



FACTSHEET
(pursuant to NAC 445A.236)

Permittee Name: SPANISH TRAIL COUNTRY CLUB
5050 SPANISH TRAIL LANE
LAS VEGAS, NV 89113

Permit Number: NS2002512

Permit Type: GROUNDWATER DISCHARGE

Designation: GROUNDWATER

New/Existing: EXISTING

Location: SPANISH TRAIL GOLF COURSE, CLARK
5050 SPANISH TRAIL LANE, LAS VEGAS, NV 89113
LATITUDE: 36.09710950, LONGITUDE: -115.254328
TOWNSHIP: T21S, RANGE: R60E, SECTION: S27

Outfall / Well Num	Outfall / Well Name	Location Type	Well Log Num	Latitude	Longitude	Receiving Water
001	GOLF COURSE	External Outfall		36.09726480	-115.261520	GROUNDWATER

Permit History/Description of Proposed Action

The Permittee, Spanish Trail Country Club (STCC), has applied for the renewal of Permit NS2002512 for their golf courses, located at 5050 Spanish Trail Lane, in Las Vegas, Clark County, Nevada. The STCC's golf course property is composed of three 9-hole golf courses being the Sunrise, Lakes, and Canyon Courses. The Permittee proposes to continue to use reclaimed water to irrigate the three courses' landscaping and fill associated pond areas falling within their boundaries.

This permit was first issued on January 13, 2003. The most recent permit was issued on April 1, 2014, and expired on March 31, 2019; the permit has been administratively continued since.

Facility Overview

STCC is composed of a clubhouse and three 9-hole courses, with common areas encompassing approximately 198 acres total and is irrigated with reclaimed water supplied by the Desert Breeze Water Resources Center (DBRWC)(permit NS2001509).

The reclaimed water is delivered from DBWRC through a 20-inch diameter pipe into two reclaimed water pump stations, which are in the same building. The High Zone Effluent Pump Station supplies water to irrigate the tees, fairways and roughs of seven holes of the Canyon Course; and the greens, tees, fairways and roughs of seven holes on the Lakes Course. The Lower Zone Effluent Pump Station is used to irrigate the tees, fairways and roughs of two holes on the Canyon Course; the greens, tees, fairways and roughs of two holes on the Lakes Course; and the greens, tees, fairways and roughs for all nine holes of the Sunrise Course. Potable water is used exclusively to irrigate the putting greens and collars on the Canyon Course.

Potable water, from an independent pump station and distribution system, is used to serve the STCC's irrigation needs when the DBRWC is down, or an additional source is needed. Two separate systems serve the two types of irrigation water (potable and reclaimed) throughout the STCC property. These two

systems are direct fed from the associated treatment plant, either the DBWRC for the reclaimed system, or the Las Vegas Valley Water District (LVVWD) for the potable water system. The course is equipped with appropriate backflow prevention to prevent any cross-contamination between the two systems. The backflow system has an annual cross-control inspection performed, including a shutdown test, by an outside contractor.

The site's Reclaimed Water Management Plan (RWMP) (formerly known as an Effluent Management Plan) was last reviewed and approved by the Division on April 9, 2020. 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.

Outfall Summary

Outfall 001 - the external outfall is for the delivery of the reclaimed water from the DBWRC to the golf courses.

Effluent Characterization

Nevada State Network Discharge Monitoring Report (NetDMR) data, as reported from July 2019 to June 2024, was reviewed as part of this permit renewal process. There were no reported exceedances of either the average discharge flow rate, or maximum discharge, due to the DBWRC not having been in operation since 2018, with the golf course getting potable water from the Las Vegas Valley Water District. The daily maximum discharge flow rate for Outfall 001 is limited to 3.22 MGD.

When in operation, the DBWRC provides tertiary treated, denitrified, and disinfected reclaimed water which meets Category A bacteriological quality per Nevada Administrative Code (NAC) 45A.276 to the STCC; therefore, the reclaimed water should meet, at a minimum, a daily maximum total general coliform of 23 colony forming units (CFU) / 100 mL and a 30-day geometric mean of 2.2 CFU / 100 mL. There was no long-term average for the daily maximum fecal coliform reported due to the plant not being in operation.

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 total general coliform and total nitrogen.

