



FACTSHEET
(pursuant to NAC 445A.236)

Permittee Name: GOLD RANCH CASINO
350 INTERSTATE 80 WEST
VERDI, NV - 89439

Permit Number: NS0094008

Location: GOLD RANCH WASTEWATER TREATMENT FACILITY, WASHOE
600 FT. WEST OF EXIT 2, I-80, VERDI, NV - 89439
LATITUDE: 39.493611, LONGITUDE: -119.998333
TOWNSHIP: T19N, RANGE: R18E, SECTION: S17

Outfall / Well Num	Outfall / Well Name	Location Type	Well Log Num	Outfall City	Outfall State	Outfall Zip	Outfall County	Latitude	Longitude	Receiving Water
001	INFLUENT	Internal Outfall		VERDI	NV	89439	WASHOE	39.493611	-119.998333	GROUNDWATER
002	EFFLUENT	External Outfall		VERDI	NV	89439	WASHOE	39.493611	-119.998333	GROUNDWATER
003	MONITORING WELL - MW01	Monitoring Well		VERDI	NV	89439	WASHOE	39.503833	-120.000217	GROUNDWATER
004	MONITORING WELL - MW02	Monitoring Well		VERDI	NV	89439	WASHOE	39.503733	-120.000750	GROUNDWATER

General:

Gold Ranch Casino operates a Hydro-Aerobics Package Plant using activated sludge, on/off aeration, and nutrient removal. Denitrified effluent is discharged into an onsite leachfield. There is an additional, now decommissioned leach field to the South of the facility. The operation and leach fields are configured approximately 0.25-mile west, topographically up gradient, of the Truckee River. Domestic wastewater is received from three lift stations . The system is only authorized to operate at 25,000 GPD, in accordance with the assessed treatment capability of the package plant and the capacity of the leach fields. Permittee has two 500 gallon green sand Manganese removal filters to treat their well water.

Discharge Characteristics:

The flow as tracked at the effluent lift station, averaged 9,435 GPD . It is significantly lower than the prior observation (2007) of 16,500 GPD. Wastewater for discharge to the leach field is required to be treated to meet secondary treatment standards. The applicant has generally remained in compliance with permit limitations by successfully denitrifying treated effluent using the on/off aeration technique.

Receiving Water:

Denitrified effluent is discharged to groundwater of the State of Nevada via percolation and infiltration using leach fields.

Summary of Changes From Previous Permit:

The requirement to electronically submit Discharge Monitoring Reports (DMRs) within 1 year of permit issuance has been added.

As per current NDEP conventions, permit number has been changed from NEV94008 to NS0094008. This

change does not reflect a change in the type of permit being issued.

WWTP Discharge Limitations Table for Sample Location 001 (Internal Outfall) To Be Reported Monthly

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Flow rate	Daily Maximum	<= 0.025 Million Gallons per Day (Mgal/d)		Raw Sewage Influent	001	Continuous	METER
Flow rate	30 Day Average	<= 0.025 Million Gallons per Day (Mgal/d)		Raw Sewage Influent	001	Continuous	METER

WWTP Discharge Limitations Table for Sample Location 002 (External Outfall) To Be Reported Monthly

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
pH, maximum	Monthly Maximum		<= 9 Standard Units (SU)	Effluent Gross	002	Biweekly	DISCRT
pH, minimum	Monthly Minimum		>= 6 Standard Units (SU)	Effluent Gross	002	Biweekly	DISCRT
Nitrogen, total	Daily Maximum		<= 10 Milligrams per Liter (mg/L)	Effluent Gross	002	Biweekly	DISCRT
Nitrogen, total	30 Day Average		<= 10 Milligrams per Liter (mg/L)	Effluent Gross	002	Biweekly	DISCRT
Solids, total suspended	Daily Maximum		<= 45 Milligrams per Liter (mg/L)	Effluent Gross	002	Biweekly	DISCRT
Solids, total suspended	30 Day Average		<= 30 Milligrams per Liter (mg/L)	Effluent Gross	002	Biweekly	DISCRT
BOD, 5-day	Daily Maximum		<= 45 Milligrams per Liter (mg/L)	Effluent Gross	002	Biweekly	DISCRT
BOD, 5-day	30 Day Average		<= 30 Milligrams per Liter (mg/L)	Effluent Gross	002	Biweekly	DISCRT

