

FACTSHEET
(pursuant to NAC 445A.236)

Permittee Name: NEVADA GOLD MINES LLC
1655 MOUNTAIN CITY HIGHWAY
ELKO, NV 89801

Permit Number: NV0022268

Permit Type: EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURAL DISCHARGE

Designation: MINOR NPDES

New/Existing: EXISTING

Location: GOLD QUARRY MINE, EUREKA
6 MILES NORTH OF CARLIN, CARLIN, NV 89822
LATITUDE: 40.785408, LONGITUDE: -116.167997
TOWNSHIP: ELKO, RANGE: R52E, SECTION: 31

Outfall / Well Num	Outfall / Well Name	Location Type	Well Log Num	Latitude	Longitude	Receiving Water
00A	001 - END OF PIPE DISCHARGE TO MAGGIE CREEK	External Outfall		40.7875	-116.158333	MAGGIE CREEK - TRIBUTARY OF THE HUMBOLDT RIVER
MG2	001 - (MAGGIE CREEK BACKGROUND) MIDPOINT OF MAGGIE CREEK, 440 FEET UPSTREAM FROM OUTFALL 00A	Receiving Water - Ambient		40.7911	-116.160440	MAGGIE CREEK - TRIBUTARY OF THE HUMBOLDT RIVER

Permit History/Description of Proposed Action

The Permittee, Nevada Gold Mines LLC, has applied for the renewal of their National Pollutant Discharge Elimination System (NPDES) permit NV0022268 for the Gold Quarry Mine project located approximately 6 miles north of Carlin, within Eureka County, Nevada. The Permittee proposes to continue discharging intercepted groundwater to Maggie Creek via a pipeline.

This permit was first issued on April 22, 1994. The most recent permit was issued on February 1, 2018, and expired on January 31, 2023; the permit has been administratively continued since.

Facility Overview

Nevada Gold Mines LLC, a joint venture between Barrick Gold Corporation and Newmont Corporation, owns and operates the Gold Quarry Mine (Gold Quarry). The Gold Quarry is an open pit mining and milling facility located approximately six miles north of Carlin in Eureka County, Nevada. The Gold Quarry's pit spans 1,480 acres, with a design depth extending to 2,000 feet below the premixed surface grade. Discharge from groundwater dewatering wells, from open pit mining, was initiated in 1994. Dewatering wells are configured around the perimeter of the pit for groundwater management, with the most recently drilled

dewatering wells being concentrated on the eastern half of the pit. Dewatering extraction rates range from a long-term 30-day average of 13 million gallons per day (Mgal/d) to a maximum daily value of 32 Mgal/d, depending on the season and operational parameters. Previously prior to discharge, the extracted water had the option of being treated by a precipitation/filtration process to remove naturally occurring Arsenic; however, the Gold Quarry Water Treatment Facility (WTF) has not been in use since the Arsenic levels in the discharge have consistently been below the 0.05 mg/L permitted limit with the WTF being formally decommissioned in 2024.

Groundwater extracted by the dewatering wells is conveyed approximately one mile east of the Gold Quarry pit, first to cooling towers, if needed, and then to Maggie Creek, which is tributary to the Humboldt River. During high flow events in Maggie Creek, the discharge can also be diverted to the Maggie Creek Reservoir, which is located approximately 0.25-mile northeast of the cooling towers.

The Permittee developed the Maggie Creek Watershed Restoration Project in 1993 in partnership with U.S. Bureau of Land Management, Nevada Department of Wildlife, U.S. Fish and Wildlife Service, Maggie Creek Ranch, and a host of dedicated partners. The Permittee continues to manage this restoration project. Restoration efforts have reportedly seen the return of the beaver population to Maggie Creek. A fish barrier was installed in 2012 to prevent nonnative fish from migrating upstream into the reestablished Lahontan Cutthroat Trout (LCT) habitat.

Gold Quarry's Operation and Maintenance (O&M) Manual was last reviewed and approved on May 1994. The Technical, Compliance, and Enforcement Branch of the Bureau of Water Pollution Control requires O&M Manuals to be updated every ten (10) years, with an updated O&M Manual being due within 90 days of the permit reissuance date.

Outfall Summary

Outfall 00A – This external outfall is for the measuring and monitoring of the untreated groundwater removed from the mine, via dewatering wells, which is discharged into Maggie Creek.

Outfall MG2 – This external outfall is for measuring of flow rate, hardness (as CaCO₃), and total dissolved solids at a location forty feet upstream of the discharge pipe (Outfall 00A).

Effluent Characterization

Nevada State Network Discharge Monitoring Report (NetDMR) data, as reported from January 2020 to December 2025, was reviewed as part of this permit renewal process. The mine discharges extracted nuisance groundwater to Maggie Creek.

The following reported averages were taken from January 2020 through December 2025.

Abbreviations:

D.O. - Dissolved Oxygen
 mg/L – Milligrams per Liter
 Mgal/d – Million Gallons per Day
 N – Nitrogen
 NTU – Nephelometric Turbidity Unit
 PCU – Platinum Cobalt Units
 S.U. – Standard Units
 TDS - Total Dissolved Solids
 TSS - Total Suspended Solids

Outfall 00A (Effluent):

Flow Rate: 20.20 Mgal/d
 Alkalinity: 238.71 mg/L
 Aluminum: 0.30 mg/L (1 instance, the remaining being non-detected)
 Ammonia as N: 0.08 mg/L (1 instance, the remaining being non-detected)

Antimony: 0.004 mg/L
 Arsenic: 0.02 mg/L
 Barium: 0.09 mg/L
 Bicarbonate: 239 mg/L*
 Calcium: 55.83 mg/L
 Carbonate: 4.53 mg/L (7 instances, the remaining being non-detect)*
 Chloride: 13.88 mg/L
 Color: 5 PCU
 D.O.: 7.40 mg/L
 Fluoride: 0.60 mg/L (1 instance reported)
 Hardness: 233 mg/L
 Iron: 0.11 mg/L (1 instance, the remaining being non-detect)
 Magnesium: 21.03 mg/L
 Nitrite + Nitrate (as N): 6.25 mg/L
 Nitrogen, total: 10.29 mg/L (2 instances reported)
 pH: 7.88 S.U.
 Phosphorus: 0.02 mg/L
 Potassium: 11.59 mg/L
 Selenium: 0.003 mg/L
 Sodium: 40.47 mg/L
 Sulfate: 66.82 mg/L
 Temperature: 24.32°
 Thallium: 0.001 mg/L
 Total Alkalinity: 238.41 mg/L
 TDS: 356.07 mg/L
 Turbidity: 0.52 NTU
 Uranium: 0.002 mg/L*
 Zinc: 0.01 mg/L (2 instances, the remaining being non-detect)

The following permitted parameters were reported as non-detect during the period reviewed - beryllium, cadmium, chromium, copper, cyanide, lead, manganese, mercury, nickel, nitrate as N, nitrite as N, silver, sulfide, and TSS.

