



FACTSHEET
(pursuant to NAC 445A.236)

Permittee Name: BONNIE SPRINGS RANCH, INC.
1 GUNFIGHTER LANE
BLUE DIAMOND, NV - 89004

Permit Number: NS0060031

Location: BONNIE SPRINGS RANCH, INC., CLARK
1 GUNFIGHTER LANE, BLUE DIAMOND, NV - 89004
LATITUDE: 36.057778, LONGITUDE: -115.448889
TOWNSHIP: 22S, RANGE: 58E, SECTION: 2

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	Influent Structure		BLUE DIAMOND	NV	89004	CLARK	36.057778	-115.448889	GROUNDWATER
002	POND 1	Surface Disposal Site		BLUE DIAMOND	NV	89004	CLARK	36.057778	-115.448889	GROUNDWATER
003	POND 2	Surface Disposal Site		BLUE DIAMOND	NV	89004	CLARK	36.057778	-115.448889	GROUNDWATER
004	POND 3	Surface Disposal Site		BLUE DIAMOND	NV	89004	CLARK	36.057778	-115.448889	GROUNDWATER
005	MONITORING WELL #1	Monitoring Well		BLUE DIAMOND	NV	89004	CLARK	36.057778	-115.448889	GROUNDWATER

General:

Bonnie Springs Ranch Inc. operates the Bonnie Springs Ranch (BSR), an “old west” theme resort complex located in Clark County, Nevada approximately 19 miles southwest of Las Vegas and 3 miles west northwest of Blue Diamond. This permit renewal allows for the continued discharge of domestic wastewater from the BSR to an on-site treatment system. The BSR treatment system receives wastewater from several BSR components, including a restaurant and bar, restrooms, and a 50-unit motel. The domestic wastewater is collected and flows by gravity through an 8-inch sewer main to a collection box, then through a Palmer Bowlus flume in a utility box, and is ultimately discharged into a primary, bentonite-lined stabilization pond for facultative treatment (Pond 1). Wastewater flows by gravity piping from the primary pond to a secondary, gunite-lined pond for additional facultative treatment and disposal via evaporation (Pond 2). A third unlined pond is available for additional wastewater disposal or storage if needed (Pond 3).

Discharge Characteristics:

Average discharge characteristics for select parameters during the current permit cycle are listed below.

Pond 1

Biochemical Oxygen Demand (BOD) = 41.7 mg/L
Total Suspended Solids (TSS) = 73.6 mg/L
pH = 8.6

Pond 2

BOD = 25.3 mg/L
TSS = 54 mg/L
pH = 9.2

Receiving Water:

The receiving water is groundwater of the State. The average groundwater depth during the current permit cycle was determined to be approximately 7.2 feet below ground surface. There has been no indication of negative impacts to the groundwater as a result of the permitted discharge activity. Average values for select groundwater parameters during the current permit cycle are listed below.

Total Dissolved Solids = 82.4 mg/L

Chloride = 54.9 mg/L

Total Nitrogen = 2.9 mg/L

Summary of Changes From Previous Permit:

The requirement to monitor and report groundwater elevation above mean sea level has been removed from the permit.

Due to the new naming conventions at the Nevada Division of Environmental Protection (NDEP), Bureau of Water Pollution Control, the permit number has been changed from NEV0060031 to NS0060031. This change does not reflect a change in the type of permit being issued.

Proposed Effluent Limitations:

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

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

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)		See Footnote ^[1]	001	Weekly	DISCRT
Flow rate	30 Day Average	<= 0.022 Million Gallons per Day (Mgal/d)		See Footnote ^[1]	001	Weekly	DISCRT

Notes (WWTP Discharge Limitations Table):

- Flow rate shall be monitored at the utility vault in the Palmer Bowlus Flume (prior to discharge into the primary lagoon).

