Overall Evaluation

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

Generated 2026-07-02 17:59

OVERALL ASSESSMENT

Site OK — routine monitoring

Based on the latest sampling date: 25.7.2025 (After Remediation)

PHASE-BY-PHASE VERDICTS

	Before Remediation		During Remediation		After Remediation	
Domain	4.4.2023 WATER	7.7.2023 SOIL	18.7.2025 WATER	16.1.2026 SOIL	25.7.2025 WATER SOIL	**Trend**
Ecotoxicology	E Daphnids	D A. fischeri 15	A A. fischeri 15	C A. fischeri kinetic 15	B Lettuce terestic	Improving
Chemistry	High 2 high · 0 risk · 1 ok	·	·	·	·	—
Supportive methods provisional						—
Shannon index	·	·	·	·	·	
Simpson index	·	·	·	·	·	
Respiration	·	·	·	·	·	
Nitrification	Non-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
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	7.7.2023 SOIL	18.7.2025 WATER	16.1.2026 SOIL	25.7.2025 WATER SOIL
A. fischeri 15	C	D	A	B	A
A. fischeri 30	C	D	A	B	A
A. fischeri kinetic 15	·	·	·	C	A
A. fischeri kinetic 30	·	·	·	C	A
Algae	D	C	A	A	A
Daphnids	E	D	·	A	A
Lettuce aquatic	D	B	·	·	·
Lettuce terestic	·	·	·	C	B
Lettuce terestric	·	D	·	·	·
Worst (per date)	**E**	**D**	**A**	**C**	**B**

Result: **Improving across phases**

Chemistry

	Before Remediation		During Remediation		After Remediation	
	4.4.2023 WATER	7.7.2023 SOIL	18.7.2025 WATER	16.1.2026 SOIL	25.7.2025 WATER	SOIL
Heavy Metals	High	·	·	·	·	
Industrial Chemical	High	·	·	·	·	
Others	None	·	·	·	·	
Worst (per date)	**High**	·	·	·	·	

Result: **Not enough phases to compare**

Supportive methods

	Before Remediation		During Remediation		After Remediation	
	4.4.2023 WATER	7.7.2023 SOIL	18.7.2025 WATER	16.1.2026 SOIL	25.7.2025 WATER	SOIL
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: 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 terestic. 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): 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.