*Note: The Permittee self-sampled for these parameters as they were not included under the previous permit.

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. Pollutants of concern are Selenium and Sulfate (based on the findings from the Reasonable Potential Analysis), along with Alkalinity, Ammonia as N, Chloride, Color, Dissolved Oxygen, Nitrate as N, Nitrite as N, pH, Phosphorus, Temperature, TDS, TSS, Turbidity, and toxic materials (as prescribed under NAC 445A.1236).

Receiving Water

The primary receiving waterbody is the stretch of Maggie Creek at the Humboldt River. Characteristics of Maggie Creek, along the reach immediately prior to the Gold Quarry discharge, based on review of historical aerial imagery, show that Maggie Creek is often dry upstream of this discharge, but sometimes has flowing water at the point of discharge.

Applicable Water Quality Standards/Beneficial Uses

The Water Quality Standards (WQSs) for the nearest downstream control point, "Humboldt Region: Maggie Creek at the Humboldt River (Nevada Administrative Code (NAC) 445A.1496) are applicable. These WQSs include water quality criteria to protect the following beneficial uses: watering of livestock, irrigation, aquatic life, recreation involving contact with the water, recreation not involving contact with the water, municipal or domestic supply, industrial supply, and propagation of wildlife. Standards for toxic materials applicable to

designated waters (NAC 445A.1236) also apply. In addition, the standards applicable to all surface waters (NAC 445A.121) and water quality criteria for Ammonia as N (NAC 445A.118) apply.

303 (d) Listing Status

Maggie Creek is not included in the 2020-2022 303(d) List of Impaired Waters. According to Nevada's 2020 – 2022 Water Quality Integrated Report, the segment "Maggie Creek at the Humboldt River" is classified as Category 1, indicating that all designated beneficial uses are fully supported.

TMDL

Per Section 303(d)(1)(C) of the Clean Water Act (CWA), states are required to develop Total Maximum Daily Loads (TMDLs) for parameters that do not meet WQSs for a waterbody. TMDLs are incorporated into NPDES permits by establishing wasteload allocations (WLAs) that limit the allowable load of the parameter of concern from point sources.

Maggie Creek at the Humboldt River has not been included in the 303(d) List of Impaired Waters and therefore does not have a TMDL. Although Maggie Creek flows into the Humboldt River near Palisade, where EPA approved TMDLs are in place, the authorized discharge is not expected to reach or cause or contribute to an exceedance of the WQSs in any Humboldt River reach subject to a TMDL WLA. Accordingly, TMDL based effluent limitations are not required for this permit.

Waste Load Allocation

No wasteload allocations apply to this discharge.

Compliance History

The mine was in compliance during the period reviewed (January 2020 - December 2025).

Proposed Effluent Limitations

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

Discharge Limitations Table for Sample Location 00A (End Of Pipe Discharge To Maggie Creek- External Outfall) To Be Reported Monthly^[1]

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Flow rate	Daily Maximum	<= 90 Million Gallons per Day (Mgal/d)		Effluent Gross	00A	Continuous	METER
Flow rate	30 Day Average	<= 72 Million Gallons per Day (Mgal/d)		Effluent Gross	00A	Continuous	METER
Alkalinity, total (as CaCO ₃)	Daily Minimum		>= 20 Milligrams per Liter (mg/L)	Effluent Gross	00A	Monthly	DISCRT
Arsenic, dissolved (as As)	Daily Maximum		<= 50 Micrograms per Liter (ug/L)	Effluent Gross	00A	Monthly	DISCRT
Chloride (as Cl)	96 Hour		<= 230 Milligrams per Liter (mg/L)	Effluent Gross	00A	Monthly	DISCRT
Color, apparent (unfiltered sample)	Daily Maximum		<= 75 Color - Platinum Cobalt Unit (col unit (pc))	Effluent Gross	00A	Monthly	DISCRT
Iron, total recoverable	Daily Maximum		<= 1000 Micrograms per Liter (ug/L)	Effluent Gross	00A	Monthly	DISCRT
Nitrite plus nitrate total 1 det. (as N)	Daily Maximum		<= 10 Milligrams per Liter (mg/L)	Effluent Gross	00A	Monthly	DISCRT
Nitrogen, ammonia total (as N)	Daily Maximum		<= 1.32 Milligrams per Liter (mg/L)	Effluent Gross	00A	Monthly	DISCRT
Oxygen, dissolved (DO)	Daily Minimum		>= 5 Milligrams per Liter (mg/L)	Effluent Gross	00A	Daily ^[2]	DISCRT
pH, maximum	Daily Maximum		<= 9.0 Standard Units (SU)	Effluent Gross	00A	Daily ^[2]	DISCRT
pH, minimum	Daily Minimum		>= 6.5 Standard Units (SU)	Effluent Gross	00A	Monthly	DISCRT

Discharge Limitations Table for Sample Location 00A (End Of Pipe Discharge To Maggie Creek- External Outfall) To Be Reported Monthly^[1]

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Phosphorus, total (as P)	Daily Maximum		<= 0.33 Milligrams per Liter (mg/L)	Effluent Gross	00A	Monthly	DISCRT
Selenium, dissolved [as Se]	Daily Maximum		<= 3.9 Micrograms per Liter (ug/L)	Effluent Gross	00A	Monthly	DISCRT
Solids, total dissolved	Daily Maximum		<= 500 Milligrams per Liter (mg/L)	Effluent Gross	00A	Monthly	DISCRT
Sulfate (as S)	Daily Maximum		<= 250 Milligrams per Liter (mg/L)	Effluent Gross	00A	Monthly	DISCRT
Temperature, water deg. centigrade	Daily Maximum		<= 34 Degrees Centigrade (deg C)	Effluent Gross	00A	Daily ^[2]	DISCRT
Turbidity	Daily Maximum		<= 50 Nephelometric Turbidity Units (NTU)	Effluent Gross	00A	Monthly	DISCRT

Notes (Discharge Limitations Table):

1. Temperature & pH are field measurements that must be taken at the same time and location as the water sample destined for the laboratory analysis of ammonia.
2. Measuring should be done in the afternoon to determine actual concentrations or temperature.

