

Potential Biogas Generation

Manure Production per 500kg

30 kg

SAMPLES	Sample weight (g)	Ash weight (g)	Volatile Solids weight (g)	VS in manure (kg)	VS conversion (50%)	Biogas per VS (m3/kgVS)	Biogas (m3)	Average Biogas (m3)
1. Scrapelot Sample								
SCT#1	1.576	1.0215	0.5545	10.55520305	5.277601523	0.22	1.161072	1.115105999
SCT#2	1.7916	1.1841	0.6075	10.17247153	5.086235767	0.22	1.118972	
SCT#3	1.7422	1.1798	0.5624	9.684307198	4.842153599	0.22	1.065274	
2. Pre-settling basin sample								
PRESTT#1	1.0011	0.3935	0.6076	18.20797123	9.103985616	0.22	2.002877	1.890415398
PRESTT#2	1.0588	0.4783	0.5805	16.44786551	8.223932754	0.22	1.809265	
PRESTT#3	0.8238	0.3597	0.4641	16.90094683	8.450473416	0.22	1.859104	
3. Post-settling basin sample								
POSTSTT#1	0.692	0.2468	0.4452	19.30057803	9.650289017	0.22	2.123064	2.088697518
POSTSTT#2	0.9385	0.3535	0.585	18.70005328	9.350026638	0.22	2.057006	
POSTSTT#3	1.0732	0.3948	0.6784	18.96384644	9.48192322	0.22	2.086023	
4. Drylot sample								
DRY#1	2.8705	1.6695	1.201	12.55182024	6.27591012	0.22	1.3807	1.047700539
DRY#2	2.5671	1.8715	0.6956	8.129017179	4.064508589	0.22	0.894192	
DRY#3	2.7093	1.9965	0.7128	7.892813642	3.946406821	0.22	0.86821	
5. Drylot fresh manure sample								
DFM#1	1.0126	0.2005	0.8121	24.05984594	12.02992297	0.22	2.646583	2.674918758
DFM#2	1.1707	0.2117	0.959	24.57504057	12.28752029	0.22	2.703254	
DFM#3	0	0	0	0	0	0.22	0	
6. Compost sample								
COMPOST#1	3.0199	2.4258	0.5941	5.901851055	2.950925527	0.22	0.649204	0.682069314
COMPOST#2	3.6391	2.8507	0.7884	6.499409195	3.249704597	0.22	0.714935	
COMPOST#3	0	0	0	0	0	0.22	0	