



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

**Permittee Name:** NEVADA DIVISION OF STATE PARKS / LAKE TAHOE NEVADA STATE PARK  
PO BOX 6116  
INCLINE VILLAGE, NV - 89450

**Permit Number:** NS0097017

**Location:** SPOONER LAKE STATE PARK WASTEWATER TREATMENT PLANT,  
DOUGLAS  
1/4 MILE NORTH OF JUNCTION US 50 AND HIGHWAY 28 ON HIGHWAY 28,  
GLENBROOK, NV - 89452  
LATITUDE: 39.103333, LONGITUDE: -119.913056  
TOWNSHIP: 14N, RANGE: 18E, SECTION: 1

Outfall / Well Num	Outfall / Well Name	Location Type	Well Log Num	Outfall City	Outfall State	Outfall Zip	Outfall County	Latitude	Longitude	Receiving Water
001	EFFLUENT EXPORT PIPELINE	External Outfall		GLENBROOK	NV	89452	DOUGLAS	39.103333	-119.913056	GROUNDWATER

**General:**

The Nevada Division of State Parks' Lake Tahoe Nevada State Park has applied for the renewal of permit NS0097017 for the Spooner Lake State Park Wastewater Treatment Plant (WWTP). Spooner Lake State Park is a 13,400-acre recreational area located on State Route 28, ¼ mile north of U.S. 50 (Spooner Junction) in Douglas County, Nevada. Domestic (sanitary) wastewater generated at the Spooner Lake State Park restroom facility and RV volunteer site is treated on-site in a Cromaglass Corporation CA-30 package WWTP. The WWTP is designed to treat up to 3,000 gallons per day (gpd) through screening, aeration, secondary clarification, and disinfection. Treated effluent from the WWTP is pumped to the Incline Village General Improvement District Effluent Export Pipeline, which supplies effluent to various reuse sites in Douglas County, including Schneider Ranch (NS0098013), Incline Village Wastewater Reclamation Facility (NS0030009), Kirman Tract Field (NS2002505), and Clear Creek Golf Course (NS2010509). Although Spooner Lake State Park is operated year-round, the inflow to the WWTP is variable, with higher flows typically occurring during weekends and summers (July – October).

**Discharge Characteristics:**

The following average effluent characteristics were calculated from the daily maximum values reported between the third quarter of 2012 and the second quarter of 2015 for the Spooner Lake State Park WWTP discharge:

- Flow Rate: 0.0006 MGD
- Biochemical Oxygen Demand: 39 mg/L
- Total Suspended Solids: 44 mg/L
- Total Phosphorus: 12.5 mg/L
- Total Dissolved Solids: 488 mg/L
- Chlorine Residual: 11.7 mg/L
- Fecal Coliform: 11 c.f.u. or mpn/100mL
- Ammonia as Nitrogen: 44.1 mg/L
- Nitrate: 7.2 mg/L
- Dissolved Oxygen: 2.2 mg/L

pH: 7.57 standard units

**Receiving Water:**

The receiving water is groundwater of the State underlying the following reuse sites:

Schneider Ranch (NS0098013)  
Incline Village Wastewater Reclamation Facility (NS0030009)  
Kirman Tract Field (NS2002505)  
Clear Creek Golf Course (NS2010509)

**Summary of Changes From Previous Permit:**

The following three mechanical changes were made to the WWTP:

- In May 2009, the WWTP was upgraded from a Cromaglass C-12 to a Cromaglass CA-30, which increased the WWTP capacity from 1,200 gpd to 3,000 gpd.
- In June 2011 and July 2014, the WWTP's programmable logic controller was upgraded.
- The alarm system was upgraded.

The daily maximum flow rate has been limited to 0.0015 million gallons per day (MGD). This limit is based on the daily maximum flow limit requested in the permit renewal application.

Due to the new naming conventions at the Nevada Division of Environmental Protection (NDEP), Bureau of Water Pollution Control, the permit number has been changed from NEV97017 to NS0097017. This change does not reflect a change in the type of permit being issued.

