

NEVADA DIVISION OF ENVIRONMENTAL PROTECTION

FACT SHEET (pursuant to NAC 445.42525)

Permittee Name: Orovada General Improvement District
P. O. Box 134
Orovada, Humboldt County, Nevada 89425

Permit Number: NEV90006

Location:

The Orovada Wastewater Treatment Facility (WWTF) is located on Kunkel Lane, approximately 2.0 mile southwest of the town of Orovada, in north-central Humboldt County, Nevada.

Latitude: 41° 33' 44" N
Longitude: 117° 48' 03" W
Township 43 N, Range 37 E, Section 34

General:

The Orovada General Improvement District (GID) operates a WWTF that serves approximately 50 residential and commercial connections in the community. Orovada is a rural community located approximately 44 miles north of Winnemucca, Nevada and approximately 30 miles south of the Nevada/Idaho state line. The WWTF consists of a facultative primary lagoon with an operating area of 0.95 acres, followed by an evaporation/percolation basin of approximately 1.3 acre. The facultative lagoon is clay lined. The percolation basin is gravel lined. The facility is currently permitted for 0.020 MGD. The facility is within the 7000-foot buffer zones of two public water supply wells in the area. There is one down-gradient monitoring well associated with this permit

Receiving Water Characteristics:

Groundwater in the area of the WWTF is estimated to be 10 to 12 feet below ground surface. Groundwater monitoring in this water-bearing zone indicates nitrate levels at 2.3 to 3.9 mg/l and chloride levels at 110 to 150 mg/l. The water supply wells for the community have reported static water levels at 100 feet below surface, and so are completed in a deeper, confined aquifer.

Effluent Characteristics:

The current permit limits the WWTF by influent CBOD5 loading to 33 pounds/day. During the term of the current permit (2nd Quarter 2001 to Present), the average of reported influent loading has been 6.9 pounds/day, with a quarterly maximum of 18 pounds/day. The effluent overflows from the facultative pond to the percolation basin, which distributes the effluent to the groundwater of the State. There is no data available on effluent quality.

The facility has a design capacity of 0.020 MGD (20,000 gallons/day). The facility is currently permitted for the flow limitation of 0.020 MGD Average Monthly Flow. There is no limit on daily maximum flow.

Procedures for Public Comment:

The Notice of the Division's intent to renew a permit authorizing the facility to discharge effluent into groundwaters of the State, subject to the conditions contained within the permit is being sent to the **Humboldt Sun** 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 thirty (30) days following the date of publication of the public notice in the newspaper. The comment period can be extended at the discretion of the Administrator. All written comments are to be hand-delivered, postmarked (via mail) or transmitted to the Division via fax or e-mail **by 5:00 P.M. on December 27, 2005.**

A public hearing on the proposed determination can be requested by the applicant, any affected State, any affected interstate agency, the Regional Administrator 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.

Proposed Determination:

The Division has made the tentative determination to renew the permit for a five (5) year period.

Proposed Effluent Limitations, Schedule of Compliance and Special Conditions

Discharges from the WWTF to groundwaters of the State will be limited as follows:

PARAMETER	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS	
	30-Day Average	Daily Maximum	Measurement Frequency	Sample Type
Flow, MGD (Influent)	0.020	Monitor & Report	Weekly	Recorder
CBOD ₅ , pounds/day (Influent)	---	33	Quarterly	Discrete
TSS, mg/l (Influent)	Monitor & Report		Quarterly	Discrete
CBOD ₅ , mg/l (Effluent)	Monitor & Report		Quarterly	Discrete
TSS, mg/l (Effluent)	---	90	Quarterly	Discrete

The groundwater monitoring well shall be monitored and limited by the Permittee as follows:

PARAMETER	GROUNDWATER LIMITATION	MONITORING REQUIREMENTS	
Depth to Groundwater* (feet)	Monitor and Report	Quarterly	Discrete
Groundwater Elevation (feet AMSL)	Monitor and Report	Quarterly	Calculation
Total Nitrogen as N (mg/l)	10	Quarterly	Discrete
Chlorides (mg/l)	Monitor and Report	Quarterly	Discrete

* If dry, report as dry.

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.

- a. Within ninety (90) days of the permit issuance date, the Permittee shall submit a revised Operations & Maintenance (O&M) Manual for the wastewater treatment and disposal facility, which will include the following:
 - i. An updated seasonal maintenance plan for the treatment pond and the percolation basin, including vegetation removal; and
 - ii. A written procedure for effluent and monitor well sampling and handling.

Rationale for Permit Requirements:

The Division's rationale for the proposed monitoring conditions is as follows:

- *Flow*: Flow is tracked to ensure that the design capacity of the treatment pond is not exceeded, and that the proper monitoring regimen is followed when the facility nears design capacity.
- *CBOD₅*: The Division requires the monitoring of effluent Carbonaceous Biochemical Oxygen Demand (CBOD₅ or Inhibited BOD) as an indicator of treatment performance in the pond. The renewed permit requires sampling on a quarterly basis. Loading is limited to 33 pounds CBOD₅ to minimize odors.
- *TSS*: The TSS limit is set at 90 mg/L, at the standard expected for waste stabilization ponds. Other similarly operated waste stabilization ponds within the State meet the 90-mg/l standard.

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 October 2005