

NEVADA DIVISION OF ENVIRONMENTAL PROTECTION

FACT SHEET

(pursuant to NAC 445A.236)

Permittee: Allied Sanitation Services
P.O. Box 832
Yerington, Nevada 89447

Permit: NEV2001500 – Renewal

Locations:	Peri Brothers Property	and	Peri Brothers Property
	Former Hunewill Ranch		Parcel APN 14-191-06
	Intersection of Highway 95A and Luzier Lane		Intersection of Farrell Lane and Butte Way
	Yerington, Lyon County, Nevada 89447		Yerington, Lyon County, Nevada 89447
	Latitude: 39° 01' 05" N		Latitude: 39° 05' 48" N
	Longitude: 119° 10' 57" W		Longitude: 119° 11' 45" W
	Township 13 N, Range 25 E, Sec. 4 MDB&M		Township 14 N, Range 25 E, Sec.9 MDB&M

Public Water Supply: Each site is within the 7,000-foot buffer zone of a public water supply well. Contacts listed for the identified wells are sent individual notices of the proposed discharge.

General: The Permittee proposes to continue to land apply domestic septage and grease trap material to a five-acre site southwest of the intersection of Highway 95A and Luzier Lane (95A) and to add a second land application site southeast of the intersection of Farrell Lane and Butte Way (Farrell Lane) to Authorization to Apply Domestic Septage NEV2001500. The Permittee has been authorized to land apply domestic septage at the 95A site since March 2001 under NEV2001500 and from July 2000 through April 2001 under Temporary Permit TNEV2000372.

The Permittee has land applied domestic septage to the 95A site for over five years without planting a crop to uptake the nitrogen of the applied septage. Therefore, the entire five-acre 95A parcel must be planted to utilize the applied nitrogen. This planting and the requirement to plant all fields receiving septage within one year of initial application are forcing the Permittee to relocate the land application operation to a larger parcel. The Permittee has proposed to relocate the beneficial use site to 60 acres of a 239-acre, Peri-owned parcel adjacent to the old railroad grade and the Wabuska Drain. The new 60-acre, nutrient deficient site proposed to be added to the permit will allow the Permittee to rotate between active land application areas and planted areas to ensure better utilization of applied nutrients than was attained under the previous permit. The Farrell Lane site will require clearing of native shrubs prior to land application.

The 95A site will be eliminated from the permit, as a minor modification, after the Permittee has documented that the nitrogen of the applied septage has been removed by the planted crop.

Septage Use Requirements:

-Septage beneficial use shall meet all requirements of 40CFR section 503, Standards for the Use or Disposal of Sewage Sludge.

-Domestic septage and grease trap material shall be incorporated into the soil within 6 hours of being land applied.

- A crop must be planted to uptake the nitrogen that is contained in the septage within one year of domestic septage application.

-Domestic septage and grease trap material shall not be applied to land, if the depth to ground water is less than 3 feet.

-Domestic septage and grease trap material shall not be applied to land within 100 feet of any public roadway or 600 feet from a residence.

-Domestic septage and grease trap material shall not be applied to land within 200 feet of a drinking water well not defined as a public water system well.

-Domestic septage and grease trap material shall not be applied within 1,000 feet of a public water system well.

-Domestic septage and grease trap material shall not be applied within 50 feet of an irrigation well that has been sealed per Nevada Administrative Code (NAC) 534.380.

-Domestic septage and grease trap material shall not be applied within 200 feet of an irrigation well that is not sealed or cannot be documented as sealed per NAC 534.380.

-Domestic septage and grease trap material shall not be applied within 50 feet of any irrigation or drainage ditch, swale, intermittent stream, creek, river, wetland, lake, or other surface water.

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

-The crop used to determine the annual application rate, Part I.A.4., shall be planted within one-year of the land application of septage.

-Equipment to incorporate the domestic septage and grease trap material into the soil shall be on the site and in operating condition at the time of land application.

-The domestic septage and grease trap material shall be land applied at a uniform rate by means of a spray bar, splash plate, or similar method approved by the Division.

-The domestic septage and grease trap material shall be screened through a ½-inch or finer screen to remove solids from the septage and grease trap material prior to land application. Solid material removed from the domestic septage and grease trap material shall be disposed of in an approved landfill.

-All land application sites shall be fenced and posted with warning signs stating “DOMESTIC SEPTAGE APPLIED, NO TRESPASSING”, or similar.

-Food crops shall not be grown on land that has had domestic septage applied within the past five (5) years. (Food crops are crops consumed by humans. These include, but are not limited to, fruit, vegetables, and tobacco.)

-All tanks used for storage at the beneficial use sites shall be permanently labeled to identify the contents of the tank, the Permittee, the Permittee’s phone number, and the Permittee’s address.

