



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

**Permittee Name:** SWITCH  
1 SUPERLOOP CIRCLE  
MCCARRAN, NV 89437

**Permit Number:** NS2024517

**Permit Type:** GROUNDWATER DISCHARGE

**Designation:** GROUNDWATER

**New/Existing:** NEW

**Location:** SWITCH, LTD., STOREY  
1 SUPERLOOP CIRCLE, MCCARRAN, NV 89434  
LATITUDE: 39.538120, LONGITUDE: -119.490440  
TOWNSHIP: T19N, RANGE: R22E, SECTION: S03N

Outfall / Well Num	Outfall / Well Name	Location Type	Well Log Num	Latitude	Longitude	Receiving Water
001	RECLAIMED WATER FOR COOLING TOWERS	Internal Outfall		39.5141	-119.4758	N/A

**Permit History/Description of Proposed Action**

The Permittee, Switch, has applied for a new individual groundwater discharge permit, NS2024517, for their facility located at 1 Superloop Circle in McCarran, Nevada. The Permittee proposes to use reclaimed water, provided by the Tahoe Reno Industrial General Improvement District (TRI-GID) (permit NS2000502), for their onsite cooling towers to help moderate the temperature of process equipment. The cooling tower blow down water will be discharged back to TRI-GID's wastewater treatment facility for treatment making this a zero-discharge permit (e.g., no discharges to groundwater or surface water of the State).

**Facility Overview**

The Switch facility, an advanced data center, is located on a 2,000-acre campus within the Tahoe Reno Industrial Center and is currently comprised of 1.3 million square feet of data center space. As an advanced data center, the facility requires specific heating and cooling requirements to ensure critical information technology (IT) infrastructure does not malfunction. To assist with the cooling process, the Permittee is proposing to use reclaimed water from TRI-GID's wastewater treatment facility.

TRI-GID provides secondary treated and disinfected effluent which meets Category B bacteriological quality per the Nevada Administrative Code (NAC) 445A.276. Reclaimed water will be used in Switch's onsite cooling towers to help moderate the temperature of process equipment.

It is estimated that approximately 60 percent of the water used in the cooling towers will be lost to evaporation. Any water not lost to evaporation will be discharged directly to TRI-GID's reservoir. The

cooling towers have a maximum water demand of 3,971 gallons per minute (gpm) or 5.7 million gallons per day (MGD). The Permittee has requested a daily maximum flow rate of 7.0 MGD which includes a 10 percent factor for an increase for variability in estimates.

### **Outfall Summary**

Outfall 001 – This outfall is for the use of reclaimed water within the onsite cooling towers.

### **Effluent Characterization**

The reclaimed water supplied by TRI-GID's wastewater treatment facility is secondary treated and disinfected which meets Category B bacteriological quality per NAC 445A.276.

The cooling tower blow down water will be discharged directly to TRI-GID's reservoir making this a no discharge permit (e.g., no discharges to groundwater or surface water of the State).

### **Pollutants of Concern**

Pollutants of concern are any pollutant, or parameters, that are believed to be present in the discharge and could affect or alter the physical, chemical, or biological conditions of the receiving water. A pollutant of concern for the use of reclaimed water for cooling towers is fecal coliform.

### **Receiving Water**

Receiving water is TRI-GID's reservoir via underground infrastructure. There will be no discharges from Switch's facility to groundwater or surface water of the State.

### **Compliance History**

This is a new permit.

### **Proposed Effluent Limitations**

The use of reclaimed water for cooling towers shall be limited and monitored by the Permittee as specified below:

**Re-use Discharge Limitations Table for Sample Location 001 (Reclaimed Water For Cooling Towers) To Be Reported Monthly**

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Flow rate	Daily Maximum	<= 7.0 Million Gallons per Day (Mgal/d)		Internal Monitoring Point	001	Continuous	METER
Flow rate	30 Day Average	M&R Million Gallons per Day (Mgal/d)		Internal Monitoring Point	001	Continuous	METER
Coliform, fecal general	Daily Maximum	<= 23 Colony Forming Units (CFU) [1]		Internal Monitoring Point <sup>[2]</sup>	001	Monthly	DISCRT
Coliform, fecal general	30 Day Geometric Mean	<= 2.2 Colony Forming Units (CFU) [1]		Internal Monitoring Point <sup>[2]</sup>	001	Monthly	DISCRT

Notes (Re-use Discharge Limitations Table):

1. CFU / 100 mL or MPN / 100 mL.
2. Samples shall be obtained prior to the reclaimed water entering the cooling towers but after the reclaimed water leaves TRI-GID's reservoir.

**Summary of Changes From Previous Permit**

This is a new permit.

**Technology Based Effluent Limitations**

Technology based effluent limitations are not applicable to this permit.

**Water Quality Based Effluent Limitations**

Water quality based effluent limitations are not applicable to this permit.