Discharge Limitations Table for Sample Location 00A (End Of Pipe Discharge To Maggie Creek- External Outfall) To Be Reported Annually^[1]

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Aluminum, total (as Al)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	00A	Annual	DISCRT
Antimony, total recoverable	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	00A	Annual	DISCRT
Barium, total recoverable	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	00A	Annual	DISCRT
Calcium, total (as Ca)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	00A	Annual	DISCRT
Copper, dissolved (as Cu)	96 Hour		<= 18 Micrograms per Liter (ug/L)	Effluent Gross	00A	Annual	DISCRT
Cyanide, free available	96 Hour		<= 5.2 Micrograms per Liter (ug/L)	Effluent Gross	00A	Annual	DISCRT
Fluoride, total (as F)	Daily Maximum		<= 1000 Micrograms per Liter (ug/L)	Effluent Gross	00A	Annual	DISCRT
Manganese, total recoverable	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	00A	Annual	DISCRT
Magnesium, total (as Mg)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	00A	Annual	DISCRT
Mercury, dissolved (as Hg)	96 Hour		<= 0.77 Micrograms per Liter (ug/L)	Effluent Gross	00A	Annual	DISCRT
Nitrogen, nitrate total (as N)	Daily Maximum		<= 10 Milligrams per Liter (mg/L)	Effluent Gross	00A	Annual	DISCRT
			<= 1				

Discharge Limitations Table for Sample Location 00A (End Of Pipe Discharge To Maggie Creek- External Outfall) To Be Reported Annually^[1]

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Nitrogen, nitrite total (as N)	Daily Maximum		Milligrams per Liter (mg/L)	Effluent Gross	00A	Annual	DISCRT
Potassium, total (as K)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Effluent Gross	00A	Annual	DISCRT
Silver, dissolved (as Ag)	Daily Maximum		<= 14 Micrograms per Liter (ug/L)	Effluent Gross	00A	Annual	DISCRT
Solids, total suspended	Daily Maximum		<= 80 Milligrams per Liter (mg/L)	Effluent Gross	00A	Annual	DISCRT
Sulfide, total (as S)	96 Hour		<= 2 Micrograms per Liter (ug/L)	Effluent Gross	00A	Annual	DISCRT
Thallium, total recoverable	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	00A	Annual	DISCRT
Zinc, dissolved (as Zn)	96 Hour		<= 242 Micrograms per Liter (ug/L)	Effluent Gross	00A	Annual	DISCRT

Notes (Discharge Limitations Table):

1. Sample and analyze annually in the 4th quarter, and report on 4th quarter DMR.

Discharge Limitations Table for Sample Location 00A (End Of Pipe Discharge To Maggie Creek- External Outfall) To Be Reported Once During The Permit Term

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Beryllium, total recoverable (as Be)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	00A	Once Per Permit Term	DISCRT
Boron, total recoverable	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	00A	Once Per Permit Term	DISCRT
Cadmium, dissolved (as Cd)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	00A	Once Per Permit Term	DISCRT
Chromium, total recoverable	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	00A	Once Per Permit Term	DISCRT
Chromium, Hexavalent [As CR] (Chromium (VI)) ^[2]	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	00A	Once Per Permit Term	DISCRT
Chromium, Trivalent [As CR] (Chromium (III)) ^[2]	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	00A	Once Per Permit Term	DISCRT
Lead, dissolved (as Pb)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	00A	Once Per Permit Term	DISCRT
Molybdenum, total recoverable	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	00A	Once Per Permit Term	DISCRT
Nickel, total (as Ni) ^[2]	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	00A	Once Per Permit Term	DISCRT
Acrolein	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	00A	Once Per Permit Term	DISCRT
Aldrin	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	00A	Once Per Permit Term	DISCRT
			M&R				

Discharge Limitations Table for Sample Location 00A (End Of Pipe Discharge To Maggie Creek- External Outfall) To Be Reported Once During The Permit Term

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
.alpha.-Endosulfan	Daily Maximum		Micrograms per Liter (ug/L)	Effluent Gross	00A	Once Per Permit Term	DISCRT
.beta.-Endosulfan	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	00A	Once Per Permit Term	DISCRT
Benzene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	00A	Once Per Permit Term	DISCRT
Bis(2-chloroisopropyl) ether	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	00A	Once Per Permit Term	DISCRT
Chlordane (tech mix. and metabolites)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	00A	Once Per Permit Term	DISCRT
Vinyl Chloride (Chloroethylene (Vinyl))	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	00A	Once Per Permit Term	DISCRT
Chlorpyrifos	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	00A	Once Per Permit Term	DISCRT
2,4-D Salts And Esters (2 4-D)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	00A	Once Per Permit Term	DISCRT
DDT ^[1]	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	00A	Once Per Permit Term	DISCRT
4,4-DDT	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	00A	Once Per Permit Term	DISCRT
Demeton	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	00A	Once Per Permit Term	DISCRT
			M&R				

Discharge Limitations Table for Sample Location 00A (End Of Pipe Discharge To Maggie Creek- External Outfall) To Be Reported Once During The Permit Term

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Diazinon	Daily Maximum		Micrograms per Liter (ug/L)	Effluent Gross	00A	Once Per Permit Term	DISCRT
Dibutyl phthalate	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	00A	Once Per Permit Term	DISCRT
1,3-Dichlorobenzene (M-Dichlorobenzene)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	00A	Once Per Permit Term	DISCRT
1,2-Dichlorobenzene (O-Dichlorobenzene)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	00A	Once Per Permit Term	DISCRT
1,4-Dichlorobenzene (P-Dichlorobenzene)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	00A	Once Per Permit Term	DISCRT
1,2-Dichloroethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	00A	Once Per Permit Term	DISCRT
1,1-Dichloroethylene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	00A	Once Per Permit Term	DISCRT
2,4-Dichlorophenol	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	00A	Once Per Permit Term	DISCRT
1,1-Dichloropropene (Dichloropropenes)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	00A	Once Per Permit Term	DISCRT
Dieldrin	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	00A	Once Per Permit Term	DISCRT
Di-2-ethylhexyl phthalate	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	00A	Once Per Permit Term	DISCRT
			M&R				

Discharge Limitations Table for Sample Location 00A (End Of Pipe Discharge To Maggie Creek- External Outfall) To Be Reported Once During The Permit Term

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Diethyl phthalate	Daily Maximum		Micrograms per Liter (ug/L)	Effluent Gross	00A	Once Per Permit Term	DISCRT
Dimethyl phthalate	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	00A	Once Per Permit Term	DISCRT
2-Methyl-4,6-Dinitrophenol (4,6-Dinitro-2-Methylphenol)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	00A	Once Per Permit Term	DISCRT
2,4-Dinitrophenol (Dinitrophenols)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	00A	Once Per Permit Term	DISCRT
Endosulfan, total	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	00A	Once Per Permit Term	DISCRT
Endrin	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	00A	Once Per Permit Term	DISCRT
Ethylbenzene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	00A	Once Per Permit Term	DISCRT
Fluoranthene (Fluoranthene (Polynuclear Aromatic Hydrocarbon))	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	00A	Once Per Permit Term	DISCRT
Azinphos-Methyl (Guthion)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	00A	Once Per Permit Term	DISCRT
Heptachlor	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	00A	Once Per Permit Term	DISCRT
Heptachlor epoxide	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	00A	Once Per Permit Term	DISCRT
			M&R				

Discharge Limitations Table for Sample Location 00A (End Of Pipe Discharge To Maggie Creek- External Outfall) To Be Reported Once During The Permit Term