Groundwater Monitoring Wells Table for Sample Location 003 (Monitoring Well - Mw01) To Be Reported Quarterly^[4]

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Solids, total dissolved	Quarterly Maximum		<= 30 Milligrams per Liter (mg/L)	Groundwater	003	Quarterly	DISCRT
Nitrogen, nitrate total (as N)	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	003	Quarterly	DISCRT
Nitrogen, total	Quarterly Maximum		<= 10 Milligrams per Liter (mg/L)	Groundwater	003	Quarterly	DISCRT
Water level relative to mean sea level ^[3]	Quarterly Maximum	M&R Feet (ft)		Groundwater	003	Quarterly	CALCTD
Depth to water level ft below landsurface ^[1]	Quarterly Maximum	M&R Feet (ft)		Groundwater	003	Quarterly	VISUAL ^[2]
Chloride (as Cl)	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	003	Quarterly	DISCRT

Notes (Groundwater Monitoring Wells Table):

1. Depth to groundwater (feet).
2. Field measurement.
3. Groundwater elevation (feet AMSL).
- 4.

Groundwater Monitoring: Discrete groundwater samples shall be collected to confirm the effective protection of groundwater under the established discharge conditions of this permit.

a. Groundwater monitoring and data rendering activities shall be conducted using monitoring protocols approved by the Nevada Division of Environmental Protection – Bureau of Water Pollution Control (Division).

b. Discrete samples shall be collected from all groundwater monitoring wells, including MW-1 and MW-2, and any subsequent monitoring wells installed while this permit remains in effect. The installation and use of additional monitoring wells must be reported to the Division and amended to the groundwater monitoring program as a minor modification to the permit.

c. Groundwater monitoring wells shall be conspicuously labeled, capped to prevent migration of surface contaminants to the groundwater, and locked to restrict access.

d. A “dry well” is considered a violation of this permit.

Groundwater Monitoring Wells Table for Sample Location 004 (Monitoring Well - Mw02) To Be Reported Quarterly^[4]

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Solids, total dissolved	Quarterly Maximum		<= 30 Milligrams per Liter (mg/L)	Groundwater	004	Quarterly	DISCRT
Chloride (as Cl)	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	004	Quarterly	DISCRT
Nitrogen, nitrate total (as N)	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	004	Quarterly	DISCRT
Nitrogen, total	Quarterly Maximum		<= 10 Milligrams per Liter (mg/L)	Groundwater	004	Quarterly	DISCRT
Water level relative to mean sea level ^[3]	Quarterly Maximum	M&R Feet (ft)		Groundwater	004	Quarterly	CALCTD
Depth to water level ft below landsurface ^[1]	Quarterly Maximum	M&R Feet (ft)		Groundwater	004	Quarterly	VISUAL ^[2]

Notes (Groundwater Monitoring Wells Table):

1. Depth to groundwater (feet).
2. Field measurement.
3. Groundwater elevation (feet AMSL).
4. **Groundwater Monitoring:** Discrete groundwater samples shall be collected to confirm the effective protection of groundwater under the established discharge conditions of this permit.
 - a. Groundwater monitoring and data rendering activities shall be conducted using monitoring protocols approved by the Nevada Division of Environmental Protection – Bureau of Water Pollution Control (Division).
 - b. Discrete samples shall be collected from all groundwater monitoring wells, including MW-1 and MW-2, and any subsequent monitoring wells installed while this permit remains in effect. The installation and use of additional monitoring wells must be reported to the Division and amended to the groundwater monitoring program as a minor modification to the permit.
 - c. Groundwater monitoring wells shall be conspicuously labeled, capped to prevent migration of surface contaminants to the groundwater, and locked to restrict access.
 - d. A “dry well” is considered a violation of this permit.

