



STATE OF NEVADA

Department of Conservation & Natural Resources

DIVISION OF ENVIRONMENTAL PROTECTION

Brian Sandoval, Governor

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Colleen Cripps, Ph.D., Acting Administrator

NEVADA DIVISION OF ENVIRONMENTAL PROTECTION

FACT SHEET

(Pursuant to NAC 445A.236)

<u>Permittee Name:</u>	Churchill County Engineering & Capital Projects 155 North Taylor Street, Suite 190 Fallon, NV 89406
<u>Permit Number:</u>	NEV2007500
<u>Location:</u>	Moody Lane Regional Water Reclamation Facility 2831 Moody Lane Fallon, NV 89406 Latitude: 39° 31' 3.6" N, Longitude: 118° 48' 4.8" W T19N, R28E, Section 14 MDB&M
<u>Discharge Outfalls:</u>	001: Discharge to the evaporation basins 002: Discharge for reuse

General: Churchill County (County) has applied for renewal of groundwater discharge permit NEV2007500. The County owns the Moody Lane Regional Water Reclamation Facility (MLRWRF) which was brought online in November of 2008. MLRWRF receives influent from the Oasis Mobile Home Park, the Pine Grove and Sand Creek subdivisions, as well as some light commercial sources.

MLRWRF is a membrane bioreactor treatment plant with a design 30-day average treatment capacity of 0.600 million gallons per day (MGD). The facility headworks include a 3-millimeter mechanical auger screen with an emergency bypass channel, a vortex grit removal chamber, an equalization basin, and a 2-millimeter fine screen. The secondary treatment portion of the facility consists of two anoxic basins, two aerobic basins, and two membrane chambers. Due to the low flow currently received at the treatment plant, MLRWRF is bypassing the equalization basin and only using one train of the parallel treatment basins. Using this configuration, the current operational 30-day average treatment capacity is 0.300 MGD. Sludge is removed, dewatered and landfilled. Treated effluent is routed to a chlorine contact chamber for disinfection prior to discharge to the Wade Drain (NV0023582). MLRWRF uses an on-site solar panel array to supplement the treatment plants power requirements.

Renewal of permit NEV2007500 will allow MLRWRF to export Category B treated effluent for irrigation purposes and, during maintenance activities or emergencies, discharge to two (2) evaporation basins. The evaporation basins have been designed to receive up to 37,500 gallons per day of effluent. There are currently no reuse locations.

Flow: The Permittee has requested a 30-day average and daily maximum flow rate of 0.249 MGD.

Receiving Water: Discharge will be to groundwater of the State via percolation at future reuse locations and/or limited infiltration in the evaporation basins.

Site Groundwater: Depth to groundwater in the area is reported to be between 8 and 23 feet below ground surface. Groundwater flow at the treatment plant is reported to be to the northwest.

Well Head and Drinking Water Supply Protection: The treatment plant is not located within a Drinking Water Protection Area or a Wellhead Protection Area established for any well sources. Groundwater monitoring is not required.

Corrective Action Sites: There are no Bureau of Corrective Actions remediation sites within a one-mile radius of the facility.

Proposed Effluent Limitations: Discharge to the evaporation basins and reuse export line shall be limited and monitored according to the following table.

Sampling locations:

- i. Treatment plant headworks
- ii. Outfall 001 - Discharge line to the evaporation basins
- iii. Outfall 002 - Discharge line for reuse

Table 1: General Discharge Limitations

Parameter		Discharge Limitations		Monitoring Requirements		
		30 - Day Average	Daily Maximum	Sampling Locations	Measurement Frequency	Sample Type
Influent	Flow (MGD)	0.249	0.249	i	Continuous	Meter
	BOD ₅ (mg/L)	Monitor & Report		i	Monthly	Discrete
	TSS (mg/L)	Monitor & Report		i	Monthly	Discrete
Effluent	Flow, Evaporation Basins (MGD)	Monitor & Report	0.0375	ii	Monthly	Meter
	Flow, Reuse (MGD)	Monitor & Report	Monitor & Report	iii	Monthly	Meter
	BOD ₅ (mg/L)	30		ii, iii	Monthly	Discrete
	TSS (mg/L)	30		ii, iii	Monthly	Discrete
	Total Nitrogen (mg/L)	10		ii, iii	Monthly	Discrete
	pH (S.U.)	6.0 - 9.0		ii, iii	Monthly	Discrete
	Fecal Coliform (cfu or mpn/100 ml)	2.2	23	ii, iii	Monthly	Discrete

MGD: Million Gallons per Day

mg/L: Milligrams per Liter

S.U.: Standard Units

mpn/100 ml: Most probable number per 100 milliliters

BOD₅: 5-day Biochemical Oxygen Demand

TSS: Total Suspended Solids

cfu: Colony Forming Units

Rationale for Permit Requirements: Monitoring is required to ensure that permit flow limits are not exceeded, and to assess the level of treatment being provided.

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 that the Administrator may make in approving the schedule of compliance:

- a. The Permittee shall achieve compliance with the effluent limitations upon issuance of the permit.
- b. Within 60 days of permit issuance, the Permittee shall submit two (2) copies of an updated Operations and Maintenance (O&M) Manual for review and approval by the Division. The O&M Manual shall be compiled in accordance with appropriate sections of WTS-2, *Minimum Information Required for an Operation and Maintenance Manual for a Wastewater Treatment Plant*.

If no updates or revisions are required, the Permittee shall submit a letter by the above due date stating that there have been no changes to the previously approved O&M Manual.

- c. 60 days prior to the use of treated effluent on any County managed properties, the Permittee shall submit for review and approval, two (2) copies of an Effluent Management Plan (EMP) compiled in accordance with NDEP guidance document WTS-1B, *General Design Criteria for Preparing an Effluent Management Plan*. The EMP shall be prepared and stamped by a Nevada Registered Professional Engineer.

All third party users of reclaimed water must obtain their own discharge permits and submit site-specific EMPs unless the County accepts responsibility for the operation and management of these sites.

Before implementing changes to an approved O&M Manual or EMP, the Permittee shall submit proposed changes to the Division for review and approval.

All schedule of compliance submittals and evidence of compliance documents shall be submitted to the Bureau of Water Pollution Control at the address listed below:

**Division of Environmental Protection
Bureau of Water Pollution Control
901 S. Stewart Street, Suite 4001
Carson City, Nevada 89701**

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

Procedures for Public Comment: The Notice of the Division's intent to renew a groundwater discharge permit authorizing this facility to discharge secondary treated effluent to groundwater of the State of Nevada for a five-year period, subject to the conditions contained within the permit, is being sent to the **Reno Gazette-Journal** and **Lahontan Valley News** 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 public notice in the newspaper. The comment period can be extended at the discretion of the Administrator. The deadline date and time by which all comments are to be submitted (via postmarked mail or time-stamped faxes, e-mails, or hand-delivered items) to the Division is **June 22, 2012, by 5:00 P.M.**

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.

Prepared by: Arthur Marr, P.E.

Date: May, 2012