FACTSHEET
(pursuant to NAC 445A.236)

Permittee Name: ELKO COUNTY

540 COURT ST. SUITE 104
ELKO, NV 89801

Permit Number: NS0080018

Permit Type: GROUNDWATER DISCHARGE

Designation: GROUNDWATER

New/Existing: EXISTING

Location: JACKPOT SEWER TREATMENT PLANT, ELKO
1594 POND DRIVE, JACKPOT, NV 89825
LATITUDE: 41.978056, LONGITUDE: -114.656111
TOWNSHIP: 47, RANGE: 64, SECTION: 12

Outfall / Well Num	Outfall / Well Name	Location Type	Well Log Num	Latitude	Longitude	Receiving Water
EFL	EFFLUENT	External Outfall		41.978056	-114.656111	GROUNDWATER
INF	INFLUENT	Influent Structure		41.978056	-114.656111	GROUNDWATER
LF1	LEACH FIELD 1	External Outfall		41.988779	-114.662322	GROUNDWATER
LF2	LEACH FIELD 2	External Outfall		41.987186	-114.656519	GROUNDWATER
LF3	LEACH FIELD 3	External Outfall		41.994756	-114.658647	GROUNDWATER
LF4	LEACH FIELD 4	External Outfall		41.991348	-114.661316	GROUNDWATER
MW7	MONITORING WELL - MW-7	Monitoring Well		41.981388	-114.653219	GROUNDWATER
MW8	MONITORING WELL - MW-8	Monitoring Well		41.979090	-114.654095	GROUNDWATER
MW9	MONITORING WELL - MW-9	Monitoring Well		41.975995	-114.653991	GROUNDWATER
MWN	MONITORING WELL - NORTH EAST MW	Monitoring Well		41.983646	-114.655268	GROUNDWATER
MWS	MONITORING WELL - SOUTH MW	Monitoring Well		41.974868	-114.654995	GROUNDWATER
MWW	MONITORING WELL - WEST MW UP GRADIENT	Monitoring Well		41.977447	-114.655268	GROUNDWATER
REU	REUSE	External Outfall		41.980954	-114.656313	GROUNDWATER
ST1	SEPTIC TANK 1	External Outfall		41.988794	-114.661696	GROUNDWATER
ST2	SEPTIC TANK 2	External Outfall		41.987215	-114.656358	GROUNDWATER
ST3	SEPTIC TANK 3	External Outfall		41.994734	-114.658716	GROUNDWATER
ST4	SEPTIC TANK 4	External Outfall		41.9914	-114.661462	GROUNDWATER

Permit History/Description of Proposed Action

This permit is for the renewal and continued operation of the Elko County Public Works Department's wastewater treatment facility (WWTF) in Jackpot. This permit will also include the On-Site Disposal System (OSDS) of the Jackpot Golf Course Restrooms (GNEVOSDS09S0325).

The permit was initially issued in December of 1982. The last renewal was issued on January 23, 2017, and

expired on January 22, 2022; the permit has been administratively continued since.

Facility Overview

The WWTF consists of screening (removes objects such as rags, paper, plastics, and metals to prevent damage and clogging of downstream equipment, piping, and appurtenances), three treatment ponds followed by percolation beds. The first two ponds contain 200 bio-dome units. These units house biological growth and, with aeration, allow for the removal of Carbonaceous Biochemical Oxygen Demand (CBOD) constituents through aerobic processes. The third pond is a polishing pond that uses floating black plastic structures to block sunlight and prevent algae growth.

The facility discharges the treated effluent by alternating through 6 Rapid Infiltration Basins (RIBs). Filtration through the soil further reduces Five Day Inhibited Carbonaceous Biochemical Oxygen Demand (CBOD5) and Total Suspended Solids (TSS). The facility is permitted for 30-day average of 0.63 MGD and a maximum daily flow limit of 0.95 MGD.

Additionally, this permit includes four On-Site Disposal Systems (OSDS) at Jackpot Golf Course Restrooms, with a total volume of 4500 gallons.

Outfall Summary

INF Influent Structure INFLUENT samples being takinf at the end of the pipe.
EFL effluent Structure EFFLUENT samples being taken at the end of the pipe.
There are 6 monitoring wells around the WWTF:
MW7 Monitoring Well MONITORING WELL - MW-7
MW8 Monitoring Well MONITORING WELL - MW-8
MW9 Monitoring Well MONITORING WELL - MW-9
MWN Monitoring Well MONITORING WELL - NORTH EAST MW
MWS Monitoring Well MONITORING WELL - SOUTH MW
MWW Upgradient Monitoring Well MONITORING WELL - WEST MW

This is a new outfall. Currently, it is inactive, but it will be activated if the facility begins to reuse reclaimed water.
REU External Outfall REUSE

The septic tank outfalls are new for this permit, and cover the On-Site Disposal System (OSDS) of the Jackpot Golf Course Restrooms (GNEVOSDS09S0325):
ST1 External Outfall Septic tank 1 (1,500 gallons of tank capacity) Discharge to Leach Field 1
ST2 External Outfall Septic tank 2 (1,000 gallons of tank capacity) Discharge to Leach Field 2
ST3 External Outfall Septic tank 3 (1,000 gallons of tank capacity) Discharge to Leach Field 3
ST4 External Outfall Septic tank 4 (1,000 gallons of tank capacity) Discharge to Leach Field 4
LF1 External Outfall Leach Field 1
LF2 External Outfall Leach Field 2
LF3 External Outfall Leach Field 3
LF4 External Outfall Leach Field 4

Facility Upgrades since last issued permit
There have been no upgrades to the WWTF since the last renewal was issued.

