SGTech
Sustainable Green Technologies

CASE STUDY #1

Milking Parlor (Milking Shed) ~2m3/d Wastewater Treatment Prototype

Location	Israel
Built	Aug 2016
Type	Dairy farm
Cows	350 heads
Flow	~2 m3/d (~530 gal/d).
DM	3-4 % §
Technology	AD-BNR

§ Mixing of milking parlor slurry (~1%DS) and holding area manure (~15%DS)

Sustainable **G**reen **Tech**nologies (**SGTech**) is a multi-disciplinary R&D CleanTech & Renewable Energy company, specializing in Nutrient Recovery, Biogas solutions and Water Recycling for Livestock. SGTech developed a game-changing **chemical-free** economical feasible waste treatment producing treated water at quality for discharge into the sewage.

The technology was successfully tested in a prototype in an Israeli dairy farm for ~2m3/d (~530 gal/d) of a 1-2% DM waste. Table 1 & Figure 1 summarizes the system performance. Figure 2 illustrates the treated water qualities.

FIGURE 2: Treated water qualities

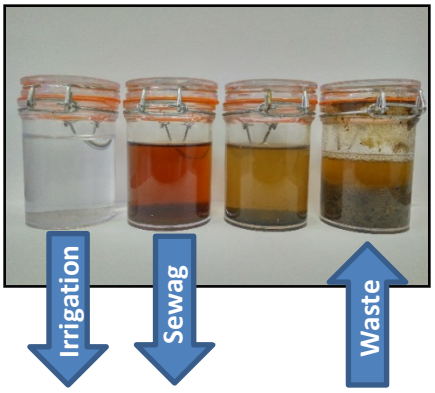
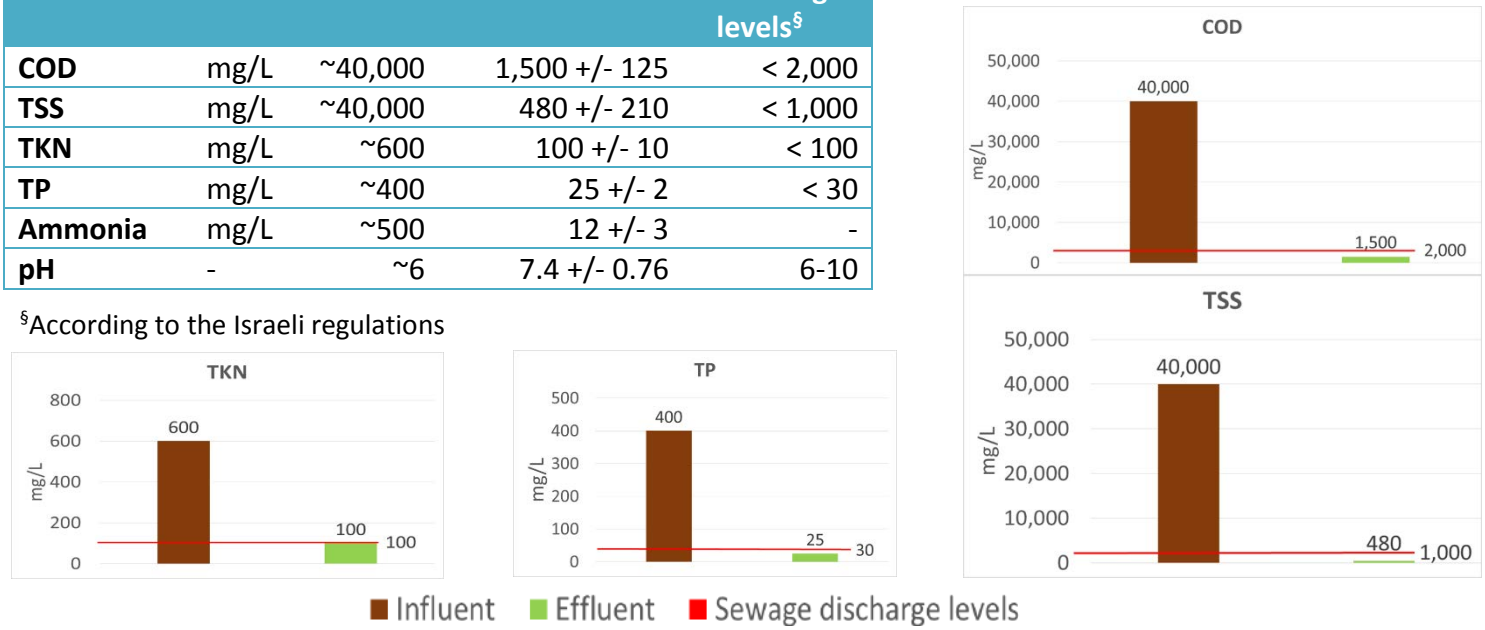


TABLE 1: System performance

Parameter	Units	Influent	Effluent	Sewage discharge levels§
COD	mg/L	~40,000	1,500 +/- 125	< 2,000
TSS	mg/L	~40,000	480 +/- 210	< 1,000
TKN	mg/L	~600	100 +/- 10	< 100
TP	mg/L	~400	25 +/- 2	< 30
Ammonia	mg/L	~500	12 +/- 3	-
pH	-	~6	7.4 +/- 0.76	6-10

§According to the Israeli regulations

FIGURE 1: System performance



P.O.Box 8641 Netanya, Israel T + 972 9 7730740 @ info@sgtech.co.il www.sgtech.co.il