
Material Suplementario de:

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DESBORDE FLUVIAL EN LA RETENCIÓN DE NUTRIENTES Y SU
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Tabla 1. Valores promedio (\pm DS) de cada parámetro físico-químico en los arroyos con bañados de desborde conservados (Cajaravillas, Chubichamini), en cada tramo (AB= abajo; ME= medio; AR= arriba) y en cada muestreo.

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| | CAJARAVILLAS | | | | | | | | | | | | CHUBICHAMINI | | | | | | | | | | | |
|---|---------------------------|-------------------------|---------------------------|--------------------------|---------------------------|--------------------------|---------------------------|--------------------------|---------------------------|--------------------------|--------------------------|-------------------------|---------------------------|----------------------------|---------------------------|---------------------------|--------------------------|---------------------------|--------------------------|---------------------------|--------------------------|--------------------------|---------------------------|--------------------------|
| | FEBRERO | | | JUNIO | | | MARZO | | | NOVIEMBRE | | | FEBRERO | | | JUNIO | | | MARZO | | | NOVIEMBRE | | |
| | AR | ME | AB | AR | ME | AB | AR | ME | AB | AR | ME | AB | AR | ME | AB | AR | ME | AB | AR | ME | AB | AR | ME | AB |
| Temperatura (°C) | 24.64 (± 0.04) | 22.62 (± 0.3) | 25.36 (± 0.76) | 11.27 (± 0.12) | 9.9 (± 0.26) | 8 (± 0.01) | 25.5 (± 0.36) | 21.2 (± 0.1) | 20.1 (± 0.44) | 26.32 (± 0.02) | 25.78 (± 0.21) | 26.76 (± 0.07) | 24.33 (± 0.15) | 23.88 (± 1.51) | 25.2 (± 0.58) | 11.2 (± 0.26) | 7.83 (± 0.21) | 7.83 (± 0.15) | 25.8 (± 0.87) | 26.57 (± 0.12) | 24.57 (± 0.06) | 23.49 (± 0.17) | 23.17 (± 0.04) | 24.3 (± 0.79) |
| pH | 8.47 (± 0.1) | 8.29 (± 0.08) | 8.4 (± 0.18) | 7.83 (± 0.06) | 7.57 (± 0.06) | 7.8 (± 0.35) | 8.47 (± 0.06) | 7.53 (± 0.06) | 8 (± 0.4) | 8.34 (± 0.06) | 8.37 (± 0.04) | 8.1 (± 0.07) | 8.66 (± 0.15) | 8.33 (± 0.25) | 8.96 (± 0.02) | 8.1 (± 0.1) | 7.63 (± 0.06) | 7.53 (± 0.15) | 8.2 (± 0.01) | 8.17 (± 0.06) | 8.13 (± 0.06) | 8.14 (± 0.05) | 8.11 (± 0.1) | 8.18 (± 0.07) |
| Conductividad ($\mu\text{S cm}^{-1}$) | 828.67 (± 5.13) | 801 (± 5.29) | 831.33 (± 57.62) | 891 (± 10.39) | 887 (± 4) | 888.33 (± 3.21) | 973 (± 5.57) | 983 (± 5.29) | 950.67 (± 26.27) | 813.67 (± 1.15) | 821.67 (± 5.86) | 830 (± 3.61) | 1133.33 (± 5.77) | 1070.67 (± 449.6) | 903.67 (± 16.17) | 792.33 (± 15.37) | 812.67 (± 7.51) | 815 (± 3.61) | 881 (± 16) | 888.67 (± 1.15) | 892.67 (± 1.15) | 867 (± 21.93) | 852.33 (± 24.54) | 863 (± 8.89) |