**Proposed Effluent Limitations:**

The discharge shall be limited and monitored by the Permittee as specified below:

### WWTP Discharge Limitations Table for Sample Location 001 (Effluent Export Pipeline) To Be Reported Monthly

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Flow rate	Daily Maximum	<= 0.0015 Million Gallons per Day (Mgal/d)		Effluent Gross	001	Continuous	METER
Flow rate	30 Day Average	<= 0.0012 Million Gallons per Day (Mgal/d)		Effluent Gross	001	Continuous	METER
BOD, 5-day	Daily Maximum		<= 45 Milligrams per Liter (mg/L)	Effluent Gross	001	Monthly	COMPOS
BOD, 5-day	30 Day Average		<= 30 Milligrams per Liter (mg/L)	Effluent Gross	001	Monthly	COMPOS
Solids, total suspended	Daily Maximum		<= 45 Milligrams per Liter (mg/L)	Effluent Gross	001	Monthly	COMPOS
Solids, total suspended	30 Day Average		<= 30 Milligrams per Liter (mg/L)	Effluent Gross	001	Monthly	COMPOS
Phosphorus, total (as P)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	001	Monthly	COMPOS
Phosphorus, total (as P)	30 Day Average		M&R Milligrams per Liter (mg/L)	Effluent Gross	001	Monthly	COMPOS
Solids, total dissolved	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	001	Monthly	COMPOS
Solids, total dissolved	30 Day Average		M&R Milligrams per Liter (mg/L)	Effluent Gross	001	Monthly	COMPOS
Chlorine, total residual	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	001	Monthly	DISCRT
Chlorine, total residual	30 Day Average		M&R Milligrams per Liter (mg/L)	Effluent Gross	001	Monthly	DISCRT
Coliform, fecal, colony forming units	Daily Maximum		<= 240 Colony Forming Units per 100ml T (CFU/100mL) <sup>[1]</sup>	Effluent Gross	001	Monthly	DISCRT
Coliform, fecal, colony forming units	30 Day Average		<= 23 Colony Forming Units per 100ml T (CFU/100mL) <sup>[1]</sup>	Effluent Gross	001	Monthly	DISCRT
Nitrogen, ammonia total (as N)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	001	Monthly	COMPOS

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Nitrogen, ammonia total (as N)	30 Day Average		M&R Milligrams per Liter (mg/L)	Effluent Gross	001	Monthly	COMPOS
Nitrogen, nitrate total (as N)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	001	Monthly	COMPOS
Nitrogen, nitrate total (as N)	30 Day Average		M&R Milligrams per Liter (mg/L)	Effluent Gross	001	Monthly	COMPOS
Oxygen, dissolved (DO)	Daily Minimum		>= 2.0 Milligrams per Liter (mg/L)	Effluent Gross	001	Monthly	DISCRT
pH, minimum	Daily Minimum		>= 6.0 Standard Units (SU)	Effluent Gross	001	Monthly	DISCRT
pH, maximum	Daily Maximum		<= 9.0 Standard Units (SU)	Effluent Gross	001	Monthly	DISCRT

Notes (WWTP Discharge Limitations Table):

1. Fecal coliform may be reported in CFU/100mL or MPN/100mL.

### Rationale for Permit Requirements:

The permit limits reflect secondary treatment standards and have been established to ensure that the groundwater underlying each reuse site is not degraded by the discharge.

### Fecal Coliform:

Daily Maximum  $\leq$  240 c.f.u. or mpn/100mL

30-Day Average  $\leq$  23 c.f.u. or mpn/100mL

**Special Conditions:**

Substantial compliance with the current permit is a condition of permit renewal.

**SA – Special Approvals / Conditions Table**

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

Daily Maximum Flow Rate  $\leq$  0.0015 MGD

30-Day Average Flow Rate  $\leq$  0.0012 MGD

**Corrective Action Sites:**

There are no Bureau of Corrective Actions remediation sites located within a one-mile radius of the Spooner Lake State Park WWTP.

**Wellhead Protection Program:**

The Spooner Lake State Park WWTP is not located within a Wellhead Protection Area but is located within the 3,000-ft Drinking Water Protection Area (DWPA) for one well. The permitted discharge activity is not expected to negatively impact the DWPA.

**Schedule of Compliance:**

SOC – Schedule of Compliance Table

Item #	Description	Due Date
1	The Permittee shall submit an updated Operations & Maintenance (O&M) Manual to the Division. The O&M Manual shall be prepared by a qualified person in accordance with guidance document <i>WTS-2: Minimum Information Required for an Operation and Maintenance Manual for a Wastewater Treatment Plant</i> . If the Permittee determines that no updates to the O&M Manual are necessary, the Permittee shall submit, in lieu of an updated O&M Manual, a letter to the Division stating that no changes to the existing O&M Manual have been made.	5/28/2016

**Deliverable Schedule:**

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

Item #	Description	Interval	First Scheduled Due Date
1	Quarterly Discharge Monitoring Report	Quarterly	4/28/2016
2	Annual Report	Annually	1/28/2017

**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 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. **1/15/2016**, 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: **Alan Pineda**

Date: **11/20/2015**

Title: **Staff I Associate Engineer**