

Case Study 1: Ragn Sells water

A stinking lake with chemical and other wastes in Sweden, was cleaned by Waterneer plant and following are the analysis reports for raw and treated water.

| Ragn Sells - Analysis Report | | | | | |
|------------------------------|-------|-------|---------|-------------|------------|
| | Units | IN | OUT | % Reduction | Sludge |
| Dry Substance | g/l | 2.3 | 2 | 13.04 | 7.20% |
| BOD | mg/l | 30 | 20 | 33.33 | 2000 mg/l |
| COD | mg/l | 700 | 410 | 41.43 | 44000 mg/l |
| Arsenic | mg/l | 0.011 | 0.0056 | 49.09 | 11 mg/kg |
| Cadmium | mg/l | 0.001 | 0.0001 | 90.00 | 1.8 mg/kg |
| Cobolt | mg/l | 0.01 | 0.0024 | 76.00 | 12 mg/kg |
| Cromium | mg/l | 0.045 | 0.0067 | 85.11 | 72 mg/kg |
| Copper | mg/l | 0.095 | 0.0011 | 98.84 | 210 mg/kg |
| Nickel | mg/l | 0.044 | 0.023 | 47.73 | 28 mg/kg |
| Lead | mg/l | 0.039 | 0.0005 | 98.72 | 50 mg/kg |
| Venedin | mg/l | 0.013 | 0.00085 | 93.46 | 23 mg/kg |
| Zink | mg/l | 0.26 | 0.0063 | 97.58 | 470 mg/kg |

Case Study 2: Dredger

Another water body cleaned with dredging process and Waterneer (same water body shown in the video on the website). Analysis report for raw and treated water.

| Analysis Report - Pollution sediments from dredger pump | | |
|---|----------|------|
| IN | | |
| As | mg/kg TS | 6.56 |
| Cd | mg/kg TS | 4.11 |
| Cv | mg/kg TS | 2020 |
| Hg | mg/kg TS | <0.5 |
| NI | mg/kg TS | 51.9 |
| Pb | mg/kg TS | 227 |
| Zn | mg/kg TS | 1080 |

| Remaining metals which comes out in Clean Water | | | | |
|---|--------|----------------|----------------|----------------|
| OUT | | | | |
| Element | Sample | AVI Small cape | AV2 Small cape | AV3 Small cape |
| Filltered | | JA | JA | JA |
| As | µg/l | 0.897 | 1.38 | 1 |
| Cd | µg/l | <0.002 | <0.002 | <0.002 |
| Co | µg/l | 2.14 | 2.14 | 2.08 |
| Cr | µg/l | 0.44 | 0.46 | 0.513 |
| Cu | µg/l | 0.608 | 0.609 | 0.765 |
| Hg | µg/l | <0.002 | <0.002 | <0.002 |
| Mo | µg/l | 2.33 | 2.52 | 2.86 |
| NI | µg/l | 5.61 | 6.02 | 5.71 |
| Pb | µg/l | 0.0428 | 0.0436 | 0.0435 |
| Zn | µg/l | 8.43 | 8.42 | 8.12 |
| V | µg/l | 0.144 | 0.159 | 0.156 |