

# MicroSludge System Sizes



## MICROSLUDGE AT 100% UTILIZATION OF CAPACITY (24/7)

MICROSLUDGE SYSTEM	WAS FLOW @ 6.0% TS		DRY MASS OF WAS		WASTEWATER FLOW RATE		POPULATION EQUIVALENT (+/- 20%)
	US gal/day	m <sup>3</sup> /day	Dry US tons/yr	Dry metric tonnes/yr	MGD	Thousands of m <sup>3</sup> /day	
25	25,000	95	2,300	2,100	14	50	82,000
50	50,000	190	4,600	4,200	26	100	160,000
75	75,000	285	6,900	6,300	40	150	240,000
100	100,000	380	9,200	8,400	53	200	320,000
150	150,000	570	13,800	12,600	80	300	480,000
200	200,000	760	18,400	16,800	107	400	650,000

## MICROSLUDGE AT 80% UTILIZATION OF CAPACITY

MICROSLUDGE SYSTEM	WAS FLOW @ 6.0% TS		DRY MASS OF WAS		WASTEWATER FLOW RATE		POPULATION EQUIVALENT (+/- 20%)
	US gal/day	m <sup>3</sup> /day	Dry US tons/yr	Dry metric tonnes/yr	MGD	Thousands of m <sup>3</sup> /day	
25	20,000	76	1,900	1,700	11	40	65,000
50	40,000	152	3,800	3,400	21	80	130,000
75	60,000	228	5,700	5,100	32	120	200,000
100	80,000	304	7,600	6,800	42	160	260,000
150	120,000	456	11,400	10,200	64	240	390,000
200	160,000	608	15,200	13,600	85	320	520,000

## ASSUMPTIONS

BOD INLET mg/L	BOD OUTLET mg/L	CELL YIELD mg VSS/mg BODr	VOLATILE FRACTION in Feed WAS	TWAS % TS	WATER USE	
					L/capita day	US gal/capita day
200	20	0.5	0.8	<b>6.0%</b>	625	165

