



A division of the
Nevada Department of Conservation & Natural Resources

NEVADA DIVISION OF
**ENVIRONMENTAL
PROTECTION**

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FACTSHEET
(pursuant to NAC 445A.236)

Permittee Name: CLARK COUNTY

500 S. GRAND CENTRAL PARKWAY, BOX 551711
LAS VEGAS, NV 89155

Permit Number: NS2010500

Permit Type: GROUNDWATER DISCHARGE

Designation: GROUNDWATER

New/Existing: EXISTING

Location: SILVER BOWL STADIUM, CLARK
7000 E. RUSSELL ROAD, LAS VEGAS, NV 89122
LATITUDE: 36.087222, LONGITUDE: -115.016944
TOWNSHIP: 21 S, RANGE: 62 E, SECTION: 26

Outfall / Well Num	Outfall / Well Name	Location Type	Well Log Num	Latitude	Longitude	Receiving Water
001	SILVER BOWL STADIUM	Land Application Site		36.087222	-115.016944	GROUNDWATER

Permit History/Description of Proposed Action

The Permittee, Clark County, has applied for the renewal of groundwater discharge permit NS2010500. Clark County acquired ownership from the University of Nevada Las Vegas in June 2025. Clark County plans to continue utilizing Category B bacteriological quality reclaimed water, per Nevada Administrative Code (NAC) 445A.2766, to irrigate their Sam Boyd Stadium Star Nursery Field, located at 700 East Russell Road, Las Vegas, Nevada. The reclaimed water is supplied by the Clark County Water Reclamation District (CCWRD) from the Flamingo Water Resource Center, under permit NS2018508. The County has changed the name of the stadium to the Silver Bowl Stadium (SBS).

This permit was first issued on November 3, 2010, and expired on November 3, 2015; the permit has been administratively continued since.

Facility Overview

The SBS and its common areas cover approximately 15 acres of turf that is irrigated via spray and drip lines. The annual water usage is estimated to be 200,000 gallons per day. Reclaimed water is supplies via a 12 inch diameter pipeline to a reclaimed water managment system and a 550,000 gallon elevated storage tank, and must be applied within a Nevada Division of Environmental Protection (NDEP) approved Reclaimed Water Management Plan (RWMP); irrigation is seasonal. All "Reuse Category B: Approved Uses" conditions listed in NAC 445A.2766.

The RWMP was last reviewed and approved in July 2009. The Technical, Compliance, and Enforcement

Branch, of the Bureau of Water Pollution Control requires RWMP to be updated every ten (10) years and is due 90 days after the issuance of this permit.

Outfall Summary

Outfall 001: Sam Boyd Stadium - Star Nursery Field, a land application site monitored for Biological Oxygen Demand 5-day (BOD, 5-day), Fecal Coliform, Nitrogen, Potential Hydrogen (pH), and Total Suspended Solids (TSS).

The requirement to report BOD, 5-day, pH, and TSS, has been removed from this permit.

Effluent Characterization

Nevada State Network Discharge Monitoring Report (NetDMR) data, as reported from January 2020 to December 2025, was reviewed as part of this permit renewal process.

The averages for the reported values for the 5-year period are listed below:

Outfall 001 Silver Bowl Stadium:

The facility reported no effluent for all parameters except for the flow rate that is limited to < 0.2 Million Gallons per Day (MGD), however; the parameter values from the Flamingo Water Resource Center covered under permit NS2018508 reported effluent values from Outfall 006 are listed below.

Reported by SBS:

Flow rate 30-Day Average: 0.003 MGD

Flow rate Monthly Maximum: 0.003 MGD

Reported by Flamingo Water Resource Center using Outfall 006 data from NS2018508:

BOD 5-day 30-day average: 0.96 milligrams per liter (mg/L)

Fecal coliform 30-day average: 0.53 colony forming units per 100mL (CFU/100mL)

Fecal coliform daily maximum: 0.69 CFU/100mL

Nitrogen daily maximum: 15.15 mg/L

pH average: 7.14 standard units (S.U.)

TSS 30-day average: was reported as "no discharge/ below detection limits"

Discharge Monitoring Reports (DMRs) shall be received by the 28th day of the month following the third month of each quarter (reporting period). Quarterly and annual reporting periods are based on the standard annual cycle, January 1st through December 31st. Annual reports should be completed in the fourth quarter whenever possible. The reports should be submitted electronically through the Nevada NetDMR system.

Pollutants of Concern

Pollutants of concern are any pollutant, or parameters, that are believed to be present in the discharge and could affect or alter the physical, chemical, or biological, conditions of the receiving water. Pollutants of concern include Fecal Coliform and Nitrogen.

Receiving Water

The receiving water is groundwater of the State. Groundwater in the area can be found at depths ranging

from approximately 18 feet to 55 feet below ground surface. No adverse effects are expected to occur as a result of this effluent reuse operation. Groundwater monitoring is not required.

Compliance History

The Permittee is currently in compliance with the permit.

