020419 (1)

# CURRAGH RESOURCES CORPORATION

## WATER ANALYSIS

| Sample Site 2BC-X1 | Sample Period January - March 1987 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date D/M | 7/1 | 15/1 | 20/1 | 28/1 | 3/2 | 10/2 | 17/2 | 24/2 | 3/3 | 10/3 | 17/3 | 24/3 | |
| pH | 7.11 | | | | | | | | | | | | |
| Suspended solids mg/L | 57 | | | | | | | | | | | | |
| Flow m $^3$/min | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Ammonia mg/L | 0.32 | | | | | | | | | | | | |
| Copper mg/L | 0.01 | | | | | | | | | | | | |
| Lead mg/L | 0.19 | | | | | | | | | | | | |
| Zinc mg/L | 56.8 | | | | | | | | | | | | |
| Cyanide mg/L | <0.01 | | | | | | | | | | | | |
| Manganese mg/L | 8.75 | | | | | | | | | | | | |
| Sodium mg/L | 30.0 | | | | | | | | | | | | |
| Sulfate mg/L | 1205 | | | | | | | | | | | | |
| Temp °C | 1 | | | | | | | | | | | | |
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# CURRAGH RESOURCES CORPORATION

## WATER ANALYSIS

| Sample Site 2BC-X11 | Sample Period January - March 1987 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date D/M | 7/1 | 15/1 | 20/1 | 28/1 | 3/2 | 10/2 | 17/2 | 24/2 | 3/3 | 10/3 | 17/3 | 24/3 | |
| pH | 7.53 | 7.58 | 7.45 | 7.55 | 7.65 | 7.52 | 7.49 | 7.44 | 7.55 | 7.50 | 7.59 | 7.55 | |
| Suspended solids mg/L | 1 | 2 | 3 | 1 | 2 | 1 | 1 | 2 | 2 | 3 | 4 | 2 | |
| Flow m 3/min | 0.70 | 0.70 | 0.83 | 0.77 | 0.77 | 0.83 | 0.83 | 0.83 | 0.77 | 0.83 | 0.83 | 0.83 | |
| Ammonia mg/L | 0.24 | 0.60 | 0.60 | 0.40 | 1.32 | 0.37 | 0.18 | 0.54 | 0.29 | 0.44 | 0.59 | 0.63 | |
| Copper mg/L | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | |
| Lead mg/L | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | <0.01 | <0.01 | <0.01 | |
| Zinc mg/L | <0.01 | 0.01 | 0.01 | 0.01 | <0.01 | <0.01 | <0.01 | 0.01 | 0.02 | <0.01 | 0.02 | 0.01 | |
| Cyanide mg/L | <0.01 | 0.05 | 0.03 | 0.02 | 0.04 | 0.08 | 0.09 | <0.01 | 0.02 | 0.09 | 0.01 | <0.01 | |
| Manganese mg/L | 2.46 | 2.77 | 2.98 | 3.19 | 3.22 | 3.14 | 3.53 | 3.82 | 4.10 | 4.32 | 4.30 | 4.22 | |
| Sodium mg/L | 63.0 | 62.0 | 63.0 | 63.0 | 60.0 | 62.5 | 61.0 | 65.0 | 62.0 | 65.0 | 64.5 | 67.0 | |
| Sulfate mg/L | 496 | 474 | 494 | 506 | 511 | 526 | 546 | 555 | 572 | 589 | 599 | 625 | |
| Temp °C | 5 | 3 | 4 | 3 | 2 | 4 | 4 | 3 | 2 | 3 | 3 | 3 | |
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# CURRAGH RESOURCES CORPORATION

