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|---------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------|-----------------|------------------------|
|  | <b>Confederación Hidrográfica del Guadiana</b> | <b>Gestión de laboratorios</b>                     | <b>Informes</b> | <b>Report: R030412</b> |
|                                                                                 | <b>Fecha: 15-12-2017</b>                       | <b>Resultados de análisis por punto de control</b> |                 | <b>Página: 1</b>       |

|                                         |                                                                                                         |                                                            |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| <b>Código:</b> GN00000040               | <b>Nombre del punto:</b> RIO GUERRERO - R. Guerrero - Desembocadura, 200m aguas arriba confluencia R. G | <b>Cauce:</b> RIO GUERRERO                                 |
| <b>Código de la masa de agua:</b> 13383 | <b>Nombre de la masa de agua:</b> RIO GUERRERO                                                          |                                                            |
| <b>Localidad:</b> Badajoz               | <b>Provincia:</b> Badajoz                                                                               | <b>UTM X:</b> 687669 <b>UTM Y:</b> 4310850 <b>Huso:</b> 29 |

|                                          |       | ENERO<br>17-01-2017 | FEBRERO<br>01-02-2017 | MARZO<br>22-03-2017 | ABRIL<br>10-04-2017 | MAYO<br>03-05-2017 | JUNIO<br>12-06-2017 | JULIO<br>03-07-2017 | AGOSTO<br>01-08-2017 | SEPTIEMBRE<br>18-09-2017 | OCTUBRE<br>17-10-2017 | NOVIEMBRE | DICIEMBRE |
|------------------------------------------|-------|---------------------|-----------------------|---------------------|---------------------|--------------------|---------------------|---------------------|----------------------|--------------------------|-----------------------|-----------|-----------|
| % Oxígeno (in situ)                      | % SAT | 64,6                | 86,6                  | 97,6                | 86,2                | 52,2               | 95,8                | 75                  | 74,6                 | 47,8                     | 32                    | ---       | ---       |
| Cloro residual total (in situ)           | mg/L  | ---                 | ---                   | ---                 | ---                 | ---                | ---                 | ---                 | ---                  | ---                      | ---                   | ---       | ---       |
| Color aparente (in situ)                 | ----- | ---                 | ---                   | ---                 | ---                 | ---                | ---                 | ---                 | ---                  | ---                      | ---                   | ---       | ---       |
| Conductividad a 20 °C (in situ)          | µS/cm | 596                 | 655                   | 630                 | 689                 | 742                | 679                 | 634                 | 640                  | 675                      | 741                   | ---       | ---       |
| Nitritos (in situ)                       | mg/L  | ---                 | ---                   | ---                 | ---                 | ---                | ---                 | ---                 | ---                  | ---                      | ---                   | ---       | ---       |
| Olor (in situ)                           | ----- | ---                 | ---                   | ---                 | ---                 | ---                | ---                 | ---                 | ---                  | ---                      | ---                   | ---       | ---       |
| Oxígeno disuelto (in situ)               | mg/L  | 7,8                 | 9,2                   | 9,8                 | 7,9                 | 4,8                | 7,7                 | 6,2                 | 6,2                  | 4,3                      | 3                     | ---       | ---       |
| pH (in situ)                             | pH    | 7                   | 7,2                   | 7,5                 | 7,5                 | 7                  | 7,7                 | 7,5                 | 7,1                  | 7,1                      | 7,3                   | ---       | ---       |
| Temperatura del agua "in situ" (in situ) | °C    | 6,8                 | 11,1                  | 14,5                | 18,7                | 18                 | 25,5                | 23,5                | 24,3                 | 19,8                     | 19,7                  | ---       | ---       |
| Alcalinidad total                        | mg/L  | 127,2               | 143,5                 | 158,9               | 163,9               | 179,3              | 155,4               | 154,5               | 156,0                | 182,5                    | 197,4                 | ---       | ---       |
