

## Water System Capacity Calculation Scenario 5 — **Fast & Furious Rest Stop**

PWS Type: Community, NTNC, or TNC? TNC

The estimated maximum number of vehicles served at this UDOT rest stop is 1,600 on a peak day.

### **1. Indoor Water Use**

Number of Residential Connections = 0

Number of other connections = 1,600 vehicles on a peak day (Table 510-1 Roadway Rest Stop)

=> Peak day demand = 7 gpd per vehicle

=> Total peak day demand = 11,200 gallons per day = 14 equivalent residential connections (ERCs)

**7 gpd per vehicle x 1,600 vehicles = 11,200 gpd**

**11,200 gpd / 800 gpd per ERC => 14 ERCs**

### **2. Outdoor Water Use**

Located in Box Elder County near Promontory => Map Zone 4

Total irrigated acreage = 0 acres

### **3. Fire Flow Requirements**

Fire suppression flow not required.

Local fire authority name \_\_\_\_\_ Contact Info \_\_\_\_\_

### **4. Existing source capacity = 15 gpm**

**5. Existing storage capacity = 3,000 gallons** (assuming 6,000-gallon hydropneumatic tank with 50% bladder capacity) (Calc1)

**6,000 gallons x 50% = 3,000 gallons of storage capacity**

(What if this is an unpressurized 6,000-gallon steel tank?) (Calc2)

**6,000 gallons of storage capacity**