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Hexachlorocyclopentadiene	Daily Maximum		Micrograms per Liter (ug/L)	Effluent Gross	00A	Once Per Permit Term	DISCRT
Isophorone	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	00A	Once Per Permit Term	DISCRT
Lindane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	00A	Once Per Permit Term	DISCRT
Malathion	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	00A	Once Per Permit Term	DISCRT
Methoxychlor	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	00A	Once Per Permit Term	DISCRT
Mirex	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	00A	Once Per Permit Term	DISCRT
Monochlorobenzenes	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	00A	Once Per Permit Term	DISCRT
Nitrobenzene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	00A	Once Per Permit Term	DISCRT
Nonylphenol	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	00A	Once Per Permit Term	DISCRT
Parathion	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	00A	Once Per Permit Term	DISCRT
Pentachlorophenol	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	00A	Once Per Permit Term	DISCRT
			M&R				

Discharge Limitations Table for Sample Location 00A (End Of Pipe Discharge To Maggie Creek- External Outfall) To Be Reported Once During The Permit Term

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Phenol	Daily Maximum		Micrograms per Liter (ug/L)	Effluent Gross	00A	Once Per Permit Term	DISCRT
Polychlorinated biphenyls (PCBs)	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	00A	Once Per Permit Term	DISCRT
Silvex	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	00A	Once Per Permit Term	DISCRT
Carbon Tetrachloride (Tetrachloromethane (Carbon Tetrachloride))	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	00A	Once Per Permit Term	DISCRT
Toluene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	00A	Once Per Permit Term	DISCRT
Toxaphene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	00A	Once Per Permit Term	DISCRT
Tributyltin	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	00A	Once Per Permit Term	DISCRT
1,1,1-Trichloroethane	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	00A	Once Per Permit Term	DISCRT
Trichloroethylene	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	00A	Once Per Permit Term	DISCRT
Trihalomethane, tot.	Daily Maximum		M&R Micrograms per Liter (ug/L)	Effluent Gross	00A	Once Per Permit Term	DISCRT

Notes (Discharge Limitations Table):

1. DDT & metabolites.
2. Sampling must be collected and analyzed for the dissolved fraction.

Discharge Limitations Table for Sample Location Mg2 (Midpoint Of Maggie Creek-Receiving Water - Ambient) To Be Reported Monthly

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Flow rate	Daily Maximum	M&R Cubic Feet per Second (ft ³ /sec)		Upstream Monitoring	MG2	Monthly	METER
Solids, total dissolved	Daily Maximum		M&R Milligrams per Liter (mg/L)	Upstream Monitoring	MG2	Monthly	DISCRT
Hardness, total (as CaCO ₃)	Daily Maximum		M&R Milligrams per Liter (mg/L)	Upstream Monitoring	MG2	Monthly	DISCRT

Summary of Changes From Previous Permit

Outfall 00A, To Be Reported Monthly, the following parameters were either changed, added, or deleted:

DELETED – All parameters with a “Monthly Average Base” which included the following constituents: Alkalinity, Chloride, Color, Cyanide, D.O., Iron, Manganese, Mercury, Nitrite as N, Nitrite plus nitrate total 1 det (as N), pH, Phosphorus, TDS, TSS, Temperature, and Turbidity.

DELETED – Manganese, total recoverable, with a “Daily Maximum” Base. Moved to Annual reporting.

DELETED – Mercury, dissolved (as Hg), with a “Daily Maximum” Base.

DELETED – Mercury, dissolved (as Hg), with a “4-Day Average” Base. Move to Annual reporting.

DELETED - Nitrogen, nitrate total, with a "Daily Maximum" Base. Move to Annual reporting.

DELETED – Nitrogen, nitrite total, with a “Daily Maximum” Base. Move to Annual reporting.

CHANGED - Arsenic, dissolved, concentration units were changed from a "0.05 milligrams per liter (mg/L)" Concentration to a "50 micrograms per liter (ug/L)" Concentration, the remaining discharge limitations were unchanged.

CHANGED – Nitrogen, ammonia total (as N), from a "30-Day Average" Base to a "Daily Maximum" Base, along with changing the concentration from a "<=1.0 Ratio (Ratio)" Concentration to a "1.32 Milligrams per Liter (mg/L)" Concentration, with the other discharge limitations remaining unchanged from the previous permit. This is based on current unit measurements as prescribed under NAC 445A.118.

CHANGED - Solids, total dissolved, with a "Daily Maximum" Base, from a "<=400 Milligrams per Liter (mg/L)" to a "<=500 Milligrams per Liter (mg/L)", with the remaining monitoring requirements being unchanged from the previous permit. The 500 mg/L is prescribed under NAC 445A.1496.

ADDED – Selenium, dissolved (as Se), with a “Daily Maximum” Base, a “<=3.9 Micrograms per Liter (ug/L)” Concentration, an “Effluent Gross” Monitoring Location, a “00A” Sample Location, a “Monthly” Measurement Frequency, and a “DisCRT” Sample Type.

ADDED – Sulfate (as S), with a “Daily Maximum” Base, a “<=250 Milligrams per Liter (mg/L)” Concentration,

an "Effluent Gross" Monitoring Location, a "00A" Sample Location, a "Monthly" Measurement Frequency, and a "Discret" Sample Type.

DELETED - Footnotes 1, 2, 3. Footnote 4 was renumbered to 1.

ADDED - Footnote 2.

2. Measuring should be done in the afternoon to determine actual concentrations or temperature.

Under Outfall 00A, To Be Reported Annually, the following parameters were added, changed, or deleted:

CHANGED - Copper, dissolved (as Cu), with a "Daily Maximum" from a " ≥ 1.0 Ratio (Ratio)" Concentration to a " ≤ 18 Micrograms per Liter (ug/L)" Concentration, based on measurement units as prescribed under NAC 445A.1236, the remaining monitoring parameters were unchanged. See Basis for Effluent Limitations Section for additional information.

CHANGED - Silver, dissolved (as Ag), with a "Daily Maximum" from a " ≥ 1.0 Ratio (Ratio)" Concentration to a " ≤ 14 Micrograms per Liter (ug/L)" Concentration, based on measurement units as prescribed under NAC 445A.1236, the remaining monitoring parameters were unchanged. See Basis for Effluent Limitations Section for additional information.

CHANGED – Thallium, total recoverable, "Daily Maximum" Base, from a "M&R Milligrams per Liter (mg/L)" Concentration to a "M&R Micrograms per Liter (ug/L)", with the other discharge limitations remaining the same as the previous permit.

CHANGED - Zinc, dissolved (as Zn), with a "96-hour" Base, from a " ≤ 1.0 Ratio (Ratio)" Concentration to a " ≤ 242 Micrograms per Liter (ug/L)", with the remaining monitoring requirements being unchanged from the previous permit. This was changed based on measurement units prescribed under NAC 445A.1236, and current Division reporting standards. See Basis for Effluent Limitations Section for additional information.

ADDED - Cyanide, free, with a "96 hour" Base, an "5.2 Micrograms per Liter (ug/L)" Concentration, an "Effluent Gross" Monitoring Location, a "00A" Sample Location, a "Annual" Measurement Frequency, and a "Discret" Sample Type.

