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


| MINIMUM REQUIREMENTS FOR INDOOR WATER USE |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Source |  | Storage |  | Water Rights |  |
| Per ERC <br> $(\mathrm{gpd} / E R C)$ | Total <br> $(\mathrm{gpm})$ | Per ERC <br> $($ gallons/ERC $)$ | Total <br> $($ gallons $)$ | Per ERC <br> $(\mathrm{ac}-\mathrm{ft} / \mathrm{yr})$ | Total <br> $(\mathrm{ac}-\mathrm{ft} / \mathrm{yr})$ |
| 800 | $\mathbf{3 7 5 . 0}$ | 400 | $\mathbf{2 7 0 , 0 0 0}$ | 0.45 | $\mathbf{3 0 3 . 7 5}$ |

## 2. Outdoor Water Use

Is the drinking water used for outdoor irrigation? Residential ERCs using drinking water for irrigation Percentage of Residential ERCs using DW for irrigation
Average irrigated acreage per residential connection
Total irrigated acreage of other connections.

| (Enter notes here. Check whether and what \% of outdoor irrigation is supplied by drinking water.) |  | Enter total irrigated acres of other connections here. |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| MINIMUM REQUIREMENTS FOR OUTDOOR WATER USE |  |  |  |  |  |
| Source |  | Storage |  | Water Rights |  |
| Per ERC <br> (gpd/ERC) | Total (gpm) | Per ERC (gallons/ERC) | Total (gallons) | $\begin{aligned} & \text { Per ERC } \\ & \text { (ac-ft/yr) } \\ & \hline \end{aligned}$ | $\begin{gathered} \text { Total } \\ (\mathrm{ac}-\mathrm{ft} / \mathrm{yr}) \\ \hline \end{gathered}$ |
| 244 | 179.7 | 126 | 133,984 | 0.08 | 87.98 |

## 3. Fire Flow Requirement

Does the water system provide fire protection? Maximum fire suppression demand for water system or pressure zone (gpm) Maximum fire suppression duration for water system or pressure zone (hours)
Required Fire Suppression Storage (gallons)


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

| MINIMUM REQUIREMENTS FOR WATER SYSTEM |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Source |  | Storage |  | Water Rights |  |
| Per ERC <br> $(\mathrm{gpd} /$ ERC $)$ | Total <br> $(\mathrm{gpm})$ | Per ERC <br> $(\mathrm{gallons} /$ ERC $)$ | Total <br> (gallons) | Per ERC <br> $(\mathrm{ac}-\mathrm{ft} / \mathrm{yr})$ | Total <br> $(\mathrm{ac}-\mathrm{ft} / \mathrm{yr})$ |
| 1,044 | 554.7 | 526 | 583,984 | 0.53 | 391.73 |

## 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.


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

IPS points may be assessed for lacking adequate storage capacity.


| 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 | MINIMUM REQUIREMENTS FOR INDOOR USE |  |  |  | ERC/site or pad | \# of Sites or pads | ERCs |
|  | Source |  | Storage |  |  |  |  |
|  | GPD/person* | Calculated GPD/site or pad | GPD/person | Gallon/site or pad |  |  |  |
| 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 | 0 | 0.0 |
| *Number of people per camp site | 0 | If applicab | e, enter number | of people per | amp site he |  |  |
|  | Source (GPD/vehicle) | Storage (Gal./vehicle) | $\begin{gathered} \mathrm{ERC} / 1000 \\ \text { vehicles served } \end{gathered}$ | \# of Vehicles served | ERCs |  |  |
| Roadway Rest Stop w/ flushometer valves | 7 | 3.5 | 8.75 | 0 | 0.00 |  |  |

Fable Haven Town
Fable Haven Town

| Equivalent Residential Connection Calc. |  |
| :--- | :--- |
| Existing Residential Connections |  |
|  | 600 |
| Number of Obligated Future ERCs | 0 |


| Source |  | (in gallons per minute) |
| :--- | :--- | ---: |
| WS001 | A Spring | 50 |
| WS005 | B Well | 110 |
| WS007 | next town wholesale | 400 |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  | 560 |
|  |  | 1008 |


| Storage |  | (in gallons) |
| :--- | :--- | ---: |
| ST001 | South Tank | 100,000 |
| ST002 | East Tank | 300,000 |
| ST003 | West Tank | 20,000 |
| ST004 | North Tank | 50,000 |
| ST005 | Middle Tank | 50,000 |
|  |  |  |
|  |  |  |
| Total Storage Capacity |  |  |
| Diaphragm or air pressure tanks shall not be <br> considered effective storage volume for community <br> systems or NTNC with significant demand. |  |  |