| Aluminio                                 | mg/L  | < 0,1000            | < 0,1000              | < 0,1000            | < 0,1000            | < 0,1000           | < 0,1000            | < 0,1000            | < 0,1000             | 0,1015                   | < 0,1000              | ---       | ---       |
| Amonio total                             | mg/L  | 0,16                | 0,05                  | < 0,05              | 0,05                | 0,15               | 0,07                | < 0,05              | 0,10                 | < 0,05                   | < 0,05                | ---       | ---       |
| Arsénico                                 | µg/L  | 3,229               | ---                   | 3,566               | 4,879               | 5,851              | 7,819               | 7,211               | 7,249                | 7,488                    | 10,200                | ---       | ---       |
| Arsénico                                 | mg/L  | ---                 | < 0,025000            | ---                 | ---                 | ---                | ---                 | ---                 | ---                  | ---                      | ---                   | ---       | ---       |
| Aspecto                                  | ----- | 1                   | 1                     | 1                   | 1                   | 2                  | 1                   | 1                   | 1                    | 2                        | 1                     | ---       | ---       |
| Bario                                    | mg/L  | 0,0607              | 0,0557                | 0,0642              | 0,0680              | 0,0641             | 0,0712              | 0,0708              | 0,0699               | 0,0849                   | 0,0730                | ---       | ---       |
| Bicarbonatos                             | mg/L  | 127,2               | 143,5                 | 158,9               | 163,9               | 179,3              | 155,4               | 154,5               | 156,0                | 182,5                    | 197,4                 | ---       | ---       |
| Boro                                     | mg/L  | < 0,1000            | < 0,1000              | < 0,1000            | < 0,1000            | < 0,1000           | < 0,1000            | < 0,1000            | < 0,1000             | < 0,1000                 | < 0,1000              | ---       | ---       |
| Cadmio                                   | µg/L  | < 0,100             | ---                   | < 0,100             | < 0,100             | < 0,100            | < 0,100             | < 0,100             | < 0,100              | < 0,100                  | < 0,100               | ---       | ---       |
| Cadmio                                   | mg/L  | ---                 | < 0,025000            | ---                 | ---                 | ---                | ---                 | ---                 | ---                  | ---                      | ---                   | ---       | ---       |
| Calcio                                   | mg/L  | 53,5500             | 59,6900               | 51,0400             | 57,2300             | 65,0300            | 52,6100             | 50,7200             | 55,1000              | 63,1700                  | 66,6300               | ---       | ---       |
| Carbonatos                               | mg/L  | < 0,1               | < 0,1                 | < 0,1               | < 0,1               | < 0,1              | < 0,1               | < 0,1               | < 0,1                | < 0,1                    | < 0,1                 | ---       | ---       |
| Cianuro Total                            | mg/L  | < 0,010             | < 0,010               | < 0,010             | < 0,010             | < 0,010            | < 0,010             | < 0,010             | < 0,010              | < 0,010                  | < 0,010               | ---       | ---       |
| Cinc                                     | mg/L  | < 0,1000            | < 0,1000              | < 0,1000            | < 0,1000            | < 0,1000           | < 0,1000            | < 0,1000            | < 0,1000             | < 0,1000                 | < 0,1000              | ---       | ---       |
| Cloruros                                 | mg/L  | 55,3                | 66,2                  | 64,1                | 69,3                | 81,3               | 71,0                | 63,1                | 65,9                 | 69,7                     | 81,5                  | ---       | ---       |
| Cobalto                                  | mg/L  | < 0,0500            | < 0,0500              | < 0,0500            | < 0,0500            | < 0,0500           | < 0,0500            | < 0,0500            | < 0,0500             | < 0,0500                 | < 0,0500              | ---       | ---       |
| Cobre                                    | µg/L  | 1,977               | ---                   | 1,473               | 1,489               | 1,470              | 1,776               | 35,710              | ---                  | 14,750                   | ---                   | ---       | ---       |