Solids Handling

WWTF: Sludge will be contained in the sludge holding tank until it can be transported to a local landfill. Material removed via the mechanical bar screen is also disposed of at a local landfill.

OSDS: Septic tank solids will be trucked to the WWTF when necessary.

Effluent Management and Reuse
Treated effluent is discharged to the onsite RIBs. The facility may provide reclaimed water to offsite locations for irrigation in the future, once the facility expands, an outfall has been added for this permit.. However, due to lack of funding, there is no current timeline for the expansion.

Design Flow (and basis) and Measurement & Current Capacity

WWTF: The accurate design flow rate capacity information will be provided to the division along with the updated version of the O&M manual. The long-term average influent flow rate into the facility during the 2017 to 2024 reporting period was approximately 0.63 MGD, with a maximum daily flow limit of 0.95 MGD. There is no flow rate information for the effluent, as the previous permit did not require reporting of effluent flow.

OSDS: As the previous general permit did not include a requirement to report effluent flow, there is no flow rate information for the effluent. When necessary, septic tank solids will be pumped out.

Pretreatment Program
The WWTF facility does not meet the federal Environmental Protection Agency's (EPA's) guidelines requiring them to have a pretreatment program.

Operations & Maintenance (O&M) Manual status
The WWTF's O&M Manual was last reviewed and approved in July 2013. The Technical, Compliance, and Enforcement Branch of the Bureau of Water Pollution Control requires O&M Manuals to be updated every two (2) permit cycles, which equates to every ten (10) years. Therefore, the Permittee will need to submit an updated O&M Manual to the Division for review and approval by May 2025 (see Item #1 in the Schedule of Compliance Items Table).

Additionally, a Reclaimed Water Management Plan (RWMP, formerly known as an EMP), will need to be submitted to the Division for review and approval in case reuse activity is proposed (see Item #1 in the Spacial conditions Items Table).

Effluent Characterization

The wastewater treated at the facility comes from households (homes and apartments), businesses like casinos, hotels, and restaurants. Septic tank pump truck contents are accepted at the influent of the WWTF for treatment. There is currently no industrial wastewater being discharged to the treatment plant.

Pollutants of Concern
Pollutants of concern are any pollutant, or parameters, that are believed to be present in the discharge and could affect or alter the physical, chemical, or biological conditions of the receiving water. Common pollutants of concern for wastewater treatment plants include CBOD5, total suspended solids (TSS), pH, and total nitrogen. Additional pollutants of concern include chloride, total dissolved solids (TDS) and fecal coliform.

Receiving Water

Receiving water is to groundwater of the State. Groundwater in the area of the WWTF varies from 40 to 105 feet below the ground surface.

Compliance History

The facility was considered to be in compliance during the 2017 to 2023 reporting period.

Nevada State Network Discharge Monitoring Report (NetDMR) data, from 2017 to 2024, was reviewed as part of this permit renewal process. Three (3) exceedances of the 5-day Carbonaceous Biochemical Oxygen Demand (CBOD5) limit of 30 mg/L were reported. The last reported exceedance occurred in the fourth quarter of 2023 with a value of 42.5 mg/L.

One (1) exceedance of the effluent total suspended solids (TSS) limit was reported. The reported exceedance occurred in the first quarter of 2023 with a value of 210 mg/L.

Additionally, one (1) exceedance of the influent flow rate was reported. The reported exceedance occurred in the third quarter of 2023 with a value of 1.05 million gallons per day.

There were no other exceedances reported during the period from 2017 to 2024.

Proposed Effluent Limitations

The Permittee is authorized to discharge in accordance with the limitations, requirements and conditions of this permit. The Permittee is required to meet the following permit limits:

