Oxygen(mg/L)	00300	8.8	6.6	9.2	18.2	10	13.3	10	6.9	11.3	5.8	9.2	8.1
Conductivity(umhos/cm)	00094	642	660	519	606	511	802	820	726	646	300	628	636
Total Phosphorus(mg/L)	00665	0.06	0.02	0.06	0.03	0.1	0.03	0.03	0.03	0.03	0.18	0.02	0.02
Nitrate-N(mg/L)	00620	0.52	1.06	0.43	0.64	0.73	0.57	0.68	1.15	1.18	0.33	1.36	1.32
Chloride(mg/L)	00940	22.2	21.3	18	19.7	21.2	42.8	36.9	26	20	9.42	18.8	18.8
Sulfate(mg/L)	00945	98.8	42.2	74	46	64.7	112	95.3	54.5	35.4	19	30.1	32.3
Total Hardness(mg/L)	00900	253	310	208	270	216	328	336	328	295	208	298	306
Ammonia-N(mg/L)	00610		0.21		0.24		0.24		0.26		0.14		0.2
Chlorophyll a(mg/m ³)	32211	1.6	<1	1.1	4.9	1	7.3	<1	<1	<1	9.4	1.4	1.39
Pheophytin(mg/m ³)	32218	<1	<1	<1	<1	<1	2.1	3	1.2	<1	<1	<1	1.37
Total Kjeldahl Nitrogen (mg/L)	00625	0.47	0.26	0.41	0.33	0.52	0.45	0.48	0.51	0.56	<0.2	<0.2	0.31

Parameter	Date and 24 hour time												
	Parameter Code	10/16/12 1418	11/7/12 1055	12/12/12 1301	1/8/13 1022	2/5/13 948	3/19/13 1026	4/10/13 1356	5/6/13 1530	6/3/13 1130	7/9/13 1016	8/5/13 1433	9/9/13 1240
Flow (cfs)	00061	1.1	0.8	0.6	0.9	0.8	0.6	0.8	1.2	3.6	0.4	0.4	0.4
E. coli(org/100mL)	31699	210	230	220	1000	250	230	2400	130	340	330	460	520
Suspended Solids(mg/L)	00530	27.1	6.2	2.3	2.43	5.2	4	6.5	5	8.6	5.8	22.7	11.2
Turbidity(NTU)	82079	9.8	3.6	2.4	4.3	4.4	3.3	6	3.58	7.4	5.8	4.8	8.7
pH	00400	7.8	8	8	7.5	7.6	7.7	7.6	7.9	7.4	7.7	7.9	8.1
Temperature(C)	00010	21.9	22.3	13.3	12.6	15.7	18.3	18.9	20.9	25.4	25.6	29.7	27
Dissolved Oxygen(mg/L)	00300	9.2	9.8	10	6	8.2	6.8	7.3	10.1	6.2	6.5	11.9	7.9
Conductivity(umhos/cm)	00094	529	688	784	867	731	790	683	646	425	636	604	574
Total Phosphorus(mg/L)	00665	0.07	0.03	0.03	0.03	0.03	0.02	0.06	0.05	0.12	0.03	0.03	0.04
Nitrate-N(mg/L)	00620	0.48	0.78	0.98	0.77	0.77	0.6	0.64	0.35	0.3	0.85	0.69	0.5
Chloride(mg/L)	00940	21.1	26.1	30.5	38.8	31.8	37.2	32.6	23.1	11.8	19.7	19.3	16.3
Sulfate(mg/L)	00945	65.9	72.5	90.2	122	87.1	95.7	87.5	30.5	31.9	31.9	33.2	27.8
Total Hardness(mg/L)	00900	232	298	354	362	299	279	276	255	180	299	285	269
Ammonia-N(mg/L)	00610		0.16		0.11		0.13		0.21		0.16		0.16
Chlorophyll a(mg/m ³)	32211	1.34	1.04	<1	1.28	2.14	1.5	1.34	<1	5.4	1.13	5.96	8.1
Pheophytin(mg/m ³)	32218	12.9	3.05	<1	13.1	7.04	1.8	<1	2.11	1.35	<1	<1	2.45
Total Kjeldahl Nitrogen (mg/L)	00625	0.55	0.48	0.4	0.42	0.54	0.33	0.69	0.47	0.76	0.4	<0.2	<0.2