Receiving Water

Receiving water is groundwater of the State. Depth to groundwater at the site is approximately 300 feet below ground surface (bgs). No adverse effects to groundwater are expected. Due to the depth to groundwater, monitoring wells are not required.

Compliance History

The facility was in substantial compliance during the July 2019 to June 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) To Be Reported Monthly

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Flow rate	30 Day Average	<= 2.4 Million Gallons per Day (Mgal/d)		Prior to Irrigation	001	Continuous	METER
Flow rate	Daily Maximum	<= 3.22 Million Gallons per Day (Mgal/d)		Prior to Irrigation	001	Continuous	METER
Coliform, total general ^[1]	30 Day Geometric Mean		<= 2.2 Colony Forming Units per 100ml T (CFU/100mL) ^[2]	Prior to Irrigation	001	Weekly	DISCRT
Coliform, total general ^[1]	Daily Maximum		<= 23 Colony Forming Units per 100ml T (CFU/100mL) ^[2]	Prior to Irrigation	001	Weekly	DISCRT
Nitrogen, total ^[1]	Daily Maximum		<= 10 Milligrams per Liter (mg/L)	Prior to Irrigation	001	Monthly	DISCRT

Notes (Re-use Discharge Limitations Table):

1. Sample results to be obtained from NS2001509 and reported by the Permittee.
2. CFU / 100 mL or MPN / 100 mL.

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

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

Notes (Re-use Discharge Limitations Table):

- Cumulative Annual Nitrogen Applied (pounds/acre/year). This includes all sources of nitrogen applied (e.g., fertilizer, etc.). 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
- Report the percentage of nitrogen uptake. Refer to the Division's Technical Sheets WTS1B: General Criteria for Preparing a Reclaimed Water Management Plan and WTS1C Nutrient Management for Reuse & Biosolids Sites.

Summary of Changes From Previous Permit

Updated datum coordinates to reflect actual locations of facility and outfall. See attached aerial.

Under the Re-Use Discharge Limitations Table the following items were either revised or removed:

The Nitrogen parameter, for the monthly average base, was removed.

The Nitrogen parameter, for the daily maximum base, had the concentration revised from "M & R (Monitor & Report)" to "10 Milligrams per Liter (mg/L)".

The Flow Rate parameter was changed from a "Monthly Average" base to a "30 Day Average" base for the 2.4 million gallons per day quantity.

The 30-Day Geometric Mean base, for Coliform, total general, was changed from "M & R" to "2.2 CFU/100mL" to match the requirements of NAC 445A.276.

The Daily Maximum base, for Coliform, total general, was changed from "M & R" to "23 CFU/100mL" to match the requirements of NAC445A.276.

An additional Re-Use Discharge Table for Outfall 001 to be reported annually was added with the two parameters listed below:

The Nitrogen parameter, with an "Annual Mass Loading" base, with a quantity of "M & R pounds per year" and a "Calctd" sample type was added.

The Nitrogen parameter, with a "Minimum Value" base, with a quantity of "M & R Percent (%)", and a "Calctd" sample type was added.

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

Anti-backsliding is not only for removing, or lessening, limits, it can also apply to the removal, or lessening, of the sampling frequency. The removal of the monthly average nitrogen sampling and reporting requirement is considered backsliding. However, the proposed permit will not be less restrictive by removing the monthly average nitrogen sampling and reporting requirement because the daily maximum nitrogen limit is 10 mg/L, which is more restrictive than just the requirement to monitor and report for the monthly average.

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 or conditions.

SA – Special Approvals / Conditions Table

There are no Special Approval / Condition items

Discharges From Future Outfalls/ Planned Facility Changes

There are no proposed discharges from future outfalls or planned facility changes.

Corrective Action Sites

There is one active Bureau of Corrective Actions (BCA) site located within a one-mile radius of the discharge location. The site (6-000317) had a confirmed release of gasoline from an underground storage tank. Due to the BCA site being downgradient from the golf course, there is no concern of any potential interaction.

Wellhead Protection Program

The nearest Public Water Supply (PWS) well is located approximately 3.7 miles to the north of the outfall. There are more wells located to the south and west of the outfall. The outfall is 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

There are no Schedule of Compliance items

Deliverable Schedule:

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

Item #	Description	Interval	First Scheduled Due Date
1	Quarterly Discharge Monitoring Reports	Quarterly	10/28/2025
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. **5/12/2025**, 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.

