

Cost Effective Solutions for Land Developers

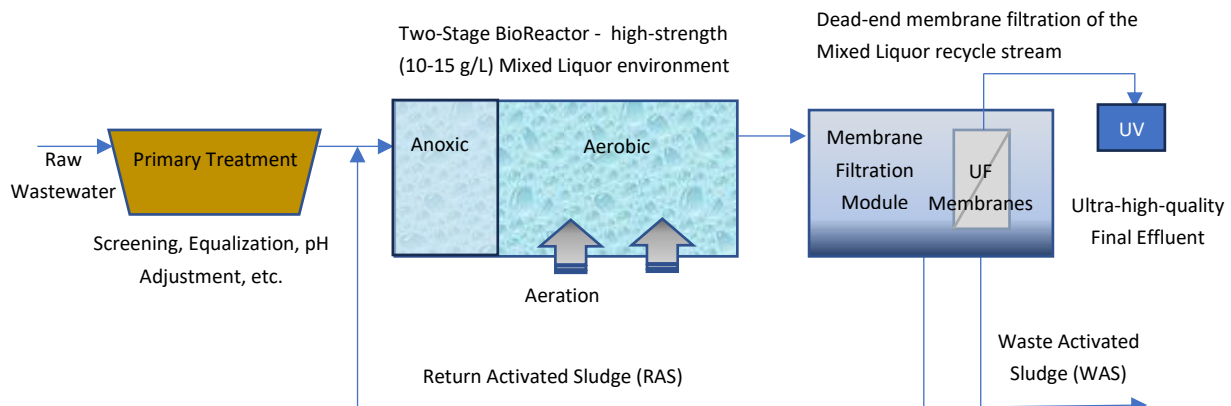
The Project:

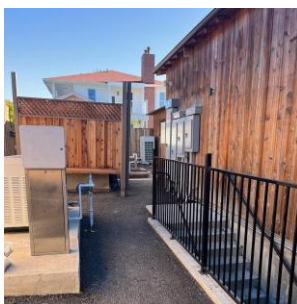


Situated in the historical town of Los Olivos, California, the Inn at Mattei's Tavern offers visitors to the Santa Ynez Valley a luxury experience in one of the state's most picturesque regions. The mixed use development includes 67 guest rooms and villas, onsite restaurant, spa and banquet facilities generating a blend of domestic and high strength wastewater of >15,000 USgpd (60m³/d). With its location in a protected environment in the heart of wine country the wastewater treatment targets were set to not only match the strict guidelines of Santa Barbara county but provide the site with continuous source of high quality reuse water for onsite non-potable applications (e.g. irrigation).

The Solution:

Enerneau was approached to supply its nrPUR™ Membrane BioReactor (MBR) for the project. With space at a premium the compact MBR was the optimal solution. Below ground installation was selected for the equalization and process tankage to conceal the system which allowed it to be installed directly adjacent to the site's Spa facilities. A BioReactor with both Anoxic and Aerobic stages was utilized to allow for the required nitrification and denitrification to achieve the site's nutrient removal targets. Submerged hollow fibre UF membranes performed the necessary final solids/liquid separation step with the tight 0.04 Micron pore size acting as an absolute barrier to solids in the system. A final UV disinfection step was installed to ensure the quality of the treated water discharged from the MBR.





Flexible design allowed for a compact configuration easily concealed from guests



nrPUR™ Ultrafiltration (UF) Membranes consistently deliver reuse quality effluent

Effluent Quality:

Parameter	Limit	Result	Unit
BOD	<10	<5.0	mg/L
TSS	<5	<5.0	mg/L
TN	< 10	<5.0	mg/L
Turbidity	<0.2	<0.1	NTU

For more information visit www.enereau.com or contact us at sales@enereau.com