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

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
BOD, carbonaceous, 05 day, 20 C	30 Day Average		<= 40 Milligrams per Liter (mg/L)	Effluent Gross	EFL	Monthly	DISCRT
BOD, carbonaceous, 05 day, 20 C	Daily Maximum		<= 60 Milligrams per Liter (mg/L)	Effluent Gross	EFL	Monthly	DISCRT
BOD, carb-5 day, 20 deg C, percent removal	Monthly Minimum		>= 65 Percent (%)	Effluent Gross	EFL	Monthly	CALCTD
Solids, total suspended	Daily Maximum		<= 135 Milligrams per Liter (mg/L)	Effluent Gross	EFL	Monthly	DISCRT
Solids, total suspended	30 Day Average		<= 90 Milligrams per Liter (mg/L)	Effluent Gross	EFL	Monthly	DISCRT
Flow, total	30 Day Average		M&R Million Gallons (Mgal)	Effluent Gross	EFL	Monthly	CALCTD
Coliform, fecal general	Daily Maximum		M&R Colony Forming Units per 100ml T (CFU/100mL)[1]	Effluent Gross	EFL	Monthly	DISCRT
Solids, suspended percent removal	Monthly Minimum		>= 65 Percent (%)	Effluent Gross	EFL	Monthly	CALCTD
pH, maximum	Daily Maximum		<= 9.0 Standard Units (SU)	Effluent Gross	EFL	Monthly	DISCRT
pH, minimum	Daily Minimum		>= 6.0 Standard Units (SU)	Effluent Gross	EFL	Monthly	DISCRT

Notes (WWTP Discharge Limitations Table):

1. CFU / 100mL or MPN / 100 mL.

WWTP Discharge Limitations Table for Sample Location Efl (Effluent) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Alkalinity, bicarbonate (as CaCO3)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	EFL	Annual	DISCRT
Alkalinity, total (as CaCO3)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	EFL	Annual	DISCRT
Aluminum, total (as Al)	Daily Maximum		<= 0.2 Milligrams per Liter (mg/L)	Effluent Gross	EFL	Annual	DISCRT
Antimony, total (as Sb)	Daily Maximum		<= 0.006 Milligrams per Liter (mg/L)	Effluent Gross	EFL	Annual	DISCRT
Arsenic, total (as As)	Daily Maximum		<= 0.01 Milligrams per Liter (mg/L)	Effluent Gross	EFL	Annual	DISCRT
Barium, total (as Ba)	Daily Maximum		<= 2 Milligrams per Liter (mg/L)	Effluent Gross	EFL	Annual	DISCRT
Beryllium, total (as Be)[1]	Daily Maximum		<= 0.004 Milligrams per Liter (mg/L)	Effluent Gross	EFL	Annual	DISCRT
Cadmium, total (as Cd)[1]	Daily Maximum		<= 0.005 Milligrams per Liter (mg/L)	Effluent Gross	EFL	Annual	DISCRT
Calcium, total (as Ca)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	EFL	Annual	DISCRT
Chloride (as Cl)	Daily Maximum		<= 400 Milligrams per Liter (mg/L)	Effluent Gross	EFL	Annual	DISCRT
Chromium, total (as Cr)	Daily Maximum		<= 0.1 Milligrams per Liter (mg/L)	Effluent Gross	EFL	Annual	DISCRT
			<= 1				

WWTP Discharge Limitations Table for Sample Location Efl (Effluent) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Copper, total (as Cu)[1]	Daily Maximum		Milligrams per Liter (mg/L)	Effluent Gross	EFL	Annual	DISCRT
Fluoride, total (as F)	Daily Maximum		<= 4 Milligrams per Liter (mg/L)	Effluent Gross	EFL	Annual	DISCRT
Iron, total (as Fe)	Daily Maximum		<= 0.6 Milligrams per Liter (mg/L)	Effluent Gross	EFL	Annual	DISCRT
Lead, total (as Pb) [1]	Daily Maximum		<= 0.015 Milligrams per Liter (mg/L)	Effluent Gross	EFL	Annual	DISCRT
Magnesium, total (as Mg)	Daily Maximum		<= 150 Milligrams per Liter (mg/L)	Effluent Gross	EFL	Annual	DISCRT
Manganese, total (as Mn)	Daily Maximum		<= 0.1 Milligrams per Liter (mg/L)	Effluent Gross	EFL	Annual	DISCRT
Mercury, total (as Hg)[1]	Daily Maximum		<= 0.002 Milligrams per Liter (mg/L)	Effluent Gross	EFL	Annual	DISCRT
Nitrite plus nitrate total 1 det. (as N)	Daily Maximum		<= 10 Milligrams per Liter (mg/L)	Effluent Gross	EFL	Annual	DISCRT
Nitrogen, total	Daily Maximum		<= 10 Milligrams per Liter (mg/L)	Effluent Gross	EFL	Annual	DISCRT
pH, maximum	Daily Maximum		<= 9.0 Standard Units (SU)	Effluent Gross	EFL	Annual	DISCRT
pH, minimum	Daily Minimum		>= 6.0 Standard Units (SU)	Effluent Gross	EFL	Annual	DISCRT
Potassium, total (as K)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	EFL	Annual	DISCRT
			<= 0.05				

WWTP Discharge Limitations Table for Sample Location Efl (Effluent) To Be Reported Annually

