

Station Name Geronimo Creek @ Huber Rd, Upstream of Alligator Creek Confluence

TCEQ Segment No. 1804A
 TCEQ Station Id No. 20742 GB700
 Monitoring Type Routine
 Latitude 29.671272 Longitude -97.990778

| Parameter | Parameter Code | Date and 24 hour time | | | | | | | | | | |
|------------------------------------|----------------|-----------------------|----------|----------|---------|---------|---------|---------|---------|---------|---------|---------|
| | | 9/24/08 | 11/25/08 | 12/15/08 | 1/27/09 | 2/24/09 | 3/31/09 | 4/29/09 | 5/26/09 | 6/29/09 | 7/20/09 | 8/10/09 |
| Season | | Fall | Fall | Winter | Winter | Winter | Spring | Spring | Spring | Summer | Summer | Summer |
| Weather Conditions | | | | | | | | | Wet | Dry | Dry | Dry |
| Flow (cfs) | 00061 | DRY | DRY | DRY | DRY | DRY | DRY | DRY | DRY | DRY | DRY | DRY |
| E coli (organisms/100 mL) | 31699 | | | | | | | | | | | |
| Suspended Solids (mg/L) | 00530 | | | | | | | | | | | |
| Turbidity (NTU) | 82079 | | | | | | | | | | | |
| pH | 00400 | | | | | | | | | | | |
| Temperature (C) | 00010 | | | | | | | | | | | |
| Dissolved Oxygen (mg/L) | 00300 | | | | | | | | | | | |
| Conductivity (umhos/cm) | 00094 | | | | | | | | | | | |
| 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 ³) | 32211 | | | | | | | | | | | |
| Pheophytin (mg/m ³) | 32218 | | | | | | | | | | | |

| Parameter | Parameter Code | Date and 24 hour time | | | | | | | | | | |
|------------------------------------|----------------|-----------------------|---------|----------|---------|---------|--------|--------|---------|---------|---------|---------|
| | | 9/14/09 | 10/6/09 | 11/11/09 | 12/8/09 | 1/15/10 | 2/8/10 | 3/8/10 | 3/11/10 | 4/19/10 | 5/17/10 | 6/17/10 |
| Season | | Fall | Fall | Fall | Winter | | | | | | Wet | |
| Weather Conditions | | Wet | Wet | Wet | Wet | | | | | | | |
| Flow (cfs) | 00061 | DRY | 0 | DRY | 0 | 0.7 | 0 | 0 | | <0.01 | <0.01 | 0 |
| E coli (organisms/100 mL) | 31699 | | 510 | | 190 | 4100 | 1480 | | 70 | 2910 | 310 | 3 |
| Suspended Solids (mg/L) | 00530 | | 124 | | 15.1 | 19.5 | 194 | 13 | | 112 | 11 | 8 |
| Turbidity (NTU) | 82079 | | 188 | | 19.2 | 35.3 | 200 | 19.5 | | 228 | 26 | 8.8 |
| pH | 00400 | | 7.8 | | 7.9 | 7.7 | 8.2 | 8.1 | | 8 | 7.8 | 8.8 |
| Temperature (C) | 00010 | | 25.3 | | 10.9 | 11.7 | 15.7 | 17.8 | | 20 | 26 | 34.9 |
| Dissolved Oxygen (mg/L) | 00300 | | 5.9 | | 12.8 | 9.3 | 10.5 | 9.8 | | 10.2 | 6.1 | 8.7 |
| Conductivity (umhos/cm) | 00094 | | 158 | | 397 | 213 | 275 | 201 | | 219 | 248 | 220 |
| Total Phosphorus (mg/L) | 00665 | | 0.44 | | 0.21 | 0.6 | 0.39 | 0.07 | | 0.44 | 0.4 | 0.21 |
| Nitrate-N (mg/L) | 00620 | | 0.93 | | 0.8 | 0.48 | 2.08 | <0.05 | | 2.49 | 0.75 | <0.05 |
| Chloride (mg/L) | 00940 | | 1.3 | | 15.1 | 8.32 | 2.5 | 1.47 | | 1.8 | 1.51 | 1.62 |
| Sulfate (mg/L) | 00945 | | 2.92 | | 19.2 | 8.35 | 4.72 | 1.87 | | 3.47 | 2.91 | 2.07 |
| Total Hardness (mg/L) | 00900 | | 82.3 | | 195 | 78.2 | 130 | 88.2 | | 124 | 120 | 128 |
| Ammonia-N (mg/L) | 00610 | | 0.1 | | 0.11 | <0.10 | 0.1 | <0.10 | | 0.15 | 0.22 | 0.12 |
| Chlorophyll a (mg/m ³) | 32211 | | <1.0 | | <1 | 3.6 | 3.7 | 1.4 | | 2.2 | 1.8 | 2 |
| Pheophytin (mg/m ³) | 32218 | | <1.0 | | <1 | <1.0 | <1.0 | <1.0 | | <1.0 | <1.0 | 2.6 |

