BUSSE WEST

WATER ON DEMAND

THE BUSSE SMALL SCALE, ONSITE WASTEWATER TREATMENT SYSTEMS HAVE BEEN AVAILABLE FOR OVER 42 YEARS, IN 34 COUNTRIES WITH THOUSANDS OF SYSTEMS OPERATING SUCCESSFULLY.

RALF BUSSE PIONEERED THE USE OF MEMBRANE BIOREACTOR FILTRATION AND HAS CONTINUED TO REFINE THE TECHNOLOGY. THE BUSSE GT SYSTEM TREATS INBOUND EFFLUENT TO CLASS A WATER STANDARDS.

THE NEWEST TECHNOLOGY THAT HAS BEEN IN TESTING FOR ALMOST TWO YEARS EXTENDS THE TREATMENT TO INCLUDE A MICRO ULTRAFILTRATION PROCESS. IN THE TREATMENT PROCESS A PORTION OF THE CLEANED WASTEWATER IS ROUTED THROUGH THE REVERSE OSMOSIS SYSTEM AFTER THE SECOND ULTRAFILTRATION.

THE WATER THAT IS TREATED HAS A LOW MINERAL CONTENT SO RESULTANT "BRINE WASTEWATER" FROM THE RO IS FED BACK TO THE FIRST STAGE OF THE TREATMENT PLANT AS WASTEWATER AND IS FILTERED THROUGH THE MICRO ULTRAFILTRATION PROCESS.

THE COMPOSITION OF THE TREATED WASTEWATER AFTER THE WATER ON DEMAND STAGE IS APPROXIMATELY 65% RO FILTRATE AND 35% FILTRATE AFTER THE SECOND ULTRAFILTRATION. WITH THIS COMPOSITION, A REMINERALIZATION OF THE CLEANED FILTRATE IS ACHIEVED BUT AT THE SAME TIME COMPLIANCE WITH ALL DESIRED LIMIT VALUES FOR COD, BOD, TSS, TURBIDITY, E.COLI, COLIFORM, NITROGEN AND PHOSPHATES IN THE WATER.

As soon as the cleaned wastewater is reused after double ultrafiltration, the proportion of water to be cleaned in the RO is reduced proportionately and the material content decreases.

BOD	ND
COD	26
TSS	ND
TURBIDITY	.56
E.COLI	ND
Coliform	ND
NITROGEN	4.6 мg/L
PH	6-9