



**FACTSHEET**  
**(pursuant to NAC 445A.236)**

**Permittee Name:** TRUCKEE MEADOWS WATER AUTHORITY  
PO BOX 30013  
RENO, NV - 89520

**Permit Number:** NV0020834

**Location:** GLENDALE WATER TREATMENT FACILITY, WASHOE  
1205 S. 21ST STREET, SPARKS, NV - 89431  
LATITUDE: 39.523209, LONGITUDE: -119.770714  
TOWNSHIP: T19N, RANGE: R20E, SECTION: S8

Outfall / Well Num	Outfall / Well Name	Location Type	Well Log Num	Outfall City	Outfall State	Outfall Zip	Outfall County	Latitude	Longitude	Receiving Water
001	OUTFALL 001	Intake Structure		SPARKS	NV	89431	WASHOE	39.526944	-119.776944	TRUCKEE RIVER
002	OUTFALL 002	External Outfall		SPARKS	NV	89431	WASHOE	39.525556	-119.775556	TRUCKEE RIVER

**General:**

Water is diverted from the Truckee River to the Glendale Plant, which produces potable municipal water for the Reno/Sparks area. Processes used include screening, pH control, coagulation, filtration, and chlorine disinfection.

Emergency situations, including system repair, might require discharge of in-process water. Outfall 002 denotes discharge to the Truckee River from the Glendale Plant pre-treatment sedimentation pond and can occur during emergency situations or scheduled maintenance activities. Outfall 001 is in place to monitor the discharge in the event that it backflows out of the intake. TMWA is required to dechlorinate the discharge to levels protective of aquatic life. Discharges must comply with beneficial use standards established for the Truckee River, and where applicable, Requirements to Maintain Existing Higher Quality. Constituent levels of waters released are also required to meet load capacity flow rates established by TMDLs when applicable.

**Discharge Characteristics:**

There were no discharges from this facility during the previous permit term.

**Receiving Water:**

The potential discharges are to the Truckee River, between the Nevada Administrative Code (NAC) identified control points East McCarran (downstream) and Idlewild (upstream). Beneficial uses for the Truckee River, for its entire length, are the following: Irrigation; watering of livestock; recreation involving contact with the water; recreation not involving contact with water; industrial supply; municipal or domestic supply, or both; propagation of wildlife; and propagation of aquatic life. The aquatic life of major concern in the reach of the river into which the Glendale Plant would discharge are all life stages of mountain whitefish, rainbow trout, and brown trout.

The requirements to maintain existing higher quality (RMHQ) and Beneficial Use water quality standards listed in NAC 445A.1686 for the Truckee River above the East McCarran control point apply.

**Summary of Changes From Previous Permit:**

There are no substantial changes to this permit from the previous version.

**Proposed Effluent Limitations:**

Treated or partially treated water must meet the requirements to maintain existing higher water quality of the Truckee River where applicable. Otherwise, discharge must meet beneficial use standards.

### Discharge Limitations Table for Sample Location 001 (Intake Structure) To Be Reported Monthly<sup>[1]</sup>

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Flow rate	Daily Maximum	M&R Million Gallons per Day (Mgal/d)		Intake	001	Daily When Discharging	METER
Alkalinity, total (as CaCO <sub>3</sub> )	Daily Maximum		<= 25 Percent (%) <sup>[2]</sup>	Intake	001 <sup>[3]</sup>	Daily When Discharging	DISCRT
Chlorine, total residual	Daily Maximum		<= 0.1 Milligrams per Liter (mg/L)	Intake	001	Daily When Discharging	DISCRT
Solids, total suspended	Daily Maximum	M&R Pounds per Day (lb/d)		Intake	001	Daily When Discharging	CALCTD
pH, minimum	Minimum		> 6.5 Standard Units (SU)	Intake	001	Daily When Discharging	DISCRT
Chloride (as Cl)	Daily Maximum		<= 250 Milligrams per Liter (mg/L)	Intake	001	Daily When Discharging	DISCRT
Solids, total dissolved	Daily Maximum	M&R Pounds per Day (lb/d)	<= 120 Milligrams per Liter (mg/L)	Intake	001	Daily When Discharging	DISCRT
Temperature, water deg. centigrade	Daily Maximum	M&R Degrees Centigrade (deg C)		Intake	001	Daily When Discharging	DISCRT
pH, maximum	Maximum		<= 9 Standard Units (SU)	Intake	001	Daily When Discharging	DISCRT

#### Notes (Discharge Limitations Table):

1. Sample Outfall 001 only in the event that water discharged at Outfall 002 backflows through Outfall 001.
2. Read this limit as <25% change from natural conditions.
3. The sample used to determine natural conditions shall be taken from the Truckee River upstream from Outfall 001.