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Selenium, total (as Se)[1]	Daily Maximum		Milligrams per Liter (mg/L)	Effluent Gross	EFL	Annual	DISCRT
Silver, total (as Ag)	Daily Maximum		<= 0.1 Milligrams per Liter (mg/L)	Effluent Gross	EFL	Annual	DISCRT
Sodium, total (as Na)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	EFL	Annual	DISCRT
Sulfate, total (as SO4)	Daily Maximum		<= 500 Milligrams per Liter (mg/L)	Effluent Gross	EFL	Annual	DISCRT
Thallium, total (as Tl)	Daily Maximum		<= 0.002 Milligrams per Liter (mg/L)	Effluent Gross	EFL	Annual	DISCRT
Solids, total dissolved	Daily Maximum		<= 1000 Milligrams per Liter (mg/L)	Effluent Gross	EFL	Annual	DISCRT
Zinc, total (as Zn)[1]	Daily Maximum		<= 5 Milligrams per Liter (mg/L)	Effluent Gross	EFL	Annual	DISCRT

Notes (WWTP Discharge Limitations Table):

1. These constitutes should be analyzed for the dissolved fraction.

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

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Flow rate	Daily Maximum	<= 0.95 Million Gallons per Day (Mgal/d)		Raw Sewage Influent	INF	Weekly	METER
Flow rate	30 Day Average	<= 0.63 Million Gallons per Day (Mgal/d)		Raw Sewage Influent	INF	Weekly	METER
Solids, total suspended	Daily Maximum		M&R Milligrams per Liter (mg/L)	Raw Sewage Influent	INF	Monthly	DISCRT
Solids, total suspended	30 Day Average		M&R Milligrams per Liter (mg/L)	Raw Sewage Influent	INF	Monthly	DISCRT
BOD, carbonaceous, 05 day, 20 C	Daily Maximum		M&R Milligrams per Liter (mg/L)	Raw Sewage Influent	INF	Monthly	COMPOS
BOD, carbonaceous, 05 day, 20 C	30 Day Maximum		M&R Milligrams per Liter (mg/L)	Raw Sewage Influent	INF	Monthly	COMPOS

WWTP Discharge Limitations Table for Sample Location Lf1 (External Outfall) To Be Reported Quarterly

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Outfall observation,visual, y/n response	Positive Results[1]	M&R Pass=0 Fail=1 (pass/fail)		See Footnote[2]	LF1	Quarterly	VISUAL

Notes (WWTP Discharge Limitations Table):

1. Report '0' as 'Pass' if the visual inspection was performed on the OSDS; otherwise, report '1' as 'Fail' if the level 1 visual inspection has not been performed on the OSDS or any surfacing, damages, or leaks have occurred.
2. Visual inspection of the leach field area shall be conducted routinely to observe if any surfacing, damages, or leaks have occurred. If surfacing is observed, report to NDEP Spill Hotline at 18883316337

WWTP Discharge Limitations Table for Sample Location Lf2 (External Outfall) To Be Reported Quarterly

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Outfall observation,visual, y/n response	Positive Results[1]	M&R Pass=0 Fail=1 (pass/fail)		See Footnote[2]	LF2	Quarterly	VISUAL

Notes (WWTP Discharge Limitations Table):

1. Report '0' as 'Pass' if the visual inspection was performed on the OSDS; otherwise, report '1' as 'Fail' if the level 1 visual inspection has not been performed on the OSDS or any surfacing, damages, or leaks have occurred.
2. Visual inspection of the leach field area shall be conducted routinely to observe if any surfacing, damages, or leaks have occurred. If surfacing is observed, report to NDEP Spill Hotline at 18883316337

WWTP Discharge Limitations Table for Sample Location Lf3 (External Outfall) To Be Reported Quarterly

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Outfall observation,visual, y/n response	Positive Results[1]	M&R Pass=0 Fail=1 (pass/fail)		See Footnote[2]	LF3	Quarterly	VISUAL

Notes (WWTP Discharge Limitations Table):

1. Report '0' as 'Pass' if the visual inspection was performed on the OSDS; otherwise, report '1' as 'Fail' if the level 1 visual inspection has not been performed on the OSDS or any surfacing, damages, or leaks have occurred.
2. Visual inspection of the leach field area shall be conducted routinely to observe if any surfacing, damages, or leaks have occurred. If surfacing is observed, report to NDEP Spill Hotline at 18883316337

WWTP Discharge Limitations Table for Sample Location Lf4 (External Outfall) To Be Reported Quarterly

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Outfall observation,visual, y/n response	Positive Results[1]	M&R Pass=0 Fail=1 (pass/fail)		See Footnote[2]	LF4	Quarterly	VISUAL

Notes (WWTP Discharge Limitations Table):

1. Report '0' as 'Pass' if the visual inspection was performed on the OSDS; otherwise, report '1' as 'Fail' if the level 1 visual inspection has not been performed on the OSDS or any surfacing, damages, or leaks have occurred.

2. Visual inspection of the leach field area shall be conducted routinely to observe if any surfacing, damages, or leaks have occurred. If surfacing is observed, report to NDEP Spill Hotline at 18883316337

WWTP Discharge Limitations Table for Sample Location St1 (External Outfall) To Be Reported Quarterly

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Outfall observation,visual, y/n response	Positive Results	M&R Yes=0; No=1 (Y=0;N=1)[1]		Internal Monitoring Point	ST1	Quarterly	VISUAL[2]

Notes (WWTP Discharge Limitations Table):

1. Report '0' as 'Yes' if the visual inspection of the septic tank was performed. Report '1' as 'No' if the visual inspection was not performed.
2. Visual inspections require: opening accessible covers, monitoring sludge and scum levels, and inspecting equipment. The sludge/solids depth must be measured annually, and when the sludge/solids depth is 50% of the liquid depth, the tank must be pumped. At a minimum the tank must be pumped once every three years.

