



Eden Research Laboratory

To: Cocona

Date: October 27, 2020

From: Thomas Poth

Number of pages including cover: 1

Regarding: ASTM D5511 study for Cocona Sample (2075) - 642 days

Up -

2412 Princeton NE, Suite E
 Albuquerque, NM 87107
 T 505.508.3994
 M 505.550.9316

thomas.poth@edenresearchlab.com

	Inculum	Negative	Positive	Palmetto 1.5-PS3252 SD (With 37.5 Plus Biosphere additive)-1% Loading level of Biosphere
Cumulative Gas Volume (mL)	1849.4	1934.2	9792.9	16744.7
Percent CH ₄ (%)	49.6	46.7	41.0	50.8
Volume CH ₄ (mL)	916.8	903.1	4011.1	8511.9
Mass CH ₄ (g)	0.65	0.65	2.87	6.08
Percent CO ₂ (%)	37.6	37.9	41.8	36.1
Volume CO ₂ (mL)	694.9	732.7	4091.9	6050.4
Mass CO ₂ (g)	1.36	1.44	8.04	11.88
Sample Mass (g)	10	10	10	15
Theoretical Sample Mass (g)	0.0	8.6	4.2	9.3
Biodegraded Mass (g)	0.86	0.88	4.34	7.80
Percent Biodegraded (%)		0.2	82.4	74.4
* Adjusted Percent Biodegraded (%)		0.2	100.0	90.2

* Outside of the ASTM D5511 method and on the assumption that the positive control (Cellulose) will fully biodegrade, all value have been proportionally adjusted.

Biodegradation

