

**STATE OF NEVADA
DIVISION OF ENVIRONMENTAL PROTECTION**

Authorization To Inject

In compliance with the provisions of the Nevada Revised Statutes (NRS 445A) and the Nevada Underground Injection Control Regulations (NAC 445A.810 – 445A.925), the following Permittee is authorized to dispose from a facility described below in accordance with limitations, requirements and other conditions set forth in Parts I and II hereof.

Permit Number: **UNEV93209**

Facility Name: **Nevada Gold Mines – Carlin**
Facility Address: **27 Miles North of Carlin, NV 89822**

Permittee: **Nevada Gold Mines LLC (NGM)**
Permittee Address: **1655 Mountain City Highway Elko, NV 89801**
County: **Eureka**

Property Owner: **Nevada Gold Mines, LLC**
Owner Address: **1655 Mountain City Highway, Elko, NV 89801**

Number of Permitted Wells: **Three (3): BVI-2, BVI-4, BVI-5**
Legal Description: **BVI-2: T 35N, R 48E, Section 24, NE ¼, SW ¼
BVI-4: T 35N, R 48E, Section 24, SW ¼, SW ¼
BVI-5: T 35N, R 49E., Section 18, NW ¼, SW ¼**

Other Permits: **NV0022675 & NEV94002**

Annual Fees: **Due July 1st**
Reporting Frequency: **Semi-annual Reports (see Part I.A.5)**

NOTE: Reference the permit fact sheet for specific details on the facility, wells, and permit history.

This permit shall become effective: **November 9, 2026 (Tentative)**

This permit shall expire at midnight: **November 9, 2031 (Tentative)**

Lisa Aleman
Environmental Scientist
Bureau of Water Pollution Control

Date

PART I. PERMIT SPECIFIC CONDITIONS

I.A. SCHEDULE OF COMPLIANCE

- I.A.1** Pursuant to NAC 445A.888, this permit, when appropriate, may specify a schedule for compliance. The schedule for compliance must require compliance as soon as possible and in no case later than one (1) year after the effective date of the permit.
- The permittee shall achieve compliance with the conditions, limitations and requirements of the permit at the commencement of relevant activity.
 - The Division may, upon the request of the permittee, and after public notice, revise or modify a schedule of compliance in an issued permit if he determines good and valid cause.
- I.A.2 Compliance Schedule – In accordance with part I.A, the Permittee shall submit the following information within 180 days of the issuance of this permit:**
- A revised O&M Manual which reflects the plugging and abandonment of Injection Wells BVI-1 and BVI-3.

I.B. INJECTION LIMITATIONS, MONITORING AND OTHER REQUIREMENTS

- I.B.1** During the period beginning on the effective date of this permit and lasting through the expiration date, the Permittee is **authorized to inject water produced as a result of dewatering activities at the Nevada Gold Mines (NGM) – Carlin mine into a ground water collection/irrigation canal from the Boulder Valley seeps and springs, and water produced from underground or surface collection points from NGM's Leeville, Goldstrike, and Genesis Mines, or mineralized areas contiguous to or in the vicinity of those mines** into three injection wells as approved under this permit located in Boulder Valley.
- Maximum and injection rates and pressures are listed in **Table 1** below. The Permittee is required to notify the Division in accordance with part II.B.2 if the injection rates or pressures exceed the maximum permitted rates and pressures. Non-notification is a violation of this permit.

