



Station Name Geronimo Creek @ Hwy 90A  
 TCEQ Segment No. 1804A  
 TCEQ Station Id No. 20745 GB703  
 Monitoring Type Routine  
 Latitude 29.657329 Longitude -97.601895

Parameter	Parameter Code	Date and 24 hour time										
		6/12/13	7/24/13	8/6/13	9/18/13	9/23/13	10/9/13	11/11/13	12/9/13	1/14/14	2/3/14	3/17/14
Weather Conditions		Dry	Dry	Dry	Dry	Wet	Wet	Dry	Wet	Dry	Dry	Dry
Flow (cfs)	00061	3.6	1.8	2.2	3.6	5.8	3.7	4.2	3.5	3.7	3.6	3.4
E coli (organisms/100 mL)	31699	130	99	490	250	560	120	99	70	1200	210	160
Suspended Solids (mg/L)	00530	6.50	6.00	6.60	4.50	9.00	9.70	4.40	2.10	2.00	2.50	2.50
Turbidity (NTU)	82079	4.4	4.4	3.5	3.2	5.9	8.9	2.9	1.7	2.0	1.4	1.6
pH	00400	7.9	7.9	7.9	7.7	7.9	7.8	7.9	7.8	7.5	7.4	7.9
Temperature (C)	00010	25.9	27.7	28.3	25.8	22.8	20.6	17.4	9.5	11.5	10.6	15.1
Dissolved Oxygen (mg/L)	00300	6.6	6.2	6.3	5.9	6.5	8.0	8.0	10.0	10.0	10.9	8.9
Conductivity (umhos/cm)	00094	777	720	736	571	616	609	740	852	867	845	813
Total Phosphorus (mg/L)	00665	0.04	0.04	0.02	0.04	0.06	0.10	0.04	<0.02	<0.02	<0.02	<0.02
Nitrate-N (mg/L)	00620	8.10	7.10	7.70	5.80	6.60	5.50	8.60	9.60	10.0	10.1	8.80
Chloride (mg/L)	00940	32.8	32.5	35.0	24.3	27.4	23.7	31.3	35.4	37.8	36.8	38.0
Sulfate (mg/L)	00945	66.6	63.8	70.4	49.5	55.1	51.3	63.2	70.8	76.7	71.9	73.2
Total Hardness (mg/L)	00900	252	229	215	168	187	213	233	292	274	266	249
Ammonia-N (mg/L)	00610	0.18	0.12	0.13	0.19	0.45	<0.10	<0.10	<0.10	0.23	<0.10	0.27
Chlorophyll a (mg/m <sup>3</sup> )	32211	<1.0	<1.0	1.48	1.25	<1.0	<1.0	<1.0	<1.0	4.81	<1.0	---
Pheophytin (mg/m <sup>3</sup> )	32218	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	---
TKN	00625	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20		0.283