## Discharge Limitations Table for Sample Location 001 (Intake Structure) To Be Reported Annually<sup>[1]</sup>

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Alkalinity, total (as CaCO <sub>3</sub> )	Annual Average		< 25 Percent (%) <sup>[2]</sup>	Intake	001 <sup>[3]</sup>	Daily When Discharging	DISCRT
Solids, total suspended	Annual Average	M&R Pounds per Day (lb/d)	<= 15 Milligrams per Liter (mg/L)	Intake	001	Daily When Discharging	DISCRT
Flow rate	Annual Average	M&R Million Gallons per Day (Mgal/d)		Intake	001	Daily When Discharging	METER
Temperature, water deg. centigrade	Annual Average	M&R Degrees Centigrade (deg C)		Intake	001	Daily When Discharging	DISCRT
pH, minimum	Annual Average		M&R Standard Units (SU)	Intake	001	Daily When Discharging	DISCRT
pH, maximum	Annual Average		M&R Standard Units (SU)	Intake	001	Daily When Discharging	DISCRT
Solids, total dissolved	Annual Average	M&R Pounds per Day (lb/d)	<= 90 Milligrams per Liter (mg/L)	Intake	001	Daily When Discharging	DISCRT
Turbidity	Annual Average		<= 6 Nephelometric Turbidity Units (NTU)	Intake	001	Daily When Discharging	DISCRT

### Notes (Discharge Limitations Table):

1. Sample Outfall 001 only in the event that water discharged at Outfall 002 backflows through Outfall 001.
2. Read this limit as **<25% change from natural conditions**.
3. The sample used to determine natural conditions shall be taken from the Truckee River upstream from Outfall 001.

### Discharge Limitations Table for Sample Location 002 (Internal Outfall) To Be Reported Monthly

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Flow rate	Daily Maximum	M&R Million Gallons per Day (Mgal/d)		See Footnote <sup>[1]</sup>	002	Continuous	METER
Temperature, water deg. centigrade	Daily Maximum	M&R Degrees Centigrade (deg C)		See Footnote <sup>[1]</sup>	002	Daily When Discharging	DISCRT
pH, minimum	Minimum		>= 6.5 Standard Units (SU)	See Footnote <sup>[1]</sup>	002	Daily When Discharging	DISCRT
pH, maximum	Maximum		<= 9.0 Standard Units (SU)	See Footnote <sup>[1]</sup>	002	Daily When Discharging	DISCRT
Chloride (as Cl)	Daily Maximum		<= 250 Milligrams per Liter (mg/L)	See Footnote <sup>[1]</sup>	002	Daily When Discharging	DISCRT
Solids, total dissolved	Daily Maximum	M&R Pounds per Day (lb/d)	<= 120 Milligrams per Liter (mg/L)	See Footnote <sup>[1]</sup>	002	Daily When Discharging	DISCRT
Alkalinity, total (as CaCO <sub>3</sub> )	Daily Maximum		<= 25 Percent (%) <sup>[2]</sup>	See Footnote <sup>[1]</sup>	002 <sup>[3]</sup>	Daily When Discharging	DISCRT
Chlorine, total residual	Daily Maximum		<= 0.1 Milligrams per Liter (mg/L)	See Footnote <sup>[1]</sup>	002	Daily When Discharging	DISCRT
Solids, total suspended	Daily Maximum	M&R Pounds per Day (lb/d)		See Footnote <sup>[1]</sup>	002	Daily When Discharging	CALCTD

#### Notes (Discharge Limitations Table):

1. Samples shall be collected at the over flow box at Outfall 002.
2. Read this limit as <25% change from natural conditions.
3. The sample used to determine natural conditions shall be taken from the Truckee River upstream from Outfall 001.