| Parameter | Parameter Code | Date and 24 hour time | | | | | | | | | | |
|------------------------------------|----------------|-----------------------|--------|---------|----------|----------|--------|---------|---------|---------|---------|---------|
| | | 7/20/10 | 8/9/10 | 9/24/12 | 11/27/12 | 12/11/12 | 1/2/13 | 3/25/13 | 4/16/13 | 5/13/13 | 6/12/13 | 7/24/13 |
| Weather Conditions | | | | | | Dry | | Dry | | Dry | Dry | Dry |
| Flow (cfs) | 00061 | 0 | 0 | 0.0 | 0.0 | DRY | <0.01 | DRY | DRY | DRY | DRY | DRY |
| E coli (organisms/100 mL) | 31699 | 23 | 650 | 53 | 770 | | 6 | | | | | |
| Suspended Solids (mg/L) | 00530 | 54.5 | 79 | 5.56 | 358 | | 24.0 | | | | | |
| Turbidity (NTU) | 82079 | 112 | 371 | 4.3 | 352 | | 16.3 | | | | | |
| pH | 00400 | 7.7 | 7.8 | 7.9 | 8.2 | | 7.6 | | | | | |
| Temperature (C) | 00010 | 29.8 | 27.4 | 28.5 | 17.8 | | 8.4 | | | | | |
| Dissolved Oxygen (mg/L) | 00300 | 3.6 | 4.3 | 2.6 | 8.2 | | 8.9 | | | | | |
| Conductivity (umhos/cm) | 00094 | 181 | 179 | 295 | 346 | | 585 | | | | | |
| Total Phosphorus (mg/L) | 00665 | 0.19 | 0.39 | 0.62 | 0.52 | | 0.10 | | | | | |
| Nitrate-N (mg/L) | 00620 | <0.05 | <0.05 | 0.11 | 0.07 | | 0.20 | | | | | |
| Chloride (mg/L) | 00940 | 4.21 | 4.16 | 6.64 | 13.8 | | 12.4 | | | | | |
| Sulfate (mg/L) | 00945 | 3.79 | 3.53 | 3.90 | 5.92 | | 11.0 | | | | | |
| Total Hardness (mg/L) | 00900 | 82.5 | 120 | 134 | 225 | | 268 | | | | | |
| Ammonia-N (mg/L) | 00610 | <0.10 | 0.18 | 0.17 | 0.31 | | <0.10 | | | | | |
| Chlorophyll a (mg/m ³) | 32211 | 1.9 | 15 | 5.28 | 27.8 | | <1.00 | | | | | |
| Pheophytin (mg/m ³) | 32218 | 2.8 | 18.1 | 1.49 | 322 | | 11.2 | | | | | |
| TKN | 00625 | | | 1.40 | 3.29 | | 0.54 | | | | | |

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 Monitoring Type Routine
 Latitude 29.671272 Longitude -97.990778