Groundwater Monitoring Wells Table for Sample Location 005 (Monitoring Well #1) To Be Reported Quarterly

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Nitrogen, nitrate total (as N)	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	005	Quarterly	DISCRT
Depth to water level ft below landsurface	Quarterly Maximum	M&R Feet (ft)		Groundwater	005	Quarterly	VISUAL ^[1]
Nitrogen, total	Quarterly Maximum		<= 10.0 Milligrams per Liter (mg/L)	Groundwater	005	Quarterly	DISCRT
Chloride (as Cl)	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	005	Quarterly	DISCRT
Solids, total dissolved	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	005	Quarterly	DISCRT

Notes (Groundwater Monitoring Wells Table):

1. Field measurement

Ponds / Rapid Infiltration Basins for Sample Location 002 (Pond 1) To Be Reported Semi Annually

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
BOD, 5-day	30 Day Average	<= 43 Pounds per Acre (lb/acr)		Primary/Preliminary Process Complete	002	Semiannual ^[1]	DISCRT ^[2]
BOD, 5-day	Daily Maximum		M&R Milligrams per Liter (mg/L)	Primary/Preliminary Process Complete	002	Semiannual ^[1]	DISCRT
Solids, total suspended	Daily Maximum		M&R Milligrams per Liter (mg/L)	Primary/Preliminary Process Complete	002	Semiannual ^[1]	DISCRT
pH	Daily Maximum		M&R Standard Units (SU)	Primary/Preliminary Process Complete	002	Semiannual ^[1]	DISCRT

Notes (Ponds / Rapid Infiltration Basins):

1. Pond 1 shall be sampled and analyzed for this parameter in June and December of each year.
2. The pond loading rate shall be calculated by multiplying the flow rate (in million gallons per day) by the concentration of the influent BOD (in milligrams per liter) by 8.345 (the weight in pounds of one gallon of water). For purposes of calculating the pond loading rate, the flow rate measurement shall be taken at the same time the BOD sample is taken.

Pond Loading Rate = Flow Rate × BOD × 8.345

Ponds / Rapid Infiltration Basins for Sample Location 003 (Pond 2) To Be Reported Semi Annually

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Solids, total suspended	Daily Maximum		M&R Milligrams per Liter (mg/L)	Secondary/Biological Process Complete	003	Semiannual ^[1]	DISCRT
pH	Daily Maximum		M&R Standard Units (SU)	Secondary/Biological Process Complete	003	Semiannual ^[1]	DISCRT
BOD, 5-day	Daily Maximum		M&R Milligrams per Liter (mg/L)	Secondary/Biological Process Complete	003	Semiannual ^[1]	DISCRT

Notes (Ponds / Rapid Infiltration Basins):

1. Pond 2 shall be sampled and analyzed for this parameter in June and December of each year.

Ponds / Rapid Infiltration Basins for Sample Location 004 (Pond 3) To Be Reported Quarterly

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Area inspection visual ^[1]	Value	M&R Yes=1; No=0 (Y=1;N=0)		Other Treatment, Process Complete	004	Quarterly	VISUAL

Notes (Ponds / Rapid Infiltration Basins):

1. Use of Pond 3 shall be reported as "Used" (Yes=1) or "Not Used" (No=0) for each quarter.

Rationale for Permit Requirements:

Monitoring is required to assess the level of treatment being provided, to determine when design capacity is being approached, and to determine if the groundwater is being degraded.

Special Conditions:

Substantial compliance with the current permit is a condition of permit renewal.

SA – Special Approvals / Conditions Table

There are no Special Approval / Condition items

Flow:

30-Day Average Flow Rate \leq 0.022 MGD

Corrective Action Sites:

There are no Bureau of Corrective Actions remediation sites located within one mile of the BSR.

Wellhead Protection Program:

The BSR is not located within a Wellhead Protection Area. The BSR is located within the 3000-ft Drinking Water Protection Area (DWPA) for one well. The permitted discharge activity is not expected to impact the DWPA.

Schedule of Compliance:

SOC – Schedule of Compliance Table

Item #	Description	Due Date
1	The Permittee shall submit a new Operations and Maintenance (O&M) Manual to the Division. The O&M Manual shall be prepared by a qualified individual in accordance with the relevant sections of guidance document <i>WTS-2: Minimum Information Required for an Operation and Maintenance Manual for a Wastewater Treatment Plant</i> .	1/1/2016

Deliverable Schedule:

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

Item #	Description	Interval	First Scheduled Due Date
1	Quarterly DMRs	Quarterly	1/28/2016
2	Semi Annual DMRs	Semi Annually	1/28/2016
3	Annual Report	Annually	1/28/2016

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 **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. **9/10/2015**, 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: **Alan Pineda**

Date: **7/29/2015**

Title: **Staff I Associate Engineer**