Management and Treatment of Grease Trap Wastes (pt 2)

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Disposal Methods

- Liquid injection of processed grease trap wastes as a beneficial reuse for agricultural soil enhancement
- Dehydrated and then blended with food and garden organics in compost processing
- Treatment using probiotics at a dedicated aqueous waste treatment facility





















Trade Waste Agreement (extract)-Conditions for Discharge to Sewer

- Max BOD concentration shall not exceed 4000 mg/l at any one time and the quarterly average concentration shall not exceed 2000 mg/l
- The max COD concentration shall not exceed the BOD₅ concentration by more than 3 times
- Max suspended solids concentration shall not exceed 600 mg/l
- Total oil and grease concentration shall not exceed 100 mg/l
- Representative samples of the 1st, 5th and 10th batches shall be analysed and reported quarterly

Results

	Pre- Treatment Tank 1	2 days Treatment tank 3	3 days Treatment tank 3	% Reduction	7 days settling	% Reduction
BOD5	49000	4000	780	98.4%	71	99.9%
COD	41820	1937	1845	95.6%	730	98.2%
0 & G	21600	0	30	99.0%	3	99.9%
TSS	27450	1938	520	98.0%	88	99.6%



BOD5





Probiotics

- Is a natural process adapting anaerobic and aerobic bacterias
- Delivers effective odour management
- Provides a reduction in nitrogen and phosphorous to support environmental flows
- Reduction in BOD, COD, TTS, Oil & Grease for trade waste discharges to sewer
- Improves quality for use as make up water in composting by removing phosphorus and hydrocarbons
- Offers opportunities for supplementary businesses at waste management facilities