

AQUA TUTA™ Patented Technology

Sample inlet chamber V=2,2 I

Post treatment

"filter"



Convection reactor

By product collection chamber



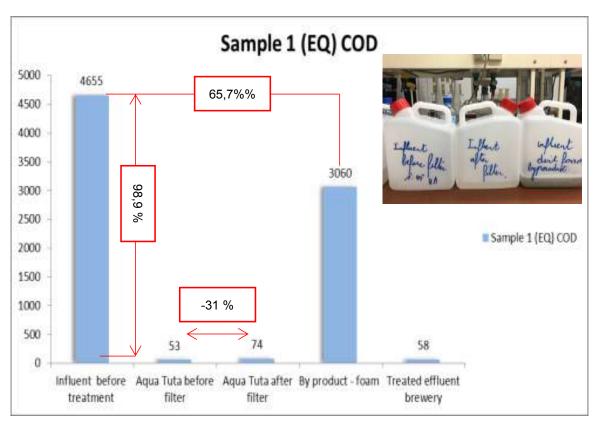
Test set

Summary:

- Test equipment: Demo unit patented AQUA TUTA™ convection reactor
- Technology details not possible to reveal at this stage (patent process)
- Processed samples:
 - Sample 1: after EQ tank (no biological treatment)
 - Sample 2: after UASB (anaerobic treatment)
- · Results analyzed:
 - Sample 1: COD,TSS, TN, TP after main reactor, after post treatment, by product
 - Sample 2: COD,TSS, TN, TP after main reactor, after post treatment, by product



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Sample 1 Results COD mg/l

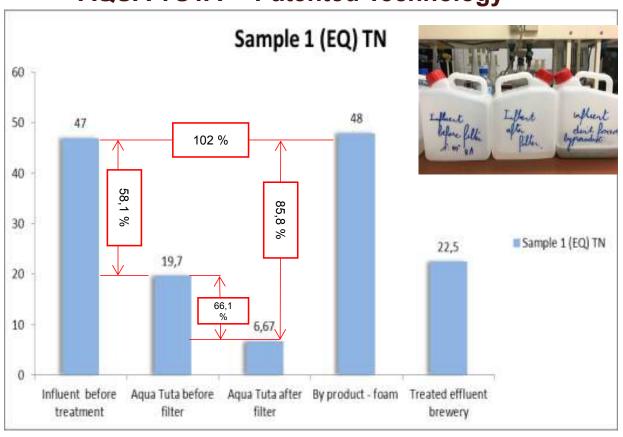
Summary:

Positive: Test demonstrated good results in COD reduction in terms of concentration

- COD reduced from 4 655 to 53 mg/l after conversion rector or 98,9%
- Result comparable to the full biological treatment (BTS results of the final effluent 58 mg/l
- 65,7 % or 3 060 mg/l end up in by product



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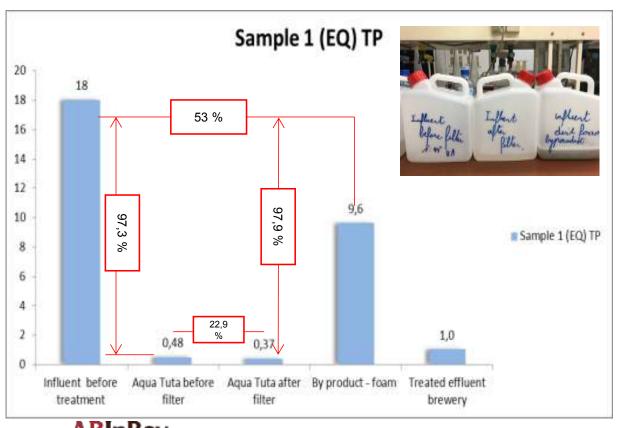
Sample 1 Results TN mg/l

Summary:

Positive: Test demonstrated good results in TN reduction in terms of concentration

- TN reduced from 47to 6,67 mg/l outlet demo unit or 85,8 %
- Convection reactor decreases from 47 to 19,7 mg/l or 58 % further decrease observed in the post treatment unit from 19,7 to 6,67 mg/l 29 % (or 66,1 compared to post treatment inlet)
- Result better compared to the daily result of the BTS to the full biological treatment (BTS results of the final effluent 22,5 % mg/l
- 102 % or 48 mg/l concentration in by product

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Sample 1 Results TP mg/l

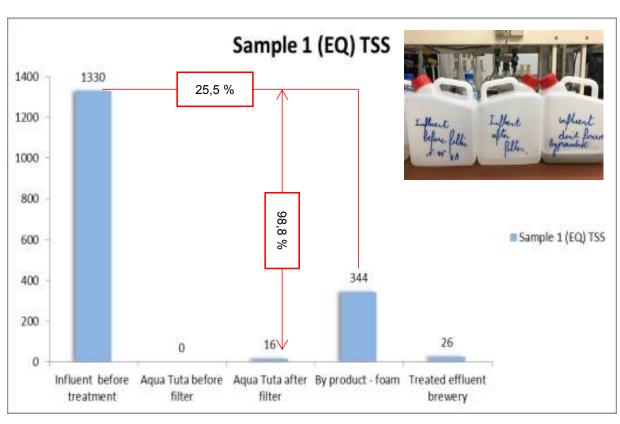
Summary:

Positive: Test demonstrated good results in TP reduction in terms of concentration

- TP reduced from 18 to 0,37 mg/l outlet demo unit or 97,9 %
- Convection reactor decreases from 18 to 0,48 mg/l or 97,3 % further decrease observed in the post treatment unit from 0,48 to 0,37 mg/l 0,6 % (or 22,3 % compared to post treatment inlet)
- Result better compared to the daily result of the BTS (BTS results of the final effluent 1 mg/l)
- 53 % or 9,6 mg/l concentration in by product



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Sample 1 Results TSS mg/l

Summary:

Positive: Test demonstrated good results in TSS reduction in terms of concentration

- TP reduced from 1 330 to 16 mg/l outlet demo unit or 98,8 %
- Convection reactor sample volume insufficient to perform analysis
- Over all result better compared to the daily result of the BTS (BTS results of the final effluent 26 mg/l)
- 25,5 % or 344 mg/l concentration in by product