TABLE 1 – APPROVED INJECTION WELLS AND PARAMETERS			
Injection Wells	Associated Monitoring Wells	Maximum Injection Pressure (psig)	Maximum Flow Rate (gpm)
BVI-2	IMW93-2	189	12,000
BVI-4	IMW93-4	189	8,000
BVI-5	IMW95-1	189	4,000

- I.B.2 Semi-Annual Reporting Requirements –** The Permittee shall submit **semi-annual reports** due **July 28 and January 28** of each year, whether actively injecting or not, which contain the UIC permit number and the following data:
- First Reporting Period:** The first reporting period is January through June. Monitoring results and other requirements obtained during the previous reporting period shall be summarized for each month and reported no later than July 28.
 - Second Reporting Period:** The second reporting period is July through December. Monitoring results and other requirements obtained during the previous reporting period shall be summarized for each month and reported no later than January 28.
 - The parameters included in the UIC Monitoring Report Summary and Check List form found in Attachment 1.
 - Reporting shall be completed as specified in Part II.A.

- e. Signed copies of these, and all other reports required herein, shall be submitted to the UIC Program at the following address:

Division of Environmental Protection
Bureau of Water Pollution Control
Attn: Injection Monitoring Report
901 South Stewart Street, Suite 4001
Carson City, NV 89701

- I.B.3 Minimum Requirements for Sampling and Monitoring** - The injectate and affected groundwater shall be limited and monitored by the Permittee as specified below and in Attachment 1 and reported to the Division pursuant to Part II.A.3:
- Monitoring shall be completed as prescribed in Tables 1 & 2 of Attachment 1.
 - Water level in any injection well may not rise above 5 feet below ground surface. Injection practices shall not cause any surface hazards, nor cause any physical, biological, or chemical degradation of groundwater pursuant to UIC regulations.
 - Injectate shall be limited to naturally produced fluids from mine dewatering activities at the mining operations at the Nevada Gold Mines – Carlin (as described in I.B.1). Injectate constituent limitations shall be as follows: **Exceedance of a primary or enforceable secondary drinking water standard (as listed in NAC445A.455(2)), set by federal or state regulations shall not occur, unless a naturally-occurring receiving-aquifer constituent is established, by the Permittee, to be higher than the drinking water standard.**
 - The injection pressure measured at the wellhead shall not exceed that which is calculated to initiate new fractures or propagate existing fractures in the zone of injection or the confining formation between the zone for injection and any aquifer system. Maximum injection pressure must be calculated by using the formulas as specified in NAC 445A.911 and shall be measured at the injection wellhead, and shall not exceed 40 psig on the main casing at the surface.
 - The injection pressure and injection rate measurements shall be taken as close to the same time as possible.
 - The Permittee shall submit written notice of planned injection to the Division prior to commencement of injection. The Permittee will need to make the necessary provisions prior to the beginning of injection as required in Table 2.
 - A laboratory certified by the State of Nevada must perform all analyses. Testing methods for constituents must be EPA or Division approved. **The UIC Program requires inorganic analyses of metals for “Total Metals” in which samples are not filtered and are preserved with an acid in the field.** Any exceptions to this policy must be requested and pre-approved by the UIC program prior to sampling. It must be clearly stated on all reports which analyses were used.
- I.B.4 Water Quality Exceedances** - In the event the Permittee becomes aware of any constituent in the injected waters that exceeds a drinking water standard or degrades ground water above a standard or baseline value, whichever is higher, the Permittee shall immediately cease injection and notify the Division in accordance with Part II.B.2. Upon written notification by the Division, the Permittee will be required to submit a plan for treatment of the fluids and may be required to cease injection until treatment is in place.
- I.B.5 Closed Systems** - Extractions, conveyance, and injection must be accomplished in a completely closed system as to not allow the introduction of any foreign materials to the treated water prior to injection.
- I.B.6 Injection of Toxic Substances** - Injection of fluids containing cyanide or other toxic substances is prohibited.

- I.B.7 Chemical additives** - No chemical additives shall be added to the injection wells without prior written authorization from the Division using UIC Form U240.

