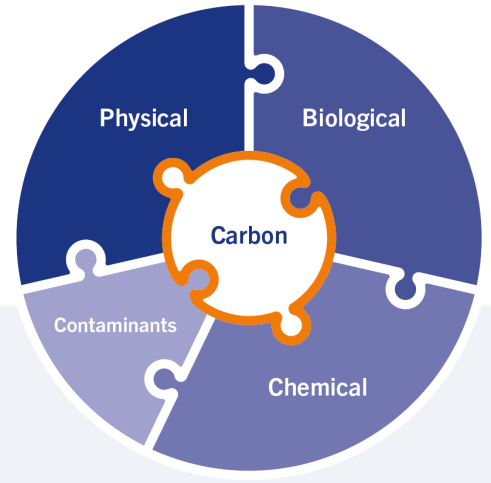


# Soil Carbon Check

Soil Carbon Check is part of Eurofins Soil Health Solutions. The healthier the soil, the better the contribution to Sustainable Development Goals.



## Name | Soil

Soil Carbon 4  
Sustainable Development  
GOALS

**Client code:** LT0000038  
**Date report:** 9/12/2022

**Date sampling:** 9/9/2022  
**Sample order number:** 528-2022-09090001

**Soil layer:** 0-30 cm  
**Density:** 1215 kg·m<sup>3</sup>

**Contact Eurofins:** See QR code  
**Geo reference of sampled field:** See QR code

## 1. How much carbon is captured in my soil?

### Soil organic carbon (SOC)

this equals

### Carbon dioxide (CO<sub>2</sub>)

## 2. How stable is my soil carbon?

Soil organic matter (SOM)

Carbon percentage in soil organic matter

Soil organic carbon (SOC)

Soil inorganic carbon (SIC)

Total carbon (TC)

Active carbon

Active carbon percentage of SOC

C/N ratio

C/S ratio

Clay

Clay/SOC ratio

1.60 %

214034

3.10 %

52 %

1.60 %

0.10 %

1.70 %

359 mg per kg

2.2 %

10/1

62/1

10 %

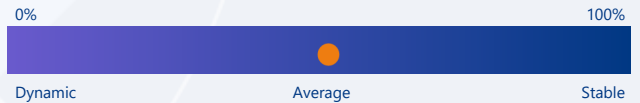
6/1

Kg per hectare

58320

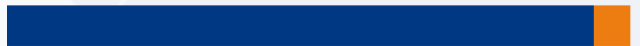
214034

112995



Soil organic carbon (%)

Soil inorganic carbon (%)



Total carbon

Other soil organic carbon

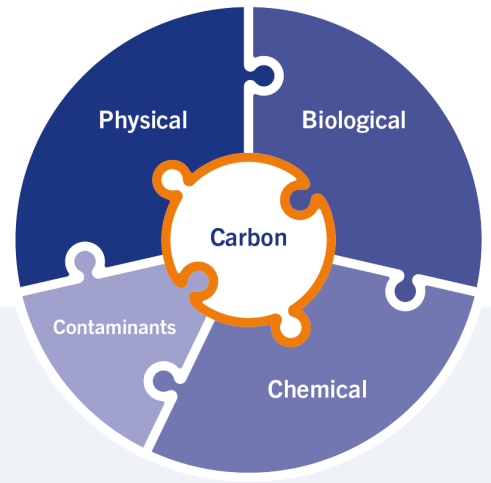
Active soil organic carbon



Soil organic carbon

# Towards 4‰ soil carbon increase

If the amount of carbon stored by soils increases by 4 per 1000 (so 0.4% or 4‰) per year, the annual increase of carbon dioxide (CO<sub>2</sub>) in the atmosphere would be significantly reduced. This will slow down the greenhouse effect and prevent further climate change, as agreed in (among others) the Paris climate agreement (COP 21).



## 3. How can I improve soil carbon by 4 per 1000?

### Soil Organic Carbon Balance



Current soil carbon status:	<b>58320</b> kg C per hectare	= 214	ton CO <sub>2</sub> per hectare
Output: expected breakdown (mineralisation)	<b>1750</b> kg C per hectare	= 6.4	ton CO <sub>2</sub> per hectare
Input: needed to maintain soil organic carbon status	<b>1750</b> kg C per hectare	= 6.4	ton CO <sub>2</sub> per hectare
Input: additional input needed to improve by 4 per 1000	<b>233</b> kg C per hectare	= 0.9	ton CO <sub>2</sub> per hectare
<b>Total required carbon input</b>	<b>1983</b> kg C per hectare	= 7.3	ton CO <sub>2</sub> per hectare

Scan QR-code or follow hyperlink (email) to optimise your personal carbon management

## 4. How is my soil carbon content developing over time?

### Soil organic carbon, %



In the last 4 years there is no (significant) increase in soil organic carbon %.