Parameter	Parameter Code	Date and 24 hour time										
		4/7/14	5/6/14	5/14/14	6/11/14	7/21/14	8/12/14	9/10/14	10/13/14	11/5/14	12/8/14	1/14/15
Weather Conditions		Dry	Dry	Wet	Dry	Dry	Dry	Wet	Wet	Wet	Dry	Dry
Flow (cfs)	00061	3.5	2.4		2.9	2.1	1.6	2.6		13	4.4	4.2
E coli (organisms/100 mL)	31699	93	66	300	170	280	980	170	160	1100	140	96
Suspended Solids (mg/L)	00530	1.70	3.20	14.3	8.60	1.60	2.10	2.50	4.40	8.70	5.80	2.90
Turbidity (NTU)	82079	1.3	1.6	9.6	8.4	3.6	2.0	1.9	3.1	6.2	4.7	3.5
pH	00400	7.8	7.7	8.1	7.3	7.7	8.1	7.9	8.0	8.0	7.6	8.1
Temperature (C)	00010	17.1	21.3	20.3	26.0	27.6	28.8	27.8	23.5	18.3	14.9	7.2
Dissolved Oxygen (mg/L)	00300	8.6	7.0	8.4	6.6	6.4	7.3	6.4	6.6	8.2	7.9	11.5
Conductivity (umhos/cm)	00094	817	787	748	518	727	717	695	734	642	717	763
Total Phosphorus (mg/L)	00665	<0.02	<0.02	0.04	0.09	0.03	0.02	0.02	0.02	0.03	0.04	0.02
Nitrate-N (mg/L)	00620	6.90	7.30	6.30	3.20	5.20	5.50	4.90	6.20	6.44	5.9	8.70
Chloride (mg/L)	00940	39.3	37.5	34.6	18.1	32.9	35.1	32.7	32.6	28.4	28.6	36.2
Sulfate (mg/L)	00945	76.2	76.0	61.2	36.4	65.4	70.3	64.0	64.4	56.8	60.3	68.6
Total Hardness (mg/L)	00900	256	257	262	157	217	211	206	238	218	258	267
Ammonia-N (mg/L)	00610	0.32	0.28	0.23	0.37	0.23	0.15	0.37	0.14	0.19	0.25	<0.10
Chlorophyll a (mg/m <sup>3</sup> )	32211	1.13	1.34	1.84	<1.0	1.72	3.74	<1.0	<1.00	1.19	<1.0	<1.0
Pheophytin (mg/m <sup>3</sup> )	32218	<1.0	<1.0	<1.0	3.14	<1.0	<1.00	<1.0	<1.00	<1.0	<1.0	<1.0
TKN	00625	0.254	0.239	0.429	0.44	<0.20	0.30	0.27	<0.20	0.21	<0.20	<0.20

Parameter	Parameter Code	Date and 24 hour time										
		3/16/15	4/13/15	5/19/15	6/10/15	7/7/15	8/17/15	9/10/15	10/20/15	11/3/15	12/7/15	1/11/16
Weather Conditions		Dry	Dry	Wet	Dry	Dry	Dry	Wet	Dry	Wet	Dry	Dry
Flow (cfs)	00061	4.6	9.8	28	11	12	10	9.3	7.7	13	12	13
E coli (organisms/100 mL)	31699	310	230	530	150	310	190	190	21	610	84	88
Suspended Solids (mg/L)	00530	5.20	7.10	40.6	10.4	8.40	3.90	5.10	2.80	18.8	3.70	3.70
Turbidity (NTU)	82079	5.3	5.1	50.6	8.1	6.4	2.0	3.4	2.0	27.1	3.4	3.4
pH	00400	8.0	7.9	7.8	8.0	8.1	7.9	7.7	8.0	7.8	8.0	7.8
Temperature (C)	00010	17.2	21.1	24.5	25.4	26.7	26.7	27.1	19.4	20.2	13.0	11.8
Dissolved Oxygen (mg/L)	00300	8.8	7.5	7.4	8.2	8.4	6.6	8.0	8.2	8.0	9.9	10.1
Conductivity (umhos/cm)	00094	572	745	302	904	898	832	811	785	440	830	829
Total Phosphorus (mg/L)	00665	0.05	0.04	0.23	0.05	0.03	<0.02	<0.02	<0.02	0.14	0.02	<0.02
Nitrate-N (mg/L)	00620	3.90	5.60	1.45	9.90	11.7	12.30	12.6	12.5	3.19	11.2	10.7
Chloride (mg/L)	00940	23.7	3.5	12.2	43.9	44.1	34.9	32.5	31.2	14.5	33.8	35.2
Sulfate (mg/L)	00945	47.9	66.8	22.3	79.9	83.7	75.6	72.6	70.4	31.8	72.0	73.2
Total Hardness (mg/L)	00900	196	259	161	299	305	275	240	254	165	295	280
Ammonia-N (mg/L)	00610	<0.10	0.17	<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	1.10	<1.0	<1.0	1.78	1.48	2.08	1.07	<1.00	<1.00	1.07	<1.00
Pheophytin (mg/m <sup>3</sup> )	32218	<1.0	1.87	<1.0	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00	<1.00
TKN	00625	0.76	0.28	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	1.00	<0.20	<0.20