PART II. PERMIT MANAGEMENT AND REPONSIBILITIES

II.A. MONITORING AND RECORDKEEPING

- II.A.1 Submission of Contents** – The permittee shall submit all reports and contents required by this permit using Division provided forms wherever a form exists for the action. All UIC forms can be found at the NDEP-BWPC-UIC Forms web page provided at the following link:
<https://ndep.nv.gov/water/water-pollution-control/permitting/underground-injection-control-uic/forms>
- II.A.2 Sampling and Test Procedures** - Samples and measurement taken as required herein shall be representative of the volume and/or nature of the subject of interest. Test Procedures for the analyses of required constituents shall comply with applicable analytical methods cited and described in tables IA - IE of 40 CFR part 136 or in appendix III of 40 CFR part 261, under which such procedures may be required, unless the Division approves other procedures. A laboratory certified by the State of Nevada shall perform all analyses conducted pursuant to permit requirements.
- II.A.3 Recording of Results** - For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information pursuant to NAC 445A.922:
- a. The exact place, date, and time of sampling;
 - b. The dates the analysis was performed;
 - c. The person(s) who performed the analyses;
 - d. The analytical techniques or methods used;
 - e. The results of all required analyses; and
 - f. The precision and accuracy of the analytical data (accessible through laboratory).
- II.A.4 Additional Monitoring by Permittee** - If the permittee monitors any constituent at the location(s) designated herein more frequently than required by this permit, or monitors additional constituents than required by this permit, using approved analytical methods as specified above, the results of such monitoring results shall be made available to the Division upon request in accordance with NAC 445A.886.
- II.A.5 Records Retention** - All records and information resulting from the monitoring activities required by this permit, including all records and analyses performed and calibration and maintenance of instrumentation and recordings from continuous monitoring instrumentation, shall be retained for a minimum of three (3) years, or longer if required by the Division pursuant to NAC 445A.922.

II.A.6 Modification of Monitoring Frequency, Location and Sample Type - After considering monitoring data, stream flow, discharge flow and receiving water conditions, the Division may, for just cause, modify the monitoring frequency, location and/or sample type by issuing a minor modification to the permittee pursuant to NAC 445A.902.

II.A.7 Certification of Documents Submitted to the Division - All applications, reports and information submitted to the Division shall be signed and certified to be correct and true by the owner and/or the operator pursuant to NAC 445A.859.

II.A.8 Availability of Reports - Except for data determined to be confidential under NRS 445A.665, all reports prepared in accordance with the terms of this permit shall be available for public inspection. Knowingly making any false statement on any such report may result in the imposition of criminal penalties as provided for in NRS 445A.710.

II.B. MANAGEMENT REQUIREMENTS

II.B.1 Changes in Injection or Discharge - All Injection or discharges authorized herein shall be consistent with the terms and conditions of this permit. The discharge of any constituent identified in this permit more frequently than or at a level in excess of that authorized shall constitute a violation of the permit. Any anticipated facility expansions, or treatment modifications which will result in new, different, or increased Injection or discharges must be reported by submission of a new application or, if such changes will not violate the limitations specified in this permit, by notice to the permit issuing authority of such changes. Following such notice, the permit may be modified to specify and limit any constituents not previously limited.

II.B.2 Noncompliance Notification - If for any reason the permittee does not comply with or will be unable to comply with the conditions, requirements and limitations specified in this permit, the permittee shall provide the Division pursuant to NAC 45A.889:

- a. Written notification shall be provided as soon as possible but no later than twenty-four (24) hours after the event of noncompliance.
- b. **5-Day Report:** A written report shall be submitted to the Underground Injection Control Program of the Division within five (5) days if, for any reason, the permittee is unable to or does not comply with the conditions, requirements and limitations specified in this permit. The permittee shall provide the Division with the following information:
 - i. The exact dates, times, and duration of noncompliance
 - ii. The specific cause of noncompliance and exact location
 - iii. An estimated volume unauthorized discharge if applicable
 - iv. Identification of which injection well(s) are affected
 - v. The corrective actions taken and anticipated time of continuance. Steps taken or planned to reduce, eliminate, and prevent recurrence of noncompliance