Parameter	Date and 24 hour time												
	Parameter Code	10/8/13 1405	11/4/13 1136	12/2/13 1327	1/15/14 1330	2/4/14 950	3/11/14 1338	4/8/14 925	5/5/14 1041	6/9/14 1425	7/1/14 1052	8/4/14 1025	9/2/14 1409
Flow (cfs)	00061	0.3	3.4	0.9	0.6	0.8	2.1	0.5	0.3	0.3	0.5	0.4	0.4
E. coli(org/100mL)	31699	140	770	110	160	91	1100	180	250	260	240	160	140
Suspended Solids(mg/L)	00530	8.6	20.8	5.2	1.90	2.10	10.8	6.10	8.6	3.50	3.80	17.3	9.30
Turbidity(NTU)	82079	4.5	33.3	5.2	2.1	2.7	11.6	2.2	4.2	2.2	2.2	8.0	3.8
pH	00400	7.8	7.7	7.7	7.2	7.4	7.8	7.6	7.6	7.6	7.5	7.1	7.8
Temperature(C)	00010	20.2	18.9	17.6	10.2	11.7	19.4	15.3	19.3	27.0	26.1	23.7	29.1
Dissolved Oxygen(mg/L)	00300	9.5	7.4	8.8	10.0	9.9	11.3	6.8	6.9	8.8	7.8	6.5	9.9
Conductivity(umhos/cm)	00094	465	263	554	743	798	890	760	658	610	637	652	607
Total Phosphorus(mg/L)	00665	0.04	0.11	0.05	0.02	0.02	0.04	<0.02	0.02	0.02	<0.02	0.02	<0.02
Nitrate-N(mg/L)	00620	0.51	0.37	0.67	0.82	0.89		1.28	0.99	1.02	1.07	1.00	0.97
Chloride(mg/L)	00940	12.8	4.46	18.9	26.8	34.4	48.3	30.7	21.2	20.4	21.1	20.4	21.0
Sulfate(mg/L)	00945	37.7	13.5	46.8	62.4	78.8	138	64.8	35.3	33.3	33.3	33.0	34.4
Total Hardness(mg/L)	00900	208	154	236	288	290	324	322	339	286	302	323	158
Ammonia-N(mg/L)	00610		<0.1		<0.10		0.28		0.29		0.29	0.12	<0.10
Chlorophyll a(mg/m ³)	32211	4.9	1.82	1.48	5.55	9.49	---	1.19	<1.0	<1.0	<1.0	1.16	<1.0
Pheophytin(mg/m ³)	32218	<1	<1	<1	<1.0	<1.0	---	<1.0	<1.0	<1.0	<1.0	<1.00	<1.0
Total Kjeldahl Nitrogen (mg/L)	00625		0.68		0.36		0.452		0.240		<0.20	0.26	<0.20

TABLE 12

TCEQ Segment 1800
 TCEQ Station 12570
 Station Number 12 Dry Comal at Seguin St., New Braunfels, TX
 Latitude 29/42/16 Longitude 98/07/45

Parameter	Date and 24 hour time												
	Parameter Code	10/7/14	11/11/14	12/2/14	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
Flow (cfs)	00061	0.6	0.8	0.8	1.6	133	1.3	1.6	4.1	2.8	0.9	0.3	0.3
E. coli(org/100mL)	31699	240	280	96	480	4900	110	220	99	310	2400	310	440
Suspended Solids(mg/L)	00530	9.20	6.10	3.50	7.40	110	3.00	8.20	8.40	4.40	9.50	6.20	8.50
Turbidity(NTU)	82079	3.3	8.4	3.2	5.2	74.2	2.3	7.0	6.4	3.9	8.1	3.3	7.5
pH	00400	7.6	7.6	7.4	7.8	7.3	7.7	7.3	7.4	7.8	7.6	7.5	7.7
Temperature(C)	00010	23.9	16.3	14.1	12.2	11.9	21.3	22.3	25.3	27.8	25.4	26.2	18.3
Dissolved Oxygen(mg/L)	00300	6.3	8.3	9.5	12.8	9.5	8.4	6.8	9.1	11.1	7.2	9.3	7.7
Conductivity(umhos/cm)	00094	641	428	528	628	426	711	700	851	831	714	699	691
Total Phosphorus(mg/L)	00665	0.05	0.08	0.05	0.04	0.17	0.04	0.06	0.06	0.04	<0.02	<0.02	<0.02
Nitrate-N(mg/L)	00620	0.91	0.87	0.80	1.12	0.21	1.83	1.02	0.76	0.72	2.10	2.60	2.31
Chloride(mg/L)	00940	20.2	12.9	16.6	28.1	19.4	34.1	28.2	46.5	46.1	26.2	23.7	24.0
Sulfate(mg/L)	00945	46.5	30.3	34.7	61.6	56.1	70.6	62.8	84.0	88.1	45.3	39.4	38.6
Total Hardness(mg/L)	00900	298	230	236	257	199	313	318	338	350	332	333	330
Ammonia-N(mg/L)	00610		0.36			<0.10		<0.10		<0.10		<0.10	
Chlorophyll a(mg/m ³)	32211	3.92	1.81	<1.0	12.1	<1.0	<1.0	5.99	26.0	3.86	<1.00	1.22	<1.00
Pheophytin(mg/m ³)	32218	1.21	<1.00	<1.0	<1.0	8.31	6.96	1.14	<1.00	3.62	<1.00	<1.00	<1.00
Total Kjeldahl Nitrogen (mg/L)	00625		0.39			0.88		0.37		0.36		<0.20	

