

1 Project: BCCB-6-00002-AGRI/Carbonate carbon farming project - South Bulgaria - CSBG-RO-5										2 Project code: CSBG-RO-5										3 Project start date (dd/mm/yyyy): 17.12.2023									
4 Project Monitoring period beginning (dd/mm/yyyy): 23.3.2024										5 Project Monitoring period end (dd/mm/yyyy): 15.5.2025										6 Farm beginning soil sampling date for reporting period (dd/mm/yyyy): 11.1.2024 BASE									
7 Farm soil sampling end date for reporting period (dd/mm/yyyy): 16.12.2024 K1										8 Farm contract date (dd/mm/yyyy): 8.12.2023										9 Farmer (Legal Entity): ZPKU MUGLEN									
10 UIC: B2208986										11 Gross amount of removed GHG emissions carbon dioxide (CO2) (note 4)										12 Uncertainty deduction (±50.70 % of Gross amount of removed GHG emissions carbon dioxide (CO2)) (note 4)									
13 N2O emissions from mineral fertilizers (t CO2 eq)										14 Total fuel consumption (CO2 equivalent) (note 4)										15 Emissions from leakage (t CO2 eq)									
16 Adjustments to reduce removals from GHG (t CO2 eq)										17 Net amount of GHG removed carbon dioxide (t CO2 eq)										18 Buffer contribution amount (% of credits): 1.419									
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71	8.12.2023	CSRG-SASE-23/28-AGRI-0011	0000000122	49477	27.35032827	42.71176831	Яблоня кислая 49477-375-5-1,6-1,7-1,8-1	025126839751	30-60	11-00	Cherries	12.1.2024	14.1.2024	10a-49-5	11550	11,00	Cherries	15.12.2024	16.12.2024	10a-116-5	1,42	46.860,00	15715	0,004	195,17	278	1 021	0,1570	1,7270	5,9063	1 015	025126839751	11
72	8.12.2023	CSRG-SASE-23/28-AGRI-0011	0000000122	49477	27.35032827	42.71176831	Яблоня кислая 49477-375-5-1,6-1,7-1,8-1	025126839751	60-90	11-00	Cherries	12.1.2024	14.1.2024	10a-49-6	1050	11,00	Cherries	15.12.2024	16.12.2024	10a-116-6	1,37	45.240,00	1486	0,000	144,26							025126839751	11
73	8.12.2023	CSRG-SASE-23/28-AGRI-0011	0000000122	49477	27.37470119	42.70646301	Кры. Ябл. 49477-454-3-1,4-1	026126839751	0-30	11-02	Cherries	11.1.2024	14.1.2024	10a-49-1	14710	11,02	Cherries	16.12.2024	16.12.2024	10a-116-7	1,31	43.398,60	15531	0,001	49,95							026126839751	11
74	8.12.2023	CSRG-SASE-23/28-AGRI-0011	0000000122	49477	27.37470119	42.70646301	Кры. Ябл. 49477-454-3-1,4-1	026126839751	30-60	11-02	Cherries	11.1.2024	14.1.2024	10a-49-2	11120	11,02	Cherries	16.12.2024	16.12.2024	10a-116-8	1,42	46.945,20	14552	0,001	67,23							026126839751	11
75	8.12.2023	CSRG-SASE-23/28-AGRI-0011	0000000122	49477	27.37470119	42.70646301	Кры. Ябл. 49477-454-3-1,4-1	026126839751	60-90	11-02	Cherries	11.1.2024	14.1.2024	10a-49-3	1620	11,02	Cherries	16.12.2024	16.12.2024	10a-116-9	1,37	45.292,20	15951	0,001	62,81	180	660	0,1570	1,7301	5,9171	654	026126839751	11
76	8.12.2023	CSRG-SASE-23/28-AGRI-0011	0000000122	80813	27.42124877	42.75076025	Ябл.на кислая 80813-106-1-1,2-1,3-1	027126839751	0-30	6-12	Apricots	13.1.2024	14.1.2024	10a-49-7	10500	6,12	Apricots	14.12.2024	16.12.2024	10a-116-1	1,38	25.136,80	7385	-0,003	-78,85							027126839751	11
77	8.12.2023	CSRG-SASE-23/28-AGRI-0011	0000000122	80813	27.42124877	42.75076025	Ябл.на кислая 80813-106-1-1,2-1,3-1	027126839751	30-60	6-12	Apricots	13.1.2024	14.1.2024	10a-49-8	8130	6,12	Apricots	14.12.2024	16.12.2024	10a-116-2	1,31	24.618,80	1172	-0,004	-101,41	-269	987	0,1570	0,9608	3,2361	991	027126839751	11
78	8.12.2023	CSRG-SASE-23/28-AGRI-0011	0000000122	80813	27.42124877	42.75076025	Ябл.на кислая 80813-106-1-1,2-1,3-1	027126839751	60-90	6-12	Apricots	13.1.2024	14.1.2024	10a-49-9	4820	6,12	Apricots	14.12.2024	16.12.2024	10a-116-3	1,36	24.969,60	1251	-0,004	-89,02							027126839751	11