ADDED - Manganese, total recoverable, with a "Daily Maximum" Base, an "M&R Micrograms per Liter (ug/L)" Concentration, an "Effluent Gross" Monitoring Location, a "00A" Sample Location, a "Annual" Measurement Frequency, and a "Discret" Sample Type.

ADDED – Mercury, dissolved (as Hg), with a "96-hour" Base, a " ≤ 0.77 Micrograms per Liter (ug/L)" Concentration, a "Effluent Gross" Monitoring Location, a "00A" Sample Location, an "Annual" Measurement Frequency, and a "Discret" Sample Type.

ADDED – Nitrogen, nitrate total (as N), with a "Daily Maximum" Base, a " ≤ 10 Milligrams per Liter (mg/L)" Concentration, a "Effluent Gross" Monitoring Location, a "00A" Sample Location, an "Annual" Measurement Frequency, and a "Discret" Sample Type.

ADDED - Nitrogen, nitrite total (as N), with a "Daily Maximum" Base, an " ≤ 1 Milligrams per Liter (mg/L)" Concentration, an "Effluent Gross" Monitoring Location, a "00A" Sample Location, a "Annual" Measurement Frequency, and a "Discret" Sample Type.

ADDED - Solids, total suspended, with a "Daily Maximum" Base, a " ≤ 80 Milligrams per Liter (mg/L)" Concentration, a "Effluent Gross" Monitoring Location, a "00A" Sample Location, an "Annual" Measurement Frequency, and a "Discret" Sample Type.

DELETED - Beryllium, total (as Be), with a "Daily Maximum" Base, was moved to "Once per Permit Term" reporting and the Concentration changed to "Monitor and Report (M&R) micrograms per liter (ug/L)". The reporting requirement was changed due to 5 years of non-detect concentrations reported during the period reviewed.

DELETED - Cadmium, dissolved, with a "Daily Maximum" Base. Moved to "Once a Permit Term" reporting due to being concentrations being non-detect during period reviewed.

DELETED - Chromium, total (as Cr), with a "Daily Maximum" Base. Moved to "Once a Permit Term" reporting due to being concentrations being non-detect during period reviewed.

DELETED – Hardness, total (as CaCO₃), with a “Daily Maximum” Base. Moved to Outfall MG2.

DELETED – Lead, dissolved (as Pb), with a “Daily Maximum” Base. Moved to “Once Per Permit Term” Outfall due to being reported as non-detect during the period reviewed.

DELETED - Nickel, total recoverable, with a “Daily Maximum” Base. Moved to “Once Per Permit Term” Outfall due to being reported as non-detect during the period reviewed.

DELETED – Selenium, total recoverable, with a “4-Day Average” Base. This parameter was moved to Monthly reporting based on findings from the Reasonable Potential Analysis and the Base changed to a "Daily Maximum" to adhere to current Division reporting standards.

DELETED – Sulfate, total (as SO₄), with a “Daily Maximum” Base. This parameter was moved to Monthly reporting based on findings from the Reasonable Potential Analysis.

DELETED – Sodium, total (as Na), with a “Daily Maximum” Base.

DELETED - Footnotes 2, 3, 4, 5, 6, 7, 8, and 9.

ADDED – Outfall 00A, To Be Reported Once During the Permit Term, along with the following parameters:

ADDED – Toxic Materials, as prescribed under NAC 445A.1236, with a “Daily Maximum” Base, an “M&R Micrograms per Liter (ug/L)” Concentration, an “Effluent Gross” Monitoring Location, a “00A” Sample Location, a “Once Per Permit Term” Measurement Frequency, and a “Discret” Sample Type. This list includes analytes that were previously under Annual reporting - Beryllium, Cadmium, Chromium, Lead, and Nickel.

ADDED - Footnotes 1 and 2.

1. DDT & metabolites.

2. Sampling must be collected and analyzed for the dissolved fraction.

Under Outfall MG2, To be Reported Monthly, the following parameter was added:

CHANGED - Flow Rate, with a "Daily Maximum" Base, changed Quantity from "M&R Million Gallons per Day (Mgal/d)" to "M&R Cubic Feet per Second (CFS)" with the remaining monitoring requirements being unchanged.

CHANGED – All parameters from a “Receiving Water” Monitoring Location to a “Upstream Monitoring” Monitoring Location, the other discharge limitations were unchanged.

ADDED – Hardness, total (as CaCO₃), with a “Daily Maximum” Base, a “M&R Milligrams per Liter (mg/L)” Concentration, a “Upstream Monitoring” Monitoring Location, a “MG2” Sample Location, a “Monthly” Measurement Frequency, and a “Discret” Sample Type.

Under the SOC – Schedule of Compliance Table, the Item 1 statement was changed to:

CHANGED - The Permittee shall submit two copies (one hard copy and one electronic copy) of an updated Operations and Maintenance (O&M) Manual for review and approval by the Division. The O&M Manual shall follow Division’s guidance document, WTS-2A Minimum Information for an Operations and Maintenance

(O&M) Manual for Pump-and-Treat Facilities and Dewatering Operations, which should include the dewatering system, discharge system, and sampling and monitoring protocols. The document should be prepared and wet stamped by a licensed, qualified Nevada professional engineer (P.E.).

ADDED - Item 2. Ambient Water Quality Monitoring

The Permittee shall conduct ambient water quality monitoring in the receiving water in accordance with an approved Quality Assurance Project Plan (QAPP). The Permittee shall submit a QAPP, with geographic coordinates (latitude/longitude) for all monitoring locations to the Division for approval before monitoring begins. Any revisions must also be approved prior to implementation.

Under the SA – Special Approvals / Conditions Table the following items were deleted:

DELETED - Item 3. Monitoring Frequency.

DELETED – Item 4. Continuation of submittals to DMRs electronically.

ADDED - Item 3. Ambient Water Quality Monitoring

1. The Permittee shall conduct ambient water quality monitoring in the receiving water in accordance with an approved Quality Assurance Project Plan (QAPP).
2. The Permittee shall submit a QAPP to the Division for approval before monitoring begins. Any revisions must also be approved prior to implementation.
3. The Permittee shall provide geographic coordinates (latitude/longitude) for all monitoring locations with the QAPP and with any subsequent data submissions if locations change.
4. For each monitoring event, the permittee shall submit to the Division:
 - PDF copies of analytical laboratory reports
 - Electronic Data Deliverables (EDDs) in a Division approved format
 - A brief summary of field observations and any deviations from the QAPP
 - Updated coordinates, if applicable
5. All monitoring data and documentation shall be submitted on an annual basis and are due by January 28 of the following year.
6. The Permittee shall retain all monitoring related records for a minimum of 3 years and make them available to the Division upon request.
7. Failure to conduct monitoring or submit required documentation constitutes permit noncompliance.

