FACTSHEET
(pursuant to NAC 445A.236)

Permittee Name: TOWN OF PAHRUMP

400 NV-160
PAHRUMP, NV 89060

Permit Number: NS2004518

Permit Type: GROUNDWATER DISCHARGE

Designation: GROUNDWATER

New/Existing: EXISTING

Location: LAKEVIEW EXECUTIVE GOLF COURSE, NYE
1471 MT. CHARLESTON DRIVE, PAHRUMP, NV 89048
LATITUDE: 36.179025, LONGITUDE: -115.987783
TOWNSHIP: 20 S, RANGE: 53 E, SECTION: 26

Outfall / Well Num	Outfall / Well Name	Location Type	Well Log Num	Latitude	Longitude	Receiving Water
001	GOLF COURSE	External Outfall		36.179025	-115.987783	GROUNDWATER

Permit History/Description of Proposed Action
The Permittee, Town of Pahrump, has applied for the renewal of Permit NS2004518 for the Lakeview Executive Golf Course (LEGC), located at 1471 Mt. Charleston Drive, in Pahrump, within Nye County, Nevada. The Permittee proposes to continue to use reclaimed water to irrigate golf course landscaping and fill associated pond areas falling within the course's boundary.

This permit was first issued on May 16, 2005. The most recent permit was issued on January 1, 2017, and expired on December 31, 2021; the permit has been administratively continued since.

Facility Overview
The LEGC is composed of a clubhouse, pro shop, and 18-hole course, with common areas encompassing approximately 58 acres total. The golf course is irrigated with reclaimed water supplied by the Great Basin Water Company's (GBWC) Wastewater Treatment Plant #3 (WWTP #3) (permit NS0089063). The LEGC will be authorized to use reclaimed water for the irrigation of the golf course, green belt areas, and pond maintenance.

The reclaimed water is brought into the LEGC via connection to the GBWC WWTP #3's reclaimed water transmission main, that travels from the treatment plant, through "The Property" site (permit NS2005503), then through a 10"-diameter PVC lateral that discharges into the emulsified soil sealed Pond No. 17, and then gravity flows into the un-lined Main Pond, with a third un-lined pond, Pond No. 1, serving for backup storage. There are six (6) ponds total at the golf course, with only two (Pond 17 and Main Pond) being connected to the irrigation system. A vault containing a gate valve and flow meter measures the amount of reclaimed water entering the golf course. The pumps that deliver the reclaimed water to the sprinkler system are in a small block building adjacent to the Main Pond. The remaining unlined storage ponds, Ponds 5, 7, and 11 can be used for additional water storage during years of above average precipitation,

but are not interlinked to the irrigation system.

There is also a supplemental irrigation well located near the clubhouse, not connected to any potable water systems, that can be utilized as needed. It is tied directly to the Main Pond.

Irrigation is done at night with the public being restricted from entering the site during that time.

The site's Reclaimed Water Management Plan (RWMP) (formerly known as an Effluent Management Plan) was last reviewed and approved by the Division on January 26, 2015. The Technical, Compliance, and Enforcement (TCE) Branch of the Bureau of Water Pollution Control requires RWMPs be updated every two (2) permit cycles which equates to every ten (10) years with an updated RWMP due three months after the permit issuance date.

Outfall Summary
Outfall 001 – This external outfall is for the discharge of reclaimed water for irrigation of the golf course.

Effluent Characterization
Nevada State Network Discharge Monitoring Report (NetDMR) data, as reported from December 2019 to November 2024, was reviewed as part of this permit renewal process. The long-term average discharge flow rate for Outfall 001 was 0.37 million gallons per day (MGD). The daily maximum discharge flow rate for Outfall 001 is limited to 0.60 MGD. There were no reported exceedances of this limit.

The GBWC WWTP #3 provides tertiary treated, denitrified, and disinfected reclaimed water which meets Category B bacteriological quality per Nevada Administrative Code (NAC) 445A.276 to the LEGC; therefore, the reclaimed water should meet, at a minimum, a daily maximum fecal coliform of 23 colony forming units (CFU) / 100 mL and a 30-day geometric mean of 2.2 CFU / 100 mL. The long-term average for the daily maximum fecal coliform reported was 3.41 CFU / 100 mL. There were three (3) reported instances of the daily maximum fecal coliform being over 23 CFU / 100 mL. There was also one (1) reported instance of the 30-day geometric mean being over 2.2 CFU / 100 mL.

A parameter for nitrogen shall be added to the permit during this renewal cycle to adhere to current Division reporting standards.

Pollutants of Concern
Pollutants of concern are any pollutants or parameters that are believed to be present in the discharge and could affect or alter the physical, chemical, or biological condition of the receiving water. Common pollutants of concern for denitrified reclaimed water are fecal coliform and total nitrogen.

Receiving Water
The receiving water is groundwater of the State. Groundwater levels average about 48 feet below ground surface. No adverse effects to groundwater are expected to occur as a result of this effluent reuse.

Compliance History
The site has been in substantial compliance during the December 2019 through November 2024 reporting period.

Proposed Effluent Limitations
The discharge shall be limited and monitored by the Permittee as specified below.

