



STATE OF NEVADA

Department of Conservation & Natural Resources

Brian Sandoval, Governor

Leo M. Drozdoff, P.E., Director

DIVISION OF ENVIRONMENTAL PROTECTION

Colleen Cripps, Ph.D., Administrator

FACTSHEET (pursuant to NAC 445A.236)

Permittee Name: LYCO SEPTIC SERVICE
259 RIVERBOAT RD
DAYTON, NV - 89403

Permit Number: NS2002516

Location: CIRCLE BAR N RANCH, LYON
YERINGTON PARCEL # 14-521-28, YERINGTON, NV - 89447
LATITUDE: 39.016667, LONGITUDE: -119.149467
TOWNSHIP: T13N, RANGE: R25E, 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	CIRCLE BAR N RANCH	Land Application Site						39.007222	-119.155833	GROUNDWATER
MW1	MONITORING WELL 1	Monitoring Well		YERINGTON	NV	89447	LYON	39.007222	-119.155833	GROUNDWATER
MW2	MONITORING WELL 2	Monitoring Well		YERINGTON	NV	89447	LYON	39.007222	-119.155833	GROUNDWATER

General:

The Applicant proposes to continue to land apply domestic septage, portable toilet fluid, and grease interceptor material pumped by the Applicant or provided by Easy Rooter Plumbing to Circle Bar N (O-N) Ranch, which is located approximately 6,500 feet north of Highway 95A, west of the intersection of Tucker Lane and Densmore Lane, near the Yerington Municipal Airport. The Applicant has also requested authorization to land apply the same fluids provided by Pit Stop Pots, LLC.

The site has been subdivided into smaller fields for better control of the domestic septage application rates. The septage must be screened to remove solids over 1/2-inch in size before the septage can be land applied. The septage must be incorporated into the soil within 6 hours of being land applied. A crop must be planted within one year of domestic septage application to uptake the nitrogen that is contained in the septage. The application rate of domestic septage will be based on the nitrogen needs of the crop planted; a nitrogen balance is required. Food crops cannot be grown for five years after septage application.

The Permittee has installed a 10,000-gallon steel, above-ground storage tank at the southeast corner of the 20-acre site for mixing of domestic septage and grease trap material, to store the domestic septage during inclement weather, and for storage when the incorporation equipment is not operational or at the land application site. The Permittee is also authorized to store a maximum of 4,000 gallons in the field truck that is used to land apply the septage. The tanks must not be open to the atmosphere other than screened venting. Containment berms are required around the storage tank and around the field truck when used for storage.

Discharge Characteristics:

Only domestic septage, portable toilet fluid, and grease interceptor material may be land applied under this permit. No analysis of these materials is required. Portable toilet fluid must be land applied at one-sixth of

the septage application rate. Grease interceptor material shall be mixed with domestic septage at a rate of one part grease interceptor material to a minimum of three parts domestic septage, by volume, prior to land application.

No industrial waste may be land applied.

Receiving Water:

The groundwater in the area is at approximately 8 feet below the ground surface (bgs). Due to the shallow groundwater in the area, groundwater depth must be monitored quarterly by the Permittee. Material must not be applied when the depth to groundwater is 3 feet or less.

Summary of Changes From Previous Permit:

In addition to the current suppliers of septage, Pit Stop Pots, LLC, may also provide material to be land applied to O-N Ranch.

Due to a new Permit naming convention at NDEP, Bureau of Water Pollution Control, the permit ID has been changed from NEV2002516 to NS2002516. This change does not reflect a change in the type of permit being issued. NEV and NS permits are for groundwater discharges to the State of Nevada. These are not to be confused with "NV" permits which are reserved for NPDES Permitting.

Proposed Effluent Limitations:

The application rate, in gallons of septage per acre per year, shall be based on the amount of nitrogen required by the planned crop and crop yield. O-N has been growing wheat silage at a design yield of 4 tons/acre and a nitrogen uptake rate of 175 pounds of nitrogen/acre/year at the site. If these cropping practices are continued, domestic septage may be applied at a maximum rate of 67,300 gallons per acre per year.

$\text{gallons/acre} = \text{pounds of nitrogen required for crop yield} \div 0.0026$

The 175 pounds of nitrogen per acre may be adjusted based on the recommendation of the Cooperative Extension Service or other cropping expert with local experience regarding crop nitrogen demand and yields.