E. coli(org/100mL)	31699	340	490	730	63	200	260	160	210	250	490	320	76
Suspended Solids(mg/L)	00530	4.40	9.80	15.3	8.70	4.00	5.50	4.80	6.90	1.30	2.10	5.50	6.00
Turbidity(NTU)	82079	5.3	14.7	17.6	3.2	2.7	5.1	10.1	10.6	5.6	3.2	4.8	4.8
pH	00400	7.6	7.6	7.6	8	7.6	7.5	7.4	7.5	7.5	7.3	7.3	7.4
Temperature(C)	00010	21.0	14.5	9.9	19.3	21.5	18.3	21.0	25.0	25.9	25.3	26.6	21.4
Dissolved Oxygen(mg/L)	00300	7.0	9.8	10.2	15.9	10.0	7.5	6.9	7.9	7.6	5.8	9.1	8.3
Conductivity(umhos/cm)	00094	511	527	564	744	692	771	509	750	757	634	710	811
Total Phosphorus(mg/L)	00665	0.06	0.08	0.19	0.02	0.02	0.03	0.06	0.06	0.02	0.03	0.03	0.03
Nitrate-N(mg/L)	00620	0.76	0.89	1.62	0.92	1.04	1.07	0.73	0.88	1.85	1.77	1.49	1.27
Chloride(mg/L)	00940	18.5	20.3	36.6	37.8	30.7	39.0	21.8	34.2	29.9	22.2	29.2	40.3
Sulfate(mg/L)	00945	48.3	56.8	43.0	75.6	68.1	76.5	36.5	69.1	57	45.9	57.4	79.8
Total Hardness(mg/L)	00900	216	219	219	322	290	332	210	312	334	274	296	337
Ammonia-N(mg/L)	00610	0.18		<0.10		<0.10		<0.10		<0.10		<0.10	
Chlorophyll a(mg/m ³)	32211	1.84	2.34	1.66	9.37	2.28	2.49	5.22	1.87	1.42	3.68	2.31	6.47
Pheophytin(mg/m ³)	32218	<1.00	1.19	<1.00	1.53	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.00	<1.00
Total Kjeldahl Nitrogen (mg/L)	00625	0.50		0.80		0.67		0.57		<0.20		0.34	

