

Brian Sandoval, Governor Leo M. Drozdoff, P.E., Director Colleen Cripps, Ph.D., Administrator

FACTSHEET (pursuant to NAC 445A.236)

Permittee Name: UTILITIES INC OF CENTRAL NEVADA 410 S. GLENOAKS DRIVE PAHRUMP, NV - 89048

Permit Number: NS0089063

Location: UICN WASTEWATER TREATMENT PLANT #3, NYE HAPPY CANYON STREET - CALVADA, PAHRUMP, NV - 89048 LATITUDE: 36.193197, LONGITUDE: -116.008302 TOWNSHIP: T20S, RANGE: R53E, SECTION: S22

Outfall / Well Num	Outfall / Well Name	Location Type	Well Log Num	Outfall City	Outfall State	Outfall Zip	Outfall County	Latitude	Longitude	Receiving Water
INF	INFLUENT	Internal Outfall		PAHRUMP	NV	89048	NYE	36.193061	-116.007968	GROUNDWATER
MW1	MONITORING WELL # 1	Monitoring Well		PAHRUMP	NV	89048	NYE	36.20	-116.008333	GROUNDWATER
MW2	MONITORING WELL # 2	Monitoring Well		PAHRUMP	NV	89048	NYE	36.20	-116.008333	GROUNDWATER
MW3	MONITORING WELL # 3	Monitoring Well		PAHRUMP	NV	89048	NYE	36.20	-116.008333	GROUNDWATER
SUM	TOTAL EFFLUENT	External Outfall		PAHRUMP	NV	89048	NYE	36.193144	-116.007441	GROUNDWATER

General:

Utilities, Inc. of Central Nevada (UICN) manages and operates this tertiary sequencing batch reactor (SBR) treatment facility (Plant #3), which is located in Pahrump, Nevada. Monitoring wells are installed adjacent to the effluent storage lakes at The Property (NS2005503, formerly Willow Creek Golf Course), which receives the treated effluent from Plant #3.

This permit renewal is for the 1.5 Million Gallons per Day (MGD) UICN Plant #3. Wastewater generated in the central Pahrump service area is mostly domestic, with some commercial sewage, and is discharged into the headworks. The headworks building includes an automatic fine screening system, a vortex grit removal system, and a flow meter, with SYNECO dry air oxidizing scrubbers to prevent odors.

From the headworks, the influent is discharged into flow equalization (EQ) basins. These EQ basins are also enclosed in an enameled steel building with odor scrubbers to handle odors. From there, the wastewater is pumped into the first of the three SBR tanks, where the wastewater is treated and then discharged to a post-stabilization tank and through a series of tertiary sand filters.

After filtration, the effluent is disinfected with UV and then chlorinated prior to discharge via gravity flow to the effluent storage ponds at The Property for reuse or for winter storage. Waste activated sludge is pumped from the SBRs to the aerobic sludge digester, then to the sludge handling building where it is dewatered via a Somat system with odor control scrubbers to remove hydrogen sulfide. Dewatered sludge is removed by truck to the Pahrump landfill for disposal.

Discharge Characteristics:

UICN Plant #3 discharges tertiary treated, denitrified, and disinfected domestic sewage. The effluent is sent to The Property. Over the course of the previous permit, the only exceedances have been one each

for fecal coliform, BOD and TSS. The Permittee is in substantial compliance with the permit.

Receiving Water:

The receiving water is groundwater of the state of Nevada. The depth to groundwater in the area is approximately 70 feet below the ground surface.

Summary of Changes From Previous Permit:

In conformance with similar permits issued by the Division, the following minor changes have been made:

In the effluent monitoring, monitoring of the separate nitrogen species has been removed, and a limit of 10.0 mg/L has been applied.

The groundwater monitoring requirement has been removed.

Due to a new permit naming convention at NDEP, Bureau of Water Pollution Control, the permit ID has been changed from NEV89063 to NS0089063. This change does not reflect a change in the type of permit being issued. NEV and NS permits are for groundwater discharges to the state of Nevada. These are not to be confused with "NV" permits, which are reserved for NPDES permitting.