## WATER ANALYSIS

| Sample Site 2 BC-X12 | Sample Period January - March 1987 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date D/M | 7/1 | 15/1 | 20/1 | 28/1 | 3/2 | 10/2 | 17/2 | 24/2 | 3/3 | 10/3 | 17/3 | 24/3 | |
| pH | 7.69 | 7.79 | 7.64 | 7.76 | 7.76 | 7.56 | 7.70 | 7.49 | 7.72 | 7.73 | 7.80 | 7.75 | |
| Suspended solids mg/L | 1 | 2 | 2 | 2 | 1 | 1 | 1 | 2 | 1 | 2 | 2 | <1 | |
| Flow m 3/min | 0.43 | 0.43 | 0.43 | 0.33 | 0.33 | 0.38 | 0.33 | 0.29 | 0.25 | 0.25 | 0.29 | 0.29 | |
| Ammonia mg/L | <0.01 | 0.37 | 0.22 | 0.46 | 0.15 | 0.14 | <0.01 | 0.25 | <0.01 | <0.01 | 0.09 | 0.34 | |
| Copper mg/L | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | |
| Lead mg/L | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.03 | <0.01 | <0.01 | <0.01 | |
| Zinc mg/L | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.02 | <0.01 | 0.01 | <0.01 | |
| Cyanide mg/L | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | |
| Manganese mg/L | 0.51 | 0.60 | 0.65 | 0.62 | 0.62 | 0.63 | 0.67 | 0.72 | 0.76 | 0.80 | 0.83 | 0.84 | |
| Sodium mg/L | 33.5 | 34.5 | 35.5 | 36.0 | 37.5 | 39.5 | 40.0 | 40.5 | 41.5 | 42.0 | 43.0 | 45.5 | |
| Sulfate mg/L | 281 | 293 | 322 | 339 | 357 | 375 | 394 | 415 | 427 | 449 | 463 | 481 | |
| Temp °C | 3 | 1 | 2 | 2 | 2 | 3 | 2 | 3 | 2 | 2 | 2 | 3 | |
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# CURRAGH RESOURCES CORPORATION

## WATER ANALYSIS

| Sample Site 2BC-X13 | Sample Period January - March 1987 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date D/M | 7/1 | 15/1 | 20/1 | 28/1 | 3/2 | 10/2 | 17/2 | 24/2 | 3/3 | 10/3 | 17/3 | 24/3 | |
| pH | 7.51 | 7.69 | 7.52 | 7.54 | 7.51 | 7.42 | 7.46 | 7.49 | 7.56 | 7.51 | 7.59 | 7.56 | |
| Suspended solids mg/L | 1 | 1 | 2 | 2 | 2 | 2 | 1 | 4 | 2 | 2 | 2 | 1 | |
| Flow m 3/min | 5.84 | 5.84 | 5.84 | 5.84 | 5.84 | 6.27 | 5.84 | 5.84 | 5.84 | 5.84 | 5.84 | 5.84 | |
| Ammonia mg/L | <0.01 | 0.47 | 0.20 | 0.37 | 0.30 | 0.19 | <0.01 | 0.33 | 0.05 | 0.26 | 0.57 | 0.69 | |
| Copper mg/L | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | |
| Lead mg/L | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.03 | <0.01 | <0.01 | <0.01 | |
| Zinc mg/L | 0.02 | 0.02 | 0.02 | 0.01 | 0.01 | <0.01 | 0.01 | 0.01 | 0.02 | <0.01 | 0.01 | <0.01 | |
| Cyanide mg/L | 0.02 | 0.03 | 0.02 | 0.04 | 0.04 | 0.02 | 0.02 | 0.05 | <0.01 | 0.09 | <0.01 | <0.01 | |
| Manganese mg/L | 2.42 | 2.66 | 2.76 | 2.90 | 2.96 | 2.81 | 3.12 | 3.32 | 3.30 | 3.53 | 3.58 | 3.63 | |
| Sodium mg/L | 55.0 | 58.0 | 59.0 | 60.0 | 57.5 | 59.5 | 58.0 | 61.0 | 60.5 | 61.0 | 63.0 | 64.0 | |
| Sulfate mg/L | 434 | 441 | 461 | 450 | 481 | 475 | 501 | 515 | 511 | 549 | 553 | 570 | |
| Temp °C | 5 | 2 | 3 | 3 | 2 | 3 | 3 | 3 | 1 | 2 | 3 | 4 | |
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Data intered in WR (DIAND) database.

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# CURRAGH RESOURCES CORPORATION

