Effect of absorbents and electrode materials

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  | Adsorption (zeolite) | Adsorption (zeolite)/ DEP (Stainless steel) | Adsorption (zeolite)/ DEP (titanium) | Adsorption (bentonite) | Adsorption (bentonite)/ DEP (Stainless steel) | Adsorption (bentonite)/ DEP (titanium) |
| Residual (mg/L) | 10.019.9710.06 | 9.289.168.93 | 4.123.874.01 | 23.0322.9723.01 | 22.2623.0322.97 | 18.8618.9519.05 |

Effect of absorbent dosage

|  |  |  |
| --- | --- | --- |
|  | Adsorption | Adsorption/ DEP |
| Residual (mg/L) | 10.72; 10.51; 10.23 | 9.90; 10.05; 10.03 |
| 10.22; 10.49; 10.04 | 9.18; 9.35; 9.17 |
| 10.24; 9.89; 9.88 | 4.11; 4.00; 4.02 |
| 9.03; 9.01; 9.18 | 7.75; 7.89; 7.81 |
| 8.00; 8.00; 8.05 | 7.00; 7.12; 7.01 |
| 7.68; 7.51; 7.34 | 6.69; 6.50; 6.44 |
| 7.13; 6.98; 7.01 | 6.02; 5.91; 6.18 |

Effect of the voltage

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Votage (V) | 9 | 11 | 13 | 15 | 20 | 25 |
| Residual (mg/L) | 7.507.317.62 | 4.033.984.12 | 3.603.693.55 | 1.881.811.71 | 3.533.523.45 | 2.983.052.99 |

Effect of processing time

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Time (min) | 5 | 10 | 15 | 20 | 25 | 30 |
| Residual (mg/L) | 8.838.898.71 | 5.325.265.11 | 3.143.012.93 | 1.801.761.91 | 1.501.651.59 | 1.441.501.61 |

Effect of the initial concentration (adsorption only)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| initial concentration (mg/L) | 20 | 25 | 30 | 35 | 40 | 45 | 50 |
| Residual (mg/L) | 6.316.506.38 | 7.477.617.60 | 9.889.729.92 | 12.1112.2311.93 | 14.2314.0614.16 | 15.3214.9614.72 | 15.7915.6115.82 |

Effect of the initial concentration (adsorption/ DEP)

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| initial concentration (mg/L) | 20 | 25 | 30 | 35 | 40 | 45 | 50 |
| Residual (mg/L) | 0.650.490.41 | 1.501.421.40 | 1.841.961.71 | 3.693.513.44 | 4.534.414.59 | 8.248.238.23 | 12.0212.0612.00 |