

NEVADA DIVISION OF ENVIRONMENTAL PROTECTION

F A C T S H E E T
(pursuant to NAC 445A.236)

Permittee Name: Utilities Inc. of Central Nevada
 1240 E. State Street Suite 115
 Pahrump, Nevada 89048

Permit Number: NEV2005505

Description of Discharge

Location: Mountain Falls Wastewater Treatment Plant
 southwest of SR 160, east of Homestead Road on Manse Road 5 miles south of Pahrump,
 Nye County, Nevada 89048

Latitude 36° 08' 45"N; Longitude 115° 57' 15"W
Section 6, T. 21 S., R. 54E., MDB&M

General:

The Permittee has applied for a renewal of its groundwater discharge permit to continue its discharge of treated wastewater to groundwaters of the state via an export pipeline to the Mountain Falls Golf Course for storage and onsite reuse irrigation, and to other approved future reuse sites for reuse irrigation. The activated sludge Sequencing Batch Reactor (SBR) package treatment plant is designed to treat up to 0.750 MGD of domestic wastewater to meet 15 mg/l BOD₅, 15 mg/l TSS and 10 mg/l Total Nitrogen as N. The plant produces a high quality denitrified, disinfected effluent suitable for reuse, and will be operated in accordance with the approved Operations and Maintenance Manual (O & M) for the facility. The plant is owned and operated by UICN. Treated effluent is disinfected to 2.2 CFU/100 ml Total Coliform quality prior to reuse for landscape irrigation at the Mountain Falls Golf Course (Outfall 001).

The plant consists of a head works with an automatic screen, a vortex grit removal system. Flow from the screen and grit removal system is directed to a lift station where it is pumped sequentially into two parallel SBR's. The SBR basins are sized to be capable of use as an equalization basin to handle peak wet weather flow conditions. Following treatment in the SBR basins, the effluent passed through sand filters and final disinfection prior to disposal/reuse. Sludge removed from the SBR basins is pumped to an aerobic digester from which the waste sludge is directed to a sludge dewatering system (screw press) for disposal in the landfill.

The Mountain Falls wastewater treatment plant serves the Mountain Falls residential subdivision area located south of Pahrump and northwest of Manse Avenue, west of SR160. The facility consists of a collection system, lift stations and an export pipeline to carry treated effluent to the Mountain Falls Golf Course for storage and reuse. Other approved reuse sites will be added as a minor modification; these include the Nye Co. fairgrounds, and other approved reuse or storage facilities.

Well Head Protection Zone Location:

The treatment facility is located within 6000 feet of the drinking water protection area of water supply wells for Terribles Ranch Casino and RV Park. This well is ranked as being highly vulnerable to inorganic contaminants.

Flow: The plant facility has a flow limit of 0.750 MGD (million gallons a day). It is presently flowing well below this limit, under 0.100 MGD.

Effluent Limitations:

The discharges shall be limited and monitored by the Permittee as specified below:

PARAMETER	DISCHARGE LIMITATIONS		MONITORING REQUIREMENTS		
	30 Day Average	Daily Maximum	Sample Location(s)	Measurement Frequency	Sample Type
Influent Flow (MGD)	.750	.750	Headworks	Continuously	Meter
Effluent Flow (MGD)	M & R	M & R	Effluent Line	Continuously	Meter
Influent CBOD ₅ (mg/l)	M & R	M & R	Headworks	Monthly	Composite
Effluent CBOD ₅ (mg/l)	15 mg/l		Outfall from Plant	Monthly	Composite
Influent TSS (mg/l)	M & R		Headworks	Monthly	Composite
Effluent TSS (mg/l)	15 mg/l		Outfall from Plant	Monthly	Composite
Effluent Total Nitrogen	10 mg/l		Outfall from Plant	Monthly	Composite
pH (S.U.)	Between 6.0 to 9.0		Effluent from plant	Monthly	Discrete
Total Coliform, (CFU/100 ml)	2.2	23	Effluent from Plant	Monthly	Discrete

Note: M & R = Monitor and Report CFU = colony forming units

ml = milliliter

MGD = million gallons per day

SU = standard units

mg/L = milligrams per liter

Receiving Water Characteristics: The receiving water is the groundwater of the State of Nevada. Based on historic data, the groundwater in the immediate area is potable and a drinking water source. Depth to groundwater is about 20-30 feet below ground surface.

Past Performance at Plant: The treatment plant has generally been meeting its stringent permit limits. A summary of the last several quarters of DMR's is provided below. The July exceedance for total coliform was a one-time sample and the average for the month was 2.0 mpn/100ml.

Date	Average CBOD ₅ mg/l	Average TSS mg/l	Total N mg/l	Max Total Coliform (mpn/100ml)
September 2010	3	5	7	1
August 2010	10	9	2	1
July 2010	5	9	2.4	290
June 2010	7	5	3	1
May 2010	10	9	2.1	1
April 2010	4	10	2	1

Procedures for Public Comment:

The notice of the Division's intent to issue a permit authorizing the facility to discharge to groundwaters of the State of Nevada subject to the conditions contained within the permit, is being sent to the **Pahrump Valley Times and the Las Vegas Review-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 the newspaper publication 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 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 scheduled by the Administrator 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 issue the proposed permit for a five (5) year period.

Schedule of Compliance and Special Conditions

- a. The Permittee shall achieve compliance with the effluent limitations upon issuance of the permit.
- b. A FOG (Fats, Oil, and Grease) Plan shall be provided for the Mountain Falls WWTP within 60 days of permit issuance

Rationale for Permit Requirements:

Monitoring is required to assess the level of treatment being provided, to determine when design capacity is being approached and to ensure that surface and groundwater's are not degraded.

Revised by Joseph Maez, December 2010