WWTP Discharge Limitations Table for Sample Location St2 (External Outfall) To Be Reported Quarterly

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Outfall observation,visual, y/n response	Positive Results	M&R Yes=0; No=1 (Y=0;N=1)[1]		Internal Monitoring Point	ST2	Quarterly	VISUAL[2]

Notes (WWTP Discharge Limitations Table):

1. Report '0' as 'Yes' if the visual inspection of the septic tank was performed. Report '1' as 'No' if the visual inspection was not performed.

2. Visual inspections require: opening accessible covers, monitoring sludge and scum levels, and inspecting equipment. The sludge/solids depth must be measured annually, and when the sludge/solids depth is 50% of the liquid depth, the tank must be pumped. At a minimum the tank must be pumped once every three years.

WWTP Discharge Limitations Table for Sample Location St3 (External Outfall) To Be Reported Quarterly

Discharge Limitations				Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Outfall observation,visual, y/n response	Positive Results	M&R Yes=0; No=1 (Y=0;N=1)[1]		Internal Monitoring Point	ST3	Quarterly	VISUAL[2]

Notes (WWTP Discharge Limitations Table):

1. Report '0' as 'Yes' if the visual inspection of the septic tank was performed. Report '1' as 'No' if the visual inspection was not performed.
2. Visual inspections require: opening accessible covers, monitoring sludge and scum levels, and inspecting equipment. The sludge/solids depth must be measured annually, and when the sludge/solids depth is 50% of the liquid depth, the tank must be pumped. At a minimum the tank must be pumped once every three years.

WWTP Discharge Limitations Table for Sample Location St4 (External Outfall) To Be Reported Quarterly

	Discharge Limitations			Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Outfall observation,visual, y/n response	Positive Results	M&R Yes=0; No=1 (Y=0;N=1)[1]		Internal Monitoring Point	ST4	Quarterly	VISUAL[2]

Notes (WWTP Discharge Limitations Table):

1. Report '0' as 'Yes' if the visual inspection of the septic tank was performed. Report '1' as 'No' if the visual inspection was not performed.

2. Visual inspections require: opening accessible covers, monitoring sludge and scum levels, and inspecting equipment. The sludge/solids depth must be measured annually, and when the sludge/solids depth is 50% of the liquid depth, the tank must be pumped. At a minimum the tank must be pumped once every three years.

Groundwater Monitoring Wells Table for Sample Location Mw7 (Monitoring Well - Mw-7) 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	Daily Minimum	M&R Feet (ft)		Groundwater	MW7	Quarterly	INSITU
Water level relative to mean sea level	Daily Maximum	M&R Feet (ft)		Groundwater	MW7	Quarterly	CALCTD
pH	Value		M&R Standard Units (SU)	Groundwater	MW7	Quarterly	DISCRT
Chloride (as Cl)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW7	Quarterly	DISCRT
Solids, total dissolved	Daily Maximum		<= 1000 Milligrams per Liter (mg/L)	Groundwater	MW7	Quarterly	DISCRT
Nitrogen, total	Daily Maximum		<= 10 Milligrams per Liter (mg/L)	Groundwater	MW7	Quarterly	DISCRT

Groundwater Monitoring Wells Table for Sample Location Mw8 (Monitoring Well -Mw-8) 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	Daily Minimum	M&R Feet (ft)		Groundwater	MW8	Quarterly	INSITU
Water level relative to mean sea level	Daily Maximum	M&R Feet (ft)		Groundwater	MW8	Quarterly	CALCTD
pH	Value		M&R Standard Units (SU)	Groundwater	MW8	Quarterly	DISCRT
Chloride (as Cl)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW8	Quarterly	DISCRT
Solids, total dissolved	Daily Maximum		<= 1000 Milligrams per Liter (mg/L)	Groundwater	MW8	Quarterly	DISCRT
Nitrogen, total	Daily Maximum		<= 10 Milligrams per Liter (mg/L)	Groundwater	MW8	Quarterly	DISCRT

Groundwater Monitoring Wells Table for Sample Location Mw9 (Monitoring Well - Mw-9) 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	Daily Minimum	M&R Feet (ft)		Groundwater	MW9	Quarterly	INSITU
Water level relative to mean sea level	Daily Maximum	M&R Feet (ft)		Groundwater	MW9	Quarterly	CALCTD
pH	Value		M&R Standard Units (SU)	Groundwater	MW9	Quarterly	DISCRT
Chloride (as Cl)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MW9	Quarterly	DISCRT
Solids, total dissolved	Daily Maximum		<= 1000 Milligrams per Liter (mg/L)	Groundwater	MW9	Quarterly	DISCRT
Nitrogen, total	Daily Maximum		<= 10 Milligrams per Liter (mg/L)	Groundwater	MW9	Quarterly	DISCRT