Groundwater Monitoring Wells Table for Sample Location Mw1 (Monitoring Well) To Be Reported Quarterly^[2]

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	S a m p l e Type
Depth to water level ft below landsurface ^[1]	Minimum	>= 3 Feet (ft)		Receiving Water	MW1	Quarterly	DISCRT

Notes (Groundwater Monitoring Wells Table):

- If the depth to groundwater is 4.0 feet or less in any well, the Permittee shall increase the measurement frequency from quarterly to monthly for all wells until the depth to groundwater is greater than 4.0 feet for three consecutive months in all wells.

If the depth to groundwater is 3.0 feet or less in any well, the Permittee shall immediately cease land application and not resume land application until the depth to groundwater exceeds 3.0 feet in all wells. The Permittee may exempt himself from a complete shutdown of the facility, if the Operations and Maintenance Manual contains an explanation of how the groundwater elevation can be verified in the individual fields. This may require the construction of additional wells.
- Additional groundwater elevation monitoring wells may be added as a minor modification.

Groundwater Monitoring Wells Table for Sample Location Mw2 (Monitoring Well) To Be Reported Quarterly^[2]

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	S a m p l e Type
Depth to water level ft below landsurface ^[1]	Minimum	>= 3 Feet (ft)		Groundwater	MW2	Quarterly	DISCRT

Notes (Groundwater Monitoring Wells Table):

- If the depth to groundwater is 4.0 feet or less in any well, the Permittee shall increase the measurement frequency from quarterly to monthly for all wells until the depth to groundwater is greater than 4.0 feet for three consecutive months in all wells.

If the depth to groundwater is 3.0 feet or less in any well, the Permittee shall immediately cease land application and not resume land application until the depth to groundwater exceeds 3.0 feet in all wells. The Permittee may exempt himself from a complete shutdown of the facility, if the Operations and Maintenance Manual contains an explanation of how the groundwater elevation can be verified in the individual fields. This may require the construction of additional wells.
- Additional groundwater elevation monitoring wells may be added as a minor modification.

Special Conditions:

Due to the shallow groundwater, and the site's proximity to surface waters, additional monitoring wells may be required in the future.

SA – Special Approvals / Conditions Table

Item #	Description
1	At least sixty (60) days prior to land applying any domestic septage to the thirty-eight (38) acre field north of Joggles Ditch, the Permittee shall submit a revised Operations and Maintenance Manual covering the land application activities to be conducted on this field to the Division for review and approval.
2	Prior to land applying any domestic septage to the thirty-eight (38) acre field north of Joggles Ditch, the Permittee shall submit to the Division documentation that Circle Bar N Ranch has authorized the land application of domestic septage to this field, is aware of the permit conditions, and has adequate irrigation water rights for the proposed crop.
3	At least thirty (30) days prior to land applying domestic septage within 500 feet of the Walker River, the Permittee shall submit to the Division the proposed location of third water elevation monitoring well, MW-3.
4	Prior to land applying domestic septage within 500 feet of the Walker River, the Permittee shall install a third groundwater elevation monitoring well, MW-3, between the River and 38-acre land application field.

Flow:

The Applicant has not requested a 30-day average flow or a daily maximum flow. Permits for the land application of domestic septage do not include flow limitations, provided that adequate land is available for domestic septage application. The permit does not regulate cropping practices, only the utilization of nitrogen applied.

Corrective Action Sites:

There are no Bureau of Corrective Actions sites within a one-mile radius of this facility.

Wellhead Protection Program:

The land application site is located within 6,00 feet, Drinking Water Protection Area 4, of three city of

Yerington public water supply wells.

Schedule of Compliance:

SOC – Schedule of Compliance Table

Item #	Description	Due Date
1	The Permittee shall submit to the Division for review and approval 2 copies of a new Operations and Maintenance (O&M) Manual. The new O&M Manual must include adjusted nitrogen uptake rates to account for the additional material provided by Pit Stop Pots, LLC. The O&M manual shall be prepared and stamped by a Nevada Registered Professional Engineer or other Qualified Person.	7/1/2013

Deliverable Schedule:

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

Item #	Description	Interval	First Scheduled Due Date
1	Quarterly Reports	Quarterly	7/28/2013
2	Annual Reports	Annually	1/28/2014

Procedures for Public Comment:

The Notice of the Division's intent to reissue 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 **Mason Valley News, 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. **4/29/2013**, 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.650.

Proposed Determination:

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

Prepared by: **Robert Wimer**

Date: **3/22/2013**

Title: **E.I.**