



# STATE OF NEVADA

Department of Conservation & Natural Resources

Brian Sandoval, Governor

Leo M. Drozdoff, P.E., Director

DIVISION OF ENVIRONMENTAL PROTECTION

Colleen Cripps, Ph.D., Administrator

## FACTSHEET (pursuant to NAC 445A.236)

**Permittee Name:** CITY OF WEST WENDOVER  
P.O. BOX 2825  
WEST WENDOVER, NV - 89883

**Permit Number:** NS0010019

**Location:** WEST WENDOVER WASTEWATER TREATMENT PLANT, ELKO  
101 SOUTH ALT. HIGHWAY 93 A, WEST WENDOVER, NV - 89883  
LATITUDE: 40.726167, LONGITUDE: -114.060917  
TOWNSHIP: T33N, RANGE: R70E, SECTION: S16

Outfall / Well Num	Outfall / Well Name	Location Type	Well Log Num	Outfall City	Outfall State	Outfall Zip	Outfall County	Latitude	Longitude	Receiving Water
001	APPROVED REUSE SITES	External Outfall		WEST WENDOVER	NV	89883	ELKO	40.72616670	-114.060916	GROUNDWATER

### General:

West Wendover Wastewater Treatment Plant (WWWTP), which services a customer base of approximately 5,000 residents, several casinos, and light commercial businesses (e.g., restaurants, motels, convenience stores), is located in West Wendover, Nevada. During warmer months, a portion of the domestic wastewater influent from adjoining Wendover, Utah (approximately 1,500 residents) is discharged via lift station to the West Wendover, Nevada treatment plant. The volume of wastewater influent received from Utah residences in the summer months is approximately 0.2 to 0.4 Million Gallons per Day (MGD). After screening and grit removal in the headworks, wastewater undergoes biological treatment (e.g., activated sludge process) in two Mar-Wood aeration basins, rated at 0.5 MGD per basin. Activated sludge is periodically wasted to the aerobic sludge digester tank, prior to final dewatering in two sludge drying beds. The City of West Wendover incorporates the dewatered sludge biosolids in a municipal composting operation. The treatment plant was recently upgraded to increase the treatment capacity from 1.0 MGD to 2.0 MGD (30-day average), as well as to include denitrification in the treatment process to reduce the effluent Total Nitrogen to under 10 mg/L.

### Discharge Characteristics:

Because the upgraded plant has only recently come online, there is very limited data available for the discharge of the effluent from the upgraded plant. During the three months of discharge with available data, the WWWTP effluent was well within the proposed permit limits for BOD<sub>5</sub>, Total Suspended Solids, pH, Total Nitrogen, and Fecal Coliform.

### Receiving Water:

The receiving water for the discharge is the groundwater of the state of Nevada. Available information suggests that this groundwater is shallow and of poor quality due to high Total Dissolved Solids (TDS). West Wendover is located on alkali/mud flats (i.e., moderate to high soil salt content), which were created by evaporation of Ancient Lake Bonneville (i.e., now Bonneville Salt Flats). Municipal water for West Wendover is pumped from approximately 25 miles away from several municipal wells and a developed spring.

**Summary of Changes From Previous Permit:**

The WWWTTP has been upgraded to increase treatment capacity, as well as to increase the quality of the plant effluent. Included with the upgraded plant are an onsite laboratory and improved monitoring systems, so the monitoring frequency for effluent parameters has been increased from one to two times per month. The upgraded plant includes denitrification, so the permit limit for Total Nitrogen in the effluent has been set at 10.0 mg/L. Influent parameter monitoring has been removed from the permit.

Due to a new Permit naming convention at NDEP, Bureau of Water Pollution Control, the permit ID has been changed from NEV10019 to NS0010019. 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.

**Proposed Effluent Limitations:**

During the period beginning on the effective date of this permit and lasting until the permit expires, the Permittee is authorized to discharge treated wastewater effluent for percolation/infiltration to groundwater by storage ponds at the facility and delivery to authorized reuse water sites. The WWWTTP will be providing high quality disinfected reclaim water for reuse to the Toana Vista Golf Course and other possible authorized sites in the future.

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

Parameter	Discharge Limitations			Monitoring Requirements			
	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Flow, total	Daily Maximum	<= 2.19 Million Gallons (Mgal)		Effluent Gross	001	Continuous	METER
Solids, total suspended	Value		<= 45 Milligrams per Liter (mg/L)	Effluent Gross	001	Monthly	GRAB
Nitrogen, total	Daily Maximum		<= 10 Milligrams per Liter (mg/L)	Effluent Gross	001	Twice Per Month	GRAB
pH, minimum	Minimum		>= 6 Standard Units (SU)	Effluent Gross	001	Monthly	GRAB
pH, maximum	Maximum		<= 9 Standard Units (SU)	Effluent Gross	001	Monthly	GRAB
Coliform, fecal, colony forming units	Daily Maximum		<= 23 Colony Forming Units per 100ml T (CFU/100mL)	Effluent Gross	001	Twice Per Month	GRAB
Coliform, fecal, colony forming units	30 Day Geometric Mean		<= 2.20 Colony Forming Units per 100ml T (CFU/100mL)	Effluent Gross	001	Twice Per Month	GRAB
BOD, 5-day	Value		<= 45 Milligrams per Liter (mg/L)	Effluent Gross	001	Monthly	GRAB
Flow, total	30 Day Average	<= 1.75 Million Gallons (Mgal)		Effluent Gross	001	Continuous	METER

**Fecal Coliform:**

The Fecal Coliform limitation is set at the NAC 445A.276 bacteriological water quality requirement for reuse Category B of 2.2 CFU or MPN/100 ml, 30-day average. Therefore, in accordance with NAC 445A.2764, control of public access to the area of use is required; and, to the fullest extent possible, use is to be

conducted in a manner so that human contact with spray irrigation cannot reasonably be expected to occur.

**Special Conditions:**

SA – Special Approvals / Conditions Table

There are no Special Approval / Condition items

**Flow:**

Due to increased capacity, the flow limit for WWTP has been increased from 1.0 MGD to 1.75 MGD (30-day average), and 1.0 MGD to 2.19 MGD (Daily Maximum).

**Corrective Action Sites:**

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

**Wellhead Protection Program:**

The WWTP is not within any Wellhead Protection areas.

**Schedule of Compliance:**

SOC – Schedule of Compliance Table

There are no Schedule of Compliance items

**Deliverable Schedule:**

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

Item #	Description	Interval	First Scheduled Due Date
1	Discharge Monitoring Reports	Quarterly	7/28/2013
2	Annual Reports	Annually	1/28/2014

**Procedures for Public Comment:**

The Notice of the Division's intent to reissue 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, Reno Gazette 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. **4/26/2013** , 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.650.

**Proposed Determination:**

The Division has made the tentative determination to issue / re-issue the proposed 5-year permit.

Prepared by: **Robert Wimer**

Date: **3/21/2013**  
Title: **E.I.**