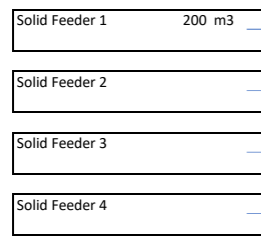


STL2 Whitwick Manor Farm

Process Flow Diagram



Feedstocks	
Poultry Manure	274 T/d
Apple Pomace	44 T/d
Digestate	96 T/d
Liquid Waste	68.5 T/d
Water	0 T/d
Recirculate	328.8 T/d
Total	811.3 T/d
	33.804167 T/h
Feedstocks	
Feedstocks	482.5 T/d
Water/recirc	328.8 T/d

Rainwater captured and used as part of recirculation

Poultry Manure	100,010 T/yr
Apple Pomace	16,060 T/yr
Digestate	35,040 T/yr
Liquid Waste	25,003 T/yr

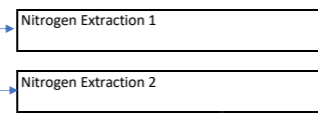
Min Residence Time at 70 DegC
60 min
throughput 811 T/d
1 batch per day approx
Hydrolysis / Past Liquid inputs 3000 m3

Digestate 96 T/d
Liquid Waste 68.5 T/d
Water 0 T/d
Recirculate 329 T/d

Total input to plant 493 T/d

Water/liquid store 6250 m3

Recirculation 329 T/d

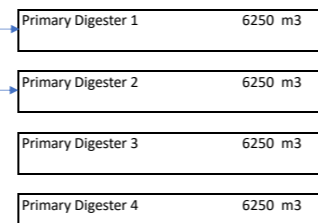


Approx Extraction 55% %

Ammonium Sulphate 32% 4838 m3/y

Ammonium Sulphate Store 6250 m3

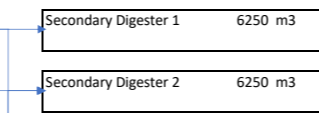
Output Am. Sulphate Soln. 16 T/d



Residence Time 38 d

Primary 25000 m3

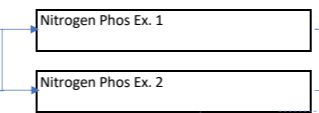
Ammonium Sulphate 32% 1088 m3/y



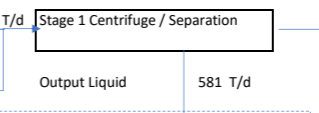
Residence Time 21 d

Secondary 12500 m3

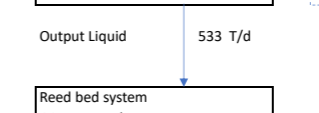
Total 40500 m3



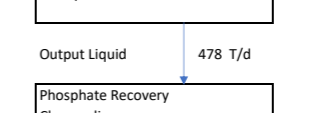
Approx Extraction 55% N 50% P



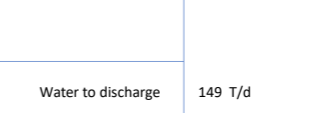
Output Liquid 581 T/d



Output Liquid 533 T/d

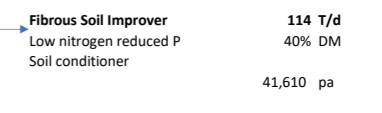


Output Liquid 478 T/d

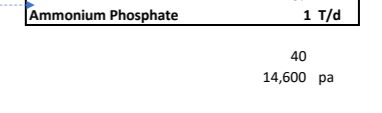


Output Liquid 478 T/d

Water to discharge 149 T/d



114 T/d 40% DM 41,610 pa



39 T/d 25% DM 1 T/d

40 14,600 pa

Available Phosphate Adsorbed in clay pellets 138.758 kg P2O5/d