



STATE OF NEVADA

Department of Conservation & Natural Resources

DIVISION OF ENVIRONMENTAL PROTECTION

Brian Sandoval, Governor

Leo M. Drozdoff, P.E., Director

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NEVADA DIVISION OF ENVIRONMENTAL PROTECTION

FACT SHEET

(pursuant to NAC 445A.236)

Permittee Name: Clark County Department of Parks and Community Services

2601 East Sunset Road
Las Vegas, Nevada 89120

Location: Red Ridge Park
7027 El Capitan Way
Las Vegas, Clark County, Nevada
Latitude: 36° 03' 45"N
Longitude: 115° 17' 30"W
T22S, R60E, Section 5

Permit Number: NEV2005507

Public Water Supply: There are no public supply wells within one mile of this facility.

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

Wellhead Protection Area: This facility is located outside of the 6,000 feet Drinking Water Protection Area (DWPA) and not within a delineated wellhead capture zone for any public supply well.

General: Red Ridge Park, a 28-acre park, receives treated effluent (reclaimed water) from the Desert Breeze Water Reclamation Facility (DBWRF), Permit # NEV2001509, for irrigation of turf and landscaped areas. DBWRF produces tertiary treated, partially denitrified, disinfected effluent with an average (30-day average) Total Nitrogen content of 14 mg/L. The DBWRF effluent meets Category A requirements. The DBWRF reclaimed water is used for spray and drip irrigation of 20 acres of turf grasses and trees/shrubs. The park irrigation system has been designed for reuse effluent irrigation. This park is located in southwest Las Vegas.

Receiving Water Characteristics: Groundwater in the vicinity of the course is estimated to be at approximately 350 to 400 feet below ground surface. Groundwater flow direction is

reported to be in an easterly direction. Groundwater quality in the area is potable. Desert Breeze effluent is only partially denitrified, so nitrogen balances are required along with effluent nutrient reporting using analyses provided by Desert Breeze WRF. Due to the depth to groundwater and nutrient management required, monitoring wells at the park are not required.

Description of the Location of the Discharge: Red Ridge Park has two irrigated baseball diamonds, open areas of turf grass used primarily as playing fields and other similar recreational uses, a perimeter, promenades and parking areas flanked by trees and shrubs, and a 9-hole executive golf course. The park also has other facilities that do not have effluent reuse. The irrigation system is controlled by a RainBird automated system designed to manage high wind shut downs and irrigation timing. Drinking water is available at drinking water fountains and restroom facilities where the facilities are covered during irrigation or are entirely protected in a building. Clark County’s Desert Breeze Water Reclamation Facility will supply the treated effluent for irrigation via the park irrigation systems.

Flow: The Permittee has requested a 30-day average flow of 0.30 MGD, which is the maximum anticipated amount for the hot summer months. Actual irrigation usage for 2010 was 0.08 MGD (30-day average) with a maximum 30-day average of 0.19 MGD (July 2009). Flows are measured at the onsite reclaimed meter vault.

Discharge Limitations: The DBWRF provides the park with a high quality, Category A reclaimed water product. The coliform requirement is set at 2.2 mpn/100 ml Total Coliform, 30-day average. Therefore, in accordance with NAC 445A.277, a buffer zone and control of public access are not required.

TABLE I.1: Discharge Limitations

<u>PARAMETERS</u>	<u>EFFLUENT DISCHARGE LIMITATIONS</u>		<u>MONITORING REQUIREMENTS</u>	
	30 Day Average	Daily Maximum	Measurement Frequency	Sample Type
Flow	0.30 MGD	M & R MGD	Continuous	Flow meter
Total Coliform	2.2 CFU or MPN/100 ml	23 CFU or MPN/100 ml	Weekly	Discrete
Total Nitrogen as N	Monitor and Report		Monthly	Calculate

Sampling: Samples taken in compliance with the monitoring requirements specified in Table I.1 shall be collected prior to reclaimed water reuse. Monitoring requirements may

be satisfied by data collected by the Desert Breeze Water Reclamation Facility and the Las Vegas Valley Water District. Discharge Monitoring Reports shall be submitted by the Permittee. Copies of the backup data or water quality calculation summaries are to be maintained at the reuse site for inspection by the Division upon request.

Schedule of Compliance: The Permittee shall implement and comply with the provisions of the following schedule of compliance after approval by the Administrator, including in said implementation and compliance, any additions or modifications which the Administrator may make in approving the Schedule of Compliance.

- a. The Permittee shall achieve compliance with the effluent limitations upon issuance of the permit; the Permittee shall notify NDEP within 14 days of initiation of reuse activities.
- b. The Permittee shall not reuse treated effluent prior to having an approved updated EMP per NAC 445A.275; the Permittee shall not reuse treated effluent prior to providing cross connection documentation per Part I.C.3. of the permit.
- c. An updated Effluent Management Plan (EMP) shall be submitted to the Division within 30 days of permit issuance, using form WTS-1B as a guide. The updated EMP must be stamped and signed by a Professional Engineer registered with the state of Nevada.

Rationale for Permit Requirements: Reclaimed water disinfection monitoring is required to document the level of total Coliform treatment being provided by the DBWRF, to assess the management of reclaimed water usage, and to protect the local groundwater quality. Total coliform and nitrogen species are required for monitoring the quality of recycled water being applied, and for protection of human health and the environment.

Procedures for Public Comment: The Notice of the Division's intent to issue (renew) the permit authorizing the facility to discharge to the 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 also being mailed to interested persons on our mailing list. Anyone wishing to comment on the proposed permit can do so in writing for a period of thirty (30) days following the date of publication of the public notice in the newspaper. The comment period can be extended at the discretion of the Administrator. The deadline date and time by which all written comments are to be postmarked (via mail) or transmitted to the Division via facsimile or e-mail is **November 25th, 2011**.

A public hearing on the proposed determination can be requested by the applicant, any affected State, any affected interstate agency, the Regional Administrator 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.

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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 determines 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.

Determination: The Division has made the determination to issue (renew) the proposed permit for a five-year period.

Prepared by: Robert E. Wimer, Jr., E.I.
Bureau of Water Pollution Control
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