

**NEVADA DIVISION OF ENVIRONMENTAL PROTECTION**  
**FACT SHEET**  
(pursuant to NAC 445A.236)

**Permittee Name:** Truckee Meadows Water Authority  
P. O. Box 30013  
Reno, NV 89520

**Permit Number:** NV0022756

**Location:** Chalk Bluff Water Treatment Facility  
9605 S. McCarran Blvd.  
Reno, Washoe County, NV 89523  
Township 19N, Range 19E, Section 16 & 17

**Location of Discharge:**

Latitude: 39° 30' 55.60" N  
Longitude: 119° 52' 05.97" W

**Drinking Water Protection:**

Portions of the facility are within the following Drinking Water Protection Areas (DWPAs) around public water supply wells. The facility is not within a currently established Wellhead Protection Area (WHPA) or capture zone. This discharge is not expected to adversely affect any public water supply wells.

DWPA	Public Water Supply	Well Numbers
6000 feet	Truckee Trailer Park	Wells 21 and 51
3000 feet	Arrowhead Mobile Home Park	Wells 1 and 2
1000 feet	Old Forty West Motel Ace Apartments	Well 1 East Well 1

**Corrective Actions Sites:**

There are no Bureau of Corrective Actions (BCA) remediation sites within 1 mile of the subject facility.

**General:**

Truckee Meadows Water Authority owns and operates the Chalk Bluff Water Treatment Facility. The facility produces drinking water for the City of Reno and the surrounding area, from water diverted from the Truckee River via the Highland Ditch system. The diverted water is treated to remove sediments and suspended solids, and is then disinfected, using conventional coagulation/flocculation and chlorination processes, respectively. The facility is permitted to conduct intermittent discharges of untreated and/or partially treated water back to the Truckee River in the event of mechanical, operational, seasonal storm flow, or other emergency conditions. The cited situations are considered de minimus, and Truckee Meadows Water Authority is not required to obtain a waste load allocation (WLA). Due to the small amounts of process chemical additions during treatment and their subsequent removal from the treatment stream, it is believed that little

potential exists to degrade waters of the State. The Permittee has complied with all permit requirements during the term of the current permit and all prior permit terms. This discharge is designated as Outfall 001

The Highland Ditch system provides raw river water to the Chalk Bluff Water treatment facility and to other unrelated downstream users. Water demands of the other downstream users can vary significantly and rapidly with season, time of day, weather events, emergency conditions, etc., resulting in frequent raw water discharges. Water demands of the other downstream users are beyond the control of the Permittee. In previous permits, excess raw water diverted from the Truckee River and routed back to the river was monitored. However, because this water has been shown to reflect ambient river water quality and receives no treatment or contact with any treated water or treatment chemicals, redirection of the water back to the Truckee River will not impact water quality. Monitoring of the raw water discharge is discontinued in this permit renewal.

**Discharge Flow and Characteristics:**

During the term of the current permit, the Chalk Bluff facility has had no discharges. Because of the nature of the potential discharges, the flow volume and characteristics will vary depending on the specific event requiring the discharge.

**Receiving Water Characteristics:**

The potential discharges would be to the Truckee River, both above and below the Idlewild control point. Therefore, the water quality standards listed in Nevada Administrative Code (NAC) 445A.185 apply. Treated or partially treated water must meet the requirements to maintain existing higher water quality. The Truckee River does have Total Maximum Daily Load (TMDL) restrictions for Nitrogen and Phosphorus. Discharges are considered de minimus for these constituents (By-pass discharge of raw water, or treated/partially treated discharge to which no nitrogen or phosphorus are added.).

**Proposed Effluent Limitations and Monitoring Requirements:**

The proposed permit discharge limitations and monitoring requirements are listed below:

**Table 1: Discharge Limitations and Monitoring Requirements  
 Outfall 001**

PARAMETER	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS	
	30-Day Average	Daily Maximum	Measurement Frequency	Sample Type
Flow (gallons)	Monitor & Report		Each Event	Estimate
Temperature (° C)	Monitor & Report		Each Event	Discrete
pH (Standard Units)	7.2 to 8.3		Each Event	Discrete
Turbidity (NTU)	6	9	Each Event	Discrete
Fecal Coliform (CFU/100 ml)	50	200	Each Event	Discrete
TSS <sup>1</sup> Concentration (mg/l) Mass Loading (lbs/day)	15	---	Each Event	Discrete
	Monitor & Report			
TDS <sup>2</sup> Concentration (mg/l) Mass Loading (lbs/day)	80.0	950.	Each Event	Discrete
	Monitor & Report			
Chlorine Residual (Total) Concentration (mg/l) Mass Loading (lbs/day)	---	0.01	Each Event	Discrete
	Monitor & Report			

1. Total Suspended Solids.
2. Total Dissolved Solids.
3. Colony Forming Units / 100 ml.

**Rationale for Permit Requirements:**

Monitoring per the above permit requirements will assess the quality of any water discharged, and will ensure that the water quality of the Truckee River is not degraded. As stated, the water entering the facility should be essentially the same water that is discharged, so it is believed that little potential exists to degrade waters of the United States. Water quality standards listed in NAC 445A.185 for maintenance of existing higher quality waters have been applied. There are no listed discharge parameters or limits that apply to this type of discharge in Chapter 40 of the Code of Federal Regulation effluent limitation guidelines.

The chlorine residual limit of 0.01 mg/l is the aquatic life standard stated in the Gold Book, and is generally adhered to for all discharges to the Truckee River that are applicable.

**Schedule of Compliance:**

The Permittee shall achieve compliance with the limitations and conditions of the permit upon issuance of the permit. The Permittee shall implement and comply with the provisions of the schedule of compliance after approval by the Administrator, including in said implementation and compliance, any additions or modifications that the Administrator may make in approving the schedule of compliance.

- a. The Permittee shall achieve compliance with the NPDES permit on issuance.
- b. **By MMM DD, 2010**, the Permittee shall submit any updates to the Water Management Plan (WMP), describing the management of the potential raw water and treated water discharges. If no updates are necessary, the Permittee shall submit a letter stating this condition by the WMP due date.

**Procedures for Public Comment:**

The Notice of the Division's intent to issue an NPDES permit authorizing this facility to discharge into the Truckee River for a five-year period, subject to the conditions contained within the permit, is being sent to the **Reno Gazette Journal** for publication. The Notice is being mailed to interested persons on our mailing list. Anyone wishing to comment on the proposed permit can do so in writing for a period of thirty (30) days following the date of publication of the public notice in the newspaper. The comment period can be extended at the discretion of the Administrator. The deadline date and time by which all comments are to be submitted (via postmarked mail or time-stamped faxes, e-mails, or hand-delivered items) to the Division is **July 19, 2010 by 5:00 P.M.**

A public hearing on the proposed determination can be requested by the applicant, any affected State, any affected interstate agency, the Regional Administrator or any interested agency, person or group of persons.

The request must be filed within the comment period and must indicate the interest of the person filing the request and the reasons why a hearing is warranted.

Any public hearing determined by the Administrator to be held must be conducted in the geographical area of the proposed discharge or any other area the Administrator determines to be appropriate. All public hearings must be conducted in accordance with NAC 445A.238.

The final determination of the Administrator may be appealed to the State Environmental Commission pursuant to NRS 445A.605.

**Proposed Determination:**

The Division has made the tentative determination to renew the proposed NPDES discharge permit for a period of five (5) years

Prepared by: Janine O. Hartley, P.E.  
Draft: January, 2010