Rationale for Permit Requirements:

The facility has been operating well within compliance limitations for both flow rate and other set limits.

Monitoring and reporting of required limit sets and groundwater to ensure permit requirements are met for outfalls 001 through 004. The instances of two consecutive quarters of dry monitoring wells will continue to be deemed a violation of the permit.

The treatment facility falls within the 3000-foot of public water well, however is not considered to fall within 3000-ft capture zone and the water system is granted the water source waivers as final ranking for VOC, IOC and microbiological contamination is LOW.

As per the Nevada Vulnerability Assessment Program, the following factors were considered in making the above determination:

1. The treatment facility is down gradient from the well.
2. The well screen depths are 480 ft, 580 ft and 680 ft - well below 160 foot static water table.
3. The aquifer has a very thick layer of clay protecting the aquifer from any surface contamination.

WET Testing:

Special Conditions:

The Permittee shall submit proof of monitoring Well 2 (MW2) replacement within fourteen days of its construction, including final as-built drawings stamped by a Nevada registered professional engineer.

SA – Special Approvals / Conditions Table

Item #	Description
1	The current renewal is conditioned upon substantial compliance to the original permit conditions and guidelines.
2	The requirement to electronically submit Discharge Monitoring Reports (DMRs) within 1 year of permit issuance has been added. The Bureau of Water Pollution Control’s Nevada NetDMR system is a website that allows for electronic submission of DMRs. By using Nevada NetDMR, Permittees will save time, and data will automatically error-check and validate the information prior to submission. All necessary attachments and supplemental documentation can also be uploaded using the NetDMR system.
3	As per current NDEP conventions, permit number has been changed from NEV94008 to NS0094008. This change does not reflect a change in the type of permit being issued.

Flow:

The facility is permitted to treat and discharge up to 25,000 GPD daily maximum .

Flow rate for 30-day average is also limited to 25,000 GPD.

Corrective Action Sites:

There are three corrective action sites at a distance between 2000 feet to 4000 feet located across the Truckee River from the facility. However, hydrologic interference is not expected.

Wellhead Protection Program:

This site is within 3,000 feet of a well head protection area for well W02 and within 6,000 feet of a well head protection area for well W01. Both wells are ranked as “Highly Vulnerable” due to inorganic compounds. However the water system itself is not considered a risk given the parameters mentioned in the rationale section.

Schedule of Compliance:

SOC – Schedule of Compliance Table

Item #	Description	Due Date
1	If MW02 does not produce a discrete water sample for testing for two (2) consecutive quarters during the effective time of this permit, the following permit requirements take effect: i. The Permittee shall provide, within thirty (30) days of noncompliance with the above requirement, an approvable plan for the replacement of Monitoring Well 2 (MW02) - down gradient monitoring well. ii. Monitoring Well 2 (MW02) plans must be approved by the Division prior to its construction. iii. Monitoring Well 2 (MW02) must be designed by a Professional Engineer licensed in the State of Nevada. iv. Monitoring Well 2 (MW02) must be constructed in accordance to Water Technical Sheet 4 (WTS4) v. The Permittee shall construct this replacement Monitoring Well 2 (MW02) within thirty (30) days of its approval. vi. The Permittee shall submit proof of Monitoring Well 2 (MW02) replacement within fourteen (14) of its construction, including final as-built drawings stamped by a Nevada Registered Professional Engineer.	12/28/2016
2	The permittee shall submit a revised and updated O & M manual to meet the compliance requirement of this permit.	1/28/2017

Deliverable Schedule:

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

Item #	Description	Interval	First Scheduled Due Date
1	Quarterly DMRs	Quarterly	1/28/2017
2	Annual DMRs	Annually	1/28/2017
3	Annual Report	Annually	1/28/2017
4	Monthly DMRs	Quarterly	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. **11/14/2016**, 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: **sharada Maligireddy**

Date: **10/12/2016**

Title: **Staff Engineer**