| Cobre                                    | mg/L  | ---                 | < 0,1000              | ---                 | ---                 | ---                | ---                 | ---                 | < 0,1000             | ---                      | < 0,1000              | ---       | ---       |

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|  | <b>Confederación Hidrográfica del Guadiana</b> | <b>Gestión de laboratorios</b>                     | <b>Informes</b> | <b>Report: R030412</b> |
|                                                                                 | <b>Fecha: 15-12-2017</b>                       | <b>Resultados de análisis por punto de control</b> |                 | <b>Página: 2</b>       |

|                                         |                                                                                                         |                                                            |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| <b>Código:</b> GN00000040               | <b>Nombre del punto:</b> RIO GUERRERO - R. Guerrero - Desembocadura, 200m aguas arriba confluencia R. G | <b>Cauce:</b> RIO GUERRERO                                 |
| <b>Código de la masa de agua:</b> 13383 | <b>Nombre de la masa de agua:</b> RIO GUERRERO                                                          |                                                            |
| <b>Localidad:</b> Badajoz               | <b>Provincia:</b> Badajoz                                                                               | <b>UTM X:</b> 687669 <b>UTM Y:</b> 4310850 <b>Huso:</b> 29 |

|                                       |       | ENERO<br>17-01-2017 | FEBRERO<br>01-02-2017 | MARZO<br>22-03-2017 | ABRIL<br>10-04-2017 | MAYO<br>03-05-2017 | JUNIO<br>12-06-2017 | JULIO<br>03-07-2017 | AGOSTO<br>01-08-2017 | SEPTIEMBRE<br>18-09-2017 | OCTUBRE<br>17-10-2017 | NOVIEMBRE | DICIEMBRE |
|---------------------------------------|-------|---------------------|-----------------------|---------------------|---------------------|--------------------|---------------------|---------------------|----------------------|--------------------------|-----------------------|-----------|-----------|
| Color                                 | mg/L  | 19,1                | 15,2                  | 12,6                | 12,9                | 13,0               | 16,9                | 16,1                | 14,4                 | 18,6                     | 22,0                  | ---       | ---       |
| Conductividad a 20 °C                 | µS/cm | 546                 | 619                   | 581                 | 623                 | 686                | 622                 | 573                 | 595                  | 624                      | 677                   | ---       | ---       |
| Cromo                                 | µg/L  | < 5,000             | ---                   | < 5,000             | < 5,000             | < 5,000            | < 5,000             | < 5,000             | < 5,000              | 7,884                    | < 5,000               | ---       | ---       |
| Cromo                                 | mg/L  | ---                 | < 0,025000            | ---                 | ---                 | ---                | ---                 | ---                 | ---                  | ---                      | ---                   | ---       | ---       |
| D.B.O. 5d                             | mg/L  | 1,6                 | 2,6                   | 3,5                 | 4,0                 | 2,1                | 3,5                 | 9,2                 | 3,2                  | 7,3                      | 9,3                   | ---       | ---       |
| D.Q.O. 10min (Índice de Permanganato) | mg/L  | 6,3                 | 6,1                   | 7,0                 | 6,2                 | 7,5                | 8,5                 | 6,7                 | 5,9                  | 6,4                      | 12,0                  | ---       | ---       |
| Dureza total                          | mg/L  | 231,6               | 251,6                 | 229,3               | 262,6               | 283,0              | 228,3               | 218,0               | 234,6                | 265,2                    | 273,2                 | ---       | ---       |
| Estaño                                | mg/L  | < 0,1000            | < 0,1000              | < 0,1000            | < 0,1000            | < 0,1000           | < 0,1000            | < 0,1000            | < 0,1000             | < 0,1000                 | < 0,1000              | ---       | ---       |
| Estroncio                             | mg/L  | < 0,5000            | < 0,5000              | < 0,5000            | < 0,5000            | < 0,5000           | < 0,5000            | < 0,5000            | < 0,5000             | < 0,5000                 | < 0,5000              | ---       | ---       |
| Fenoles                               | mg/L  | < 0,050             | < 0,050               | < 0,050             | < 0,050             | < 0,050            | < 0,050             | < 0,050             | < 0,050              | < 0,050                  | < 0,050               | ---       | ---       |