Technology Based Effluent Limitations

Technology based effluent limitations (TBELs) established under Title 40 of the Code of Federal Regulations (CFR) Part 440 Subpart J, the best practicable control technology (BPT) states, "The concentration of pollutants discharged in mine drainage from mines operated to obtain copper bearing ores, lead bearing ores, zinc bearing ores, gold bearing ores, or silver bearing ores, or any combination of these ores open pit or underground operations other than placer deposits shall not exceed: *"a maximum for any one (1) day of 30 mg/L and an average of daily values for 30 consecutive days of 20 mg/L for total suspended solids (TSS)."* As the Gold Quarry is only performing dewatering activities, the above TBELs are not applicable. Therefore, the proposed daily maximum limit of 30 mg/L and the 30-day average limit of 20 mg/L for TSS are not valid. However, WQSs listed at NAC 445A.1496 apply. Hence, in accordance with the aquatic beneficial use, a daily maximum limit of 80 mg/L for TSS is maintained. The monthly average limit for TSS has been removed.

Water Quality Based Effluent Limitations

The following water quality-based effluent limit (WQBEL) requirements, based on NAC 445A.1496 are included in the proposed permit to ensure that the discharge does not cause WQS violations.

Monthly Reported Parameters

The proposed permit maintains a daily minimum limit of 20 mg/L for Alkalinity as prescribed under NAC 445A.1496, to protect the aquatic life designated beneficial use, with a monthly reporting requirement.

The proposed permit maintains a daily maximum of 1.32 mg/L for Ammonia as N, as prescribed under NAC 445A.118, to protect the aquatic life beneficial use, with a monthly reporting requirement.

The proposed permit retains a daily maximum limit of 50 ug/L for Arsenic as prescribed under NAC 445A.1236, to protect the municipal or domestic supply designated beneficial use, with a monthly reporting requirement.

The proposed permit retains a 96-hour limit of 230 mg/L for Chloride, as prescribed under NAC 445A.1496, to protect the aquatic life beneficial use, with a monthly reporting requirement.

The proposed permit retains a daily maximum limit of 75 Platinum Cobalt Unit (col unit (pc)) for Color as prescribed under and NAC 445A.1496, to protect the municipal or domestic supply designated beneficial use, with a monthly reporting requirement.

The proposed permit maintains a daily minimum limit of 5 milligrams per liter (mg/L) for Dissolved Oxygen (D.O.) as prescribed under NAC 445A.1496 to protect the aquatic life designated beneficial use, with a monthly reporting requirement.

The proposed permit retains a daily maximum limit of 1,000 ug/L for Iron as prescribed under NAC 445A.1236, to protect the aquatic life designated beneficial use, with a monthly reporting requirement.

The proposed permit maintains a daily maximum limit of 9.0 standard units (S.U.) for pH and a daily minimum limit of 6.5 S.U. for pH as prescribed under NAC 445A.1496, to protect the aquatic life beneficial use, with a monthly reporting requirement.

The proposed permit retains a daily maximum limit of 0.33 mg/L for Phosphorus as prescribed under NAC 445A.1496 to protect the aquatic life beneficial use, with a monthly reporting requirement.

The proposed permit maintains a daily maximum limit of 500 mg/L for TDS, as prescribed under NAC 445A.1496, to protect the municipal or domestic supply beneficial use, with a monthly reporting requirement. This was 400 mg/L under the previous permit.

The proposed permit maintains a daily maximum limit of 34 Degrees Centigrade (deg C) for Temperature as prescribed under NAC 445A.1496 to protect the aquatic life designated beneficial use, with a monthly reporting requirement.

The proposed permit retains a daily maximum limit of 50 Nephelometric Turbidity Units (NTU) for Turbidity as prescribed under NAC 445A.1496, to protect the aquatic life designated beneficial use, with a monthly reporting requirement.

Annual Reported Parameters

The proposed permit retains a daily maximum of M&R ug/L for Antimony as prescribed under NAC 445A.1236, to protect the municipal or domestic supply designated beneficial use, with an annual reporting requirement.

The proposed permit retains a daily maximum of M&R ug/L for Barium as prescribed under NAC 445A.1236, to protect the municipal or domestic supply designated beneficial use, with an annual reporting requirement.

The proposed permit retains a 96-hour limit of 5.2 ug/L for Cyanide as prescribed under NAC 445A.1236, to protect the aquatic life beneficial use, with an annual reporting requirement. This reporting requirement

was changed from "monthly" under the previous permit to "annually" on the proposed permit based on five years of non-detect concentrations being reported.

The proposed permit retains a daily maximum limit of 1,000 ug/L for Fluoride as prescribed under NAC 445A.1236, to protect the irrigation beneficial use, with an annual reporting requirement.

The proposed permit retains a daily maximum limit of M&R mg/L for Hardness (as CaCO₃), with an monthly reporting requirement.

The proposed permit retains a daily maximum limit of M&R ug/L for Manganese as prescribed under NAC 445A.1236, to protect the irrigation beneficial use, with an annual reporting requirement. This reporting requirement was changed from "monthly" under the previous permit to "annually" on the proposed permit based on five years of non-detect concentrations being reported.

The proposed permit retains a 96-hour limit of 0.77 ug/L for Mercury as prescribed under NAC 445A.1236, to protect the aquatic life designated beneficial use, with an annual reporting requirement. This reporting requirement was changed from "monthly" under the previous permit to "annually" on the proposed permit based on five years of non-detect concentrations being reported.

The proposed permit retains a daily maximum limit of 10 mg/L for Nitrate as N, to protect the municipal or domestic supply beneficial use, with an annual reporting requirement. The measurement frequency was changed due to the parameter being non-detect during the period reviewed.

The proposed permit retains a daily maximum limit of 1 mg/L for Nitrite as N as prescribed under NAC 445.1496, to protect the municipal or domestic supply designed beneficial use, with an annual reporting requirement. The measurement frequency was changed due to the parameter being non-detect during the period reviewed.

The proposed permit retains a 96-hour limit of 2 ug/L for Sulfide as prescribed under NAC 445A.1236, to protect the aquatic life designated beneficial use, with an annual reporting requirement.

The proposed permit retains a daily maximum limit of 80 mg/L for TSS as prescribed under NAC 445A.1496, to protect the aquatic life beneficial use, with a monthly reporting requirement. This reporting requirement was changed from "monthly" under the previous permit to "annually" on the proposed permit based on five years of non-detect concentrations being reported.

Reasonable Potential Analysis (RPA)

Section 301(b)(1)(c) of the CWA requires effluent limitations necessary to meet WQSs, and Title 40 of the CFR section 122.44(d) requires permits to include conditions that are necessary to achieve WQSs established under section 303 of the CWA, including state narrative criteria for water quality. Federal regulations at 40 CFR 122.44(d)(1)(i) state, "Limitations must control all pollutants or pollutant parameters (either conventional, nonconventional, or toxic pollutants) which the Director determines are or may be discharged at a level that will cause, have the reasonable potential to cause, or contribute to an excursion above any State water quality standard, including State narrative criteria for water quality." The process to determine whether a WQBEL is required as described in 40 CFR 122.44(d)(1)(i) is referred to as a reasonable potential analysis, or RPA. Furthermore, NAC 445A.243 requires the Division to consider the establishment of effluent limitations necessary to meet WQSs.

