



FACTSHEET
(pursuant to NAC 445A.236)

Permittee Name: MOUNTAIN CITY WATER AND SEWER USERS, INC.
428 DAVIDSON STREET
MOUNTAIN CITY, NV - 89831

Permit Number: NS0040023

Location: MOUNTAIN CITY WATER AND SEWER USERS, ELKO
BRIDGE TO NOWHERE, MOUNTAIN CITY, NV - 89831
LATITUDE: 41.833333, LONGITUDE: -115.966667
TOWNSHIP: 46 N, RANGE: 53 E, SECTION: 36

Outfall / Well Num	Outfall / Well Name	Location Type	Well Log Num	Outfall City	Outfall State	Outfall Zip	Outfall County	Latitude	Longitude	Receiving Water
001	INFLUENT	Internal Outfall		MOUNTAIN CITY	NV	89831	ELKO	41.84	-115.97	GROUNDWATER
002	EFFLUENT	External Outfall		MOUNTAIN CITY	NV	89831	ELKO	41.84	-115.9690	GROUNDWATER
003	MONITORING WELL - MW-1	Monitoring Well		MOUNTAIN CITY	NV	89831	ELKO	41.8370	-115.9690	GROUNDWATER
004	MONITORING WELL - MW-2	Monitoring Well		MOUNTAIN CITY	NV	89831	ELKO	41.8370	-115.9680	GROUNDWATER

General:

The Mountain City Water & Sewer Users Inc. operates a wastewater treatment facility (WWTF) that serves approximately 35 residents in Mountain City, Nevada. The WWTF consists of an aerated lagoon, followed by a polishing pond, providing secondary treatment. The treated effluent discharges to groundwater via percolation through four Rapid Infiltration Basins (RIBs). The treatment lagoon is design-rated for secondary treatment at 0.048 MGD (48,000 gallons per day).

Discharge Characteristics:

The discharge from the WWTF is secondary-treated effluent. Average effluent values during the past four quarters ranged from 4.2 to 20 mg/L for Five Day Inhibited Biological Oxygen Demand (BOD₅) and 5 to 120 mg/L of Total Suspended Solids (TSS). Over the last several years, the flow rate has consistently averaged around 18,000 gallons per day, roughly 40% of the design capacity of the plant. Flows fluctuate during the year depending on the amount of tourists and hunters visiting and staying in Mountain City. The treated effluent is pumped to the RIBs, which distribute the treated effluent into groundwaters of the State. The treated effluent meets State and Federal standards for secondary treatment.

Receiving Water:

Groundwater in the area of the RIBs is 10 to 26 feet below ground surface. These values fluctuate during the year depending on the amount of precipitation. Monitoring well data indicates that there has been no discernible impact to the groundwater during the previous permit period. Water quality data shows that

Mountain City does not exceed permit limits for monitored constituents: chloride, nitrate, total nitrogen, and total dissolved solids.

Summary of Changes From Previous Permit:

Mountain City lined its treatment lagoons with 80-mil HDPE to State standards during the last permit cycle. Due to the new naming conventions at the Nevada Division of Environmental Protection (NDEP), Bureau of Water Pollution Control, the permit number has been changed from NEV40023 to NS0040023. This change does not reflect a change in the type of permit being issued.

Proposed Effluent Limitations:

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

WWTP Discharge Limitations Table for Sample Location 001 (Internal Outfall) To Be Reported Monthly

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Flow rate	Monthly Maximum	<= 0.072 Million Gallons per Day (Mgal/d)		Raw Sewage Influent ^[1]	001	Weekly	METER
Flow rate	Monthly Average	<= 0.048 Million Gallons per Day (Mgal/d)		Raw Sewage Influent ^[2]	001	Weekly	METER

Notes (WWTP Discharge Limitations Table):

1. Based Upon Pump Run Times from the Lift Station
2. Based Upon Pump Run Times from the Lift Station

WWTP Discharge Limitations Table for Sample Location 001 (Internal Outfall) To Be Reported Quarterly

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Solids, total suspended	Quarterly Average		M&R Milligrams per Liter (mg/L)	Raw Sewage Influent ^[1]	001	Quarterly	DISCRT
BOD, carbonaceous, 05 day, 20 C	Quarterly Average		M&R Milligrams per Liter (mg/L)	Raw Sewage Influent ^[2]	001	Quarterly	COMPOS

Notes (WWTP Discharge Limitations Table):