| OD (mg/L) | 2.82 (± 0.12) | 2.2 (± 0.28) | 3.68 (± 0.96) | 7.33 (± 0.21) | 7.4 (± 0.36) | 8.03 (± 0.15) | 8.73 (± 1.59) | 6.73 (± 0.12) | 4.7 (± 0.87) | 5.76 (± 0.35) | 4.67 (± 0.09) | 3.48 (± 0.09) | 7.34 (± 1.03) | 5.28 (± 1.36) | 5.4 (± 0.74) | 7.8 (± 0.66) | 9.4 (± 0.17) | 11.43 (± 1.33) | 7.97 (± 0.74) | 6.97 (± 0.96) | 5.57 (± 0.8) | 5.82 (± 1.21) | 4.28 (± 0.17) | 4.8 (± 0.21) |
| Turbidez (NTU) | 148.33 (± 87.92) | 21.27 (± 0.38) | 200 (± 22.61) | 17.67 (± 1.06) | 39.9 (± 24.64) | 14.97 (± 0.61) | 227.67 (± 82.98) | 422 (± 9.9) | 650 (± 103.2) | 74.4 (± 23.05) | 91.43 (± 10.9) | 96.77 (± 9.51) | 174.71 (± 150.7) | 619 (± 2.65) | 100.57 (± 14.31) | 84.33 (± 13.58) | 40.23 (± 3.86) | 44.67 (± 8.28) | 33 (± 13) | 103 (± 44.93) | 31.33 (± 3.06) | 369 (± 174.16) | 171 (± 3.61) | 147.67 (± 2.52) |
| ORP | 266 (± 5.2) | 289.33 (± 5.1) | 246.67 (± 6.11) | 570.67 (± 6.43) | 572.33 (± 5.03) | 573 (± 3.61) | 212 (± 13.45) | 255 (± 2.65) | 223.33 (± 24.17) | 0.52 (± 0.01) | 0.53 (± 0.01) | 0.53 (± 0.01) | 250.67 (± 8.33) | 188.67 (± 11.06) | 211 (± 9.85) | 510.33 (± 15.31) | 521 (± 4) | 519.67 (± 5.13) | 223.33 (± 6.11) | 211.33 (± 17.21) | 214.67 (± 3.06) | 0.55 (± 0.01) | 0.55 (± 0.02) | 0.55 (± 0.01) |
| TDS (mg/L) | 0.53 (± 0.01) | 0.51 (± 0.01) | 0.53 (± 0.04) | 243.33 (± 6.11) | 238.67 (± 10.41) | 218 (± 40.95) | 622.67 (± 3.51) | 629.67 (± 3.21) | 619 (± 2.65) | 211 (± 1) | 210.33 (± 1.15) | 226 (± 3) | 0.73 (± 0.01) | 0.68 (± 0.3) | 0.58 (± 0.01) | 219.33 (± 7.51) | 264.67 (± 7.37) | 238.67 (± 25.81) | 564.67 (± 9.02) | 569 (± 1) | 570.33 (± 0.58) | 202.33 (± 5.69) | 235 (± 2.65) | 235.67 (± 4.04) |
| P-PO ₄ ³⁻ (mg/L) | 0.17 (± 0.03) | 0.18 (± 0.04) | 0.14 (± 0.04) | 0.23 (± 0.02) | 0.25 (± 0.01) | 0.26 (± 0.01) | 0.08 (± 0.01) | 0.12 (± 0.01) | 0.14 (± 0.01) | 0.32 (± 0.02) | 0.35 (± 0.04) | 0.36 (± 0.05) | 0.13 (± 0.08) | 0.33 (± 0.03) | 0.07 (± 0.03) | 0.15 (± 0.02) | 0.18 (± 0.01) | 0.18 (± 0.01) | 0.7 (± 0.01) | 0.69 (± 0.02) | 0.51 (± 0.02) | 0.25 (± 0.04) | 0.32 (± 0.04) | 0.29 (± 0.04) |
| N-NO ₃ ⁻ (mg/L) | 0.15 (± 0.05) | 0.11 (± 0.04) | 0.08 (± 0.02) | 0.24 (± 0.11) | 0.26 (± 0.1) | 0.25 (± 0.08) | 0.06 (± 0.02) | 0.09 (± 0.01) | 0.13 (± 0.02) | 0.69 (± 0.02) | 0.57 (± 0.01) | 0.72 (± 0.01) | 0.05 (± 0.02) | 0.07 (± 0.01) | 0.03 (± 0.01) | 0.04 (± 0.01) | 0.05 (± 0.01) | 0.04 (± 0.01) | 0.06 (± 0.03) | 0.11 (± 0.04) | 0.1 (± 0.03) | 0.15 (± 0.03) | 0.2 (± 0.02) | 0.26 (± 0.04) |