II.B.3 Spills - The permittee is responsible for carrying out notifications in the event of a spill. If the permittee has acknowledged that a spill greater than 25 gallons or 3 cubic yards has occurred, notify the Division by calling the **NDEP Spill Hotline, 1-888-331-6337 or an online submission on the NDEP web page** as soon as possible and no later than one working day from the time of discovery. The permittee shall promptly notify the Division in writing of each spill, in accordance with the procedure specified in Part II.B.2 above

II.B.4 Facilities Operation – Pursuant to NAC 445A.906, the Permittee shall always be maintained in good working order and operate as efficiently as possible, all treatment or control facilities, devices or systems installed or used by the Permittee to achieve compliance with the terms and conditions of this permit and shall be in conformance with the plans and specifications filed with the Division. All solid, toxic or hazardous waste shall be disposed of in accordance with the rules and regulations of this Division. All spills and releases shall be reported as required by Nevada Revised Statutes.

II.B.5 Adverse Impact – Pursuant to NAC 445A.906, the permittee shall take all reasonable steps, including such accelerated or additional monitoring as necessary to determine the nature and impact of the non-complying Injection or discharge, to minimize any adverse impact to waters of the State resulting from noncompliance with any limitations specified in this permit.

II.B.6 Bypassing - Any diversion from or bypass of facilities necessary to maintain compliance with the terms and conditions of this permit is prohibited except where unavoidable to prevent loss of life or severe property damage. The Division will have the final authority in the determination of whether a discharge is deemed unavoidable. The permittee shall promptly notify the Division in writing of each such diversion or bypass, in accordance with the procedure specified in Part II.B.2 above.

II.B.7 Annual and Renewal Fees - The Permittee shall submit the annual review and services fee in accordance with NAC 445A.872 no later than **July 1st** of every year thereafter following permit issuance until the permit is terminated. This fee applies to the forthcoming state fiscal year. A renewal fee is due along with the renewal application 180 days prior to permit expiration.

II.C. RESPONSIBILITIES

II.C.1 Right of Entry and Inspection of Premises - To enforce the provisions of any regulation, order or permit issued thereunder, the Division or authorized representative of the Department may, upon presenting proper credentials, pursuant to NRS 445A.655.

- a. Enter any premises in which any act violating NRS 445A.300 to 445A.730, inclusive, originates or takes place or in which any required records are required to be maintained
- b. At reasonable times, have access to and copy any records required to be maintained
- c. Inspect any equipment or method for continuing observation
- d. Have access to and sample any discharges or injection of fluids into waters of the State which result directly or indirectly from activities of the owner or operator of the premises where the discharge originates or takes place or the injection of fluids through a well takes place.

II.C.2 Transfer of Ownership or Control - In the event of any change in ownership or control, the Permittee shall notify the succeeding owner of the existence of this permit and enter into a written agreement containing a specific date for the transfer, a copy of which shall be submitted to the Division. Upon notice given by the Division that the permit is transferred, the most recent owner or operator is responsible for complying with permit conditions, pursuant to NAC445A.881. The following shall proceed:

- a. The new Permittee shall complete and file a UIC Change of Ownership Form and submit proof of financial responsibility at least thirty (30) days before the transfer is made.
- b. The Division may require modification, or revocation with subsequent reissuance of the permit, to change the name of the permittee and incorporate such other requirements as may be deemed necessary.

II.C.3 Compliance with Regulations - The Permittee shall comply with all provisions of the UIC regulations, Nevada Administrative Code (NAC) 445A.810 through 445A.925, and all other pertinent laws and regulations. Nothing in this permit relieves the permittee from responsibilities, liabilities or penalties established by any other State, Federal or local jurisdiction.

II.C.4 Permit Modification, Suspension or Revocation - After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to, the following:

- a. Violation of any terms or conditions of this permit;
- b. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or
- c. A change in any condition which requires either a temporary or permanent reduction or elimination of the Injection or discharge.

