



FACTSHEET
(pursuant to NAC 445A.236)

Permittee Name: SUN CITY SUMMERLIN COMMUNITY ASSOCIATION, INC.
9350 SUNDIAL DRIVE
LAS VEGAS, NV - 89134

Permit Number: NS0099015

Location: SUN CITY SUMMERLIN GOLF COURSES, CLARK
9350 SUNDIAL DRIVE, LAS VEGAS, NV - 89134
LATITUDE: 36.204167, LONGITUDE: -115.302222
TOWNSHIP: 20 S, RANGE: 60 E, SECTION: 17

Outfall / Well Num	Outfall / Well Name	Location Type	Well Log Num	Outfall City	Outfall State	Outfall Zip	Outfall County	Latitude	Longitude	Receiving Water
001	RECLAIMED WATER - TOTAL	External Outfall		LAS VEGAS	NV	89134	CLARK	36.20	-115.30	GROUNDWATER
002	PALM VALLEY GOLF COURSE	Surface Disposal Site		LAS VEGAS	NV	89134	CLARK	36.20	-115.30	GROUNDWATER
003	EAGLE CREST GOLF COURSE	Surface Disposal Site		LAS VEGAS	NV	89134	CLARK	36.20	-115.30	GROUNDWATER
004	HIGHLAND FALLS GOLF COURSE	Surface Disposal Site		LAS VEGAS	NV	89134	CLARK	36.20	-115.20	GROUNDWATER

General:

The Applicant has applied for a renewal of permit NS0099015 to reuse tertiary treated, denitrified and disinfected wastewater effluent for irrigation of turf and landscaped areas of golf courses (approximately 458 acres) at three contiguous golf courses. The Palm Valley Golf Course, Eagle Crest Golf Course and Highland Falls Golf Course are contiguous golf facilities in the Sun City - Summerlin Master Planned Community. They all have coverage under permit NS0099015 because they abut each other and are all owned and operated by the same entity. The treated effluent supplied to the courses is treated and supplied by the Durango Hills Water Resource Center (DHWRC), Permit NS0098005. The three courses are limited by the permit to a total 30-day average flow of 5.89 million gallons per day (MGD). Both spray and drip irrigation will be used. The treated effluent will be blended with potable water supplied by the Las Vegas Valley Water District (LVVWD) to provide the courses with the volume of water required. The relative percentages of potable and recycled water will vary with the seasonal irrigation demand.

Discharge Characteristics:

Summerlin uses high quality disinfected reclaimed water from DHWRC to irrigate the golf courses. The 30-day average total coliform requirement is set at 2.2 colony forming units (CFU), or the most probable number (MPN)/100 mL of total coliform. This is Category A reuse water and, in accordance with NAC 445A.277, a buffer zone and control of public access are not required.

Receiving Water:

The receiving water is groundwater of the State. Groundwater in the vicinity of the courses is estimated to be 600 – 700 feet below land surface. This depth was determined from LVVWD Well #096, which is located approximately 1.5 miles from the courses. Groundwater flow direction is reported to be generally to the east. Due to the depth to groundwater, monitoring wells at the course are not required.

Summary of Changes From Previous Permit:

There have been minor changes from the previous permit. Reporting the concentration of the different types of nitrogen no longer is reported as this data is reported in DHWRC's Discharge Monitoring Reports (DMRs). The amount of nitrogen applied annually is also not necessary as the reuse is denitrified, which is less than 10 mg/L. NDEP also has a revised permit numbering system so the permit number has been changed from NEV99015 to NS0099015. The type of permit has not changed due to this revised numbering system.

The Permittee will have one year from the issuance of this permit to sign up to submit quarterly DMRs electronically using Net-DMR. The Bureau of Water Pollution Control's (BWPC) Nevada-NetDMR system is a web-based site that allows electronic submission of DMRs. Nevada-NetDMR enables a Permittee the ability to enter and electronically submit DMR data. By using Nevada-NetDMR, Permittees will save time, see a reduction in its paperwork burden, and data will automatically error-check and validate the information prior to submission. The system also allows electronic submittal of attachments and supplemental documentation and provides instant confirmation of submission.

