Division of Drinking Water Water System Capacity Calculation Sheet (revised June 23, 2011)

Enter the green cells only.

System Name: *Sunrise RV Park*   **System Number:** *66666*

1. Indoor Water Use

Convert "Number of other connections" (Cell E9) to ERCs here. (ERCs of other connection = peak day demand of other connections / 800 gal per day)

Number of residential connections ---------- --------------------- -------- *0*

Number of other connections - - -   *1*   ERCs of other connections *4.0*

(Example: water use of 2 factory is equivalent to 30 homes.)

Enter number of non-residential connections (e.g., 2 factory connections).

Total Equivalent Residential Connections (ERCs) **4.0**

MINIMUM REQUIREMENTS FOR INDOOR WATER USE					
Source		Storage		Water Rights	
Per ERC	Total	Per ERC	Total	Per ERC	Total
(gpd/ERC)	(gpm)	(gallons/ERC)	(gallons)	(ac-ft/yr)	(ac-ft/yr)
800	**2.2**	400	**1,600**	0.45	**1.80**

2. Outdoor Water Use

Enter estimated irrigated acre

Is the drinking water used for outdoor irrigation? ☐ Yes   ☑ No

Residential ERCs using drinking water for irrigation - - - - - - - - - - > > >   *0*

Percentage of Residential ERCs using DW for irrigation - - - - - - - - - - > > >   #DIV/0!

Average irrigated acreage per residential connection - - - - - - - - - - > > >   *0.00*

Total irrigated acreage of other connections. - - - - - - - - - - > > >   *0.00*

(Enter notes here. Check whether and what % of outdoor irrigation is supplied by drinking water.)

Enter total irrigated acres of other connections here.   Irrigation zone *3*

Select Irrigated Zone # from the list (see "Irrigation Demands & Map" tab on the bottom of the screen).

MINIMUM REQUIREMENTS FOR OUTDOOR WATER USE					
Source		Storage		Water Rights	
Per ERC	Total	Per ERC	Total	Per ERC	Total
(gpd/ERC)	(gpm)	(gallons/ERC)	(gallons)	(ac-ft/yr)	(ac-ft/yr)
0	**0.0**	0	**0**	0.00	**0.00**

3. Fire Flow Requirement

Enter fire flow in gpm.

Does the water system provide fire protection? ☐ Yes   ☑ No

Maximum fire suppression **demand** for *water system* or *pressure zone* (gpm)   0

Maximum fire suppression **duration** for *water system* or *pressure zone* (hours)   0

Required Fire Suppression Storage (gallons) - - - - - - - - - - - - - - - - - - > > >   **0**

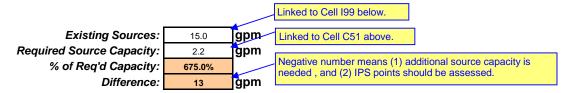*(Enter notes here. Verify minimum fire flow and duration with local fire authority.)*

Enter duration in hours.

Total Water System Requirements *(= indoor use + outdoor use + fire flow demand)*

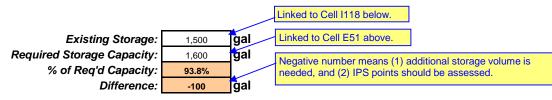| MINIMUM REQUIREMENTS FOR WATER SYSTEM					
Source		Storage		Water Rights	
Per ERC	Total	Per ERC	Total	Per ERC	Total
(gpd/ERC)	(gpm)	(gallons/ERC)	(gallons)	(ac-ft/yr)	(ac-ft/yr)
800	**2.2**	400	**1,600**	0.45	**1.80**

Does this system have adequate source capacity per R309-510-7?

IPS points may be assessed for lacking adequate source capacity to meet peak day and/or average yearly flow requirements.

Existing Sources:	15.0	**gpm**
Required Source Capacity:	2.2	**gpm**
% of Req'd Capacity:	**675.0%**	
Difference:	**13**	**gpm**

Linked to Cell I99 below.

Linked to Cell C51 above.

Negative number means (1) additional source capacity is needed , and (2) IPS points should be assessed.

Does this system have adequate storage capacity per R309-510-8?

IPS points may be assessed for lacking adequate storage capacity.

Existing Storage:	1,500	**gal**
Required Storage Capacity:	1,600	**gal**
% of Req'd Capacity:	93.8%	
Difference:	-100	**gal**

Linked to Cell I118 below.

Linked to Cell E51 above.

Negative number means (1) additional storage volume is needed, and (2) IPS points should be assessed.

Non-Community Water Systems, ERCs for Indoor Water Use   (*See R309-510, Tables 510-1, 2, and 4, for other facility type calc.)

Facility Type	Source GPD/person*	Source Calculated GPD/site or pad	Storage GPD/person	Storage Gallon/site or pad	ERC/site or pad	# of Sites or pads	ERCs
		MINIMUM REQUIREMENTS FOR INDOOR USE					
Modern Recreation Camp	60	0	30	0	0.00	0	0.0
Semi-Developed Camp *w/ flush toilets*	20	0	10	0	0.00	0	0.0
Semi-Developed Camp *w/o flush toilets*	5	0	2.5	0	0.00	0	0.0
RV Park	N/A	100	N/A	50	0.13	32	4.0
*Number of people per camp site	0						

If applicable, enter number of people per camp site here.

	Source (GPD/vehicle)	Storage (Gal./vehicle)	ERC/1000 vehicles served	# of Vehicles served	ERCs
Roadway Rest Stop *w/ flushometer valves*	7	3.5	8.75	0	0.00

Sunrise RV Park

Equivalent Residential Connection Calc.	
Existing Residential Connections	0
Number of Obligated Future ERCs	0
Total Projected Number of ERCs	**0**

Linked to Cell I8 above.

If you need to calculate projected future demand (including existing & future connections), insert this number to Cell I8 "Number of residential connection."

(Enter notes here if needed.)

Source	(in gallons per minute)
WS001 *Well*	*15*
Total Source Capacity	**15**
Max. ERC allowed (for indoor use only)	*27*

Storage	(in gallons)
ST001 *3,000-gal hydro tank*	*1,500*
(assuming 50% capacity)	
Total Storage Capacity	**1,500**

Diaphragm or air pressure tanks shall not be considered effective storage volume for community systems or NTNC with significant demand.