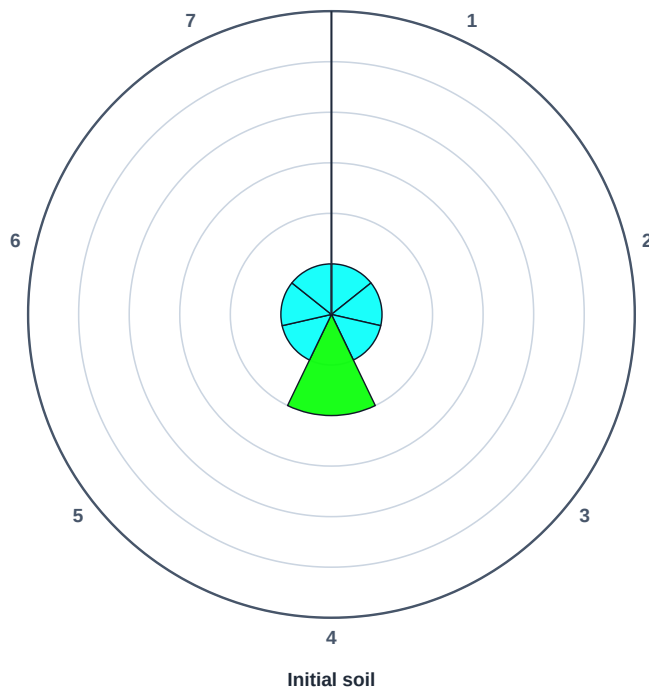


# Ecotoxicology Analysis

Before Remediation

**Locality:** Falassarna, Crete, Greece, Agricultural field  
**Bioremediation method:** Before Bioremediation  
**Sample type:** soil  
**Collection date:** 2023-05-04



## ORGANISMS

- 1 *A. fischeri* 15
- 2 *A. fischeri* 30
- 3 *Algae*
- 4 *Lettuce terestric*
- 5 *Daphnids*
- 6 *A. fischeri kinetic* 15
- 7 *A. fischeri kinetic* 30

## 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: 86%

B: 14%

Resulting category: **B** Low toxicity

## Test Organisms by Type

Consumers: *Daphnids*

Producers: *Algae, Lettuce terrestric*

Destruent: *A. fischeri 15, A. fischeri 30, A. fischeri kinetic 15, A. fischeri kinetic 30*

**Most sensitive organism:** Lettuce terrestric

### 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 track toxicity trends in the following steps.

## Ecotoxicity Assessment Criteria

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

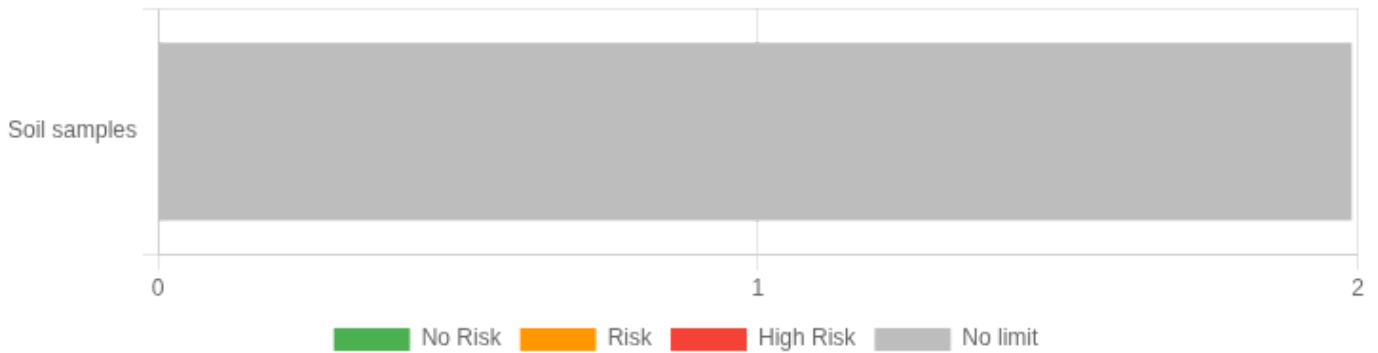
# Chemical Risk Assessment

Before Remediation

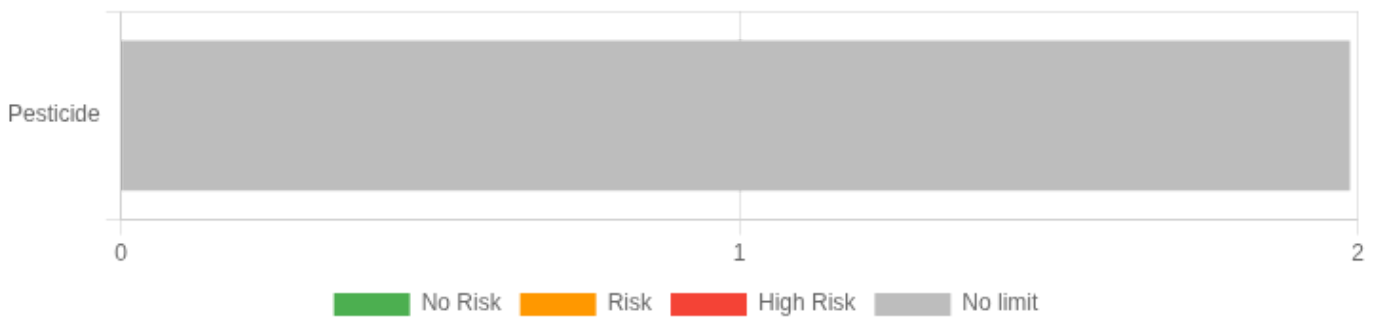
**Locality:** Falassarna, Crete, Greece, Agricultural field  
**Bioremediation method:** Before Bioremediation  
**Sample type:** soil  
**Collection date:** 2023-05-04

- No Risk — at/below limit   ■ Risk — over limit (up to 50%)   ■ High Risk — more than 50% over limit  
■ No limit — not defined

## Risk distribution by sample type



## Soil samples



No risk 0%   Risk 0%   High risk 0%   No limit 100%

CLASS	NUMBER	OVER LIMIT	SUM CONCENTRATION
Pesticide	2	0	0.014 mg/kg, 0.049

SAMPLE	COMPOUND / ELEMENT	CLASS	MEASURED	UNIT
Initial soil	Boscalid	Pesticide	0.014	mg/kg
Initial soil	Indoxacarb	Pesticide	0.049	—

