



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

**Permittee Name:** THE CLUB AT ARROWCREEK  
2905 ARROWCREEK PARKWAY  
RENO, NV - 89511

**Permit Number:** NS0097004

**Location:** THE CLUB AT ARROWCREEK, WASHOE  
4750 ARROWCREEK PARKWAY, RENO, NV - 89511  
LATITUDE: 39.458333, LONGITUDE: -119.741667  
TOWNSHIP: 18 N, RANGE: 19 E, SECTION: 14, 23, 24, 26

Outfall / Well Num	Outfall / Well Name	Location Type	Well Log Num	Outfall City	Outfall State	Outfall Zip	Outfall County	Latitude	Longitude	Receiving Water
001	ARROWCREEK GOLF COURSES	Land Application Site		RENO	NV	89511	WASHOE	39.458333	-119.741667	GROUNDWATER

**General:**

The Permittee, The Club at ArrowCreek (ArrowCreek), has applied for the renewal of Permit NS0097004. The two golf courses at ArrowCreek are within the ArrowCreek subdivision along the area of ArrowCreek Parkway and the Loop Road area located in southwest Reno, west of U.S. 395. The turf grass and landscaped areas are irrigated with reclaimed water, which is supplied by and may be blended at South Truckee Meadows Water Reclamation Facility (STMWRF- Permit NS0040024) with raw water from Whites Creek and/or Thomas Creek at the chlorine contact basin to meet seasonal irrigation demands. Treated effluent is stored in a two million-gallon storage tank at ArrowCreek. Irrigation is via spray and drip, and typically occurs seasonally between April through November.

**Discharge Characteristics:**

The effluent is delivered by the Washoe County owned dedicated effluent (reuse) pipeline from STMWRF to the on-site two million-gallon storage tank (reservoir) at ArrowCreek. Reuse application is in accordance with the terms and conditions of the permit and the Effluent Management Plan. Reclaimed water for this site meets Category A quality (NAC 445A.276) and is denitrified below 10 milligrams per liter measured as total nitrogen.

**Receiving Water:**

The receiving water is the groundwater underlying the reuse sites. Groundwater in the area ranges approximately between 90 and 200 feet below ground surface (BGS) and meets Nevada State Drinking water standards. No adverse effects are expected to occur as a result of this effluent reuse. Effluent may be blended with creek water at STMWRF to meet seasonal irrigation demands.

**Summary of Changes From Previous Permit:**

Due to a new permit naming convention at NDEP, Bureau of Water Pollution Control, the permit ID has been changed from NEV97004 to NS0097004. 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. These are not to be confused with "NV" permits which are reserved for NPDES Permitting.

In order to maintain consistency with current NDEP policy and requirements of similar reuse facilities, the following changes to this permit have been made from the previous permit:

1. The requirement to monitor the annual application rate of the effluent has been removed;
2. The discharge limitation for the concentration of total coliform has been removed and replaced with monitor and report (M&R); and
3. The total nitrogen concentration limits of 10 mg/L have been removed and replaced with M&R.

**Proposed Effluent Limitations:**

The Permittee is authorized to discharge treated effluent from STMWRF in accordance with the limitations, requirements, and conditions of this permit. The discharge shall be limited, sampled, 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
Flow rate	30 Day Average	<= 1.5 Million Gallons per Day (Mgal/d)		Prior to Reuse	001	Continuous	METER
Nitrogen, total <sup>[1]</sup>	Daily Maximum		M&R Milligrams per Liter (mg/L)	Prior to Reuse	001	Weekly	DISCRT
Nitrogen, total <sup>[1]</sup>	30 Day Average		M&R Milligrams per Liter (mg/L)	Prior to Reuse	001	Weekly	DISCRT
Flow rate	Daily Maximum	<= 1.7 Million Gallons per Day (Mgal/d)		Prior to Reuse	001	Continuous	METER
Coliform, total general <sup>[1]</sup>	Daily Maximum		M&R Colony Forming Units per 100ml T (CFU/100mL)	Prior to Reuse	001	Weekly	DISCRT
Coliform, total general <sup>[1]</sup>	30 Day Geometric Mean		M&R Colony Forming Units per 100ml T (CFU/100mL)	Prior to Reuse	001	Weekly	DISCRT

#### Notes (Re-use Discharge Limitations Table):

1. Sample results to be obtained from STMWRF (Permit NS0040024) and reported by Permittee. Reclaimed water quality shall be in accordance with the limits set forth in Permit NS0040024.

**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	Annual Total	M&R Pounds per Year (lb/yr)		Prior to Irrigation	001	Annual	CALCTD

**Rationale for Permit Requirements:**

Required water quality parameters are monitored to ensure effluent reuse requirements are maintained per NAC 445A and groundwaters of the State are protected.

**Fecal Coliform:**

Total coliform concentration limits were replaced with M&R in the Reuse Discharge Limitations Table for this permit renewal. This is due to total coliform concentrations already being managed and monitored by STMWRF under effluent limitations defined in Permit NS0040024. The treated effluent meets reuse category A requirements (NAC 445A.276).

**Special Conditions:**

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

**SA – Special Approvals / Conditions Table**

There are no Special Approval / Condition items
---

**Flow:**

The 30-day average flow rate and the daily maximum flow rate shall not exceed 1.5 and 1.7 MGD, respectively.

**Corrective Action Sites:**

There are two Bureau of Corrective Action (BCA) Sites located within a one-mile radius of this facility: D-000142 and D-001267. The BCA case officer for these sites does not expect the use of reclaimed water for irrigation at ArrowCreek associated with this permit to have adverse effects on these sites.

**Wellhead Protection Program:**

ArrowCreek is 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 copies of the updated Effluent Management Plans (EMP). The submitted EMP shall address any changes in operation 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 wet-stamped by a Nevada Registered Professional Engineer with comprehensive knowledge of the project. If no updates or revisions are required, the Permittee shall submit a letter by the due date stating that there have been no changes to the previously approved EMP.	4/28/2016

**Deliverable Schedule:**

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

Item #	Description	Interval	First Scheduled Due Date
1	Quarterly DMRs	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. **12/21/2015**, 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: **Kenneth Greene**

Date: **11/12/2015**

Title: **P.E.**