## WATER ANALYSIS

| Sample Site 2BC-X23 | Sample Period January - March 1987 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date D/M | 7/1 | 15/1 | 20/1 | 28/1 | 3/2 | 10/2 | 17/2 | 24/2 | 3/3 | 10/3 | 17/3 | 24/3 | |
| pH | 7.26 | 6.97 | 6.77 | 7.00 | 7.01 | 6.96 | 6.95 | 6.77 | 7.34 | 7.31 | 7.16 | 7.07 | |
| Suspended solids mg/L | 5 | 2 | 2 | 3 | 3 | 2 | 2 | 4 | 3 | 2 | 10 | 4 | |
| Flow $m^3$/min | | | | | | | | | | | | | |
| Ammonia mg/L | 0.25 | 0.77 | 0.56 | 0.56 | 0.55 | 0.56 | 5.56 | 1.76 | 0.58 | 3.23 | 1.47 | 4.26 | |
| Copper mg/L | 0.02 | 0.02 | 0.02 | 0.02 | 0.01 | <0.01 | <0.01 | 0.01 | 0.10 | <0.01 | <0.01 | <0.01 | |
| Lead mg/L | 0.03 | <0.01 | <0.01 | 0.02 | 0.01 | 0.01 | 0.02 | 0.02 | 0.02 | <0.01 | <0.01 | 0.03 | |
| Zinc mg/L | 37.5 | 31.3 | 31.0 | 26.5 | 22.1 | 29.6 | 12.0 | 14.0 | 13.8 | 10.3 | 16.6 | 8.50 | |
| Cyanide mg/L | 0.01 | <0.01 | 0.01 | <0.01 | <0.01 | <0.01 | 0.01 | 0.01 | <0.01 | 0.02 | 0.01 | <0.01 | |
| Manganese mg/L | 8.31 | 11.30 | 8.95 | 9.18 | 7.33 | 10.30 | 2.60 | 3.80 | 4.02 | 2.88 | 6.87 | 1.98 | |
| Sodium mg/L | 29.0 | 34.0 | 29.5 | 29.0 | 24.5 | 33.5 | 16.4 | 16.9 | 15.5 | 17.3 | 22.5 | 14.4 | |
| Sulfate mg/L | 1190 | 1250 | 1055 | 1115 | 1010 | 1145 | 547 | 641 | 644 | 522 | 837 | 415 | |
| Temp °C | 4 | 1 | 3 | 2 | 3 | 2 | 3 | 3 | 1 | 1 | 4 | 4 | |
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# CURRAGH RESOURCES CORPORATION

## WATER ANALYSIS

| Sample Site 2BC-X22 | Sample Period January - March 1987 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date D/M | 7/1 | 15/1 | 20/1 | 28/1 | 3/2 | 10/2 | 17/2 | 24/2 | 3/3 | 10/3 | 17/3 | 24/3 | |
| pH | 7.26 | 6.97 | | | 7.09 | 6.95 | 7.22 | | | 7.40 | | 7.21 | |
| Suspended solids mg/L | 4 | 5 | | | 16 | 22 | 25 | | | 13 | | 324 | |
| Flow m 3/min | 7.73 | 7.73 | 0 | 0 | 2.73 | 2.73 | 5.46 | 0 | 0 | 2.73 | 0 | 2.73 | |
| Ammonia mg/L | 0.18 | 0.29 | | | 1.65 | 1.33 | 4.97 | | | 6.26 | | 11.60 | |
| Copper mg/L | <0.01 | <0.01 | | | <0.01 | <0.01 | <0.01 | | | <0.01 | | <0.01 | |
| Lead mg/L | 0.03 | 0.02 | | | 0.04 | 0.05 | 0.08 | | | 0.23 | | 0.10 | |
| Zinc mg/L | 37.2 | 31.6 | | | 20.2 | 17.3 | 14.0 | | | 6.25 | | 1.28 | |
| Cyanide mg/L | 0.01 | <0.01 | | | <0.01 | <0.01 | <0.01 | | | 0.01 | | 0.05 | |
| Manganese mg/L | 2.86 | 2.49 | | | 1.68 | 1.99 | 1.63 | | | 0.67 | | 0.54 | |
| Sodium mg/L | 16.0 | 15.0 | | | 13.5 | 15.0 | 14.1 | | | 15.7 | | 22.3 | |
| Sulfate mg/L | 532 | 487 | | | 391 | 399 | 352 | | | 259 | | 279 | |
| Temp °C | 2 | 1 | | | 1 | 2 | 1 | | | 2 | | 4 | |
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# CURRAGH RESOURCES CORPORATION