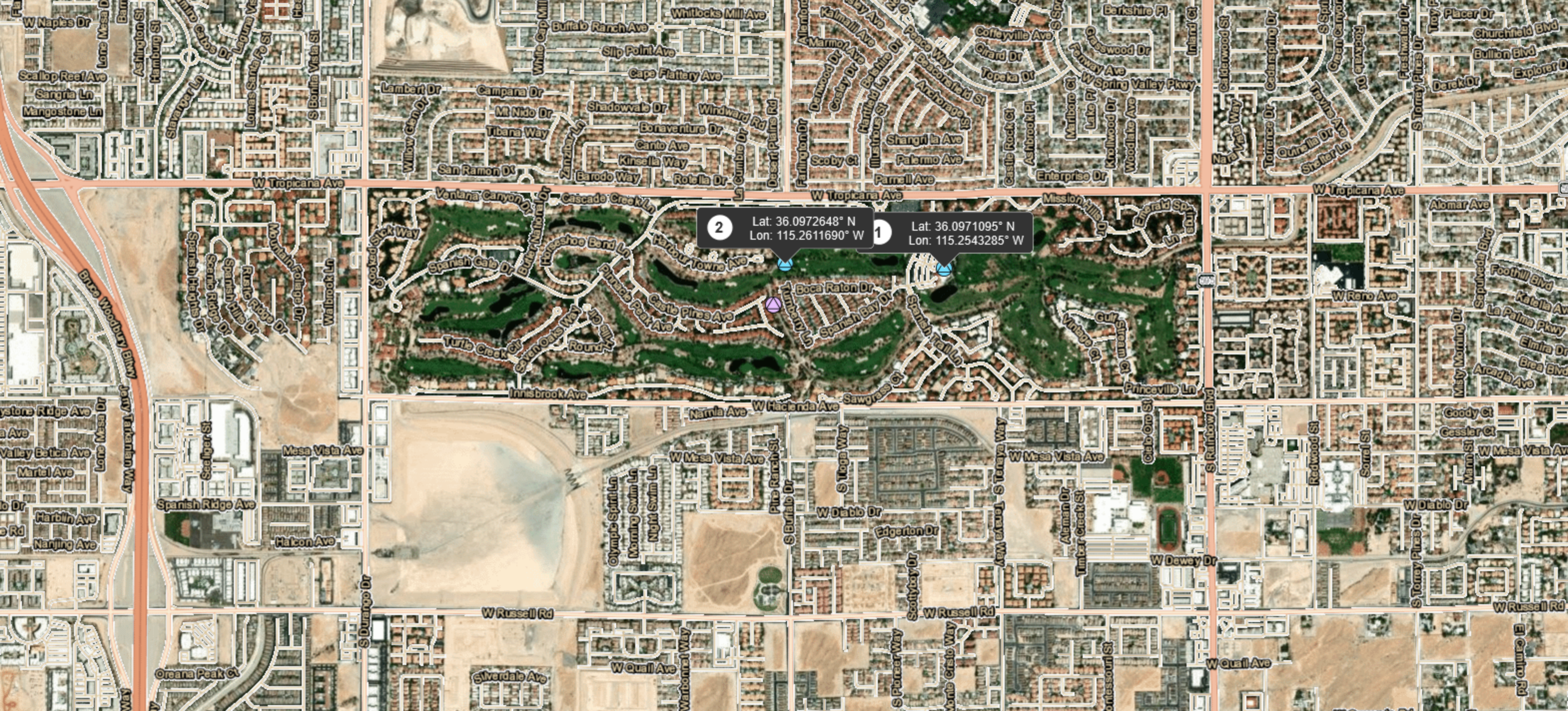
Proposed Determination:

The Division has made the tentative determination to issue/re-issue the proposed 5-year permit.

Prepared by: **Melissa Hanson**

Date: **4/1/2025**

Title: **Staff II Engineer**



2 Lat: 36.0972648° N
Lon: 115.2611690° W

1 Lat: 36.0971095° N
Lon: 115.2543285° W