	[Discharge Lim	Monitoring Requirements				
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Flow rate	Daily Maximum	<= 1.5 Million Gallons per Day (Mgal/d)		Raw Sewage Influent	INF	Continuous	METER
Flow rate	30 Day Average	<= 1.5 Million Gallons per Day (Mgal/d)		Raw Sewage Influent	INF	Continuous	METER
Solids, total suspended	Monthly Maximum		M&R Milligrams per Liter (mg/L)	Raw Sewage Influent	INF	Monthly	COMPOS
Solids, total suspended	Monthly Average		M&R Milligrams per Liter (mg/L)	Raw Sewage Influent	INF	Monthly	COMPOS
BOD, carbonaceous, 05 day, 20 C	Monthly Maximum		M&R Milligrams per Liter (mg/L)	Raw Sewage Influent	INF	Monthly	COMPOS
BOD, carbonaceous, 05 day, 20 C	Monthly Average		M&R Milligrams per Liter (mg/L)	Raw Sewage Influent	INF	Monthly	COMPOS

WWTP Discharge Limitations Table for Sample Location Inf (Influent) To Be Reported Monthly

WWTP Discharge Limitations Table for Sample Location Sum (Effluent Total) To Be Reported Monthly

		Discharge Lin	Monitoring Requirements				
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Coliform, fecal, colony forming units	Monthly Maximum		<= 23 Colony Forming Units per 100ml T (CFU/100mL)	Effluent Gross	SUM	Monthly	DISCRT
Coliform, fecal, colony forming units	Monthly Average		<= 2.2 Colony Forming Units per 100ml T (CFU/100mL)	Effluent Gross	SUM	Monthly	DISCRT
pH, maximum	Monthly Maximum		<= 9 Standard Units (SU)	Effluent Gross	SUM	Monthly	DISCRT
pH, minimum	Monthly Minimum		>= 6 Standard Units (SU)	Effluent Gross	SUM	Monthly	DISCRT
Nitrogen, total	Monthly Maximum		<= 10.0 Milligrams per Liter (mg/L)	Effluent Gross	SUM	Monthly ^[1]	COMPOS
Nitrogen, total	Monthly Average		<= 10.0 Milligrams per Liter (mg/L)	Effluent Gross	SUM	Monthly ^[1]	COMPOS
Solids, total suspended	Monthly Maximum		<= 15 Milligrams per Liter (mg/L)	Effluent Gross	SUM	Monthly	COMPOS
Solids, total suspended	Monthly Average		<= 10 Milligrams per Liter (mg/L)	Effluent Gross	SUM	Monthly	COMPOS
BOD, carbonaceous, 05 day, 20 C	Monthly Maximum		<= 15 Milligrams per Liter (mg/L)	Effluent Gross	SUM	Monthly	COMPOS
BOD, carbonaceous, 05 day, 20 C	Monthly Average		<= 10 Milligrams per Liter (mg/L)	Effluent Gross	SUM	Monthly	COMPOS

Notes (WWTP Discharge Limitations Table):

^{1.}

If values are exceeded, monitor weekly for a month and adjust plant treatment to bring discharge into compliance.

PROPOSED DRAFT 2 Permit No. NS0089063

Groundwater Monitoring Wells Table for Sample Location Mw1 (Monitoring Well Mw#1) To Be Reported Quarterly

Discharge Limitations Monitoring Requirements								
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type	
Depth to water level ft below landsurface ^[2]	Quarterly Maximum	M&R Feet (ft)		Groundwater	MW1	Quarterly	DISCRT	
Water level relative to mean sea level ^[1]	Quarterly Maximum	M&R Feet (ft)		Groundwater	MW1	Quarterly	DISCRT	
Chloride (as Cl)	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW1	Quarterly	DISCRT	
Nitrogen, total	Quarterly Maximum		<= 10.0 Milligrams per Liter (mg/L)	Groundwater	MW1	Quarterly	DISCRT	
Solids, total dissolved	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW1	Quarterly	DISCRT	

Notes (Groundwater Monitoring Wells Table):