## WATER ANALYSIS

| Sample Site 2BC-X4 | Sample Period January - March 1987 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date D/M | 7/1 | 15/1 | 20/1 | 28/1 | 3/2 | 10/2 | 17/2 | 24/2 | 3/3 | 10/3 | 17/3 | 24/3 | |
| pH | 8.27 | 8.15 | 8.06 | 8.30 | 8.56 | 8.38 | 8.32 | 7.93 | 7.97 | 8.35 | 8.61 | 8.67 | |
| Suspended solids mg/L | 4 | 4 | 4 | 2 | 2 | 3 | 5 | 5 | 2 | 2 | 1 | 9 | |
| Flow $m^3$/min | | | | | | | | | | | | | |
| Ammonia mg/L | 0.25 | 0.74 | 0.60 | 0.90 | 0.68 | 0.66 | 0.47 | 0.59 | 0.53 | 0.63 | 0.89 | 0.81 | |
| Copper mg/L | 0.01 | 0.02 | <0.01 | 0.01 | 0.05 | 0.03 | <0.01 | <0.01 | 0.01 | 0.06 | 0.14 | 0.12 | |
| Lead mg/L | 0.22 | <0.01 | 0.09 | 0.18 | 0.09 | 0.03 | 0.06 | 0.06 | 0.10 | 0.11 | 0.02 | 0.06 | |
| Zinc mg/L | 0.16 | 0.16 | 0.22 | 0.18 | 0.08 | 0.08 | 0.08 | 0.12 | 0.16 | 0.19 | 0.04 | 0.04 | |
| Cyanide mg/L | <0.01 | 0.03 | 0.02 | 0.01 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.02 | 0.02 | 0.25 | |
| Manganese mg/L | 0.78 | 0.97 | 1.06 | 1.13 | 0.81 | 0.65 | 0.80 | 1.01 | 1.06 | 1.08 | 0.67 | 0.34 | |
| Sodium mg/L | 70.0 | 70.0 | 71.0 | 70.0 | 74.0 | 80.0 | 79.0 | 82.0 | 77.5 | 89.0 | 87.0 | 99.0 | |
| Sulfate mg/L | 682 | 631 | 593 | 667 | 995 | 1010 | 906 | 823 | 738 | 789 | 914 | 1045 | |
| Temp °C | 3 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | |
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# CURRAGH RESOURCES CORPORATION

## WATER ANALYSIS

| Sample Site 2BC-X5 | Sample Period January - March 1987 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date D/M | 7/1 | 15/1 | 20/1 | 28/1 | 3/2 | 10/2 | 17/2 | 24/2 | 3/3 | 10/3 | 17/3 | 24/3 | |
| pH | 8.03 | 7.93 | 7.95 | 7.95 | 7.95 | 8.01 | 7.93 | 7.84 | 7.77 | 7.73 | 7.77 | 7.73 | |
| Suspended solids mg/L | <1 | <1 | 2 | 2 | <1 | 1 | <1 | 2 | 1 | 2 | 2 | 1 | |
| Flow $m^3$/min | | | | | | | | | | | | | |
| Ammonia mg/L | 0.86 | 0.76 | 0.55 | 0.67 | 0.38 | 0.45 | 0.26 | 0.60 | <0.01 | 0.51 | 0.55 | 0.80 | |
| Copper mg/L | 0.03 | 0.04 | 0.04 | 0.02 | 0.02 | 0.04 | 0.03 | 0.03 | 0.03 | 0.02 | 0.04 | 0.06 | |
| Lead mg/L | 0.06 | 0.06 | 0.07 | 0.04 | 0.05 | 0.04 | 0.04 | 0.04 | 0.07 | 0.05 | 0.05 | 0.05 | |
| Zinc mg/L | 0.11 | 0.10 | 0.12 | 0.10 | 0.09 | 0.09 | 0.09 | 0.09 | 0.10 | 0.11 | 0.10 | 0.09 | |
| Cyanide mg/L | <0.01 | 0.10 | 0.02 | 0.02 | <0.01 | <0.01 | 0.01 | <0.01 | <0.01 | 0.15 | 0.12 | 0.16 | |
| Manganese mg/L | 0.92 | 1.10 | 1.07 | 1.12 | 1.22 | 1.01 | 1.05 | 1.11 | 1.11 | 1.17 | 1.10 | 1.05 | |
| Sodium mg/L | 68.0 | 68.0 | 67.0 | 67.0 | 69.0 | 71.0 | 69.0 | 75.0 | 70.5 | 74.0 | 80.0 | 80.0 | |
| Sulfate mg/L | 628 | 629 | 634 | 624 | 659 | 728 | 758 | 779 | 770 | 767 | 778 | 823 | |
| Temp °C | 4 | 1 | 1 | 1 | 2 | 1 | 1 | 2 | 1 | 2 | 2 | 2 | |
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# CURRAGH RESOURCES CORPORATION