| Fluoruros                             | mg/L  | 0,20                | 0,19                  | 0,20                | 0,27                | 0,23               | 0,38                | 0,32                | 0,31                 | 0,30                     | 0,27                  | ---       | ---       |
| Fosfatos                              | mg/L  | 0,05                | < 0,05                | < 0,05              | < 0,05              | < 0,05             | < 0,05              | < 0,05              | 0,05                 | < 0,05                   | 0,05                  | ---       | ---       |
| Fósforo total                         | mg/L  | < 0,1000            | < 0,1000              | < 0,1000            | < 0,1000            | < 0,1000           | < 0,1000            | < 0,1000            | < 0,1000             | < 0,1000                 | < 0,1000              | ---       | ---       |
| Hidróxidos                            | mg/L  | < 0,1               | < 0,1                 | < 0,1               | < 0,1               | < 0,1              | < 0,1               | < 0,1               | < 0,1                | < 0,1                    | < 0,1                 | ---       | ---       |
| Hierro                                | mg/L  | 0,1699              | < 0,1000              | 0,1870              | 0,1179              | 0,1713             | 0,2004              | 0,2836              | 0,1968               | 0,3183                   | 0,2516                | ---       | ---       |
| Magnesio                              | mg/L  | 23,7300             | 24,8400               | 24,6800             | 29,0100             | 29,2300            | 23,4900             | 22,1400             | 23,5000              | 26,0300                  | 25,8800               | ---       | ---       |
| Manganeso                             | µg/L  | 98,820              | ---                   | ---                 | ---                 | ---                | ---                 | ---                 | ---                  | ---                      | ---                   | ---       | ---       |
| Manganeso                             | mg/L  | ---                 | < 0,1000              | < 0,1000            | < 0,1000            | 0,1509             | < 0,1000            | 0,1108              | 0,1167               | 0,1881                   | 0,3842                | ---       | ---       |
| Mercurio                              | µg/L  | ---                 | ---                   | < 0,050             | < 0,050             | < 0,050            | < 0,020             | < 0,020             | < 0,020              | < 0,020                  | < 0,020               | ---       | ---       |
| Mercurio                              | mg/L  | < 0,000050          | < 0,000050            | ---                 | ---                 | ---                | ---                 | ---                 | ---                  | ---                      | ---                   | ---       | ---       |
| Níquel                                | µg/L  | < 5,000             | ---                   | < 5,000             | < 5,000             | < 5,000            | < 5,000             | < 5,000             | ---                  | 5,625                    | ---                   | ---       | ---       |
| Níquel                                | mg/L  | ---                 | < 0,0500              | ---                 | ---                 | ---                | ---                 | ---                 | < 0,0500             | ---                      | < 0,0500              | ---       | ---       |
| Nitratos                              | mg/L  | 3,5                 | 5,0                   | < 1,0               | 1,1                 | < 1,0              | < 1,0               | < 1,0               | 2,3                  | < 1,0                    | < 1,0                 | ---       | ---       |
| Oxígeno disuelto                      | mg/L  | 7,4                 | 11,2                  | 9,3                 | 8,5                 | 4,8                | 7,8                 | 3,9                 | 7,1                  | 3,9                      | 3,2                   | ---       | ---       |
| pH                                    | pH    | 7,8                 | 7,9                   | 8,0                 | 7,9                 | 7,8                | 8,0                 | 7,8                 | 8,2                  | 7,7                      | 7,7                   | ---       | ---       |
| Plomo                                 | µg/L  | < 1,000             | ---                   | < 1,000             | < 1,000             | < 1,000            | < 1,000             | 1,956               | 2,668                | 1,286                    | < 1,000               | ---       | ---       |
| Plomo                                 | mg/L  | ---                 | < 0,025000            | ---                 | ---                 | ---                | ---                 | ---                 | ---                  | ---                      | ---                   | ---       | ---       |
