



# STATE OF NEVADA

Department of Conservation & Natural Resources

Brian Sandoval, Governor

Leo M. Drozdoff, P.E., Director

DIVISION OF ENVIRONMENTAL PROTECTION

Colleen Cripps, Ph.D., Administrator

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

**Permittee Name:** BLACK MOUNTAIN GOLF & COUNTRY CLUB  
500 GREENWAY ROAD  
HENDERSON, NV - 89015

**Permit Number:** NS0096017

**Location:** BLACK MOUNTAIN GOLF & COUNTRY CLUB, CLARK  
500 GREENWAY ROAD, HENDERSON, NV - 89015  
LATITUDE: 36.066667, LONGITUDE: -115.000010  
TOWNSHIP: T22S, RANGE: R63E, SECTION: S20

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		HENDERSON	NV	89015	CLARK	36.0196	-114.973962	GROUNDWATER

### General:

The Black Mountain Golf and Country Club is a 27-hole golf course located on 141 acres at 500 Greenway Road, Henderson, Clark County, Nevada 89015. The Kurt R. Segler Water Reclamation Facility (KRSWRF), which is owned and operated by the City of Henderson, supplies tertiary treated effluent to the golf course for the drip and spray irrigation of approximately 80 acres of golf course and driving range turf grasses and approximately 60 acres of scattered desert landscape shrubs and trees. When additional water is needed for irrigation, effluent is blended with potable water provided by the City of Henderson in the four concrete lined effluent pumping/supply ponds on the southern portion of the property. The total capacity of the four supply ponds is approximately 6 million gallons. Irrigation using treated effluent is conducted in accordance with an Effluent Management Plan (EMP) submitted to and approved by the Nevada Division of Environmental Protection, Bureau of Water Pollution Control (BWPC).

### Discharge Characteristics:

Water used for reuse irrigation is tertiary-treated, partially denitrified, and disinfected wastewater from the Kurt R. Segler Water Reclamation Facility (KRSWRF), NAC 445A.276, Reuse Category B. The KRSWRF reuse water may also be mixed with potable water supplied and managed by the City of Henderson in the concrete lined effluent pumping/supply ponds to provide the golf course with the adequate volume of water. The relative percentages of potable and reclaimed water vary with the seasonal irrigation demand.

### Receiving Water:

Treated effluent used for irrigation discharges to groundwater via percolation. Groundwater in the vicinity of the golf course is approximately 325 feet below ground surface. Due to the depth to groundwater, monitoring wells at the golf course are not required.

### Summary of Changes From Previous Permit:

Due to the new naming conventions at NDEP, Bureau of Water Pollution Control, the permit ID number has been changed from NEV96017 to NS0096017. 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.

The Permittee is now required to report the daily maximum and 30 day average Total Nitrogen values. The nitrogen balance is addressed in the Division-approved EMP, to which the Permittee must adhere.

The Permittee is no longer required to report the monthly maximum Flow Rate. The permittee is now required to report the daily maximum Flow Rate and Total Coliform values in addition to the 30 day average Flow Rate and Total Coliform values.

The Permittee is no longer required to report the Annual Application Volume. The Annual Application Volume is addressed in the Division-approved Effluent Management Plan, to which the Permittee must adhere.

The Permittee is no longer required to submit an annual report to the Bureau of Water Pollution Control (BWPC) that documents the plan for complying with cross-connection control requirements of the local water purveyor and health agency.

**Proposed Effluent Limitations:**

During the period beginning on the effective date of this permit and lasting until the permit expires, the Permittee is authorized to discharge reclaimed water from the Kurt R. Segler Water Reclamation Facility, Permit Number NEV80003, for reuse irrigation at the Black Mountain Golf and Country Club.

**Re-use Discharge Limitations Table for Sample Location 001 (Land Application Site) To Be Reported Monthly<sup>[1]</sup>**

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Flow rate	Daily Maximum	M&R Million Gallons per Day (Mgal/d)		Effluent Gross	001	Continuous	METER
Flow rate	30 Day Average	<= 1.35 Million Gallons per Day (Mgal/d)		Effluent Gross	001	Continuous	METER
Coliform, total general	Daily Maximum		M&R Colony Forming Units per 100ml T (CFU/100mL)	Effluent Gross	001	Weekly	DISCRT
Coliform, total general	30 Day Average		M&R Colony Forming Units per 100ml T (CFU/100mL)	Effluent Gross	001	Weekly	DISCRT
Nitrogen, total	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	001	Weekly	DISCRT
Nitrogen, total	30 Day Average		M&R Milligrams per Liter (mg/L)	Effluent Gross	001	Weekly	DISCRT

Notes (Re-use Discharge Limitations Table):

- Monitoring may be performed by the supplier of the effluent (NEV80003), but results must be reported by the Permittee.

**Rationale for Permit Requirements:**

Monitoring of the reuse water is required to assess the level of treatment being provided by the Kurt R. Segler Water Reclamation Facility, to assess the quality of water delivered to the golf course property, to assess the management of the reuse water, and to protect the quality of local groundwater.

**Fecal Coliform:**

Total Coliform concentrations meet Reuse Category B standards (NAC 445A.276).

**Special Conditions:**

See Special Approvals/Conditions Table.

## SA – Special Approvals / Conditions Table

Item #	Description
1	Within 60 days of permit issuance, the Permittee shall submit two (2) copies of an Effluent Management Plan (EMP) for review and approval by the Division. The EMP shall be compiled in accordance with appropriate sections of WTS-1B, "General Design Criteria for Preparing an Effluent Management Plan". The EMP shall be prepared and stamped by a Nevada Registered Professional Engineer with comprehensive knowledge of the project.

**Flow:**

Flow is limited to a 30-day average flow of 1.35 MGD.

**Corrective Action Sites:**

There is one (1) Bureau of Corrective Actions (BCA) remediation site located within one (1) mile of this facility. The BCA does not expect the permitted discharge to have adverse effects on the corrective actions site.

The Black Mountain Golf and Country Club (BMGCC) is located within the Waste Designated Ground Contaminated Area (WDGCA) near the Basic Management Incorporated (BMI) Remediation Complex of the southern Las Vegas Valley. The BCA has been notified of BMGCC's intent to renew the groundwater discharge permit NS0096017 and has no objections to the renewal of this permit.

**Wellhead Protection Program:**

This facility is not located within a drinking water protection area, nor is it located within a wellhead protection area.

**Schedule of Compliance:**

## SOC – Schedule of Compliance Table

Item #	Description	Due Date
1	Two (2) copies of an updated EMP, prepared by a Nevada licensed professional engineer or other qualified person, shall be submitted to the Division for approval.	5/30/2014

**Deliverable Schedule:**

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

Item #	Description	Interval	First Scheduled Due Date
1	Quarterly DMRs	Quarterly	7/28/2014
2	Annual Report	Annually	1/28/2015

**Procedures for Public Comment:**

The Notice of the Division's intent to reissue 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. **2/28/2014**, 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.650.

**Proposed Determination:**

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

Prepared by: **Briana Johnson**

Date: **1/22/2014**

Title: **Environmental Scientist**