Groundwater Monitoring Wells Table for Sample Location Mwn (Monitoring Well - North East Mw) 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	Daily Minimum	M&R Feet (ft)		Groundwater	MWN	Quarterly	INSITU
Water level relative to mean sea level	Daily Maximum	M&R Feet (ft)		Groundwater	MWN	Quarterly	CALCTD
pH	Value		M&R Standard Units (SU)	Groundwater	MWN	Quarterly	DISCRT
Chloride (as Cl)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MWN	Quarterly	DISCRT
Solids, total dissolved	Daily Maximum		<= 1000 Milligrams per Liter (mg/L)	Groundwater	MWN	Quarterly	DISCRT
Nitrogen, total	Daily Maximum		<= 10 Milligrams per Liter (mg/L)	Groundwater	MWN	Quarterly	DISCRT

Groundwater Monitoring Wells Table for Sample Location Mws (Monitoring Well - South Mw) 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	Daily Minimum	M&R Feet (ft)		Groundwater	MWS	Quarterly	INSITU
Water level relative to mean sea level	Daily Maximum	M&R Feet (ft)		Groundwater	MWS	Quarterly	CALCTD
pH	Value		M&R Standard Units (SU)	Groundwater	MWS	Quarterly	DISCRT
Chloride (as Cl)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MWS	Quarterly	DISCRT
Solids, total dissolved	Daily Maximum		<= 1000 Milligrams per Liter (mg/L)	Groundwater	MWS	Quarterly	DISCRT
Nitrogen, total	Daily Maximum		<= 10 Milligrams per Liter (mg/L)	Groundwater	MWS	Quarterly	DISCRT

Groundwater Monitoring Wells Table for Sample Location Mww (Monitoring Well - West Mw Up Gradient) To Be Reported Annually

	Discharge Limitations			Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Depth to water level ft below landsurface	Daily Minimum	M&R Feet (ft)		Groundwater	MWW	Quarterly	INSITU
Water level relative to mean sea level	Daily Maximum	M&R Feet (ft)		Groundwater	MWW	Quarterly	CALCTD
pH	Value		M&R Standard Units (SU)	Groundwater	MWW	Quarterly	DISCRT
Chloride (as Cl)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MWW	Quarterly	DISCRT
Solids, total dissolved	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MWW	Quarterly	DISCRT
Nitrogen, total	Daily Maximum		M&R Milligrams per Liter (mg/L)	Groundwater	MWW	Quarterly	DISCRT

Re-use Discharge Limitations Table for Sample Location Reu (Reuse) To Be Reported Monthly

	Discharge Limitations			Monitoring Requirements			
Parameter	**Base**	**Quantity**	**Concentration**	**Monitoring Loc**	**Sample Loc**	**Measurement Frequency**	**Sample Type**
Flow, total [1]	Monthly Average	M&R Million Gallons (Mgal)		See Footnote	REU	Daily When Discharging	CALCTD

Notes (Re-use Discharge Limitations Table):

1. In case of use, reclaimed water classified as Reuse category E shall be calculated in gallons per day.

Summary of Changes From Previous Permit

1. Due to new naming conventions at the Nevada Division of Environmental Protection, Bureau of Water Pollution Control, the outfall names have been changed:
From 001 to INF
From 002 to EFL
From 003 to MWS
From 004 to MWN
From 005 to MW7
From 006 to MW8
From 007 to MW9
From 008 to MWW
This change does not reflect a change in the outfalls limits.

2. a. Outfall REU- REUSE was added for a future potential reuse of the reclaimed water as category E.
b. Table "Re-use Discharge Limitations Table for Sample Location Reu (Reuse) To Be Reported Monthly" was added.
c. Special Conditions 1 and 2 were added for the reuse activity.

3. a. The septic tank outfalls were added and cover the On-Site Disposal System (OSDS) of the Jackpot Golf Course Restrooms (GNEVOSDS09S0325):
ST1 External Outfall Septic tank 1 (1,500 gallons of tank capacity)
ST2 External Outfall Septic tank 2 (1,000 gallons of tank capacity)
ST3 External Outfall Septic tank 3 (1,000 gallons of tank capacity)
ST4 External Outfall Septic tank 4 (1,000 gallons of tank capacity)
LF1 External Outfall Leach Field 1
LF2 External Outfall Leach Field 2
LF3 External Outfall Leach Field 3
LF4 External Outfall Leach Field 4

b. Tables were added for each septic tank outfall.
c. Special Conditions items # 3, 4 and 5 were added for the OSDS.

4. Monitoring well tables were slightly changed to meet current Monitoring Well standards.

5. General fecal coliform item was added to table "WWTF Discharge Limitations Table for Sample Location Efl (External Outfall) To Be Reported Monthly" in order to meet the federal secondary treatment standards.

6. Table "WWTF Discharge Limitations Table for Sample Location Efl (External Outfall) To Be Reported Monthly" was updated based on the federal secondary treatment standards.

