



**SEWAGE GENERATION
TOTAL SYSTEM**

Project: Delta Ranch RV Resort
Project No.: 12471
Date: 10/25/2023

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ITEM NO.	TYPE OF USE	UNITS OR BUILDING AREA (UNITS OR SQ FT) (a)	% of ERC (b)	ERCs (c) =(a)*(b)	AVERAGE DAY			PEAKING FACTOR (g) (Note 1)	PEAK DAY		
					UNIT FLOW (GPD/ERC) (d) (Note 1)	TOTAL FLOW			UNIT FLOW (GPD/ERC) (h) =(d)*(g)	TOTAL FLOW	
						(GPD) (e) =(c)*(d)	(GPM) (f) =(e)/1440			(GPD) (i) =(c)*(h)	(GPM) (j) =(i)/1440
1.	Recreational Vehicle Park	69	13.0%	9.0	400	3,588	2.5	4.00	1,600	14,352	10.0
2.	Ammenity Building	1	31.25%	0.3	400	125	0.1	4.00	1,600	500	0.3
3.	Existing House	1	100.0%	1.0	400	400	0.3	4.00	1,600	1,600	1.1
4.	Pool	1	25.0%	0.3	400	100	0.1	4.00	1,600	400	0.3
5.	Cabins	7	50.0%	3.5	400	1,400	1.0	4.00	1,600	5,600	3.9
6.	Laundry Room in Ammenity Building	2	73.0%	1.5	400	584	0.4	4.00	1,600	2,336	1.6
TOTAL SYSTEM SEWAGE GENERATION				15		6,197	4.3			24,788	17

NOTES:

1. The peak day unit demand, average yearly unit demand, and storage unit demand are given in the Utah Admin Code R309-510.
2. Unit counts are per the latest layout.
3. The swimming pool capacity was assumed to be 20 people.
4. The existing house is assumed to be one equivalent residential connection (ERC).
5. Cabins are assumed to be one half an ERC.
6. The amenity building is being considered an office building with a cafeteria for 10 employees.
7. The laundry room within the amenity building is assumed to have two washers and half the recommended peak day demand from table 510-2 in the Utah State Admin Code.