1. Wet Well for the Lift Station
2. Wet Well for the Lift Station

WWTP Discharge Limitations Table for Sample Location 002 (External Outfall) To Be Reported Quarterly

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Solids, total suspended	Quarterly Maximum		<= 90 Milligrams per Liter (mg/L)	Effluent Gross ^[1]	002	Quarterly	DISCRT
BOD, carbonaceous, 05 day, 20 C	Quarterly Average		<= 45 Milligrams per Liter (mg/L)	Effluent Gross ^[1]	002	Quarterly	DISCRT

Notes (WWTP Discharge Limitations Table):

1. From the Polishing Pond Prior to RIBs

Groundwater Monitoring Wells Table for Sample Location 003 (Monitoring Well - Mw-1) To Be Reported Semi Annually

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Solids, total dissolved	Semi-Annual Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	003	Semiannual ^[2]	DISCRT
Chloride (as Cl)	Semi-Annual Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	003	Semiannual ^[2]	DISCRT
Nitrogen, nitrate total (as N)	Semi-Annual Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	003	Semiannual ^[2]	DISCRT
Nitrogen, total	Semi-Annual Maximum		<= 10 Milligrams per Liter (mg/L)	Groundwater	003	Semiannual ^[2]	DISCRT
Depth to water level ft below landsurface ^[1]	Semi-Annual Maximum	M&R Feet (ft)		Groundwater	003	Semiannual ^[2]	DISCRT

Notes (Groundwater Monitoring Wells Table):

1. Depth to groundwater (ft).
2. Sampling of the monitoring wells shall be performed in the second and fourth quarters of each year, and the results shall be submitted with the second and fourth quarter DMRs.

Groundwater Monitoring Wells Table for Sample Location 004 (Monitoring Well - Mw-2) To Be Reported Semi Annually

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Nitrogen, nitrate total (as N)	Semi-Annual Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	004	Semiannual ^[2]	DISCRT
Nitrogen, total	Semi-Annual Maximum		<= 10 Milligrams per Liter (mg/L)	Groundwater	004	Semiannual ^[2]	DISCRT
Depth to water level ft below landsurface ^[1]	Semi-Annual Maximum	M&R Feet (ft)		Groundwater	004	Semiannual ^[2]	DISCRT
Solids, total dissolved	Semi-Annual Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	004	Semiannual ^[2]	DISCRT
Chloride (as Cl)	Semi-Annual Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	004	Semiannual ^[2]	DISCRT

Notes (Groundwater Monitoring Wells Table):

1. Depth to groundwater (ft).
2. Sampling of the monitoring well shall be performed in the second and fourth quarters of each year, and the results shall be submitted with the second and fourth quarter DMRs.

Rationale for Permit Requirements:

Monitoring is required to ensure that groundwaters of the State of Nevada are not degraded. Monitoring is also required to assess the level of treatment being provided, and to determine compliance with discharge volume limitations.

Special Conditions:

There are no special approval and/or permit conditions. The Permittee is in substantial compliance with its current Discharge Permit.

SA – Special Approvals / Conditions Table

There are no Special Approval / Condition items

Flow:

The facility has a design capacity of 0.048 MGD (48,000 gallons/day). The facility is currently permitted for the following flow limitations for the 30-Day average flow and 0.072 MGD for a maximum day flow.

Corrective Action Sites:

There are no Bureau of Corrective Actions' remediation sites located within one mile of the WWTF.

Wellhead Protection Program:

The WWTF is not located within any of Elko County's wellhead protection areas.

Schedule of Compliance:

SOC – Schedule of Compliance Table

Item #	Description	Due Date
1	Mountain City's Operations and Maintenance (O&M) Manual shall be updated by a qualified person within 90 days of the issuance of this permit. The draft O&M Manual shall be submitted to NDEP for review and acceptance.	7/1/2016
2	Mountain City shall use a method approved by NDEP to determine the sludge depth in its ponds. The levels shall be tested in the 4th quarter of each year of this permit and reported in the Annual Report as the total depth of the ponds and the depth of sludge in each pond. The plan for monitoring the sludge depths shall be submitted with O&M Manual.	7/1/2016

Deliverable Schedule:

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

Item #	Description	Interval	First Scheduled Due Date
1	Quarterly DMRs	Quarterly	7/28/2016
2	Annual Report	Annually	1/28/2017

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 **Elko Daily Free Press** 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. **2/1/2016**, 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: **Steve McGoff**

Date: **4/11/2013**

Title: **Staff Engineer III**