| Potasio                               | mg/L  | 5,7600              | 5,5950                | 4,0350              | 3,9540              | 6,0000             | 6,1810              | 6,0730              | 4,0560               | 6,0190                   | 6,0550                | ---       | ---       |

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|                                                                                 | <b>Fecha:</b> 15-12-2017                       | <b>Resultados de análisis por punto de control</b> |                 | <b>Página: 3</b>       |

|                                         |                                                                                                         |                                                            |
|-----------------------------------------|---------------------------------------------------------------------------------------------------------|------------------------------------------------------------|
| <b>Código:</b> GN00000040               | <b>Nombre del punto:</b> RIO GUERRERO - R. Guerrero - Desembocadura, 200m aguas arriba confluencia R. G | <b>Cauce:</b> RIO GUERRERO                                 |
| <b>Código de la masa de agua:</b> 13383 | <b>Nombre de la masa de agua:</b> RIO GUERRERO                                                          |                                                            |
| <b>Localidad:</b> Badajoz               | <b>Provincia:</b> Badajoz                                                                               | <b>UTM X:</b> 687669 <b>UTM Y:</b> 4310850 <b>Huso:</b> 29 |

|                       |      | <b>ENERO</b><br><b>17-01-2017</b> | <b>FEBRERO</b><br><b>01-02-2017</b> | <b>MARZO</b><br><b>22-03-2017</b> | <b>ABRIL</b><br><b>10-04-2017</b> | <b>MAYO</b><br><b>03-05-2017</b> | <b>JUNIO</b><br><b>12-06-2017</b> | <b>JULIO</b><br><b>03-07-2017</b> | <b>AGOSTO</b><br><b>01-08-2017</b> | <b>SEPTIEMBRE</b><br><b>18-09-2017</b> | <b>OCTUBRE</b><br><b>17-10-2017</b> | <b>NOVIEMBRE</b> | <b>DICIEMBRE</b> |
|-----------------------|------|-----------------------------------|-------------------------------------|-----------------------------------|-----------------------------------|----------------------------------|-----------------------------------|-----------------------------------|------------------------------------|----------------------------------------|-------------------------------------|------------------|------------------|
| Selenio               | µg/L | < 1,000                           | ---                                 | < 1,000                           | < 1,000                           | < 1,000                          | < 1,000                           | 3,012                             | 2,645                              | 2,252                                  | < 1,000                             | ---              | ---              |
| Selenio               | mg/L | ---                               | < 0,025000                          | ---                               | ---                               | ---                              | ---                               | ---                               | ---                                | ---                                    | ---                                 | ---              | ---              |
| Sílice                | mg/L | 6,7360                            | 2,5610                              | 1,8990                            | 3,3210                            | 5,1730                           | 4,9940                            | 3,6050                            | 9,0610                             | 7,4350                                 | 10,5300                             | ---              | ---              |
| Sodio                 | mg/L | 32,4700                           | 33,8000                             | 35,6700                           | 38,9800                           | 46,6000                          | 37,4300                           | 37,0500                           | 37,0200                            | 44,0900                                | 41,6000                             | ---              | ---              |
| Sólidos en Suspensión | mg/L | < 10                              | < 10                                | < 10,0                            | 10,2                              | < 10,0                           | 19,5                              | 19,8                              | 14,6                               | 17,5                                   | 20,8                                | ---              | ---              |
| Sulfatos              | mg/L | 92,2                              | 104,8                               | 83,6                              | 87,7                              | 89,5                             | 91,3                              | 75,4                              | 77,1                               | 69,6                                   | 75,0                                | ---              | ---              |