



STATE OF NEVADA
DEPARTMENT OF TRANSPORTATION

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Trinity Rest Area Water Conservation Plan August 2023

Introduction

The Nevada Department of Transportation (NDOT) Trinity Rest Area is located on the southwest corner of the Interstate 80 (I-80) and United States Highway 95 (US 95) junction which is approximately 20 miles southwest of Lovelock within Churchill County, as shown in **Figure 1**. Access to the Trinity Rest Area is provided along US 95 via three driveways (one driveway for passenger vehicles and two driveways for commercial vehicles).



Figure 1 – Rest Area Map

Water Source Description

The rest area has been a dry site since its construction in the 1980s. Pursuant to the issuance of Permit 78276, in 2012, a 6-inch steel casing well was drilled but never used (Public Water System ID #NV0002034). NDOT is working to finalize a design package for redevelopment of the rest area to provide potable water by using the existing well and installing a reverse osmosis system to treat the water. NDOT will then pursue filing the proof of beneficial use for Permit 78276. NDOT conserves water at the site by following the water conservation plan requirements according to NRS 540.141, outlined below:

Public Education

- Increase public awareness of the limited supply of water and the need to conserve water.
 - Signage is maintained on bulletin boards at the rest area to encourage water conservation.
- Encourage reduction in the size of lawns and the use of arid and semiarid plants.
 - There are no lawns or foliage at the Trinity Rest Area. Any vegetation occurs naturally. There are plans for minimal landscaping as part of the proposed rehabilitation of the rest area, the use of arid and semiarid plants will be considered.

Water Conservation Measures

Water conservation measures to meet the needs of the rest area include:

- NDOT staff and service providers monitor fixtures and will monitor future irrigation systems for unnecessary usage.
- NDOT will supply parts for the service provider to perform minor repairs on the proposed irrigation systems. NDOT performs all other repairs.
- NDOT signage provides the Sub-District Office information, including contact information to report issues. The traveling public often reports water related issues, such as running water, by calling the Sub-District Office at (775) 834-8300.
- NDOT staff will read and record the totalizing meter on the well monthly to monitor water usage once the renovations at the rest area are completed.
- Vegetation as part of the proposed rehabilitation of the rest area will include plants requiring minimal irrigation.

Management of Water:

Efforts to reduce water loss and inaccuracies in water meters and supply include:

- Under normal conditions, there will be only one connection to the well. Therefore, it is not possible to determine the effectiveness of an individual conservation measure. Total usage can be evaluated by using the well meter.
- Water fountains will be turned off and irrigation will be disabled during winter months.
- Push button fixtures will be used to conserve water.

Goals for Acceptable Levels of Water Loss in Water Supplies:

- NDOT maintenance crews have a goal to minimize water loss at the site. Crews measure water use through regular meter readings and visual inspection of the facilities. Additionally, contracted cleaning crews notify NDOT of any observed maintenance issues with the facilities.

Plan Which Analyzes how the Supplier will Progress Towards Goals:

- If a meter reading, conducted at regular intervals, appears abnormally high, maintenance crews would be tasked with determining the cause of the high reading. These maintenance crews would then take action to mitigate identified issues, effectively minimizing water loss.

Management of Water to Increase Reuse of Effluent (Where Applicable)

- No effluent water is currently used at the site because all restrooms are vault/compostable toilets.

Drought Contingency Plan that Ensures Supply of Potable Water

- There currently is no potable water at the rest area, but future renovations are being planned to provide potable water to the site. If the water system fails, or well water levels fall below a useable level, the rest area will be closed to the traveling public until it is appropriate to reopen, and the well system will be required to pass the required safety tests.
- The rest area is provided as a public convenience, and no one is expected to be dependent on its potable water supply.

Schedule for Carrying Out the Conservation Plan

- Maintain signage on bulletin board to encourage users to conserve water.
- Continue to execute current practices and update fixtures and systems as necessary to maintain facility and conservation plan.

Plan for How the Supplier of Water Will Progress Towards the Installation of Meters on All Connections

- The proposed rehabilitation to the rest area will include the installation of a meter to monitor water usage at the site.

Standards for Water Efficiency for New Development

- NDOT plans to renovate the Trinity Rest Area to better serve the needs of the public and better utilize assets at this location. A water treatment facility will be installed as part of these plans, allowing running water to be provided to the site. New fixtures that conserve water will be installed as part of the renovation.

Tiered Rate Structures for Pricing of Water

- Tiered rate structures are not applicable to rest areas as water is not sold and is provided to the public free of charge

Water Restrictions Based on the Time of Day

- There is currently no irrigation at the rest area. Future plans for irrigation will conform to time of day and day of week water restrictions.