| N-NO ₂ ⁻ (mg/L) | 0.03 (± 0.01) | 0.04 (± 0.01) | 0.03 (± 0.01) | 0.03 (± 0.01) | 0.03 (± 0.01) | 0.02 (± 0.01) | 0.02 (± 0.01) | 0.03 (± 0.01) | 0.09 (± 0.03) | 0.07 (± 0.01) | 0.06 (± 0.01) | 0.05 (± 0.01) | 0.04 (± 0.01) | 0.07 (± 0.01) | 0.02 (± 0.01) | 0.01 (± 0.01) | 0.01 (± 0.01) | 0.01 (± 0.01) | 0.07 (± 0.01) | 0.04 (± 0.01) | 0.02 (± 0.01) | 0.03 (± 0.01) | 0.03 (± 0.01) | 0.02 (± 0.01) |
| N-NH ₄ ⁺ (mg/L) | 0.12 (± 0.01) | 0.1 (± 0.01) | 0.22 (± 0.03) | 0.21 (± 0.02) | 0.17 (± 0.03) | 0.15 (± 0.09) | 0.11 (± 0.05) | 0.09 (± 0.01) | 0.15 (± 0.07) | 0.17 (± 0.01) | 0.13 (± 0.06) | 0.23 (± 0.03) | 0.21 (± 0.04) | 1.69 (± 0.02) | 0.09 (± 0.03) | 0.12 (± 0.04) | 0.04 (± 0.02) | 0.01 (± 0.01) | 0.28 (± 0.05) | 0.11 (± 0.02) | 0.13 (± 0.01) | 0.22 (± 0.13) | 0.27 (± 0.11) | 0.14 (± 0.08) |
| Ptotal (mg/L) | 0.34 (± 0.04) | 0.37 (± 0.02) | 0.22 (± 0.02) | 0.43 (± 0.04) | 0.45 (± 0.02) | 0.43 (± 0.01) | 0.32 (± 0.09) | 0.51 (± 0.12) | 0.45 (± 0.11) | 0.45 (± 0.01) | 0.42 (± 0.01) | 0.45 (± 0.01) | 0.2 (± 0.08) | 0.48 (± 0.03) | 0.11 (± 0.02) | 0.39 (± 0.02) | 0.4 (± 0.01) | 0.35 (± 0.03) | 0.93 (± 0.04) | 1.03 (± 0.02) | 0.75 (± 0.02) | 0.41 (± 0.01) | 0.48 (± 0.01) | 0.41 (± 0.01) |
| Ntotal (mg/L) | 1.89 (± 0.15) | 1.63 (± 0.11) | 1.46 (± 0.1) | 2.25 (± 0.49) | 2.41 (± 0.04) | 2.5 (± 0.1) | 2.73 (± 0.55) | 4.45 (± 1.29) | 3.41 (± 0.87) | 2.91 (± 0.39) | 2.32 (± 0.21) | 3.72 (± 0.45) | 1.82 (± 0.17) | 3.33 (± 0.22) | 1.51 (± 0.08) | 2.86 (± 0.14) | 2.22 (± 0.04) | 2.44 (± 0.12) | 3.52 (± 0.15) | 3.86 (± 0.23) | 2.66 (± 0.13) | 2.7 (± 0.65) | 3.4 (± 0.25) | 2.85 (± 0.36) |
| DQO (mg/L) | 31.33 (± 3.51) | 36.67 (± 2.52) | 59 (± 2) | 16.33 (± 4.04) | 15.67 (± 2.08) | 7.33 (± 1.53) | 43 (± 5) | 50.33 (± 7.77) | 72.33 (± 16.8) | 50.67 (± 3.06) | 48.67 (± 1.53) | 52.33 (± 3.06) | 94.67 (± 5.69) | 135 (± 9.54) | 48.33 (± 12.74) | 72.33 (± 21.03) | 58 (± 5.29) | 56.67 (± 6.66) | 32 (± 4.36) | 53 (± 11.36) | 28 (± 1.73) | 69.67 (± 4.16) | 83.33 (± 6.66) | 70.33 (± 4.51) |
| DBO ₅ (mg/L) | 4.67 (± 1.15) | 8 (± 1) | 8.67 (± 2.52) | 10.33 (± 3.79) | 12.67 (± 0.58) | 13 (± 1) | 11.33 (± 3.06) | 15.67 (± 2.89) | 12.67 (± 1.15) | 12.33 (± 2.52) | 8.67 (± 1.53) | 7.67 (± 0.58) | 11 (± 0.01) | 17.33 (± 2.08) | 10 (± 1) | 6 (± 1) | 7 (± 1) | 8 (± 1) | 5.33 (± 0.58) | 11 (± 3.46) | 14.33 (± 2.08) | 9.33 (± 1.15) | 10.67 (± 1.15) | 7.67 (± 0.58) |
| SST (mg/L) | 10.77 (± 3.78) | 30.77 (± 1.88) | 40.97 (± 5.49) | 15.47 (± 0.29) | 29.4 (± 0.79) | 11.77 (± 1.66) | 148.9 (± 31.38) | 413 (± 178.2) | 319.67 (± 133.7) | 28.37 (± 0.78) | 24.53 (± 1.55) | 18.23 (± 2.57) | 51.3 (± 3.49) | 97.07 (± 8.49) | 23.33 (± 3.31) | 42.57 (± 2.58) | 17.7 (± 0.69) | 19.1 (± 0.36) | 21.53 (± 7.64) | 100.77 (± 46.64) | 24.87 (± 1.44) | 34.73 (± 2.24) | 26.37 (± 3.13) | 12.73 (± 0.95) |