

NEVADA DIVISION OF ENVIRONMENTAL PROTECTION

FACT SHEET

(pursuant to NAC 445A.236)

**Permittee Name:** Clark County Water Reclamation District  
5857 East Flamingo Road  
Las Vegas, NV 89122

**Facility:** Moapa Valley Water Resource Center  
(Formerly Overton Wastewater Treatment Facility)

**Permit Number:** NEV50025

**Location:** Two miles east of the town of Overton, Clark County, Nevada

Latitude: 36° 31' 54" N  
Longitude: 114° 24' 59" W

Township 16 South, Range 68 East, Section 20

**Flow:** 0.75 MGD. (30-Day Average)

**Corrective Actions Sites:**

There are no Corrective Actions sites within 1 mile of the facility.

**Drinking Water Protection:**

The facility is not within a Drinking Water Protection Area (DWPA) or a currently established Wellhead Protection Area (WHPA).

**General:**

The Moapa Valley Water Resource Center (MVWRC) (formerly the Overton Wastewater Treatment Facility) is operated by the Clark County Water Reclamation District (CCWRD) and serves approximately 593 residential and 62 commercial connections. The WWTF formerly consisted of three asphalt lined primary treatment ponds (Primary A, B, C) in parallel, followed by four secondary lagoons (Secondary A, B, C & D). All ponds were constructed with asphalt lining on the bottom and sides. During winter months, the evaporation losses from the pond system did not exceed sewage input to the facility, and the effluent from the secondary ponds A through D was directed to two unlined percolation ponds (Ponds E & F) for discharge to the groundwaters of the State. In 2008, construction of a mechanical treatment facility, utilizing the Activated Sludge 5 Stage Bardenpho process, was begun, and the facility was completed in August 2009. Secondary treated, denitrified effluent is discharged to four unlined percolation ponds within the footprint of the former facility. With the construction of the mechanical plant, the facility can now treat up to 0.75 MGD, based on the 30-Day Average.

Wastewater is pumped from the Lewis Lane lift station to the treatment facility. Flow is monitored

continuously with a flow meter.

The groundwater at the facility is monitored via three monitoring wells. Monitoring well MW-A is up gradient of the original primary ponds and wells MW-B and MW-C are down gradient of the original percolation ponds E and F. The monitoring wells are sampled quarterly for Total Dissolved Solids (TDS), Chlorides, Total Nitrogen, Nitrate as N, depth to groundwater and groundwater water elevation. Total Nitrogen is limited at 10.0 mg/l.

**Receiving Water Characteristics:**

Upstream monitoring well (MW-A) data reported for the period from First Quarter 2004 through Third Quarter 2009 indicate average receiving water quality of the following: TDS, 2299 mg/l; Chloride, 258 mg/l; and Nitrate, 4.86 mg/l. Average depth to groundwater varies from 77.8 feet upstream of the treatment facility to 28 feet and 39 feet at monitor wells MW-B and MW-C, respectively. Groundwater gradient is east to west.

**Proposed Effluent and Groundwater Limitations and Monitoring Requirements:**

The discharge from the facility shall be monitored and limited by the following:

**Table 1 – Plant Discharge Limitations**

PARAMETER		DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS	
		30-Day Average	Daily Maximum	Measurement Frequency	Sample Type
Influent	BOD <sub>5</sub> (mg/l)	Monitor and Report		Monthly	Composite
	Total Suspended Solids (mg/l)	Monitor and Report		Monthly	Composite
	Flow (MGD)	0.75	Monitor and Report	Continuous	Recorder
Effluent	BOD <sub>5</sub> (mg/l)	30	45	Monthly	Composite
	Total Suspended Solids (mg/l)	30	45	Monthly	Composite
	Total Nitrogen as N (mg/l)	10	Monitor and Report	Monthly	Composite
	pH (Standard Units)	6.0 to 9.0		Monthly	Composite

The three monitoring wells, MW-A, MW-B, and MW-C, shall be monitored per the permit as follows:

**Table 2: Groundwater Monitoring**

PARAMETER	GROUNDWATER LIMITATIONS	MONITORING REQUIREMENTS	
		Frequency	Sample Type
Depth to Groundwater (ft)	Monitor and Report	Quarterly	Measurement
Groundwater Elevation (ft AMSL)	Monitor and Report	Quarterly	Calculate
Nitrate as N (mg/l)	Monitor and Report	Quarterly	Discrete
Total Nitrogen as N (mg/l)	10.0	Quarterly	Discrete
Chlorides (mg/l)	Monitor and Report	Quarterly	Discrete
TDS (mg/l)	Monitor and Report	Quarterly	Discrete

**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. The Permittee shall achieve compliance with the effluent limitations upon issuance of the permit.
- b. **By MMM DD, 2010**, The permit shall submit to the address below for review and approval an Operations and Maintenance (O&M) Manual, stamped by a professional engineer registered in the State of Nevada and prepared in accordance with the appropriate sections of NDEP guidance document WTS-2, *Minimum Information Required for an Operation and Maintenance Manual for a Wastewater Treatment Plant*. A copy of the approved O&M Manual shall be submitted to both the following address and the addresses listed below:

**Division of Environmental Protection  
 Bureau of Water Pollution Control - Las Vegas  
 2030 E. Flamingo Rd  
 Suite 230  
 Las Vegas, NV 89119-0837**

**Department of Conservation and Natural Resources  
 Division of Environmental Protection  
 Bureau of Water Pollution Control  
 ATTN: Compliance Coordinator  
 901 S. Stewart Street, Suite 4001  
 Carson City, Nevada 89701**

**Procedures for Public Comment:**

The Notice of the Division's intent to issue a permit authorizing the facility to discharge to the groundwater of the State of Nevada subject to the conditions contained within the permit, is being sent to the **Las Vegas Review-Journal** and **Moapa Valley Progress** 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 the public notice. The comment period can be extended at the discretion of the Administrator. **All comments must be received by NDEP by 5:00 pm, March 5, 2010.**

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 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 reissue the permit for a period of five (5) years, subject to effluent and monitoring limitations.

**Rationale for Permit Requirements**

The flow is measured in order to demonstrate that the flow to the treatment ponds is consistent with discharge permit flow limitations and to determine when design capacity of the WWTF is approached. Influent and effluent BOD<sub>5</sub> and TSS are monitored to assess proper operation of the treatment ponds and to ensure that secondary treatment standards are met. The sampling of the monitoring wells is required to ensure that degradation of groundwaters of the State of Nevada does not occur.