| Parameter | Parameter Code | Date and 24 hour time | | | | | | | | | | |
|------------------------------------|----------------|-----------------------|---------|---------|---------|---------|----------|---------|--------|--------|---------|---------|
| | | 8/6/13 | 9/18/13 | 9/23/13 | 9/30/13 | 10/9/13 | 11/11/13 | 12/9/13 | 2/3/14 | 5/6/14 | 5/14/14 | 6/11/14 |
| Weather Conditions | | Dry | Dry | Wet | Wet | Wet | Dry | Wet | Dry | Dry | Wet | Dry |
| Flow (cfs) | 00061 | DRY | DRY | DRY | 0.7 | 0.0 | 0.00 | 0.00 | 0 | DRY | <0.1 | DRY |
| E coli (organisms/100 mL) | 31699 | | | | 310 | 56 | 72 | 19 | 27 | | 3800 | |
| Suspended Solids (mg/L) | 00530 | | | | 60.2 | 14.5 | 13.6 | 16.5 | 1.00 | | 43.5 | |
| Turbidity (NTU) | 82079 | | | | 64.8 | 7.9 | 17.2 | 23.9 | 1.6 | | 57.4 | |
| pH | 00400 | | | | 7.3 | 7.7 | 7.7 | 8.2 | 7.8 | | 7.9 | |
| Temperature (C) | 00010 | | | | 32.8 | 21.9 | 17.6 | 7.8 | 9.1 | | 16.2 | |
| Dissolved Oxygen (mg/L) | 00300 | | | | 3.1 | 4.1 | 5.1 | 12.1 | 9.1 | | 6.4 | |
| Conductivity (umhos/cm) | 00094 | | | | 243 | 312 | 290 | 307 | 493 | | 223 | |
| Total Phosphorus (mg/L) | 00665 | | | | 0.33 | 0.37 | 0.32 | 0.18 | 0.02 | | 0.04 | |
| Nitrate-N (mg/L) | 00620 | | | | 0.20 | 0.14 | 0.11 | 0.08 | 0.25 | | 0.45 | |
| Chloride (mg/L) | 00940 | | | | 3.01 | 3.98 | 5.30 | 5.52 | 9.88 | | 2.29 | |
| Sulfate (mg/L) | 00945 | | | | 2.11 | 2.44 | 4.38 | 3.93 | 20.6 | | 3.65 | |
| Total Hardness (mg/L) | 00900 | | | | 105 | 144 | 132 | 145 | 239 | | 106 | |
| Ammonia-N (mg/L) | 00610 | | | | 0.15 | <0.10 | <0.10 | <0.10 | <0.10 | | 2.00 | |
| Chlorophyll a (mg/m ³) | 32211 | | | | <1.0 | 4.22 | 5.28 | 6.14 | 1.00 | | 8.06 | |
| Pheophytin (mg/m ³) | 32218 | | | | <1.0 | 3.78 | 1.53 | 2.58 | <1.0 | | <1.0 | |
| TKN | 00625 | | | | 1.30 | 0.89 | 0.81 | 1.33 | | | 0.936 | |

| Parameter | Parameter Code | Date and 24 hour time | | | | | | | | | | |
|------------------------------------|----------------|-----------------------|---------|---------|---------|---------|---------|---------|---------|---------|--------|---------|
| | | 11/5/14 | 12/8/14 | 1/14/15 | 1/28/15 | 2/10/15 | 3/16/15 | 4/13/15 | 5/19/15 | 6/10/15 | 7/7/15 | 8/17/15 |
| Weather Conditions | | Wet | Dry | Dry | Wet | Wet | Dry | Dry | Wet | Dry | Dry | Dry |
| Flow (cfs) | 00061 | DRY | DRY | DRY | 0.00 | DRY | 0.0 | 0.00 | 0.0 | 0.00 | 0.00 | 0 |
| E coli (organisms/100 mL) | 31699 | | | | 50 | | 20 | 24000 | 280 | 13 | 20 | 6 |
| Suspended Solids (mg/L) | 00530 | | | | 50.8 | | 7.00 | 400 | 13.7 | 16.4 | 32.0 | 167 |
| Turbidity (NTU) | 82079 | | | | 66.1 | | 15.5 | 305 | 27.6 | 19.6 | 63.7 | 622 |
| pH | 00400 | | | | 7.3 | | 7.7 | 7.8 | 7.7 | 7.6 | 8.8 | 8.6 |
| Temperature (C) | 00010 | | | | 10.8 | | 17.9 | 23.1 | 28.6 | 28.4 | 29.0 | 32.7 |
| Dissolved Oxygen (mg/L) | 00300 | | | | 2.1 | | 6.2 | 4.8 | 6.1 | 4.8 | 9.4 | 9.2 |
| Conductivity (umhos/cm) | 00094 | | | | 309 | | 367 | 177 | 225 | 386 | 191 | 284 |
| Total Phosphorus (mg/L) | 00665 | | | | 0.54 | | 0.78 | 0.64 | 0.41 | 0.32 | 0.12 | 0.46 |
| Nitrate-N (mg/L) | 00620 | | | | 16.8 | | <0.05 | 0.30 | 0.15 | 0.17 | 11.9 | <0.05 |
| Chloride (mg/L) | 00940 | | | | 3.04 | | 5.02 | 2.91 | 2.71 | 1.89 | 3.22 | 7.40 |
| Sulfate (mg/L) | 00945 | | | | 3.04 | | 3.14 | 2.86 | 1.77 | <1.00 | 2.28 | 2.31 |
| Total Hardness (mg/L) | 00900 | | | | 181 | | 185 | 104 | 148 | 184 | 128 | 190 |
| Ammonia-N (mg/L) | 00610 | | | | 0.18 | | 0.14 | <0.10 | <0.10 | <0.10 | <0.10 | 0.30 |
| Chlorophyll a (mg/m ³) | 32211 | | | | 3.4 | | 2.4 | 10.3 | <1.0 | 5.34 | 42.7 | 28.5 |
| Pheophytin (mg/m ³) | 32218 | | | | <1.0 | | <1.0 | 1.40 | <1.0 | 1.51 | 11.5 | 3.92 |
| TKN | 00625 | | | | 1.15 | | 1.75 | 1.370 | 0.87 | 1.14 | 1.55 | 1.54 |