Proposed Effluent Limitations

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

Re-use Discharge Limitations Table for Sample Location 001 (Land Application Site) To Be Reported Monthly

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Flow rate	Daily Maximum	<= 0.2 Million Gallons per Day (Mgal/d)		Prior to Reuse	001	Continuous	METER
Flow rate	30 Day Average	< 0.2 Million Gallons per Day (Mgal/d)		Prior to Reuse	001	Continuous	METER
Coliform, fecal general	Daily Maximum		<= 23 Colony Forming Units per 100ml T (CFU/100mL) ^[1]	Prior to Reuse	001	Weekly ^[2]	CALCTD
Coliform, fecal general	30 Day Geometric Mean		<= 2.2 Colony Forming Units per 100ml T (CFU/100mL) ^[1]	Prior to Reuse	001	Weekly ^[2]	CALCTD

Notes (Re-use Discharge Limitations Table):

1. CFU/100mL or MPN/100mL
2. Permit NS2018508 reports weekly vales for this permit.

Re-use Discharge Limitations Table for Sample Location 001 (Land Application Site) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Nitrogen, total	Annual Total	≤ 3300 Pounds per Year (lb/yr) ^[2]		Prior to Reuse	001	Annual	CALCTD
Nitrogen, total	Annual Mass Loading	M&R Pounds per Year (lb/yr) ^[3]	[1]	Prior to Reuse	001	Annual	CALCTD

Notes (Re-use Discharge Limitations Table):

1. CFU/100mL or MPN/100mL
2. To be reported as pounds per acre per year (lbs/acyr). Refer to WTS1B: General Criteria for Preparing a Reclaimed Water Management Plan (page 20, Worksheet 2C).

Effluent N Applied (lbs/acyr) = $\Sigma(\text{Mgal/d Applied} \times \text{Effluent N Conc. (mg/L)} \times 8.34 \times \text{Days/month}) \div \text{Acres}$
3. Report the percentage of nitrogen uptake (lbs/acyr). Refer to WTS1B: General Criteria for Preparing a Reclaimed Water Management Plan (Page 19, Worksheet 2B) and WTS1C: Nutrient Management for Reuse & Biosolids Sites.

Monthly U (lb/acmo) = $U \text{ (lb/acyr)} \times ET \text{ (in/mo)} \div ET \text{ (total in/yr)}$

Summary of Changes From Previous Permit

The ownership of the facility has been transferred to Clark County.

The name of the stadium has been changed to the Silver Bowl Stadium.

The name of outfall 001 has been changed to Silver Bowl Stadium.

The requirement to report BOD, 5-day, pH, and TSS, has been removed from this permit.

Change - The sampling rate for Coliform, fecal general has been increased from annual to weekly, and is reported monthly to reflect the sampling and reporting schedule of the Flamingo Water Resource Center.

Added - Nitrogen, total annual mass loading has been added to this permit.

Technology Based Effluent Limitations

Technology based effluent limitations are not applicable to this permit.

Water Quality Based Effluent Limitations

Water quality based effluent limitations are not applicable to this permit.

Proposed Water Quality Based Effluent Limits (monthly/weekly/daily)

Water quality based effluent limitations are not applicable to this permit.

Basis for Effluent Limitations

The total volume of discharge to the field is limited to less than or equal to 0.2 MGD.

The proposed permit maintains effluent limits for fecal coliform in accordance with NAC 445A.276.

The proposed permit maintains effluent limits for nitrogen for the protection of the environment and human health.

The Nitrogen limit of 3,300 pounds per year (lbs/yr) is due to the estimated nitrogen uptake of grass being 220 pounds per acre per year (lbs/ac/yr), this permit irrigates 15 acres of grass.

Anti-backsliding

According to Sections 402(o) and 303(d)(4) of the CWA and federal regulations of 40 CFR 122.44(i) prohibit backsliding and require effluent limitations on a reissued permit to be as those in the previous permit with some exceptions. Due to a misinterpretation, BOD-5, pH, and TSS were added to this permit. Therefore, the Division has determined that the previous requirement to monitor and report the BOD-5, pH, and TSS were mistakenly applied. For this reason, the proposed permit removes these requirements which is consistent with the anti-backsliding conditions specified in the CWA section 402(o)(2)(B)(ii).

Antidegradation

The Division has developed an antidegradation regulation (NAC 445A.303 - 445A.3049) that is applied on a statewide basis, and which meets the statutory requirements of Nevada's water pollution control law found at Nevada Revised Statute (NRS) 445A.520 and NRS 445A.565 and is consistent with the federal antidegradation policy found at Title 40 in the Code of Federal Regulations (CFR) § 131.12. The objective of the Division's antidegradation regulation is to prevent degradation of Nevada's surface waters and maintain the unique attributes and special characteristics and water quality associated with high quality waters.

As this permit is for discharges to groundwater, and not surface water, Nevada's antidegradation regulation is not applicable.

Special Conditions

See the Special Approvals/Conditions table below.

SA – Special Approvals / Conditions Table

There are no Special Approval / Condition items

Discharges From Future Outfalls/ Planned Facility Changes

The Permittee does not anticipate discharges from future outfalls or changes to the facility.

Corrective Action Sites

There are no active Bureau of Corrective Actions sites located within a one-mile radius of the discharge location.

Wellhead Protection Program

The outfall is not located within a Wellhead Protection Area, which represents an approximate 10-year capture zone of a well, or within a Drinking Water Protection Area, which is defined by a 3,000-foot radius around a public water supply (PWS) well.

Schedule of Compliance:

SOC – Schedule of Compliance Table

Item #	Description	Due Date
1	The Permittee shall submit two (2) copies (one hard copy and one electronic copy) of a Reclaimed Water Management Plan (RWMP) to the Division for review and approval. The RWMP shall follow the Division's guidance document WTS-1B, General Design Criteria for Preparing an Effluent Management Plan.	12/30/2026

Deliverable Schedule:

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

Item #	Description	Interval	First Scheduled Due Date
1	Quarterly DMRs	Quarterly	1/28/2027
2	Annual DMRs	Annually	1/28/2027
3	Annual Report	Annually	1/28/2027

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 mailed to interested persons on our mailing list and will be posted on our website at <https://ndep.nv.gov/posts>. Anyone wishing to comment on the proposed permit can do so in writing until 5:00 P.M. **11/8/2026**, 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 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.

Proposed Determination:

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

Prepared by: **Jason Reichelt**

Date: **7/23/2026**

Title: **Environmental Scientist 3**