1. Groundwater Elevation.

2. Static Water Level.

Groundwater Monitoring Wells Table for Sample Location Mw2 (Monitoring Well Mw#2) To Be Reported Quarterly

Discharge Limitations Monitoring Requirements								
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type	
Depth to water level ft below landsurface ^[2]	Quarterly Maximum	M&R Feet (ft)		Groundwater	MW2	Quarterly	DISCRT	
Water level relative to mean sea level ^[1]	Quarterly Maximum	M&R Feet (ft)		Groundwater	MW2	Quarterly	DISCRT	
Chloride (as Cl)	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW2	Quarterly	DISCRT	
Nitrogen, total	Quarterly Maximum		<= 10.0 Milligrams per Liter (mg/L)	Groundwater	MW2	Quarterly	DISCRT	
Solids, total dissolved	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW2	Quarterly	DISCRT	

Notes (Groundwater Monitoring Wells Table):

1. Groundwater Elevation.

2. Static Water Level.

Groundwater Monitoring Wells Table for Sample Location Mw3 (Monitoring Well Mw#3) To Be Reported Quarterly

		Discharge Lin	Monitoring Requirements				
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Depth to water level ft below landsurface ^[2]	Quarterly Maximum	M&R Feet (ft)		Groundwater	MW3	Quarterly	DISCRT
Water level relative to mean sea level ^[1]	Quarterly Maximum	M&R Feet (ft)		Groundwater	MW3	Quarterly	DISCRT
Chloride (as Cl)	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW3	Quarterly	DISCRT
Nitrogen, total	Quarterly Maximum		<= 10.0 Milligrams per Liter (mg/L)	Groundwater	MW3	Quarterly	DISCRT
Solids, total dissolved	Quarterly Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW3	Quarterly	DISCRT

Notes (Groundwater Monitoring Wells Table):

1. Groundwater Elevation.

2. Static Water Level.

Rationale for Permit Requirements:

Monitoring and reporting are required to assess the level of treatment being provided and to ensure that groundwaters of the State are not degraded. Required parameters are monitored and reported to ensure effluent reuse requirements are maintained.

Fecal Coliform:

The effluent is used for irrigation, and is treated to Category B pathogen requirements: 2.2 CFU/100ml - monthly average, 23 CFU/100ml - monthly maximum.

Special Conditions:

SA – Special Approvals / Conditions Table

There are no Special Approval / Condition items

Flow:

The facility has a 30-Day Average flow limitation of 1.50 MGD. Influent flow is measured at the headworks via a flow meter. Effluent flow is also measured prior to discharge to the effluent storage lakes.

Corrective Action Sites:

There are no Bureau of Corrective Actions sites within one mile of this facility.

Wellhead Protection Program:

This facility is not within a Drinking Water Protection Area or a Wellhead Protection Area.

Schedule of Compliance:

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ltem #	Description	Due Date
1	The Permittee shall submit for review two copies of an updated O&M Manual, prepared in accordance with the Divison's WTS-2 guidance: Minimum Information Required for an Operations and Maintenance Manual. The O&M Manual shall be prepared by a Nevada-registered Professional Engineer or other qualified person.	9/1/2015
2	The Permittee shall submit two copies of an updated Effluent Management Plan (EMP) for review by the Division. The EMP shall be prepared and stamped by a Nevada Registered Professional Engineer.	9/1/2015

Deliverable Schedule:

Item #	Description	Interval	First Scheduled Due Date					
1	Quarterly DMRs	Quarterly	10/28/2015					
2	Annual Report	Annually	1/28/2016					

DLV- Deliverable Schedule for Reports, Plans, and Other Submittals

Procedures for Public Comment:

The Notice of the Division's intent to issue a permit authorizing the facility to discharge to groundwater of the State of Nevada subject to the conditions contained within the permit, is being sent to the **Pahrump Valley Times, 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 until 5:00 P.M. **5/18/2015**, a period of 30 days following the date 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, 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 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 issue / re-issue the proposed 5-year permit.

Prepared by: Robert Wimer

Date: 4/13/2015

Title: E.I.