| Parameter | Parameter Code | Date and 24 hour time | | | | | | | | | | |
|------------------------------------|----------------|-----------------------|----------|---------|---------|---------|--------|--------|---------|--------|--------|---------|
| | | 9/10/15 | 10/20/15 | 11/3/15 | 12/7/15 | 1/11/16 | 2/8/16 | 3/8/16 | 4/12/16 | 5/9/16 | 6/1/16 | 7/18/16 |
| Weather Conditions | | Wet | Dry | Wet | Dry | Dry | Dry | Dry | Wet | Dry | Wet | Dry |
| Flow (cfs) | 00061 | DRY | DRY | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 7.9 | 0.00 |
| E coli (organisms/100 mL) | 31699 | | | 500 | 93 | 15 | 210 | 2000 | 390 | 88 | 2200 | 2 |
| Suspended Solids (mg/L) | 00530 | | | 49.3 | 30.2 | 29.2 | 106 | 170 | 117 | 37.7 | 20.3 | 49.3 |
| Turbidity (NTU) | 82079 | | | 102 | 32.9 | 32.9 | 164 | 192 | 113 | 38.7 | 63.2 | 111 |
| pH | 00400 | | | 7.3 | 7.5 | 7.6 | 8.0 | 8.0 | 7.7 | 8.1 | 7.5 | 8.4 |
| Temperature (C) | 00010 | | | 22.6 | 14.4 | 11.7 | 12.3 | 25.1 | 21.9 | 28.2 | 24.8 | 35.2 |
| Dissolved Oxygen (mg/L) | 00300 | | | 1.1 | 3.4 | 5.4 | 9.9 | 8.3 | 6.6 | 5.2 | 6.5 | 7.9 |
| Conductivity (umhos/cm) | 00094 | | | 245 | 425 | 404 | 327 | 287 | 340 | 429 | 166 | 512 |
| Total Phosphorus (mg/L) | 00665 | | | 0.49 | 0.20 | 0.22 | 0.57 | 0.52 | 0.30 | 0.24 | 0.30 | 0.19 |
| Nitrate-N (mg/L) | 00620 | | | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | <0.05 | 1.87 | <0.05 |
| Chloride (mg/L) | 00940 | | | 1.50 | 7.24 | 6.26 | 5.83 | 5.51 | 4.89 | 4.22 | 1.06 | 43.90 |
| Sulfate (mg/L) | 00945 | | | 2.32 | 9.81 | 7.79 | 4.55 | 5.80 | 3.82 | 4.09 | <1.00 | 48.4 |
| Total Hardness (mg/L) | 00900 | | | 134 | 201 | 179 | 174 | 156 | 173 | 211 | 160 | 162 |
| Ammonia-N (mg/L) | 00610 | | | <0.10 | <0.10 | <0.10 | <0.10 | 0.39 | <0.10 | <0.10 | <0.10 | 0.12 |
| Chlorophyll a (mg/m ³) | 32211 | | | <1.00 | 3.74 | 2.91 | 11.1 | 9.17 | 51.2 | 9.21 | 1.13 | 9.40 |
| Pheophytin (mg/m ³) | 32218 | | | <1.00 | <1.00 | <1.00 | 1.33 | 1.01 | 6.33 | <1.0 | <1.0 | <1.0 |
| TKN | 00625 | | | 1.37 | 0.61 | 1.55 | 4.00 | 3.61 | 2.38 | 1.39 | 0.85 | 1.57 |