Parameter	Date and 24 hour time												
	Parameter Code	11/16/16	12/14/16	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
Flow (cfs)	00061	2.6	7.5	2.7	5.6	19	5.2	2.9	5.6	0.9	0.9	0.8	5.8
E. coli(org/100mL)	31699	520	180	290	550	550	360	250	172	980	320	140	1200
Suspended Solids(mg/L)	00530	7.80	3.60	<0.50	6.20	11.0	5.80	3.90	10.7	3.10	3.20	4.60	16.8
Turbidity(NTU)	82079	9.0	5.0	2.6	6.1	12.2	7.4	3.9	10.2	3.7	3.1	3.1	9.9
pH	00400	7.2	7.3	7.2	7.4	7.5	7.3	7.3	7.5	7.5	7.4	7.5	7.4
Temperature(C)	00010	19.1	16.8	14.1	19.6	17.6	22.4	22.0	26.0	25.9	25.5	25.4	24.1
Dissolved Oxygen(mg/L)	00300	7.5	9.7	10.1	6.5	10.9	7.3	6.3	9.3	8.4	5.7	10.0	5.2
Conductivity(umhos/cm)	00094	632	880	915	854	760	721	893	620	719	670	663	596
Total Phosphorus(mg/L)	00665	0.05	0.03	0.02	0.04	0.05	0.04	<0.02	0.06	0.02	0.02	0.02	0.06
Nitrate-N(mg/L)	00620	1.31	1.45	1.06	0.95	0.84	0.90	1.18	0.74	1.61	1.66	1.79	0.77
Chloride(mg/L)	00940	26.4	45.7	46.2	36.2	36.7	32.6	45.0	31.0	25.8	22.7	22.2	24.0
Sulfate(mg/L)	00945	58.3	85.5	89.1	71.9	75.6	65.4	91.1	62.9	46.6	47.9	42.9	93.8
Total Hardness(mg/L)	00900	261	356	368	379	297	270	362	239	323	411	312	228
Ammonia-N(mg/L)	00610	<0.10		<0.10		0.33		<0.10		<0.10		<0.10	
Chlorophyll a(mg/m ³)	32211	5.16	<1.00	8.87	2.46	1.16	1.19	4.33	25.90	1.72	4.42	1.48	1.34
Pheophytin(mg/m ³)	32218	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	1.78
Total Kjeldahl Nitrogen (mg/L)	00625	0.44		0.65		3.65		0.35		0.45		0.21	

TABLE 12

TCEO Segment 1800
 TCEO Station 12570
 Station Number 12 Dry Comal at Seguin St., New Braunfels, TX
 Latitude 29/42/16 Longitude 98/07/45

Parameter	Date and 24 hour time												
	Parameter Code	11/1/17	12/4/17	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
Flow (cfs)	00061	3.1	2.2	1.5	1.3	1.6	1.8	1.8	0.4	2	2.2	0.6	1.1
E. coli(org/100mL)	31699	1600	110	240	440	260	200	210	410	>2400	>4800	650	1000
Suspended Solids(mg/L)	00530	14.7	1.40	1.80	13.10	7.20	7.90	7.00	3.80	23.30	6.30	4.20	8.10
Turbidity(NTU)	82079	13.9	1.6	1.8	8.3	4.6	5.8	5.4	4.1	15.4	6.5	3.2	5.6
pH	00400	7.4	7.7	7.7	7.6	7.8	7.4	7.5	7.3	7.3	7.2	7.5	7.3
Temperature(C)	00010	16.9	22.5	10.4	20.4	19.8	18.7	23.2	25.2	25.2	24.7	25.2	25.6
Dissolved Oxygen(mg/L)	00300	6.8	9.3	11.2	6.7	13.9	7.6	6.2	5.7	6.2	3.4	7.4	7.8
Conductivity(umhos/cm)	00094	474	708	761	860	719	729	812	716	591	571	656	495
Total Phosphorus(mg/L)	00665	0.06	0.02	0.02	0.02	0.02	0.04	0.05	0.04	0.08	0.08	0.02	0.07
Nitrate-N(mg/L)	00620	0.70	1.34	1.19	1.07	1.14	0.98	0.84	1.61	1.16	1.03	1.48	0.83
Chloride(mg/L)	00940	16.7	23.3	32.2	40.1	34.8	33.5	40.7	30.5	25.9	24	20.3	15.3
Sulfate(mg/L)	00945	40.4	43.9	75.2	97.2	78.1	76.1	0.96	42.8	28.3	31.2	35.0	30.6
Total Hardness(mg/L)	00900	211	337	331	366	298	306	338	326	245	266	328	232
Ammonia-N(mg/L)	00610	<0.10		<0.10		<0.10		<0.10		0.12		<0.10	
Chlorophyll a(mg/m ³)	32211	4.45	1.66	4.60	2.43	16.5	5.96	3.89	2.2	8.34	11.6	1.69	3.53
Pheophytin(mg/m ³)	32218	<1.00	<1.00	<1.00	1.06	<1.00	<1.00	1.01	1.83	<1.00	2.25	1.78	<1.00
Total Kjeldahl Nitrogen (mg/L)	00625	0.63		0.98		0.49		0.26		0.6		<0.20	