**Discharge Limitations Table for Sample Location 002 (Internal Outfall) To Be Reported Annually**

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Temperature, water deg. centigrade	Annual Average	M&R Degrees Centigrade (deg C)		See Footnote <sup>[1]</sup>	002	Daily When Discharging	DISCRT
pH, minimum	Annual Average		M&R Standard Units (SU)	See Footnote <sup>[1]</sup>	002	Daily When Discharging	DISCRT
Flow rate	Annual Average	M&R Million Gallons per Day (Mgal/d)		See Footnote <sup>[1]</sup>	002	Daily When Discharging	METER
pH, maximum	Annual Average		M&R Standard Units (SU)	See Footnote <sup>[1]</sup>	002	Daily When Discharging	DISCRT
Solids, total dissolved	Annual Average	M&R Pounds per Day (lb/d)	<= 90 Milligrams per Liter (mg/L)	See Footnote <sup>[1]</sup>	002	Daily When Discharging	DISCRT
Turbidity	Annual Average		<= 6 Nephelometric Turbidity Units (NTU)	See Footnote <sup>[1]</sup>	002	Daily When Discharging	DISCRT
Alkalinity, total (as CaCO <sub>3</sub> )	Annual Average		< 25 Percent (%) <sup>[2]</sup>	See Footnote <sup>[1]</sup>	002 <sup>[3]</sup>	Daily When Discharging	DISCRT
Solids, total suspended	Annual Average	M&R Pounds per Day (lb/d)	<= 15 Milligrams per Liter (mg/L)	See Footnote <sup>[1]</sup>	002	Daily When Discharging	DISCRT

**Notes (Discharge Limitations Table):**

1. Samples shall be collected at the over flow box at Outfall 002.
2. Read this limit as <25% change from natural conditions.
3. The sample used to determine natural conditions shall be taken from the Truckee River upstream from Outfall 001.

**Rationale for Permit Requirements:**

Monitoring in accordance with the permit requirements will assess the quality of any water discharged and will ensure that the water quality of the Truckee River is not degraded. Water quality standards listed in NAC 445A.1686 for maintenance of existing higher quality waters (RMHQ) have been applied to Outfall 002 for those constituents that might be affected by treatment procedures at the facility.

**Total Residual Chlorine:**

The chlorine residual limit of 0.10 mg/l is generally adhered to for all discharges to the Truckee River that are applicable. It is expected that residual chlorine discharged into the river will be rapidly chemically consumed by organic material within the river, thereby further lowering the estimated chlorine level and further reducing the likelihood of impact to aquatic organisms. Historic data shows that chlorine concentrations in discharge events have been below both the chronic and acute exposure criteria for aquatic organisms.



**Special Conditions:**

## SA – Special Approvals / Conditions Table

There are no Special Approval / Condition items
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**Flow:**

The Permittee is required to monitor and report the flow of discharge events.

**Corrective Action Sites:**

There are six corrective actions sites within one mile of the discharge location. No negative impacts to these sites are expected as a result of discharges authorized by this permit.

**Wellhead Protection Program:**

Because discharges are infrequent and have not exceeded the Water Quality Standards for Beneficial Uses (including municipal supply), negative impacts to nearby wells are not expected as a result of discharges authorized by this permit.

**Schedule of Compliance:**

SOC – Schedule of Compliance Table

There are no Schedule of Compliance items
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**Deliverable Schedule:**

DLV– Deliverable Schedule for Reports, Plans, and Other Submittals

Item #	Description	Interval	First Scheduled Due Date
1	Annual Report	Annually	1/28/2016
2	Quarterly Report	Quarterly	1/28/2016

**Procedures for Public Comment:**

The Notice of the Division's intent to issue a permit authorizing the facility to discharge to surface waters of the State of Nevada 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 until 5:00 P.M. **10/14/2015**, a period of 30 days following the date of the public notice. The comment period can be extended at the discretion of the Administrator.

A public hearing on the proposed determination can be requested by the applicant, any affected State, any affected interstate agency, the Regional Administrator of EPA Region IX 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 determined to be appropriate. All public hearings must be conducted to 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 issue / re-issue the proposed 5-year permit.

Prepared by: **Peter Lassaline**

Date: **9/9/2015**

Title: **Environmental Scientist**