Proposed Effluent Limitations:

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

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

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Coliform, total general	Daily Maximum		<= 23 Colony Forming Units per 100ml T (CFU/100mL)	Prior to Reuse	001	Weekly	DISCRT
Coliform, total general	30 Day Average		<= 2.2 Colony Forming Units per 100ml T (CFU/100mL) ^[1]	Prior to Reuse	001	Weekly	DISCRT
Flow rate ^[2]	30 Day Average	<= 5.89 Million Gallons per Day (Mgal/d)		Prior to Reuse	001	Monthly	CALCTD

Notes (Re-use Discharge Limitations Table):

1. CFU or MPN/100 ml.
2. The sum of the 30-day average flows for all three courses is 5.89 MGD, which is the maximum anticipated amount for the hot summer months.

Re-use Discharge Limitations Table for Sample Location 002 (Palm Valley Golf Course) To Be Reported Monthly

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Flow rate	Daily Maximum	<= 2.5 Million Gallons per Day (Mgal/d)		Prior to Reuse	002	Continuous	METER
Flow rate	30 Day Average	<= 2.29 Million Gallons per Day (Mgal/d)		Prior to Reuse	002	Continuous	METER

Re-use Discharge Limitations Table for Sample Location 003 (Eagle Crest Golf Course) To Be Reported Monthly

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Flow rate	Daily Maximum	<= 2.0 Million Gallons per Day (Mgal/d)		Prior to Reuse	003	Continuous	METER
Flow rate	30 Day Average	<= 1.38 Million Gallons per Day (Mgal/d)		Prior to Reuse	003	Continuous	METER

Re-use Discharge Limitations Table for Sample Location 004 (Highland Falls Golf Course) To Be Reported Monthly

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Flow rate	Daily Maximum	<= 2.5 Million Gallons per Day (Mgal/d)		Prior to Reuse	004	Continuous	METER
Flow rate	30 Day Average	<= 2.22 Million Gallons per Day (Mgal/d)		Prior to Reuse	004	Continuous	METER

Rationale for Permit Requirements:

Monitoring is required to ensure that groundwaters of the State of Nevada are not degraded. Monitoring is also required to assess the level of treatment being provided, and to determine compliance with discharge permit limits. The Permittee is in substantial compliance with its current discharge permit.

Fecal Coliform:

2.2 CFU or MPN/100 mL - 30-day average
23 CFU or MPN/100 mL - Daily maximum

Special Conditions:

SA – Special Approvals / Conditions Table

There are no Special Approval / Condition items

Flow:

The sum of the 30-day average flows for all three courses is 5.89 MGD, which is the maximum anticipated amount for the hot summer months. The individual Course's flows are 2.29 MGD, 1.38 MGD and 2.22 MGD, for Palm Valley, Eagle Crest, and Highland Falls, respectively.

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:

There are several public water supply wells located near the golf course which puts the reuse site within 6,000-foot radius Drinking Water Protection Areas for those wells. Discharges in accordance with the proposed permit are not anticipated to negatively impacts these wells.

Schedule of Compliance:

SOC – Schedule of Compliance Table

Item #	Description	Due Date
1	The Permittee shall submit two copies of a revised Effluent Management Plan (EMP) for NDEP's review, wet-stamped by a Nevada Professional Engineer or qualified professional, that follows the requirements listed in Guidance Document WTS-1B: <i>General Criteria for Preparing an Effluent Management Plan</i> .	10/1/2016
2	All Discharge Monitoring Reports (DMRs) shall be submitted electronically through the Nevada NetDMR website: https://netdmr.ndep.nv.gov/netdmr/public/home.htm .	7/1/2017

Deliverable Schedule:

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

Item #	Description	Interval	First Scheduled Due Date
1	Quarterly DMRs	Quarterly	10/28/2016
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 **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. **5/20/2016**, 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: **Steve McGoff, P.E.**

Date: **5/22/2013**

Title: **Professional Engineer**