

Overall Evaluation

Alcalá de Henares / Municipal WW · Spain · Project: Nymphe

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OVERALL ASSESSMENT

Site OK — routine monitoring

Based on the latest sampling date: 1.4.2026 (After Remediation)

PHASE-BY-PHASE VERDICTS

Domain	Before Remediation	During Remediation	After Remediation	Trend
	8.3.2026 WATER	—	1.4.2026 WATER	
Ecotoxicology	D Daphnids	·	B Lettuce aquatic	Improving
Chemistry	— 0 high · 0 risk · 0 ok	·	·	—
Supportive methods <small>provisional</small>				Improving
Shannon index	3.23	·	3.32	
Simpson index	0.82	·	0.82	
Respiration	·	·	·	
Nitrification	Conf	·	Conf	

Each column is one sampling date; a cell shows the worst result recorded across that date's samples. A phase with no samples for the selected method shows as "—". Supportive methods are shown for reference and do not move the overall stance.

SUPPORTIVE METHODS

SAMPLE	TYPE	METHOD (PHASE)	DIVERSITY — SHANNON (H')	DIVERSITY — SIMPSON (1-D)	NITRIFICATION	RESPIRATION	CONFORMITY
Untreated Metfilter Effluent	Water	Before Remediation	3.23 expected: Low	0.82 expected: Low	8.4% Within ±20% Conforming		Conforming
Electro-Fenton + Bioreactor treatment	Water	After Remediation	3.32 expected: High	0.82 expected: High	-11.6% Within ±20% Conforming		Conforming

Biodiversity trend: Biodiversity rising across phases. Diversity (Shannon / Simpson) is read as a trend across phases (rising = recovery) and compared with the expected level per phase; respiration and nitrification are evaluated against their thresholds.

VISUAL OVERALL ASSESSMENT

Ecotoxicology

	Before Remediation	During Remediation	After Remediation
	8.3.2026 WATER	—	1.4.2026 WATER
A. fischeri 15	A	.	A
A. fischeri 30	A	.	A
Algae	A	.	A
Daphnids	D	.	A
Lettuce aquatic	B	.	B
Worst (per date)	D	.	B

Result: **Improving across phases**

Chemistry

	Before Remediation	During Remediation	After Remediation
	8.3.2026 WATER	—	1.4.2026 WATER
Others	—	.	.
Worst (per date)	—	.	.

Result: **Not enough phases to compare**

Supportive methods

	Before Remediation	During Remediation	After Remediation
	8.3.2026 WATER	—	1.4.2026 WATER
Shannon index	3.23	.	3.32
Simpson index	0.82	.	0.82
Respiration	.	.	.
Nitrification	Conf	.	Conf

Result: **Biodiversity rising across phases**

CONCLUSION

Based on the most recent data (After Remediation) for Alcalá de Henares – Municipal WW, the site is assessed as: Site OK — routine monitoring. Chemistry: no classified measurements available for this phase.

Ecotoxicology: dominant category is B (Low toxicity). The most sensitive organism is Lettuce aquatic. Across the recorded phases, ecotoxicity is improving across phases. Recommendation: the site is within acceptable limits — continue with routine monitoring to confirm the favourable condition remains stable. Biology / supportive methods (provisional): biodiversity rising across phases. These indicators are shown for reference and do not yet affect the overall stance.

Auto-generated draft. Supportive-method values are provisional and do not yet affect the overall stance.