**Basis for Effluent Limitations**

As stated above, the Permittee proposes to use reclaimed water from TRI-GID's wastewater treatment facility as cooling water at their facility. Reclaimed water provided by TRI-GID meets Category B bacteriological quality per NAC 445A.276. Per NAC 445A.2764, Category B reclaimed water may be used for cooling water in an industrial process. The proposed permit establishes the requirement for fecal coliform to be monitored to assess the quality of reclaimed water being used and for the protection of human health and the environment and to ensure Category B bacteriological quality, or higher, is being maintained. Additionally, the Permittee acknowledges that their proposal to use reclaimed water for their cooling system will not violate NAC 445A.275.2, which states that, "A person shall not use reclaimed water for maintaining a controlled temperature and humidity environment if air that contacts the reclaimed water is delivered to an area that may be occupied."

**Anti-backsliding**

To prevent backsliding, effluent limitations in reissued permits are required to be as stringent as those in the previous permit. As this is a new permit, anti-backsliding requirements are not required.

**Antidegradation**

The Division has developed an antidegradation regulation that is applied on a statewide basis, and which meets the statutory requirements of Nevada’s water pollution control law found at Nevada Revised Statute (NRS) 445A.520 and NRS 445A.565 and is consistent with the federal antidegradation policy found at Title 40 in the Code of Federal Regulations (CFR) § 131.12. The objective of the Division’s antidegradation regulation is to protect water quality of the associated beneficial uses of Nevada’s surface waters and maintain the unique attributes and special characteristics and values associated with high-quality waters.

As there will be no discharges to groundwater, or surface water, an antidegradation review is not applicable.

**Special Conditions**

See the Special Approvals / Conditions Table below.

SA – Special Approvals / Conditions Table

Item #	Description
1	The Permittee shall not violate NAC 445A.275.2, which states that, “A person shall not use reclaimed water for maintaining a controlled temperature and humidity environment if air that contacts the reclaimed water is delivered to an area that may be occupied.”
2	The Permittee shall implement appropriate Best Management Practices (BMPs) to reduce the likelihood of legionella from occurring in the cooling towers.

**Discharges From Future Outfalls/ Planned Facility Changes**

The Permittee plans to expand the facility to a total of 7.2 million square feet in the future which may require an increase in the use of reclaimed water.

**Corrective Action Sites**

There are no active Bureau of Corrective Actions sites located within a one-mile radius of the facility.

**Wellhead Protection Program**

The nearest Public Water Supply (PWS) well is located approximately 2,250 feet to the north of the facility. There are more PWS wells located to the north of the facility. The facility is located within a Drinking Water Protection Area which is defined by a 3,000-foot radius around a PWS well. The facility is not located within a Wellhead Protection Area which represents an approximate 10-year capture zone of a well. The Division does not anticipate the PWS wells to be impacted as a result of the use of reclaimed water within the cooling towers as discharges from the towers will be directed to TRI-GID's reservoir.

**Schedule of Compliance:**

SOC – Schedule of Compliance Table

Item #	Description	Due Date
1	All Discharge Monitoring Reports (DMRs) shall be submitted electronically through the Nevada NetDMR website <a href="https://netdmr.ndep.nv.gov/netdmr/public/home.htm">https://netdmr.ndep.nv.gov/netdmr/public/home.htm</a> .	10/28/2026
2	The Permittee shall submit to the Division, for review and approval, two copies (one electronic and one hard copy) of an Operation and Maintenance (O&M) Manual. The O&M Manual shall be prepared in accordance with WTS-2: <i>Minimum Information Required for an Operation and Maintenance Manual</i> . Additionally, the O&M Manual shall be wet-stamped and prepared by a Nevada registered Professional Engineer. Furthermore, the O&M Manual shall include information on Best Management Practices (BMPs) to prevent <i>Legionella</i> from occurring in the cooling towers.	11/1/2026
3	The Permittee shall submit to the Division, for review and approval, two copies (one electronic and one hard copy) of a Reclaimed Water Management Plan (RWMP). The RWMP shall be prepared in accordance with WTS-1B: <i>General Criteria for Preparing a Reclaimed Water Management Plan</i> . Furthermore, the RWMP shall be wet-stamped and prepared by a Nevada registered Professional Engineer.	11/1/2026

**Deliverable Schedule:**

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

Item #	Description	Interval	First Scheduled Due Date
1	Quarterly DMRs	Quarterly	10/28/2026

**Procedures for Public Comment:**

The Notice of the Division's intent to issue a permit authorizing the facility to discharge to groundwater of the State of Nevada subject to the conditions contained within the permit, is being mailed to interested persons on our mailing list and will be posted on our website at <https://ndep.nv.gov/posts>. Anyone wishing to comment on the proposed permit can do so in writing until 5:00 P.M. **7/13/2026**, 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 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 issue/re-issue the proposed 5-year permit.

Prepared by: **Bonnie Hartley**

Date: **6/9/2026**

Title: **Staff II, Associate Engineer**