For conducting the RPA, the Division used a mass-balanced approach to determine the expected critical downstream receiving water concentration using statistics recommended in the United States Environmental Protection Agency's Technical Support Document (TSD) for Water Quality-Based Toxic Control for statistically calculating the projected maximum effluent concentration (i.e., Table 31 of the TSD using the 99 percent probability basis and 99 percent confidence interval). For purposes of the RPA, the critical receiving water flow was assumed to be zero (i.e., no dilution); therefore, the critical effluent pollutant concentrations were compared with the most restrictive water quality criteria under NAC 445A.1236 and

NAC 445A.1496 to determine if the discharge has reasonable potential to cause, or contribute to, an excursion above a State WQS.

The RPA was based on data collected from January 2020 through December 2025 sampling which includes the Permittee's monitoring laboratory reports. Based on the RPA, the discharge exhibits reasonable potential to cause, or contribute to, instream excursions above the applicable water quality criteria for Selenium and Sulfate at Outfalls 00A. Therefore, limits were included for Selenium and Sulfate under Outfall 00A.

Proposed Water Quality Based Effluent Limits (monthly/weekly/daily)

The proposed permit establishes "Once Per Permit Term" sampling of toxic materials as these constituents are listed in NAC 445A.1236. The Division does not expect most of these constituents to be present in the discharge; therefore, once per permit term sampling is deemed sufficient for obtaining initial water quality data for toxic materials.

Per NAC 445A.1496, *Escherichia coli* (*E.coli*) and fecal coliform are required to be sampled for. Since there are no sources of *E. coli* or fecal coliform in the intercepted groundwater, sampling of these constituents is not required.

Monthly Reported Parameters

The proposed permit establishes a daily maximum of 3.9 ug/L for Selenium as prescribed under NAC 445A.1237, to protect the aquatic life beneficial use, with a monthly reporting requirement.

The proposed permit establishes a daily maximum limit of 250 mg/L for Sulfate as prescribed under NAC 445A.1496 for the municipal or domestic supply designated beneficial use.

Annual Reported Parameters

The proposed permit establishes a daily maximum limit of 18 ug/L for Copper as prescribed under NAC 445A.1236, for the aquatic life designated beneficial use, with an annual reporting requirement. This was changed from a ratio, to match current measurement increments as defined under NAC 445A.1236.

The proposed permit establishes a daily maximum limit of 14 ug/L for Silver as prescribed under NAC 445A.1236 for the aquatic life designated beneficial use, with an annual reporting requirement. The previous permit had a ratio which required calculating, the limit under the proposed permit is defined under the NACs and is a Division reporting standard for that parameter.

The proposed permit establishes a daily maximum limit of M&R ug/L for Thallium as prescribed under NAC 445A.1236, to protect the municipal or domestic supply beneficial use, with an annual reporting requirement.

The proposed permit establishes a 96-hour limit of 242 ug/L for Zinc as prescribed under NAC 445A.1236, to protect the aquatic life beneficial use, with an annual reporting requirement. The previous permit had a ratio which required calculating, whereas, the proposed permit limit is defined under the NACs, eliminating potential calculation errors or uncertainty.

Basis for Effluent Limitations

NDEP's Profile 1 is a standardized analytical suite used primarily in mining and water quality monitoring to test for common pollutants, including metals and inorganic chemicals. It was updated in July 2022 to include total uranium. The following applicable parameters and limits are described below:

The proposed permit retains daily maximum limit of M&R for Aluminum, as prescribed under Profile 1 list, as established by the Division, with an annual reporting requirement.

The proposed permit retains a daily maximum limit of M&R mg/L for Calcium as prescribed under the Profile 1 list, with an annual reporting requirement.

The proposed permit establishes a daily maximum of M&R mg/L for Magnesium as prescribed under the Profile 1 list, with an annual reporting requirement.

The proposed permit retains a daily maximum limit of 10 mg/L for Nitrite plus Nitrate total 1 det. as prescribed under Profile 1 constituents for groundwater standards as established by the Division, with a monthly reporting requirement.

The proposed permit maintains a daily maximum limit of M&R mg/L for Potassium as prescribed under Profile 1, with an annual reporting requirement.

The previous permit required the Permittee report the monthly average for Alkalinity, Chloride, Color, Cyanide, D.O., Iron, Manganese, Mercury, Nitrite as N, Nitrite plus nitrate total 1 det., pH, Phosphorus, Temperature, TDS, TSS, and Turbidity. To be consistent with similar permits, this requirement has been removed; the Permittee will only be required to report the daily maximum for these constituents.

Pursuant to NAC 445A.1236, water quality criteria for Copper, Silver, and Zinc is dependent on the hardness of the receiving water. As hardness decreases, the corresponding water quality criteria become more stringent to reflect the increased toxicity of these metals under softer water conditions and to ensure adequate protection of aquatic life. The hardness was based on the reported levels sampled at the Maggie Creek@Carlin and the Maggie Creek@SR221 & Humboldt stations, during the previous 5 years, for an average of 233 mg/L and then applied to the associated 96-hour calculation as prescribed under NAC 445A.1236.

For Ammonia as N (see NAC 445A.118), the limit was established based on Maggie Creek's designation of being a warm-water fishery, along with the averaged temperature for that section (12.2 degrees C), and the WQS for pH (as prescribed under NAC 445A.1496), all from which the acute water quality criteria was determined.

Anti-backsliding

Sections 303(d)(4) and 402(o) of the CWA and federal regulations of 40 CFR 122.44(i) prohibit backsliding and require effluent limitations in a reissued permit to be as stringent as those in the previous permit. This permit has maintained the same reporting standards with the exceptions of the changing of parameters that have been non-detect during the period reviewed (5-years).

Pursuant to anti-backsliding regulations, as prescribed under section 402(o)(2), the parameters were changed to a less stringent reporting period based on Exception 2 of the regulations, being new information that was not available at the time of permit issuance. Based on new information, provided through lab results received, the following parameters were changed to a less strict reporting requirement:

Cyanide, manganese, and mercury were changed to an annual reporting requirement.

Beryllium, cadmium, chromium, lead, nickel, silver, and sulfide were changed to an once during the permit term reporting requirement.

Should any of these parameters show detectable levels during the next permit renewal, more stringent reporting requirements shall be put into place.

For the change of the concentration limit for TDS, pursuant to anti-backsliding regulations, as prescribed under section 402(o)(2)(B)(ii), of the CWA and federal regulations, the Administrator had determined that a technical mistake or mistaken interpretation of law was made in issuing the prior permit, being that the WQS for TDS, as prescribed under NAC 445A.1496, was stated incorrectly and has been updated to the correct concentration limit pursuant to this permit renewal.

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 CFR section 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. This objective is achieved through the implementation of procedures to ensure that water is protected from regulated activities that have the potential to degrade the water quality.

