
What is the Capacity of the
Truckee Meadows Water
Reclamation Facility?

TMWRF – Authorization to Discharge Permit

The Truckee Meadows Water Reclamation Facility (TMWRF) is permitted to ***receive*** 40 Million Gallons Per day of Sanitary Sewer (Permitted Maximum Influent Capacity).

TMWRF is permitted to ***discharge*** 500 pounds of Nitrogen per day to the Truckee River (Waste Load Allocation-WLA)

What is the City of Sparks
Capacity at TMWRF?

SPARKS' SHARE OF CAPACITY AT TMWRF

TMWRF is jointly owned by the Cities of Sparks and Reno. Sparks ownership share of TMWRF is 31.37% while Reno's share is 68.63%. Based on ownership, Sparks share of the Capacity at TMWRF is:

$$\text{Influent Capacity} = 40\text{MGD} \times 31.37\% = \underline{12.55 \text{ MGD}}$$

$$\text{Nitrogen Discharge} = 500 \text{ Lbs/day} \times 31.37\% = \underline{156.85 \text{ Lbs/day}}$$

How Much Sewer Service has
Sparks Committed through
Approval of New Development?

Commitment of Sewer Service through Approval of New Development

The City of Sparks Commits to providing Sanitary Sewer Service for new development by issuing sewer “Will-Serve” and “Intent-to-Serve” letters.

As of October 5, 2018, the City has issued:

“Will-Serve” for Final Maps = 1,312 lots

“Intent-to-Serve” for Tentative Maps = 2,984 lots

“Will-Serve” for Multi Family Projects = 2,304 units

Total New Development Commitment = 6,600 lots/units

How Much Sewer Capacity Does
Sparks have Left?

Estimate of Sparks Committed Sewer Service

(Million Gallons Per Day)

Sparks Current Flow= 9.94<----24 month average influent rate to TMWRF (meter data)

Single Family Commitment= 0.77<--- Capacity Reserved Via Tentative and Final Map approvals

Multi Family Commitment= 0.41<----Capacity Reserved Via Administrative Review approvals

Total Sparks= 11.13<--- Current Influent rate plus capacity Reserved

Sun Valley Lease= 2.1<---- Total Reservation

1.24<---- Current flow (meter data)

0.86<--- Remaining Reservation

Washoe County Agreement= 0.78<--- Total Reservation

0.67<---- Current flow (meter data)

0.11<--- Remaining Reservation

Sparks Total Commitment= 12.10

SPARKS' Remaining Sewer Capacity (Influent)

Based upon Influent Load at TMWRF:

$$\begin{array}{r} 12.55 \text{ MGD} \\ - \underline{12.10 \text{ MGD}} \\ 0.45 \text{ MGD} \end{array}$$

0.45 MGD = to approximately 2,500 additional SFR

SPARKS' Remaining Sewer Capacity (Nitrogen)

Based upon Sparks Share of Nitrogen WLA to Truckee River:

- With current TMWRF Nitrogen Treatment technology and effluent reuse rates, Sparks will discharge 156.58 pounds of Nitrogen at **11.7 MGD**.
- The only way to increase Sparks' "Capacity" at TMWRF is to invest in Advanced Nitrogen Treatment technology to remove ***Dissolved Organic Nitrogen*** (DON) and reduce nitrogen discharge to the Truckee River



