

# Overall Evaluation

Ferrara / ER-site · Italy · Project: Nymphé

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## OVERALL ASSESSMENT

### Remediation recommended

Based on the latest sampling date: 7.8.2025 (After Remediation)

## PHASE-BY-PHASE VERDICTS

Domain	Before Remediation	During Remediation							After Remediation	Trend
	4.4.2023	19.12.2024	14.1.2025	20.2.2025	8.4.2025	6.5.2025	5.6.2025	8.7.2025	7.8.2025	
	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	WATER	
Ecotoxicology	<b>E</b> Daphnids	<b>D</b> A. fischeri	<b>D</b> A. fischeri	<b>E</b> A. fischeri	<b>E</b> A. fischeri	<b>D</b> A. fischeri	<b>D</b> A. fischeri	<b>E</b> Algae	<b>E</b> Algae	Stable
Chemistry	<b>High</b> 2 high · 0 risk · 1 ok	.	.	.	.	.	.	.	.	—
Supportive methods provisional										—
Shannon index	.	.	.	.	.	.	.	.	.	
Simpson index	.	.	.	.	.	.	.	.	.	
Respiration	.	.	.	.	.	.	.	.	.	
Nitrification	<b>Non-conf</b>	.	.	.	.	.	.	.	.	

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
VZ1	Water	Before Remediation	— expected: Low	— expected: Low	8.3% Within ±20% Conforming		Conforming
VZ2	Water	Before Remediation	— expected: Low	— expected: Low	58.1% Exceeds ±20% — significant effect on the nitrifying community Nonconforming		Nonconforming
VZ3	Water	Before Remediation	— expected: Low	— expected: Low	56.4% Exceeds ±20% — significant effect on the nitrifying community Nonconforming		Nonconforming

**Biodiversity trend:** Not enough phases to compare. 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
	4.4.2023 WATER	19.12.2024 WATER	14.1.2025 WATER	20.2.2025 WATER	8.4.2025 WATER	6.5.2025 WATER	5.6.2025 WATER	8.7.2025 WATER	7.8.2025 WATER
A. fischeri	.	D	D	E	E	D	D	D	D
A. fischeri 15	C	.	.	.	.	.	.	.	.
A. fischeri 30	C	.	.	.	.	.	.	.	.
Algae	D	D	D	E	D	D	D	E	E
Daphnids	E	D	D	E	D	D	D	D	D
Lettuce aquatic	D	C	C	A	A	C	C	C	C
<b>Worst (per date)</b>	E	D	D	E	E	D	D	E	E

Result: **Stable across phases**

### Chemistry

	Before Remediation	During Remediation							After Remediation
	4.4.2023 WATER	19.12.2024 WATER	14.1.2025 WATER	20.2.2025 WATER	8.4.2025 WATER	6.5.2025 WATER	5.6.2025 WATER	8.7.2025 WATER	7.8.2025 WATER
Heavy Metals	High	.	.	.	.	.	.	.	.
Industrial Chemical	High	.	.	.	.	.	.	.	.
Others	None	.	.	.	.	.	.	.	.
<b>Worst (per date)</b>	<b>High</b>	.	.	.	.	.	.	.	.

Result: **Not enough phases to compare**

### Supportive methods

	Before Remediation	During Remediation							After Remediation
	4.4.2023 WATER	19.12.2024 WATER	14.1.2025 WATER	20.2.2025 WATER	8.4.2025 WATER	6.5.2025 WATER	5.6.2025 WATER	8.7.2025 WATER	7.8.2025 WATER
Shannon index	.	.	.	.	.	.	.	.	.
Simpson index	.	.	.	.	.	.	.	.	.
Respiration	.	.	.	.	.	.	.	.	.
Nitrification	Non-conf	.	.	.	.	.	.	.	.

Result: **Not enough phases to compare**

## CONCLUSION

Based on the most recent data (After Remediation) for Ferrara – ER-site, the site is assessed as: Remediation recommended. Chemistry: no classified measurements available for this phase. Ecotoxicology: dominant category is E (Very high toxicity). The most sensitive organism is Algae. Across the recorded phases, ecotoxicity is stable across phases. Recommendation: the contamination level still warrants action — continue or adjust the remediation strategy, identify the main contaminant, and re-sample to confirm a downward trend. Biology / supportive methods (provisional): values recorded. 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.