II.C.5 Plugging and Abandonment - The holder of a permit shall notify the Division of the intent of the Permittee to abandon or close the injection well at least thirty (30) days, or in the case of a newly drilled injection well at least five (5) working days, before the abandonment or closure of the well. Plugging shall be completed in accordance with NAC 534.420 – 534.426.

- a. The Permittee shall notify the Division by submitting a *UIC Well Pre-Closure Form* found on the UIC forms page.
- b. Before abandonment, an injection well must be plugged with cement in a manner which will not allow the movement of fluids into or between underground sources of drinking water.
- c. All cavities in the well bore not plugged with cement must be filled with heavy drilling fluids in a state of static equilibrium with the weight of the fluid equalized from top to bottom.
- d. Upon completion of the procedure for the plugging and abandonment of an injection well, the holder of a permit shall certify to the Division that the condition of the permit relating to plugging and abandonment has been satisfied.

II.C.6 Civil and Criminal Liability

- a. Nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance.
- b. Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable State law or regulation.
- c. The issuance of this permit does not confer any property rights, in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

II.C.7 Definitions

- a. CFR: Code of Federal Regulations
- b. Division: Nevada Division of Environmental Protection
- c. EPA: Environmental Protection Agency
- d. GPM: Gallons Per Minute
- e. NAC: Nevada Administrative Code
- f. NRS: Nevada Revised Statutes
- g. O&M: Operations and Maintenance Manual
- h. PSIG: Pounds per Square Inch Gauge
- i. UIC: Underground Injection Control

ATTACHMENT 1
UIC Monitoring Requirements and Check List
Pursuant to part I.B.4 | Submit with every UIC Report

TABLE 2 – REQUIRED MONITORING DURING PERIODS OF INJECTION		
PARAMETER	FREQUENCY (WHILE INJECTING)	LOCATION
Water level	Monthly	Monitoring wells (Part I.A.2)
Temperature (F), pH, TDS (mg/l)	Monthly	Discharge line prior to injection
Injection pressure	Continuous	Gauges located on each injection well wellhead
Injection rate	Continuous	Measured at piping to each injection well
Adjusted Sample List 2*	Monthly	One sample of injectate at the sampling port on injection piping
Adjusted Sample List 2*	Annually	Monitoring wells (Part I.A.2)
Adjusted Sample List 2*	Quarterly	Water received from NGM's Leeville, Goldstrike, and Genesis sites prior to entering NGM's water system
Average flow rate and Volume of water received	Daily	Water received from NGM's Leeville, Goldstrike, and Genesis sites prior to entering NGM's water system

* For adjusted sample list 2, see Attachment 2.

TABLE 3 – REQUIRED MONITORING DURING PERIODS OF NON-INJECTING		
PARAMETER	FREQUENCY (WHILE NOT INJECTING)	LOCATION
Water level	Annually, and one month prior to injection, and for at least one year following cessation of injection	Monitoring wells (Part I.A.2)
Adjusted Sample List 2*	Suspended until one month prior to injection, and for at least one year following cessation of injection	Monitoring wells (Part I.A.2)
Adjusted Sample List 2* & volume of water received	Suspended until one month prior to injection, and for at least one year following cessation of injection	Water received from NGM's Leeville, Goldstrike, and Genesis sites prior to entering NGM's water management system

* For adjusted sample list 2, see Attachment 2.

- Please check to ensure all conditions required by the UIC permit are in the report.
- Check off each item below that is in the report.