7. Table "WWTF Discharge Limitations Table for Sample Location Efl (effluent) To Be Reported Annually" was added in order to meet the effluent limits standards.

Technology Based Effluent Limitations

Technology based effluent limitations (TBELs) are required as promulgated by the United States (U.S.) Environmental Protection Agency (EPA) for Publicly Owned Treatment Works (POTWs)
The U.S. EPA published federal secondary treatment standards at the Code of Federal Regulation (CFR) Title 40 CFR 133 following an evaluation of performance data for POTWs practicing a combination of physical and biological treatment. Facilities that reduce CBOD5 and TSS primarily using biological treatment technologies, such as trickling filters or waste stabilization ponds, might not consistently achieve the secondary treatment standards for these parameters. Therefore, the U.S. EPA established regulations at 40 CFR 133.105, which has been adopted by the state of Nevada, that include alternative standards applicable to facilities using equivalent to secondary treatment. The federal regulations define equivalent to secondary treatment standards at 40 CFR 133.105 for a 30-day average maximum CBOD5 of 40 mg/L and a 7-day average of 60 mg/L, for a 30-day average maximum TSS of 45 mg/L and a 7-day average of 65 mg/L. The Division has adopted these standards for groundwater discharges from facilities using equivalent to secondary treatment. Additionally, the Division uses a daily maximum limit in place of the 7-day average limit.

While the WWTF has had several exceedances of their previous CBOD5 and TSS effluent limits, the facility has consistently achieved an average of at least 65% removal of CBOD5, which is a requirement to qualify for the equivalent to secondary treatment standards. Therefore, WWTF is eligible for discharge limits based on equivalent to secondary treatment standards due to the facility's significant biological treatment of municipal wastewater, treated primarily in waste stabilization ponds, and its inability to consistently achieve secondary treatment standards.

The federal regulations also allow states to adjust the maximum allowable TSS concentration for waste stabilization ponds upwards from those specified in the equivalent to secondary treatment standards to conform to TSS concentrations achievable with waste stabilization ponds. The approved alternate TSS requirement in the state of Nevada is 90 mg/L as a 30-day average, implemented as an average monthly limit. WWTF is eligible for discharge limitations based on the alternate TSS requirement because the facility uses waste stabilization ponds as the principal process for secondary treatment and cannot achieve equivalent to secondary treatment standards. Furthermore, the daily maximum TSS limit was calculated using a factor of 1.5 times the average monthly limitation (90 mg/L x 1.5 = 135 mg/L).

Water Quality Based Effluent Limitations

There are currently no specific water quality standards that have been formally adopted by the State for groundwater. However, the Division has the discretion to implement effluent limitations outside water quality standards per Nevada Administrative Code (NAC) 445A.243, which states, “In establishing an effluent limitation to carry out the policy of this State set forth in in NRS 445A.305, consideration must be given to, but is not limited by, the following: ... (2) the need for standards that specify by chemical, physical, biological, or other characteristics the extent to which pollution by various substances will not be tolerated.” The constituents listed in Profile I have been vetted by the Division and have been included in groundwater discharge permits for many years as a means of regulating groundwater quality. Per Nevada Revised Statute (NRS) 445A.490, “No permit may be issued which authorizes any discharge or injection of fluids through a well into any waters of the State: ... (3) which would result in the degradation of existing or potential underground sources of drinking water.”

Basis for Effluent Limitations

Basis for Effluent Limitations are discussed in the WQBEL section.

Influent and Effluent Monitoring Requirements:

Monthly influent and effluent monitoring for CBOD5 and TSS are included to assess the treatment performance of the WWTF. A monthly sampling frequency for CBOD5 and TSS is sufficient for determining compliance with the applicable effluent limitations. Percent removal requirements for CBOD5 and TSS are established in the permit as monthly average minimums of 65%, based on secondary treatment standards.

Monthly monitoring for pH is included to assess compliance with effluent limits of 6.0 S.U. as a daily minimum and 9.0 S.U. as a daily maximum, which is consistent with secondary treatment standards for pH.

Other Required Water Quality Monitoring:
The requirement to monitor the effluent for Profile I pollutants (excluding weak acid dissociable cyanide and uranium) once per permit term is included to evaluate the quality of the effluent and determine whether the effluent has potential to impact the receiving water.

The requirement to sample the effluent for fecal coliform prior to reuse is for the protection of the environment and human health.

Monitoring Well Limitations and Other Monitoring Requirements:
The proposed permit continues groundwater monitoring to determine if discharge activities are degrading waters of the State. Furthermore, the proposed permit retains a limit of 10 mg/L for total nitrogen for the down gradient monitoring wells. Groundwater monitoring is required to verify that groundwater of the State is not degraded. The Permittee is in substantial compliance with its current discharge permit.

Septic Systems:
The Permittee is required to perform visual inspections of the septic systems to verify if the scum/sludge has or has not exceeded 50% of the liquid depth of the septic tank and to ensure the septic systems are functioning adequately to treat the domestic wastewater. Once the scum/sludge reaches 50%, the Permittee is required to pump the septic tank.

