



FACTSHEET
(pursuant to NAC 445A.236)

Permittee Name: RED ROCK COUNTRY CLUB
3054 RED SPRINGS DRIVE
LAS VEGAS, NV - 89135

Permit Number: NS2002517

Location: RED ROCK COUNTRY CLUB, CLARK
3054 RED SPRINGS DRIVE, LAS VEGAS, NV - 89135
LATITUDE: 36.125750, LONGITUDE: -115.342611
TOWNSHIP: 21 S, RANGE: 59 E, SECTION: 14

Outfall / Well Num	Outfall / Well Name	Location Type	Well Log Num	Outfall City	Outfall State	Outfall Zip	Outfall County	Latitude	Longitude	Receiving Water
001	GOLF COURSE	Land Application Site		LAS VEGAS	NV	89135	CLARK	36.125750	-115.342611	GROUNDWATER

General:

The Permittee, Red Rock Country Club, has applied for a renewal to operate two 18-hole golf courses, the Arroyo and the Mountain. The facility offices are located at 3054 Red Springs Drive, Las Vegas, Clark County, Nevada. This facility covers approximately 124 acres, of which 116 acres are fairways (turf) and 8 acres are greens. The facility uses combined treated effluent and potable water for spray and drip irrigation. The Arroyo Course utilizes four water features, and the Mountain Course utilizes three water features. All water features incorporate ultra-violet ozonation and/or chlorination water treatment systems to maintain lake clarity and water quality. Treated effluent meets Category A reuse bacteriological standards, pursuant to Nevada Administrative Code (NAC) 445A.2762

Discharge Characteristics:

The Red Rock Country Club receives tertiary treated, denitrified, disinfected effluent from the Desert Breeze Water Resource Center (DBWRC) wastewater treatment facility (WWTF) for irrigation of turf, greens and landscaped areas. The DBWRC is regulated under NDEP Permit NS2001509. The DBWRC recycled water is blended with potable water to provide the course with the volume of water required. The relative percentages of potable and recycled water vary with the seasonal irrigation demand.

Receiving Water:

Groundwater is estimated to be greater than 500 feet below ground surface, based on Las Vegas Valley Water District well logs. Groundwater is of potable quality. Groundwater flow direction is reported to be east-southeast. There are no monitoring wells required at this facility due to the depth to groundwater.

Summary of Changes From Previous Permit:

Due to a new permit naming convention at NDEP, Bureau of Water Pollution Control, the Red Rock Country Club permit ID has been changed from NEV2002517 to NS2002517. This change does not reflect a change in the type of permit being issued. NEV and NS permits are for groundwater discharges to the State of Nevada.

To remain consistent with current NDEP policy and requirements of similar re-use facilities, the following

items have been removed from the re-use discharge limitations table because they are accounted for within the reported Total Nitrogen value:

1. Nitrogen, Ammonia total (as N)
2. Nitrogen, Kjeldahl total (as N)
3. Nitrite plus Nitrate total 1 det. (as N)

The golf course acreage has been reduced from 309 Acres to 124 Acres.

The quantity of reclaimed water to be used has been reduced from 1,450 Acre-Feet per Year to 750 Acre-Feet per Year.

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 (Land Application Site) To Be Reported Monthly

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Coliform, total general ^[2]	Daily Maximum		M&R Colony Forming Units per 100ml T (CFU/100mL) ^[1]	Prior to Reuse	001	Weekly	DISCRT
Coliform, total general ^[2]	30 Day Average		M&R Colony Forming Units per 100ml T (CFU/100mL) ^[1]	Prior to Reuse	001	Weekly	DISCRT
Flow rate	Daily Maximum	<= 2 Million Gallons per Day (Mgal/d)		Prior to Reuse	001	Continuous	METER
Flow rate	30 Day Average	<= 1.5 Million Gallons per Day (Mgal/d)		Prior to Reuse	001	Continuous	METER
Nitrogen, total ^[2]	Monthly Maximum		M&R Milligrams per Liter (mg/L)	Prior to Reuse	001	Monthly	CALCTD

Notes (Re-use Discharge Limitations Table):

1. CFU or MPN/100 ml.
2. Reported sample results may be obtained from the DWBRC permit NS2001509.

Re-use Discharge Limitations Table for Sample Location 001 (Land Application Site) To Be Reported Annually

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

Notes (Re-use Discharge Limitations Table):

1. Total Nitrogen applied (pounds/acre/year).
2. Pounds **per Acre** per Year.

Rationale for Permit Requirements:

The limitations and monitoring requirements are intended to provide for appropriate reuse of treated effluent, to minimize the possibility of adverse impact to groundwaters of the State, and to alert those persons who might have contact with treated effluent to its presence at the facility.

Fecal Coliform:

2.2 CFU or MPN/100 ml (30-day average)

23 CFU or MPN/100 ml (daily maximum)

Special Conditions:

The Permittee shall be in substantial compliance upon issuance of the permit.

The total nitrogen applied (lbs/acre/year) shall not be greater than the maximum yearly nitrogen application defined in the EMP. If the Permittee determines that the calculated application rate has been exceeded during a calendar year, the Permittee shall prepare a report that includes an evaluation of the application rates in the EMP, an explanation of conditions that lead to the exceedance, and any planned changes the Permittee deems necessary. The evaluation shall be submitted in the Annual Report, with the fourth quarter DMRs.

SA – Special Approvals / Conditions Table

There are no Special Approval / Condition items

Flow:

1.5 MGD (30-Day Average)

2.0 MGD (Daily Maximum)

Corrective Action Sites:

There are no Bureau of Corrective Action remediation sites located within a one-mile radius from the center-point of the property.

Wellhead Protection Program:

The Red Rock Country Club golf courses, the Arroyo and the Mountain, are not located within a Drinking Water Protection Area or a Wellhead Protection Area.

Schedule of Compliance:

SOC – Schedule of Compliance Table

Item #	Description	Due Date
1	The Permittee shall provide the Division with two (2) copies of an updated Effluent Management Plan (EMP). The submitted EMP shall address any changes in the operations procedures, or equipment used at the permitted facility. The Permittee shall not reuse treated effluent prior to having an EMP, pursuant to NAC 445A.275. The EMP shall be prepared and stamped by a Nevada Registered Professional Engineer in accordance with guidance document WTS-1B: general criteria for preparing an effluent management plan.	1/1/2016

Deliverable Schedule:

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

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

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 **Las Vegas Review 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. **9/28/2015**, 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: **Alan Pineda**

Date: **8/25/2015**

Title: **Staff I Associate Engineer**