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Parameter	Parameter Code	Date and 24 hour time										
		2/8/16	3/8/16	4/12/16	5/9/16	6/1/16	7/18/16	8/15/16	9/12/16	10/17/16	11/15/16	12/8/16
Weather Conditions		Dry	Dry	Wet	Dry	Wet	Dry	Dry	Dry	Dry	Dry	Wet
Flow (cfs)	00061	11	12.0	11	15	70*	14	21	16	15	17	25
E coli (organisms/100 mL)	31699	0.13	210	110	120	8200	82	960	93	250	230	440
Suspended Solids (mg/L)	00530	2.90	3.30	1.00	1.30	94.3	1.10	7.80	6.12	-	6.60	13.5
Turbidity (NTU)	82079	1.8	2.5	4.2	4.1	122	4.1	7.8	5.7	5.3	5.7	15.9
pH	00400	7.6	7.8	7.6	7.9	7.7	7.8	7.8	7.8	7.7	7.7	7.6
Temperature (C)	00010	12.3	21.2	20.8	21.5	22.2	27.1	25.3	24.9	24.0	18.8	13.6
Dissolved Oxygen (mg/L)	00300	10.2	9.5	7.9	8.0	7.8	8.0	7.4	7.4	7.4	8.4	10.3
Conductivity (umhos/cm)	00094	796	784	801	817	189	799	654	807	806	812	548
Total Phosphorus (mg/L)	00665	<0.02	0.02	0.02	0.03	0.32	0.02	0.04	0.03	0.02	0.02	0.17
Nitrate-N (mg/L)	00620	11.0	11.1	11.70	16.0	1.47	13.0	8.50	14.6	11.4	11.8	5.93
Chloride (mg/L)	00940	35.0	33.1	31.8	30.7	3.42	30.0	21.8	26	27.2	26.3	24.8
Sulfate (mg/L)	00945	74.2	71.8	68.4	66.1	5.83	69.7	50.5	60.5	65.4	64.0	49.8
Total Hardness (mg/L)	00900	267	257	277	271	93.4	247	233	277	276	276	192
Ammonia-N (mg/L)	00610	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.32	<0.10	<0.10	<0.10	<0.10
Chlorophyll a (mg/m <sup>3</sup> )	32211	1.13	1.30	2.46	1.28	<1.0	1.78	<1.0	1.22	<1.00	<1.00	<1.00
Pheophytin (mg/m <sup>3</sup> )	32218	<1.0	<1.0	<1.0	<1.0	1.90	<1.0	<1.0	<1.00	<1.00	<1.00	<1.00
TKN	00625	<0.20	<0.20	<0.20	<0.20	1.45	<0.20	<0.20	<0.20	<0.20	<0.20	0.78