Leach Fields:
The Permittee is required to perform visual inspections of the leach field systems to verify that no water reaches the surface. If surface water appears, the Permittee shall follow the instructions in the O&M manual.

Anti-backsliding
To prevent backsliding, effluent limitations in reissued permits must be as stringent as those in the previous permit. This permit is not subject to backsliding because the limits have not changed, and only new limits have been added.

Antidegradation

The Division has developed an antidegradation regulation that is applied on a statewide basis, and which meets the statutory requirements of Nevada's water pollution control law found at Nevada Revised Statute (NRS) 445A.520 and NRS 445A.565 and is consistent with the federal antidegradation policy found at Title 40 in the Code of Federal Regulations (CFR) § 131.12. The objective of the Division's antidegradation regulation is to prevent degradation of Nevada's surface waters and maintain the unique attributes and special characteristics and water quality associated with high-quality waters.

Special Conditions

See the Special Approvals / Conditions Table below.

SA – Special Approvals / Conditions Table

Item #	Description
1	The permit holder shall report any new reuse water consumer to the Division. In case of a planned reuse, two copies of an updated Reclaimed Water Management Plan (RWMP, formerly known as an EMP), shall be submitted to the Division for review and approval. The RWMP shall be prepared in accordance with guidance document WTS-1B: General Criteria for Preparing a Reclaimed Water Management Plan. The RWMP must be stamped and signed by a Professional Engineer registered in the state of Nevada.
2	All reuse water shall meet NAC 445A.2771 Reuse category E: Approved uses.
3	The rated treatment capacity of each septic tank shall not be exceeded.
4	The septic tank treatment and disposal systems shall be used only for the treatment of domestic sewage. Domestic sewage is defined in NAC 445A.9532 and means any liquid and waterborne waste that is derived from the ordinary living process and is such a character as to permit its satisfactory disposal into a public sewer or an onsite sewage disposal system without special treatment. The term does not include industrial waste. The discharge of toxic, hazardous, industrial, or laboratory waste material to any permitted WWTF is strictly prohibited.
5	Septic tank(s) shall be pumped by a licensed septage hauler whenever the combined depth of scum and sludge equals or exceeds 50% of the total liquid depth, or more frequently as necessary to maintain efficient solids removal. Septic tanks shall be pumped at least once every three years for maintenance purposes. The date, tank number, volume of septage removed, and the name of the septage hauler shall be maintained onsite in accordance with Part A.2.8. of the permit. Sludge disposal shall be in accordance with applicable regulations.

Discharges From Future Outfalls/ Planned Facility Changes

The Permittee intends to reuse the treated effluent for a future application that meets the bacteriological quality requirements established in Nevada Administrative Code (NAC) 445A.276 for reuse category E.

Corrective Action Sites

There are no active Bureau of Corrective Action sites located within a one-mile radius of the WWTF.

Wellhead Protection Program

The outfalls are located within the Drinking Water Protection Area (DWPA), which is defined as a 3,000-foot radius around a Public Water Supply (PWS) well, of three wells with the closest PWS well located approximately 900 feet away. Leach field 1 and septic tank 1 are located in the DWPA and Wellhead Protection Area (WHPA), which represents an approximate 10-year capture zone of a well, of the closest PWS well. The wells are drilled within an unconfined aquifer at depths of 470 to 510 feet. Static water level depths range from 127 to 156 feet. Each well has a 50 to 150-foot sanitary seal. During the Vulnerability Assessment evaluations, the system was determined to have low vulnerability to IOC, SOC, and microbial contamination and moderate vulnerability to asbestos, radionuclides, and VOCs.

Schedule of Compliance:

SOC – Schedule of Compliance Table

Item #	Description	Due Date
1	The Permittee shall submit two (2) copies (one hard copy and one electronic copy) of an updated Operations & Maintenance (O&M) Manual to the Division. The O&M Manual shall cover the WWTP and the three (3) septic systems. The O&M Manual shall be prepared by a Nevada Registered Professional Engineer or a qualified person familiar with facility operations in accordance with the relevant sections of guidance document WTS-2: Minimum Information Required for an Operation and Maintenance Manual for a Wastewater Treatment Plant. The O&M Manual shall include an updated site map showing the location of septic tanks and leach fields.	4/1/2025
2	All Discharge Monitoring Reports (DMRs) shall be submitted electronically through the Nevada NetDMR website https://netdmr.ndep.nv.gov/netdmr/public/home.htm.	10/28/2024

Deliverable Schedule:

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

Item #	Description	Interval	First Scheduled Due Date
1	Quarterly DMRs	Quarterly	1/28/2025
2	Annual Report	Annually	1/28/2025

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 mailed to interested persons on our mailing list and will be posted on our website at https://ndep.nv.gov/posts. Anyone wishing to comment on the proposed permit can do so in writing until 5:00 P.M. **9/27/2024,** 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 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/re-issue the proposed 5-year permit.

Prepared by: **Lior Singer P.E. M.Sc.**
Date: **8/28/2024**
Title: **Environmental Engineer**