Note:

⁽¹⁾ In case of area reduction, calculations are made on the basis of current hectares.

⁽²⁾ The volumetric density is examined once, during the first control year, and is used for calculation until the end of the monitoring period.

⁽³⁾ Clarification

1st CONTROL YEAR () BASE YEAR apply to all cell

⁽⁴⁾ 1.1. removed carbon dioxide (CO2) from the atmosphere (a=1) 3.667 t. removed carbon dioxide (CO2) from the atmosphere in the soil (a=1) 3.667 carbon credits. (See Methodology).

⁽⁵⁾ Average fuel consumption (ton/ha) is calculated according to the "METHODS" of the NCMP.

⁽⁶⁾ 1l of diesel is equal to 36 MJ (Ordinance No. N-18 of August 8, 2016). 1MJ is equivalent to 95.1 g CO2 (Methodology for determining the intensity of greenhouse gas emissions from the entire life cycle of fuels and energy of non-biological origin in transport). Therefore 36 * 95.1 / 1000 = 3.42 (See Methodology).

⁽⁷⁾ 1.1. removed carbon dioxide (CO2) from the atmosphere (a=1) 0.27248 t. removed carbon dioxide (CO2) from the atmosphere in the soil (a=1) 1 carbon credit. (See Methodology).

⁽⁸⁾ equal to ISACC2 ID B1738; B1748

⁽⁹⁾ Source of uncertainty = 20.7 %

1. Sampling 15 % Sampling uncertainty is estimated using the RANOVA 3 approach based on Analysis of Variance (ANOVA). The total variability is partitioned into between sample and within-sample variance components. The between-sample variance represents the sampling effect, which is then used to quantify the sampling uncertainty as a

2. Organic carbon analysis 8.4 % and 3. Bulk density analysis 10.3 %

Uncertainty for organic carbon and bulk density is estimated by combining precision, recovery, and bias components. The mean (average) and standard deviation are first calculated to describe repeatability. Relative standard uncertainty, u_v(%) (%), is derived from the standard deviation.

Recovery (yield, %) is used to assess method performance, and bias (%) is calculated as the deviation from the reference value. The standard uncertainty of bias (5 bias) is determined from replicate measurements.

The combined bias uncertainty is then calculated as:

$U_{bias} = \sqrt{U_{bias}^2 + U_{bias}^2 + U_{bias}^2}$

where U_{bias} represents the uncertainty of the reference or certified material.

Finally, the combined standard uncertainty (U) is expanded using a coverage factor k = 2 to obtain the expanded uncertainty, corresponding to approximately 95% confidence.

4. Software (Google Earth) 5 % Google Earth does not provide a formally specified measurement uncertainty. Published studies indicate positional accuracy on the order of tens of meters (e.g., ~50 m RMSE globally). Therefore, uncertainty associated with spatial measurements is estimated based on literature values and the scale of the measured features.

	Name	Code	Date
Prepared:	D. KIROVA	D0722CS	15.4.2025
Checked:	K. SEMERLOZHEVA	K50223CS	15.4.2025
Edited:	K. SEMERLOZHEVA	K50223CS	7.5.2026
Edited:	K. SEMERLOZHEVA	K50223CS	20.6.2026
Checked:	L. ALEXANDROVA	L40424CS	20.6.2026