## WATER ANALYSIS

| Sample Site 2BC-X9 | Sample Period January - March 1987 | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Date D/M | 7/1 | 15/1 | 20/1 | 28/1 | 3/2 | 10/2 | 17/2 | 24/2 | 3/3 | 10/3 | 17/3 | 24/3 | |
| pH | 9.06 | 9.40 | 8.97 | 9.01 | 10.70 | 9.10 | 9.05 | 8.98 | 8.86 | 10.03 | 11.19 | 9.66 | |
| Suspended solids mg/L | 128,000 | 192,000 | 153,000 | 224,000 | 158,000 | 164,000 | 132,000 | 188,000 | 131,000 | 209,000 | 150,000 | 236,000 | |
| Flow m $^3$/min | 30.28 | 30.28 | 30.28 | 30.28 | 30.28 | 30.28 | 30.28 | 30.28 | 20.44 | 20.44 | 20.44 | 20.44 | |
| Ammonia mg/L | 0.32 | 0.89 | 0.41 | 0.71 | 1.26 | 0.52 | 0.61 | 0.65 | 0.45 | 0.94 | 0.85 | 1.40 | |
| Copper mg/L | <0.01 | 0.14 | 0.03 | 0.04 | 0.26 | 0.01 | 0.06 | 0.11 | 0.14 | 0.25 | 0.05 | 0.10 | |
| Lead mg/L | 0.12 | 0.06 | 0.44 | 0.59 | 0.21 | 0.04 | 0.08 | 0.11 | 0.08 | 0.07 | 0.52 | 0.06 | |
| Zinc mg/L | 0.03 | 0.09 | 0.12 | 0.43 | 0.07 | 0.03 | 0.03 | 0.06 | 0.03 | 0.04 | 0.18 | 0.03 | |
| Cyanide mg/L | <0.01 | 0.09 | 0.05 | 0.05 | <0.01 | <0.01 | 0.03 | 0.05 | <0.01 | 0.63 | 0.16 | 0.32 | |
| Manganese mg/L | 0.04 | 0.02 | 0.04 | 0.04 | <0.01 | 0.03 | 0.03 | 0.04 | 0.04 | <0.01 | <0.01 | <0.01 | |
| Sodium mg/L | 94.0 | 108.0 | 72.0 | 43.0 | 310.0 | 154.0 | 93.0 | 105.0 | 106.0 | 119.0 | 66.5 | 276.0 | |
| Sulfate mg/L | 153 | 142 | 135 | 1590 | 1850 | 325 | 212 | 226 | 190 | 1675 | 1560 | 550 | |
| Temp °C | 10 | 8 | 11 | 11 | 12 | 12 | 11 | 11 | 9 | 12 | 12 | 12 | |
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# CURRAGH RESOURCES CORPORATION

## WATER ANALYSIS

| Sample Site PW4 | Sample Period March 87 | | | | | | | | | | | | |
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| Date D/M | 10/3 | 17/3 | 24/3 | March Mean | | | | | | | | | |
| pH | 7.25 | 7.34 | 7.50 | 7.36 | | | | | | | | | |
| Suspended solids mg/L | 2 | 1 | <1 | 1 | | | | | | | | | |
| Flow m 3/min | 5.46 | 5.46 | 5.46 | 5.46 | | | | | | | | | |
| Ammonia mg/L | 0.19 | 0.09 | 0.37 | 0.22 | | | | | | | | | |
| Copper mg/L | <0.01 | <0.01 | <0.01 | <0.01 | | | | | | | | | |
| Lead mg/L | <0.01 | <0.01 | <0.01 | <0.01 | | | | | | | | | |
| Zinc mg/L | 1.67 | 1.92 | 1.16 | 1.58 | | | | | | | | | |
| Cyanide mg/L | <0.01 | <0.01 | <0.01 | <0.01 | | | | | | | | | |
| Manganese mg/L | 0.66 | 0.68 | 0.42 | 0.59 | | | | | | | | | |
| Sodium mg/L | 3.2 | 3.5 | 3.2 | 3.3 | | | | | | | | | |
| Sulfate mg/L | 45 | 44 | 33 | 41 | | | | | | | | | |
| Temp °C | 1 | 2 | 3 | 2 | | | | | | | | | |
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