\*Estimate due to high flows

Parameter	Parameter Code	Date and 24 hour time										
		1/25/17	2/16/17	3/20/17	4/6/17	5/9/17	6/13/17	7/13/17	8/14/17	9/13/17	10/16/17	2/22/18
Weather Conditions		Dry	Wet	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry
Flow (cfs)	00061	12	18	26	20	16	19	15	14	19	17	17
E coli (organisms/100 mL)	31699	460	1400	260	300	130	120	1100	160	83	160	150
Suspended Solids (mg/L)	00530	5.90	8.10	6.40	11.6	4.30	5.40	5.10	5.70	3.50	4.10	1.7
Turbidity (NTU)	82079	5.2	10.3	6.7	11.2	4.0	3.9	3.6	4.7	2.3	3.2	2.5
pH	00400	8.0	8.2	7.8	7.9	7.9	7.9	7.8	7.9	8.0	8.0	7.9
Temperature (C)	00010	17.1	15.5	21.5	18.9	21.3	24.9	26.6	27.3	21.8	21.6	16.1
Dissolved Oxygen (mg/L)	00300	9.1	9.3	8.3	8.6	8.1	7.4	8.0	7.4	7.9	8.0	8.9
Conductivity (umhos/cm)	00094	793	751	861	841	828	799	766	773	795	798	780
Total Phosphorus (mg/L)	00665	0.04	0.05	0.04	0.06	0.02	<0.02	<0.02	0.02	0.02	<0.02	<0.02
Nitrate-N (mg/L)	00620	10.8	7.88	10.5	11.0	12.8	13.5	13.1	12.2	12.8	12.1	12.3
Chloride (mg/L)	00940	26.7	32.4	33.8	33.5	31.8	29.6	26.8	27.5	27.9	28.1	29.4
Sulfate (mg/L)	00945	54.8	63.9	73.3	69.8	69.9	70.7	62.5	63.1	62.0	61.5	63.1
Total Hardness (mg/L)	00900	287	154	299	286	284	270	236	264	281	277	274
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
Chlorophyll a (mg/m <sup>3</sup> )	32211	<1.00	1.96	<1.00	<1.00	2.40	1.48	1.75	1.60	1.30	<1.00	1.1
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
TKN	00625	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20

\*Estimate due to high flows

Parameter	Parameter Code	Date and 24 hour time									
		3/15/18	4/16/18	5/7/18	5/7/28	6/20/18	7/5/18	8/27/18	9/12/18	10/22/18	11/20/18
Weather Conditions		Dry	Dry	Wet	Wet	Dry	Dry	Dry	Wet	Wet	Dry
Flow (cfs)	00061	16	16	17	18	15	13	9.7	60	16	15
E coli (organisms/100 mL)	31699	140	150	76	150	110	690	110	8700	76	64
Suspended Solids (mg/L)	00530	2.70	5.20	5.90	10.2	5.90	5.70	6.60	118	9.50	6.20
Turbidity (NTU)	82079	3.1	4.5	3.7	4.8	3.4	3.8	3.9	137	7.1	4.7
pH	00400	8.0	7.9	7.9	7.9	7.8	7.8	7.8	7.7	8.0	7.7
Temperature (C)	00010	16.4	17.8	21.2	21.1	26.4	26.4	26.8	24	18.1	14
Dissolved Oxygen (mg/L)	00300	9.1	8.8	8.0	7.8	7.1	6.5	88.8	7.6	8.6	7.9
Conductivity (umhos/cm)	00094	786	809	791	799	757	698	739	319	693	808
Total Phosphorus (mg/L)	00665	<0.02	0.02	0.03	0.03	0.02	0.03	0.02	0.3	0.08	0.03
Nitrate-N (mg/L)	00620	12.5	12.60	13.1	13.5	13.4	11.9	13.6	4.03	9.72	12.2
Chloride (mg/L)	00940	28.6	30.6	29.6	28.8	27.5	25.4	26.7	10.4	25.4	30.6
Sulfate (mg/L)	00945	61.0	65.6	63.9	62.5	59.6	54.6	58.5	24.2	52.8	64.3
Total Hardness (mg/L)	00900	268	291	284	290	260	235	255	127	265	304
Ammonia-N (mg/L)	00610	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.14	<0.10
Chlorophyll a (mg/m <sup>3</sup> )	32211	<1.00	1.57	1.16	<1.00	<1.00	1.13	<1.00	1.34	<1.00	1.13
Pheophytin (mg/m <sup>3</sup> )	32218	<1.00	1	<1.00	<1.00	2.14	<1.00	<1.00	<1.00	<1.00	<1.00
TKN	00625	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	1.18	<0.20	<0.20

\*Estimate due to high flows