

NEVADA DIVISION OF ENVIRONMENTAL PROTECTION

FACT SHEET

(Pursuant to NAC 445A.236)

Permittee Name: Fore Stars LLC LTD
9119 Alta Drive
Las Vegas, NV 89145

Facility: Badlands Golf Club
9119 Alta Drive
Las Vegas, NV 89145

Permit Number: NEV99004

Location: Northwest Area of Las Vegas, Clark County, Nevada

Latitude: 36° 10' 10" N
Longitude: 115° 17' 11" W

Township 20 South, Range 60 East, Section 32

Flow: 1.20 MGD. (30-Day Average)

General:

The Badlands Golf Club, operated by Fore Stars LLC, LTD., is located at 9119 Alta Drive, Las Vegas, Clark County, Nevada. This facility has one 9-hole short course, and one regulation 18-hole course, and covers approximately 200 acres. The facility uses three reservoirs fed by the recycled water supply line for storage of irrigation water. There are no additional water features at this facility.

The Badlands Golf Club receives tertiary treated, nitrified, disinfected effluent from the Durango Hills Water Resource Center wastewater treatment facility (DHWRC-WWTF, Permit NEV98005) for irrigation of turf and landscaped areas. The DHWRC-WWTF recycled water is blended with potable water to provide the course with the volume of water required to meet turf requirements. The Badlands Golf Club further supplements the treated effluent blend with well water from the site as needed. The relative percentages of potable and recycled water from the NWWRC will vary with the seasonal irrigation demand.

Flow:

The permitted 30-day average flow is 1.20 MGD, which is the maximum anticipated amount for the hot summer months. The annual average usage will be approximately 0.71 MGD, due to lower usage in the cooler months. The permitted effluent reuse is relatively low for a club of this size due to the use of potable and/or well water as needed.

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Receiving Water Characteristics:

Depth to groundwater is 515 feet. There are no monitoring wells at this facility due to the depth to groundwater.

Proposed Effluent Limitations and Monitoring Requirements

The discharge from the facility shall be monitored and limited by the following:

TABLE I. Discharge Limitations

<u>PARAMETERS</u>	<u>EFFLUENT DISCHARGE LIMITATIONS</u>		<u>MONITORING REQUIREMENTS</u>	
	30 Day Ave.	Daily Max.	Measurement Frequency	Sample Type
Flow (MGD)	1.20	Monitor and Report	Continuous	Flow meter
Total Coliform (CFU or MPN/100 ml) ⁽²⁾	2.2	23	Weekly	Discrete
Total Nitrogen as N ⁽¹⁾ (mg/l)	Monitor and Report		Monthly	Calculate
Total Kjeldahl Nitrogen as N (mg/l)	Monitor and Report		Monthly	Composite
Total Oxidized Nitrogen as N (Nitrate + Nitrite) (pounds)	Monitor and Report		Monthly	Composite
Ammonia as N (mg/l)	Monitor and Report		Monthly	Composite
Total Nitrogen Applied (pounds/acre/calendar year)	475 ⁽³⁾		Annually ⁽⁴⁾	Calculate

- (1) Total Nitrogen as N can be reported as the sum of Total Oxidized Nitrogen and Total Kjeldahl Nitrogen
- (2) CFU = Colony Forming Unit, MPN = Most Probable Number
- (3) Bermuda Grass Nitrogen Uptake value used in determining nutrient balance for Badlands Golf Club, as described in "Effluent Management Plan for Badlands Golf Course", prepared by Greeley and Hansen, January, 1999.
- (4) To be reported in the 4th quarter DMR.

Samples taken in compliance with the monitoring requirements specified in Table I. are to be collected prior to effluent reuse. The quality of the product used by the permittee may be reported as calculated values based on the blend of treated effluent, potable water, and well water. Monitoring requirements may be satisfied by data collected by the Durango Hills Water Resource Center and the Las Vegas Valley Water District. 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. Discharge Monitoring Reports are to be submitted by the Permittee to NDEP at the following address.

Nevada Division of Environmental Protection
Bureau of Water Pollution Control
Compliance Coordinator
901 South Stewart Street, Suite 4001
Carson City, NV 89701

Schedule of Compliance

The Permittee shall implement and comply with the provisions of the 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;
- b. By **MMM DD, 2010**, the Permittee, or its representative, shall submit for approval an updated EMP. The Permittee shall not reuse treated effluent prior to having an approved Final EMP per Nevada Administrative Code (NAC) 445A.275;
- c. The Permittee shall provide the Division by **MMM DD, 2010**, with the documentation updates that notification, required in I.B.13, has been complied with prior to continued use of treated effluent.
- d. All compliance deliverables shall be submitted to both addresses listed below:

Mr. Nadir Sous
Nevada Division of Environmental Protection

Compliance Coordinator
Nevada Division of Environmental Protection

Las Vegas Office
2030 E. Flamingo Road Suite 230
Las Vegas, NV 89119

Bureau of Water Pollution Control
Stewart Street, Suite 4001
Carson City, NV 89701

Procedures for Public Comment:

The Notice of the Division's intent to issue a 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 being emailed to interested persons on our email list. Anyone wishing to comment on the proposed permit can do so in writing for a period of 30 days following the date of the public notice. The comment period can be extended at the discretion of the Administrator. **All comments must be received by NDEP by 5:00 pm, January 6, 2010.**

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

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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 reissue the permit for a period of five (5) years, subject to effluent and monitoring limitations.

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 ground waters of the State, and to alert those persons who might have contact with treated effluent to its presence at the facility.

Prepared by: Michele Reid
November 2009