-If the harvested crop yield is less than the crop yield used to determine the agronomic rate, the septage application rate shall be reduced a proportional amount in subsequent years.

-If commercial nitrogen fertilizer or nitrogen from any other source is applied to this/these field(s), the agronomic rate shall be reduced a proportional amount.

-If material pumped from portable toilets, holding tanks, or similar devices where the material is unlikely to have been anaerobically digested will be land applied, the application rate shall be one-sixth of the domestic septage application rate.

Receiving Water Characteristics: The previous fact sheet for this permit listed the depth to groundwater at the 95A land application site as approximately 12 feet below ground surface (bgs). The Division of Water Resources (DWR) Well Log Database lists seventeen wells in section 4 with static water levels ranging from three to forty-seven feet. Although the file includes no water quality data, the groundwater at this site was reportedly of good quality.

The groundwater at the Farrell Lane site is reported by the Permittee to be at a depth of 22 to 25 feet bgs. There are no known wells on this property. The DWR Well Log Database lists ten wells in section 9 with static water levels ranging from four to sixty feet. No water quality data has been provided for this site.

Characteristics: Only domestic septage and grease trap material may be land applied under this permit. No analysis of the domestic septage or the grease trap material is required. Grease trap material shall be mixed with domestic septage at a rate of one part grease trap material to a minimum of three parts domestic septage, by volume, before it is land applied.

Material pumped from portable toilets, holding tanks, or similar devices where the material is unlikely to have been anaerobically digested shall be applied at one-sixth of the domestic septage land application rate.

The land application of industrial or commercial waste is not authorized by this permit.

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 the design crop yield.

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

Example: A crop nitrogen requirement of 130 pounds per acre per year and a 30-day average flow of 1,000 gallons per day would require approximately 7.5 acres per year for land application. The 130 pounds of nitrogen per acre is a conservative value for irrigated crops and 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.

The Permittee 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 application.

Over the last five reported quarters, the Permittee land applied an average of 8,000 gallons of domestic septage per month with a maximum discharge of 12,500 gallons in July 2005 and November 2005 and a minimum of 3,500 gallons in August 2005.

Schedule of Compliance: The Permittee shall implement and comply with the provisions of the schedule of compliance after approval by the Administrator, including in said implementation and compliance, any additions or modifications which the Administrator may make in approving the schedule of compliance. The Permittee shall implement and/or execute the following scheduled compliance requirements:

- a. Upon the effective date of this permit, the Permittee shall achieve compliance with the beneficial use limitations.
- b. Prior to land applying any domestic septage or grease trap material, the Permittee shall submit to the Division documentation that Peri Brothers have authorized the land application of domestic septage and grease trap material to the two properties and have authorized the Division to enter and inspect the properties for permit compliance purposes.
- c. Within sixty (60) days of the permit effective date, the Permittee shall submit an Operations and Maintenance (O&M) Manual covering the land application and beneficial use of the domestic septage and grease trap material at the Farrell Lane site to the Division for review and approval. The O&M shall include planned cropping practices, agronomic rates, septage application rates and justification for the application rates, delineation of the 60-acre site, etc.
- d. Within forty-five (45) days of the permit effective date, the Permittee shall plant a crop with an agronomic rate sufficient to utilize the nitrogen applied previously under all permits at the Highway 95A and Luzier Lane site.
- e. Within sixty (60) days of the permit effective date, the Permittee shall submit to the Division a summary of all domestic septage applied to each check at the Highway 95A and Luzier Lane site, the crop planted and the agronomic rate of the planted crop, a nitrogen balance, and the planned irrigation practices.

- f. The Highway 95A and Luzier Lane land application site shall be removed from the permit, as a minor modification, after the Permittee has documented that the nitrogen of the applied septage has been removed by the planted crop and the landowner has accepted the amount of foreign material in the soil and on the soil surface.

Rationale for Permit Requirements: Permit requirements are necessary to protect the public health and prevent the land application sites from becoming public nuisances and sources of groundwater pollution.

The crop to be planted and the crop yield of both sites shall be monitored to verify utilization of the applied nitrogen.

Groundwater monitoring is typically not required for agricultural domestic septage beneficial use sites. No groundwater monitoring will be required at these sites due to the depth to groundwater.

Proposed Determination: The Division has made the tentative determination to issue the proposed permit for a period of five (5) years.

Procedures for Public Comment: The Notice of the Division's intent to issue a permit, NEV2001500, authorizing the Permittee to continue to land apply domestic septage and grease trap material subject to the conditions contained within the permit, is being sent to the **Mason Valley News** and 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 for a period of 30 days following the date of publication of the public notice in the newspaper. The date and time by which all written comment must be postmarked or transmitted to the Division via facsimile or e-mail is 5:00 P.M. June 3, 2006. 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 determines 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.

Prepared by: Bruce Holmgren
April 2006