Re-use Discharge Limitations Table for Sample Location 001 (Golf Course-External Outfall) To Be Reported Monthly

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Coliform, fecal general	30 Day Geometric Mean		<= 2.2 Colony Forming Units per 100ml T (CFU/100mL)[1]	Prior to Reuse	001	Weekly	DISCRT
Coliform, fecal general	Daily Maximum		<= 23 Colony Forming Units per 100ml T (CFU/100mL)[1]	Prior to Reuse	001	Weekly	DISCRT
Flow rate	30 Day Average	M&R Million Gallons per Day (Mgal/d)		Prior to Reuse	001	Continuous	METER
Flow rate	Daily Maximum	<= 0.6 Million Gallons per Day (Mgal/d)		Prior to Reuse	001	Continuous	METER
Nitrogen, total[2]	Daily Maximum		<= 10 Milligrams per Liter (mg/L)	Prior to Reuse	001	Weekly	DISCRT

Notes (Re-use Discharge Limitations Table):

1. CFU or MPN/100 mL.
2. Sample results to be collected from NS0089063 and reported by Permittee.

Re-use Discharge Limitations Table for Sample Location 001 (Golf Course-External Outfall) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Nitrogen, total	Annual Mass Loading	M&R Pounds per Year (lb/yr)[1]		Prior to Reuse	001	Annual	CALCTD
Nitrogen, total[2]	Minimum Value		M&R Percent (%)	Prior to Reuse	001	Annual	CALCTD

Notes (Re-use Discharge Limitations Table):

1. To be reported as pounds per acre per year (lbs/acre/year), refer to Page 20 of WTS-1B: General Criteria for Preparing a Reclaimed Water Management Plan. This formula is below:
   Effluent N Applied = (MGD Applied x Effluent N Conc. (mg/L) x 8.34 x #days/mo.) ÷ # Acres
2. Report the percentage of nitrogen uptake. Refer to Technical Sheets WTS1B: General Criteria for Preparing a Reclaimed Water Mangement Plan and WTS-1C Nutrient Management for Reuse & Biosolids Sites.

Summary of Changes From Previous Permit

Reuse Discharge Limitations Table for Sample Location 001 To Be Reported Monthly.

The Coliform parameters were updated from "Monthly" measurement frequencies, to "Weekly" measurement frequencies.

The Flow Rate parameters were updated from a "Monthly" measurement frequencies, to "Continuous" measurement frequencies.

The parameter, "Nitrogen, total" was added, with a "Daily Maximum" base, a "less than or equal to 10 mg/L" concentration, a "Prior to Reuse" monitoring location, a "weekly" measurement frequency, and a "Discrt" sample type.

The footnote, “CFU or MPN/100 ml.” was added to the table for the concentration units for Coliform, fecal general under the monthly reporting.

Reuse Discharge Limitations Table for Sample Location 001 To Be Reported Annually

Annualized reporting was added to Outfall 001 with the following two parameters:

Discharge parameter for Total Nitrogen, with an “Annual Mass” Loading base, a “Monitor & Report (M&R)” quantity, a “Pounds per Year (lb/yr)’ quantity unit, “Prior to Reuse” monitoring location, an “Annual” measurement frequency, and a “Calctd” sample type.

Discharge parameter for Total Nitrogen, with a “Minimum Value” base, an “M&R Percent (%)” concentration, a “Prior to Reuse” monitoring location, an “Annual” measurement frequency, and a “Calctd” sample type.

Along with the following footnotes:
1. To be reported as pounds per acre per year (lbs/acre/year), refer to Page 20 of WTS1B: General Criteria for Preparing a Reclaimed Water Management Plan. This formula is below:
Effluent N Applied = (MGD Applied x Effluent N Conc. (mg/L) x 8.34 x #days/mo.) ÷ # Acres.

2. Report the percentage of nitrogen uptake. Refer to Technical Sheets WTS1B: General Criteria for Preparing a Reclaimed Water Management Plan and WTS1C Nutrient Management for Reuse & Biosolids Sites.

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.

Proposed Water Quality Based Effluent Limits (monthly/weekly/daily)
Water quality based effluent limitations are not applicable to this permit.

Basis for Effluent Limitations
Fecal coliform is required to be monitored to assess the quality of reclaimed water being applied and for the protection of human health and the environment.

The proposed permit establishes the requirement to report the total nitrogen applied to ensure groundwater of the State is not being degraded.

The proposed permit establishes the requirement to report the total nitrogen uptake to ensure groundwater of the State is not being degraded.

Anti-backsliding
None of the proposed permit limits were changed to a less restrictive limit compared to those in the previous permit.

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 prevent degradation of Nevada's surface waters and maintain the unique attributes and special characteristics and water quality associated with high-quality waters.

As this permit is for discharges to groundwater, and not surface water, the new antidegradation rule is not applicable. There are currently no specific water quality standards that have been formally adopted by the State for groundwater, however, data reviewed during the renewal process does not indicate the potential for degradation of the groundwater from the reclaimed water discharged within the compliance limits of the proposed permit.

Special Conditions
There are no Special Approvals/Conditions applicable to this permit.

SA – Special Approvals / Conditions Table

There are no Special Approval / Condition items

Discharges From Future Outfalls/ Planned Facility Changes
The Permittee does not anticipate any discharges from any future outfalls or any other changes to the facility.

Corrective Action Sites
There are no Bureau of Corrective Actions remediation sites located within a one-mile radius of the reuse site.

Wellhead Protection Program
The outfalls are not located within a Wellhead Protection Area, which represents an approximate 10-year

capture zone of a well, or within a Drinking Water Protection Area, which is defined by a 3,000-foot radius around a PWS well.

Schedule of Compliance:

SOC – Schedule of Compliance Table

Item #	Description	Due Date
1	The Permittee shall submit two (2) copies (one hard copy and one electronic copy) of a Reclaimed Water Management Plan (RWMP) to the Division for review and approval. The RWMP shall follow guidance document WTS1B: General Design Criteria for Preparing a Reclaimed Water Management Plan.	8/1/2025

Deliverable Schedule:

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

Item #	Description	Interval	First Scheduled Due Date
1	Quarterly DMRs	Quarterly	7/28/2025
2	Annual Report	Annually	1/28/2026

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. **4/21/2025,** 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: **Melissa Hanson**
Date: **3/12/2025**
Title: **Staff II Engineer**