The regulation uses four (4) tiers of antidegradation protection. Tier 1 protects water quality for beneficial uses of the water on a parameter-by-parameter basis. Tier 2 protects high-quality waters where data show the water quality is better than levels needed to protect beneficial uses (on a parameter-by-parameter basis). Tier 2.5 and Tier 3 protect water quality and the special characteristics of waterbodies designated with the beneficial uses of "extraordinary, ecological, aesthetic or recreational value" (NAC 445A.122). The Division will conduct an antidegradation review only when a permit application is submitted for a new or expanding point source discharge to a surface water or for a new or altered zone of mixing.

Since the proposed renewal of this permit does not include a new or expanding point source discharge or a new or altered zone of mixing, the antidegradation review is not required.

WET Testing

Whole effluent toxicity (WET) refers to the aggregate toxic effect to aquatic organisms from all pollutants contained in a facility's wastewater. WET is a tool used to implement the CWA's prohibition of the discharge of toxic pollutants in toxic amounts. NAC 445A.121(4) states that all surface waters of the State, "...must be free from high temperature, biocides, organisms pathogenic to human beings, toxic corrosive or other deleterious substances attributable to domestic or industrial waste or other controllable sources at levels or combinations sufficient to be toxic to human, animal, plant, or aquatic life or in amounts sufficient to interfere with any beneficial uses of the water."

WET tests measure wastewater's effects on specific test organisms' ability to survive, grow, and reproduce. The proposed permit establishes the requirement to conduct an acute WET test once per permit term to ensure there are no discharges of toxic substances in toxic amounts. If the effluent is determined to be acutely toxic, then WET testing shall be conducted once each quarter until acute toxicity is no longer present (when four (4) consecutive tests show greater than 70 percent survival of organisms exposed to undiluted effluent). If toxicity is found, the Permittee is required to identify pollutants that may require additional controls. When acute toxicity is no longer present, the Permittee may revert to conducting the WET test once a permit term.

Special Conditions

See the Special Approvals/Conditions Section below:

SA – Special Approvals / Conditions Table

Item #	Description
1	Pond Inspection & Monitoring: When operating, the Water Distribution Pond leak detection system shall be inspected on a daily basis to identify and abate breached containment conditions. If fluid is observed in the leak detection system, the Permittee shall: 1. Repair the pond liner to eliminate all flow from the leak detection system; or 2. Submit the design of a leakage recovery system and an implementation schedule to the Division for review and approval. 3. If the discharge flow rate into the leak detection and recovery system meets or exceeds 50 gallons per acre of pond surface area per day (gallons per acre per day), the Permittee shall develop a

Item #	Description
	corrective plan of action to sufficiently abate leakage from the pond. This plan shall be submitted to the Division for review and approval within 60 days after identifying leaking flow rates in excess of 50 gallons per acre per day.
2	Dewatering Well List: Well usage including discharge volume history of each of the wells shall be maintained by the Permittee on site and shall be submitted to the Division upon request.
3	Special Condition: Ambient Water Quality Monitoring: 1. The Permittee shall conduct ambient water quality monitoring in the receiving water in accordance with an approved Quality Assurance Project Plan (QAPP). 2. The Permittee shall submit a QAPP to the Division for approval before monitoring begins. Any revisions must also be approved prior to implementation. 3. The Permittee shall provide geographic coordinates (latitude/longitude) for all monitoring locations with the QAPP and with any subsequent data submissions if locations change. 4. For each monitoring event, the permittee shall submit to the Division: • PDF copies of analytical laboratory reports • Electronic Data Deliverables (EDDs) in a Division approved format • A brief summary of field observations and any deviations from the QAPP • Updated coordinates, if applicable 5. All monitoring data and documentation shall be submitted on an annual basis and are due by January 28 of the following year. 6. The Permittee shall retain all monitoring related records for a minimum of 3 years and make them available to the Division upon request. 7. Failure to conduct monitoring or submit required documentation constitutes permit noncompliance.

Discharges From Future Outfalls/ Planned Facility Changes

There are no planned discharges from future outfalls or facility changes.

Corrective Action Sites

There are no active Bureau of Corrective Actions (BCA) remediation sites within a one-mile radius of the facility and outfalls.

Wellhead Protection Program

The outfalls are not located within a Wellhead Protection Area, which represents an approximate 10-year capture zone of a well, or within a Drinking Water Protection Area, which is defined by a 3,000-foot radius around a public water system (PWS) well.

Schedule of Compliance:

SOC – Schedule of Compliance Table

Item #	Description	Due Date
1	The Permittee shall submit two copies (one hard copy and one electronic copy) of an updated Operations and Maintenance (O&M) Manual for review and approval by the Division. The O&M Manual shall follow Division's guidance document, WTS-2A Minimum Information for an Operations and Maintenance (O&M) Manual for Pump-and-Treat Facilities and Dewatering Operations, which should include the dewatering system, discharge system, and sampling and monitoring protocols. The document should be prepared and wet stamped by a licensed, qualified Nevada professional engineer (P.E.).	3/1/2027
2	The Permittee shall conduct ambient water quality monitoring in the receiving water in accordance with an approved Quality Assurance Project Plan (QAPP). The Permittee shall submit a QAPP, with geographic coordinates (latitude/longitude) for all monitoring locations to the Division for approval before monitoring begins. Any revisions must also be approved prior to implementation.	1/28/2028

Deliverable Schedule:

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

Item #	Description	Interval	First Scheduled Due Date
1	Quarterly DMRs	Quarterly	1/28/2027
2	Annual DMRs and Reports	Annually	1/28/2027
3	Once during the Permit Term DMRs	Once during the permit term	10/28/2031

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. **11/9/2026**, 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: **Melissa Hanson**

Date: **10/6/2026**

Title: **Staff II Engineer**

Summary of Reasonable Potential Analysis

Parameter	Units	No. of Effluent Samples	Critical Effluent Concentration	Most Stringent Criterion	Criterion Basis	Does RP Exist?
Antimony, Total Recoverable	ug/L	9	15.4	146	Municipal or Domestic	No
Arsenic, Total Recoverable	ug/L	56	26.9	50	Municipal or Domestic	No
Barium, Total Recoverable	ug/L	9	294.7	2,000	Municipal or Domestic	No
Iron, Total Recoverable	ug/L	56	182.6	1,000	Chronic Aquatic Life	No
Selenium, Total Recoverable	ug/L	9	11.1	4	Chronic Aquatic Life	Yes
Thallium, Total Recoverable	ug/L	9	1.1	13	Municipal or Domestic	No
Zinc, Total Recoverable	ug/L	9	32.2	245	Acute Aquatic Life	No
Ammonia, Total (as N)	mg/L	56	0.26	0.342	Chronic Aquatic Life	No
Phosphorus, Total (as P)	mg/L	57	0.07	0.33	QC to Protect Beneficial Us	No
Sulfate	mg/L	1	872.31	250	QC to Protect Beneficial Us	Yes
Total Dissolved Solids	mg/L	55	484.68	500	QC to Protect Beneficial Us	No