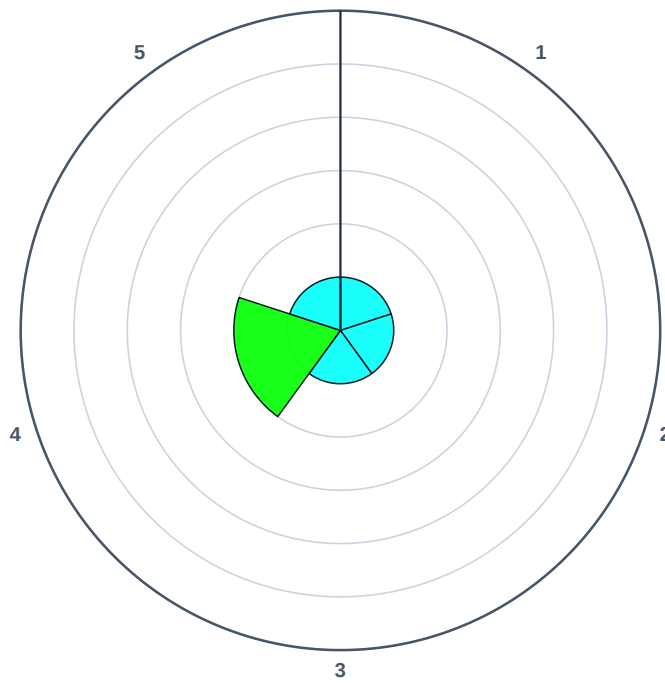


Ecotoxicology Analysis

After Remediation

Locality: Alcalá de Henares, Spain, Municipal WW
Method: Electro-Fenton + Bioreactor treatment
Bioremediation method: After Bioremediation
Sample type: water
Collection date: 2026-04-01 – 2026-04-04



Electro-Fenton + Bioreactor treatment

ORGANISMS

- 1 Daphnids
- 2 A. fischeri 15
- 3 A. fischeri 30
- 4 Lettuce aquatic
- 5 Algae

CATEGORIES

- A Non-toxic
- B Low toxicity
- C Medium toxicity
- D High toxicity
- E Very high toxicity
- F Extreme toxicity

Category Distribution (% of organism readings)

A: 80%

B: 20%

Resulting category: **B** Low toxicity

Test Organisms by Type

| | |
|------------|---------------------------------------|
| Consumers: | <i>Daphnids</i> |
| Producers: | <i>Lettuce aquatic, Algae</i> |
| Destruent: | <i>A. fischeri 15, A. fischeri 30</i> |

Most sensitive organism: Lettuce aquatic

Low toxicity — continued monitoring

Samples fall into category B. Inhibition in the undiluted sample is 20–50% and no test organism exceeded the threshold for a higher category.

- It is recommended to continue with routine monitoring without the need for intervention. The site is considered non-toxic.

Ecotoxicity Assessment Criteria

| CATEGORY | DESCRIPTION | CRITERIA (ACTIVE RULES) |
|----------|--------------------|--|
| A | Non-toxic | Undiluted sample: inhibition / stimulation -19.99% – 19.99% |
| B | Low toxicity | Undiluted sample: stimulation 20% – 50%, or Undiluted sample: inhibition 20% – 50% |
| C | Medium toxicity | Undiluted sample: stimulation 51% – 90%, or Undiluted sample: inhibition 51% – 90% |
| D | High toxicity | At 10% sample concentration: inhibition / stimulation -50.99% – 50.99%, or EC50 10% – 50% |
| E | Very high toxicity | At 10% sample concentration: inhibition 51% – 100%, or EC50 1% – 10% |
| F | Extreme toxicity | At 1% sample concentration: inhibition 10.01% – 100%, or EC50 0% – 0.99% |

Notes: A sample's category is the worst (most toxic) grade reached by any single test organism. Determination of EC50 takes precedence over the inhibition value. In a luminescence bacterial test, an undiluted sample corresponds to a sample concentration of 500 mL/L.

Chemical Risk Assessment

After Remediation

| | |
|-------------------------------|--|
| Locality: | Alcalá de Henares, Spain, Municipal WW |
| Method: | Electro-Fenton + Bioreactor treatment |
| Bioremediation method: | After Bioremediation |
| Sample type: | water |
| Collection date: | 2026-04-01 – 2026-04-04 |

No chemistry data recorded for this phase.