Station Name Geronimo Creek @ Huber Rd, Upstream of Alligator Creek Confluence

TCEQ Segment No. 1804A
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 Monitoring Type Routine
 Latitude 29.671272 Longitude -97.990778

| Parameter | Parameter Code | Date and 24 hour time | | | | | | | | | |
|------------------------------------|----------------|-----------------------|---------|----------|----------|---------|---------|---------|---------|--------|--------|
| | | 8/15/16 | 9/12/16 | 10/17/16 | 11/15/16 | 12/8/16 | 1/25/17 | 2/16/17 | 3/20/17 | 4/6/17 | 5/9/17 |
| Weather Conditions | | Dry | Dry | Dry | Dry | Wet | Dry | Wet | Dry | Dry | Dry |
| Flow (cfs) | 00061 | 0.00 | 0.00 | 0.00 | 0.00 | 0.5 | 0.00 | 0.04 | 0.3 | 0.2 | 0.1 |
| E coli (organisms/100 mL) | 31699 | 8700 | 76 | 13 | 980 | 400 | 250 | 82 | 31 | 30 | 140 |
| Suspended Solids (mg/L) | 00530 | 21.2 | 12.8 | - | 2.80 | 1.80 | 2.60 | 6.30 | 8.90 | 2.80 | 2.50 |
| Turbidity (NTU) | 82079 | 23.3 | 8.5 | 113 | 2.4 | 1.7 | 2.6 | 8.3 | 3.2 | 3.8 | 2.1 |
| pH | 00400 | 8.1 | 8.1 | 8.7 | 7.3 | 7.7 | 7.9 | 8.9 | 8.3 | 8.4 | 7.6 |
| Temperature (C) | 00010 | 25.6 | 28.7 | 29.7 | 18.2 | 9.8 | 17.1 | 21.2 | 23.9 | 26.1 | 22.3 |
| Dissolved Oxygen (mg/L) | 00300 | 8.0 | 10.5 | 5.6 | 5.5 | 9.1 | 11.9 | 16.8 | 14.5 | 15.8 | 5.9 |
| Conductivity (umhos/cm) | 00094 | 155 | 329 | 324 | 580 | 772 | 359 | 427 | 549 | 481 | 562 |
| Total Phosphorus (mg/L) | 00665 | 0.14 | 0.2 | 0.19 | 0.39 | 0.18 | 0.08 | 0.04 | 0.04 | 0.02 | 0.02 |
| Nitrate-N (mg/L) | 00620 | 0.23 | <0.05 | <0.05 | <0.05 | 2.80 | 0.85 | 0.65 | 3.50 | 2.90 | 5.49 |
| Chloride (mg/L) | 00940 | 2.60 | 10.6 | 12.3 | 44.7 | 22.1 | 7.53 | 13.4 | 11.5 | 14.2 | 13.2 |
| Sulfate (mg/L) | 00945 | 5.10 | 6.44 | 14.8 | 43.6 | 49.6 | 18.8 | 27.9 | 29.3 | 26.4 | 23.6 |
| Total Hardness (mg/L) | 00900 | 66.6 | 141 | 130 | 212 | 340 | 156 | 155 | 218 | 162 | 219 |
| Ammonia-N (mg/L) | 00610 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | 0.16 | <0.10 |
| Chlorophyll a (mg/m ³) | 32211 | 19.4 | 11.0 | 51.3 | 6.88 | <1.00 | 10.5 | 1.90 | 2.31 | 2.08 | 5.87 |
| Pheophytin (mg/m ³) | 32218 | 1.16 | 3.01 | 4.81 | <1.00 | <1.00 | 1.03 | 1.61 | 2.59 | 2.18 | 1.50 |
| TKN | 00625 | 0.99 | 1.04 | 2.38 | 1.60 | 0.74 | 1.06 | 1.32 | 0.94 | 1.00 | 0.66 |