Water Offset Calculations

Paris Valley Road Winery, Paso Robles, CA

August 27, 2021

Estimated increase in water use subject to offset

Ag Use 1: Increased Spirits Production

Increase in cases per year (assuming 3.75 gallons/case water demand)	1,000
Total increased demand in acre-ft per year (AFY)	0.012 AFY
Percentage recycled for vineyard irrigation	80%
Total net increased demand in acre-ft per year (AFY)	0.002 AFY

Ag Use 2: Increased Employee Demand (employee allowance for additional visitor services, distillery) 15 FTE Increase in full time equivalent (FTE) employee count Estimated average daily use per employee 10 gpd/employee Percentage discharged to subsurface recharge via leach system 80% 10,950 gallons per year Total net employee demand (after accounting for recharge) Net increased demand in acre-ft per year (AFY) 0.034 AFY Ag Use 3: Increased visitor traffic for events and restaurant

5 gal/patron/visit

7 gal/patron/visit

0.377 AFY

80%

0.095 AFY

31,069 gallons per year

Increased event population assuming 40 events/year x 300 guests/event 12,000 patrons Estimated average use per patron for events 60,000 gallons per year Total event attendee demand (no credit taken for leach field discharge) 36,500 patrons Increased visitor population for restaurant (assuming 100 guests/day on average) Estimated average use per patron for restaurant Percentage discharged to subsurface recharge via leach system 80% 51,100 gallons per year Total net restaurant demand (after accounting for recharge) Total increased demand in acre-ft per year (AFY) 0.341 AFY

Total	of a	ll new	agric	utural	uses	(1	throug	n 3 a	bove)

Non-Ag Use 1: New Bed and Breakfast (8 rooms, assuming 70% occupancy, 2 occupants per room) 38 gal/occupant/day Estimated daily water use per occupant Annual population based on 2 occupants per room, 70% occupancy 4,088 occupants per year

Percentage discharged to subsurface recharge via leach system Total net B&B demand (after accounting for recharge) Total increased demand in acre-ft per year (AFY)

Non-Ag Use 2: Increased Employee Demand (employee allowance for additional visitor services)

Increase in full time equivalent (FTE) employee count	5 FTE		
Estimated average daily use per employee	10 gpd/employee		
Percentage discharged to subsurface recharge via leach system	80%		
Total net employee demand (after accounting for recharge)	3,650 gallons per year		
Total increased demand in acre-ft per year (AFY)	0.011 AFY		
Non-Ag Use 3: New Pool			

1,800 sf New Pool Domestic water demand= annual evaporation1 (5.21 ft/yr) 5.21 ft/year Total annual increase due to new pool 70,152 gallons per year Total increased demand in acre-ft per year (AFY) 0.215 AFY

Non-Ag Use 4: New Ornamental Vines in Project Area

New Vines in Project Area	0.98 acre		
Water Demand = 1.5 acre-ft/year-acre	1.50 acre-ft/year-acre		
Total annual increase due to new vines in project area	479,001 gallons per year		
Total increased demand in acre-ft per year (AFY)	1.470 AFY		

Non-Ag Use 5: New ornamental landscaping

New lawn area - not applicable, planting area was previously lawn
Annual water use factor for turf
New ornamental plantings (estimated)
Annual water use factor for drip/ornamental
Total annual increase due to new landscaping
Total increased demand in acre-ft per year (AFY)

Total of all new non-agricultural uses

Proposed water reduction and efficiency projects

- 1 Removal of Lawn Area (2.25 acres removed x 2.5 acre-ft/year-acre)
- 2 Removal of Irrigation Reservoir (4,250 sf x 5.21 ft/year)
- 3 New Stormwater Capture System (256,166 sf x 12.54 in/year)

0 sq ft 2.50 ft/year 56,628 sq ft 1.50 ft/year 635,366 gallons per year 1.950 AFY 3.742 AFY 5.63 AFY 0.51 AFY		
56,628 sq ft 1.50 ft/year 635,366 gallons per year 1.950 AFY 3.742 AFY 5.63 AFY	0	sq ft
1.50 ft/year 635,366 gallons per year 1.950 AFY 3.742 AFY 5.63 AFY	2.50	ft/year
635,366 gallons per year 1.950 AFY 3.742 AFY 5.63 AFY	56,628	sq ft
1.950 AFY 3.742 AFY 5.63 AFY	1.50	ft/year
3.742 AFY 5.63 AFY	635,366	gallons per year
5.63 AFY	1.950	AFY
5.63 AFY		
	3.742	AFY
0.51 AFY	5.63	AFY
	0.51	AFY

Total

4.92 AFY

11.05 AFY

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