Parameter	Date and 24 hour time												
	Parameter Code	11/5/18	12/4/19	1/2/19	2/4/19	3/12/19	4/22/19	5/22/19	6/5/19	7/1/19	8/26/19	9/9/19	10/2/19
Flow (cfs)	00061	4.5	1.8	46	2.6	2.6	2.5	1.7	2.2	3.9	0.2	0.2	0.4
E. coli(org/100mL)	31699	3100	110	2000	690	140	180	620	5200	550	290	220	160
Suspended Solids(mg/L)	00530	34.2	4.3	61	6.1	5.2	13.8	6.89	19.1	15.3	6	4.3	4.8
Turbidity(NTU)	82079	45.6	3.3	33	3.9	3.9	5.7	3.2	15	15	4.5	2.6	2.8
pH	00400	7.3	7.2	7.5	7.3	7.6	7.5	7.7	7.5	7.2	7.5	7.6	7.5
Temperature(C)	00010	18.7	15.2	10.3	18.3	20.4	21.5	24.3	27.1	25.4	25.1	26.5	24.5
Dissolved Oxygen(mg/L)	00300	7.4	10.4	8.2	8.5	10.6	6.9	6.7	8.8	6.4	6.9	9.4	7
Conductivity(umhos/cm)	00094	384	755	651	690	805	621	709	575	500	651	642	640
Total Phosphorus(mg/L)	00665	0.12	0.05	0.21	0.02	<0.02	0.063	0.045	0.061	0.069	0.021	<0.02	<0.02
Nitrate-N(mg/L)	00620	0.74	1.04	0.11	0.9	0.9	1.12	1.22	1.18	0.751	1.6	1.68	1.6
Chloride(mg/L)	00940	13.9	36.2	36.5	39.2	1.54	30.8	34	23.8	24.7	20.8	19.9	20.2
Sulfate(mg/L)	00945	31.7	67.5	53.6	73.6	1.66	53.6	58.1	38.9	39.4	33.8	32.5	32.5
Total Hardness(mg/L)	00900	175	342	280	295	340	265	317	272	212	326	326	329
Ammonia-N(mg/L)	00610	<0.10		<0.10		<0.10		<0.10		<0.10		<0.10	
Chlorophyll a(mg/m ³)	32211	2.28	10.2	<1.00	2.49	2.08	5.25	3.62	5.82	2.73	1.36	<1.00	<1.00
Pheophytin(mg/m ³)	32218	<1.00	1.63	<1.00	<1.00	<1.00	1.25	1.16	1.45	1.09	<1.00	<1.00	<1.00
Total Kjeldahl Nitrogen (mg/L)	00625	0.43		0.87		0.4		0.23		0.45		0.28	

Parameter	Date and 24 hour time							
	Parameter Code	11/4/19	12/16/19	1/9/20	2/12/20	3/2/20	4/6/20	5/18/20
Flow (cfs)	00061	0.69	1.8	0.3	3.4	0.6	8.1	2.6
E. coli(org/100mL)	31699	690	150	250	4000	300	980	220
Suspended Solids(mg/L)	00530	4.7	12.8	3.7	19.70	4.50	65	21.40
Turbidity(NTU)	82079	5.2	5.8	2.2	14	1.9	55	29
pH	00400	7.6	7.9	7.4	7.5	7.6	7.2	7.4
Temperature(C)	00010	18.3	19.7	19.3	11.7	22.3	17.1	24.4
Dissolved Oxygen(mg/L)	00300	8.2	12.3	6.9	8.6	13.6	8.6	6.8
Conductivity(umhos/cm)	00094	627	638	666	500	652	402	438
Total Phosphorus(mg/L)	00665	0.029	0.037	0.021	0.075	0.021	0.142	0.113
Nitrate-N(mg/L)	00620	1.63	1.19	1.39	0.417	1.19	0.516	0.862
Chloride(mg/L)	00940	19.6	21.9	22.5	22.8	24.4	22.1	16.9
Sulfate(mg/L)	00945	34.3	35	35.6	57.6	44.5	40	38.3
Total Hardness(mg/L)	00900	314	324	334	214	311	172	190
Ammonia-N(mg/L)	00610	<0.10		<0.10		<0.10		<0.10
Chlorophyll a(mg/m ³)	32211	<1.00	15.8	1.26	21.8	1.6	2.28	5.34
Pheophytin(mg/m ³)	32218	<1.00	1.99	1.19	<1.00	<1.00	<1.00	1.03
Total Kjeldahl Nitrogen (mg/L)	00625	<0.20		<0.20		<0.20		0.62