

Eden Research Laboratory

To: BioAqua Life

Date: January 2, 2026

From: Thomas Poth

Number of pages including cover: 2

Regarding: ASTM D5511 study update for samples - 906 days

Update

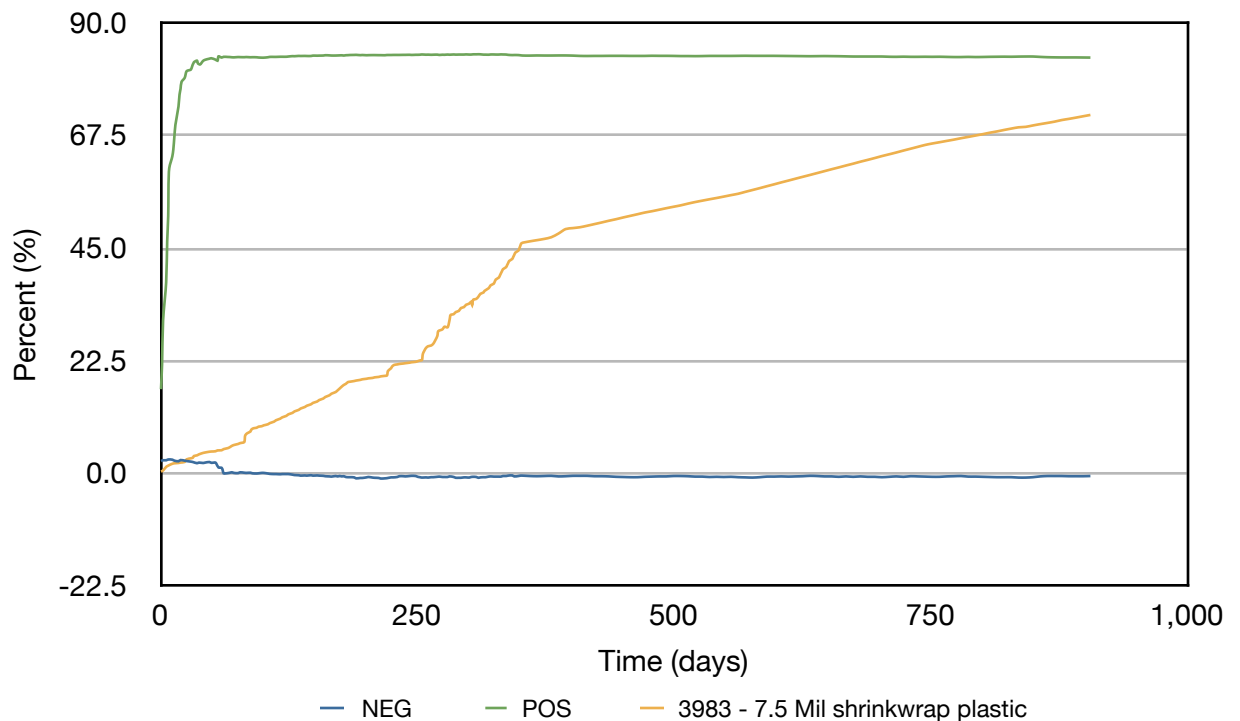
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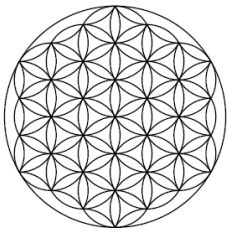
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	Inoculum	Negative	Positive	3983 - 7.5 Mil shrinkwrap plastic
Cumulative Gas Volume (mL)	2787.2	2804.1	11278.3	25296.0
Percent CH ₄ (%)	45.4	44.7	32.4	53.2
Volume CH ₄ (mL)	1264.2	1252.4	3649.9	13445.4
Mass CH ₄ (g)	0.90	0.89	2.61	9.60
Percent CO ₂ (%)	39.5	37.3	46.7	35.6
Volume CO ₂ (mL)	1101.7	1045.1	5265.3	8993.6
Mass CO ₂ (g)	2.16	2.05	10.34	17.67
Sample Mass (g)	10	10	10	20.0
Theoretical Sample Mass (g)	0.0	8.6	4.2	15.0
Biodegraded Mass (g)	1.27	1.23	4.78	12.02
Percent Biodegraded (%)		-0.4	83.1	71.7
* Adjusted Percent Biodegraded (%)		-0.5	100.0	86.2

* 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





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