



FACTSHEET
(pursuant to NAC 445A.236)

Permittee Name: A-1 SEPTIC
700 LUCAS RD
FALLON, NV - 89406

Permit Number: NS2016504

Location: A-1 SEPTIC, CHURCHILL
700 LUCAS RD, FALLON, NV - 89406
LATITUDE: 39.495448, LONGITUDE: -118.89392260
TOWNSHIP: T19N, RANGE: R27E, SECTION: S24

Outfall / Well Num	Outfall / Well Name	Location Type	Well Log Num	Outfall City	Outfall State	Outfall Zip	Outfall County	Latitude	Longitude	Receiving Water
001	700 LUCAS RD	Surface Disposal Site	73244	FALLON	NV	89406	CHURCHILL	39.495448	-118.893922	GROUNDWATER
MW1	MONITORING WELL 1	Monitoring Well		FALLON	NV	89406	CHURCHILL	39.495448	-118.893922	GROUNDWATER

General:

The Applicant has submitted a new application to land apply domestic septage and grease interceptor material to approximately 10 acres of nutrient deficient agricultural land located at 700 Lucas Road, Fallon, Churchill County, Nevada, assessors parcel number 008-133-03.

The parcel is zoned A-10, agricultural use area, with water rights. The proposed crop of sudan grass will be grown as a cover crop. The fields will be irrigated between border/checks. The septage must be screened to remove solids over 3/4-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 if other sources of nitrogen, manure, commercial fertilizer, effluent that has not been denitrified, etc., are used on fields that have received septage. Food crops cannot be grown for five years after septage application.

If the crop is not harvested annually by mechanical means and instead planted as a food source for wildlife forage or domestic livestock grazing, then the materials may only be land applied once in every five-year permit term at a rate not to exceed the one-time agronomic requirement of the crop planted.

Discharge Characteristics:

Only domestic septage and grease interceptor material may be land applied under this permit. 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 depth to groundwater as indicated by on site domestic well is located at a depth of 20 ft below ground

surface. The facility is at the northeast corner of the property boundary. The groundwater quality was not analyzed and the Division has no data regarding the shallow groundwater quality in this area.

Summary of Changes From Previous Permit:

“The Bureau of Water Pollution Control (BWPC) Nevada NetDMR system is a web based sites that allow for electronic submission of DMR’s.

Nevada NetDMR enables permittee the ability to enter and electronically submit DMR data. By using Nevada NetDMR permittees will save time, see a reduction in paperwork burden, and data will automatically error-check and validate the information prior to submission. The system also allows for electronic submittal of attachments and supplemental documentation and provides instant confirmation of submission.”

Proposed Effluent Limitations:

The discharge shall be limited and monitored by the permittee as specified below.

Groundwater Monitoring Wells Table for Sample Location Mw1 (Monitoring Well) To Be Reported Quarterly

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Depth to water level ft below landsurface	Minimum Value	>= 3 Feet (ft)		Groundwater	MW1	Quarterly	METER

Septage Limitations / Requirements for Sample Location 001 (Surface Disposal Site) To Be Reported Monthly

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Volume, total	Monthly Total	M&R Gallons per Month (gal/mo)		Effluent Gross	001	Daily When Discharging	CALCTD

Septage Limitations / Requirements for Sample Location 001 (Surface Disposal Site) To Be Reported Annually

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Crop yield	Total	M&R Tons per Acre (ton/acre)		Beneficial Reuse	001	Annual	CALCTD
Volume, total	Annual Total	M&R Million Gallons per Year (Mgal/yr)		Effluent Gross	001	Daily When Discharging	CALCTD
Area of disposal-used	Annual Total	M&R Acres (acr)		Beneficial Reuse	001	Annual	CALCTD

Special Conditions:

The facility must be operated in accordance with the division-accepted operation and maintenance manual.

SA – Special Approvals / Conditions Table

Item #	Description
1	Application of materials under this permit shall not exceed the agronomic rate or cause degradation to waters of the state. Facilities will be operated in accordance to the accepted Operation and Maintenance Manual.

Flow:

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. The Applicant is planning to grow sudan grass at a design yield of 10 tons/acre and a nitrogen uptake rate of 325 pounds of nitrogen/acre/year at the site. If these cropping practices are continued, domestic septage may be applied at a maximum rate of 125,000 gallons per acre per year.

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

The 325 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.

Corrective Action Sites:

There are no Bureau of Corrective Actions sites within one mile of this land application site.

Wellhead Protection Program:

This facility is not within a Wellhead Protection Program or a Drinking Water Protection Area.

Schedule of Compliance:

SOC – Schedule of Compliance Table

Item #	Description	Due Date
1	All discharge monitoring reports (DMRs) and all subsequent DMRs, shall be submitted electronically through the Nevada NetDMR website. https://netdmr.ndep.nv.gov/netdmr/public/home.htm	1/28/2017

Deliverable Schedule:

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

Item #	Description	Interval	First Scheduled Due Date
1	Quarterly Report	Quarterly	7/28/2016
2	Annual Report	Annually	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 **Lahontan 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. **5/6/2016**, 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: **Nicholas Brothers, P.E.**

Date: **3/29/2016**

Title: **Professional Engineer**