Overall Evaluation

Ferrara / ER-site · Italy · Project: **Nymphe**

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OVERALL ASSESSMENT

Remediation recommended

Based on the latest sampling date: 29.10.2025 (During Remediation)

PHASE-BY-PHASE VERDICTS

Domain	Before Remediation 7.7.2023 SOIL	During Remediation 29.10.2025 SOIL	After Remediation —	Trend
Ecotoxicology	D A. fischeri 15	E Daphnids	·	Worsening
Chemistry	·	·	·	—
Supportive methods provisional				—
Shannon index	·	·	·	
Simpson index	·	·	·	
Respiration	·	Conf	·	
Nitrification	·	·	·	

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
ER soil + sand	Soil	During Remediation	— expected: Moderate or gradually increasing	— expected: Low to moderate		QR 0.16 Acceptable — QR ≤ 0.5 Conforming	Conforming
ER soil + organic fertilizer	Soil	During Remediation	— expected: Moderate or gradually increasing	— expected: Low to moderate		QR 0.14 Acceptable — QR ≤ 0.5 Conforming	Conforming

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
	7.7.2023 SOIL	29.10.2025 SOIL	—
A. fischeri 15	D	C	
A. fischeri 30	D	C	
A. fischeri kinetic 15		C	
A. fischeri kinetic 30		C	
Algae	C	A	
Daphnids	D	E	
Lettuce aquatic	B		
Lettuce terestric	D		
Lettuce terrestrial		B	
Worst (per date)	**D**	**E**	

Result: **Worsening across phases**

Supportive methods

	Before Remediation	During Remediation	After Remediation
	7.7.2023 SOIL	29.10.2025 SOIL	—
Shannon index			
Simpson index			
Respiration		Conf	
Nitrification			

Result: **Not enough phases to compare**

CONCLUSION

Based on the most recent data (During 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 Daphnids. Across the recorded phases, ecotoxicity is worsening 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.