1. ___ The results of the chemical analyses with completed sample list 2 (Attachment 2), including copies of original lab reports.
2. ___ For each month in the reporting period, the total volume of fluid injected and the mean, lowest and highest injection rate for each injection well.
3. ___ For each month in the reporting period, the mean, lowest and highest injection pressure, in psig, for each injection well.
4. ___ Water Level in ft bgs, Temperature in °F, pH, and TDS in mg/L.
4. ___ Summary narrative analysis of monitoring activities for that six (6) month period. The narrative shall include, but not be limited to, any problems encountered that had or have the potential to have affected the well integrity or the water quality, any spills or releases at the site, the type of action taken, and all tests performed on the wells within the project area.
6. ___ Annual list of all site-related production, injection, observation, and test wells. Include construction information and status.

** The purpose of this check-list is to assist the Permittee and the UIC program staff in ensuring that all required monitoring information is submitted.*

*** Annual reporting shall be submitted in the report of the calendar year.*

**** The lowest injection rate and pressure should not be listed as zero, unless the total volume for the reporting period is zero. The mean, lowest, and highest values should be computed using values while injecting; periods of non-injection should not be included.*

ATTACHMENT 2 – Adjusted Sample List 2*Note: crossed out items in gray are not required*

Nevada Division of Environmental Protection						
Underground Injection Control Program - Sampling and Monitoring Report Form						
Facility Name :			Depth of sampled water's origin :			
Facility Owner:			County:			
NDEP UIC Permit # :			Location :		Latitude	Longitude
Well ID # :			Sampler :			
Type of Well : Monitor Production Injection			Date Sampled :			
<u>UIC Sample List 2- Inorganic Extended</u>			Name of Laboratory :			
Parameter	Units	DW Standards	Initial Measured Values	Method		Method Description
total dissolved solids	mg/L	500 - 1000		EPA 160.1		
pH	standard units	6.5 - 8.5		EPA 150.1		
chloride	mg/L	250 - 400		EPA 300.0		Ion Chromatography
fluoride	mg/L	4		EPA 300.0		Ion Chromatography
sulfate	mg/L	250 - 500		EPA 300.0		Ion Chromatography
nitrate (as nitrogen)	mg/L	10		EPA 300.0		Ion Chromatography
nitrite (as nitrogen)	mg/L	1		EPA 300.0		Ion Chromatography
aluminum	mg/L	0.05-0.2		EPA 200.8		ICP-MS
antimony	mg/L	0.006		EPA 200.8		ICP-MS
arsenic	mg/L	0.01		EPA 200.8		ICP-MS
barium	mg/L	2		EPA 200.8		ICP-MS
beryllium	mg/L	0.004		EPA 200.8		ICP-MS
cadmium	mg/L	0.005		EPA 200.8		ICP-MS
chromium	mg/L	0.1		EPA 200.8		ICP-MS
copper	mg/L	1.0-1.3		EPA 200.8		ICP-MS
lead	mg/L	0.015		EPA 200.8		ICP-MS
iron	mg/L	0.3 - 0.6		EPA 200.8		ICP
magnesium	mg/L	125 - 150		EPA 200.7		ICP
manganese	mg/L	0.1		EPA 200.8		ICP-MS
mercury	mg/L	0.002		EPA 245.1		AA Cold Vapor
nickel	mg/L	0.1		EPA 200.8		ICP-MS
selenium	mg/L	0.05		EPA 200.8		ICP-MS
silver	mg/L	0.05		EPA 200.8		ICP-MS
thallium	mg/L	0.002		EPA 200.8		ICP-MS
zinc	mg/L	5		EPA 200.8		ICP-MS
adjusted gross alpha**	pCi/L	15		EPA 900		
gross beta	mrem	4		EPA 900		
alkalinity (CaCO3)	mg/L	-		SM 2320 B		
bicarbonate	mg/L	-		SM 2320 B		
boron	mg/L	-		EPA 200.8		
calcium	mg/L	-		EPA 200.7		
carbonate	mg/L	-		SM 2320 B		
EC	umhos/cm	at 25 degC		SM 2510 B		
lithium	mg/L	-		EPA 200.8		
molybdenum	mg/L	-		EPA 200.8		
phosphorus, total	mg/L	-		EPA 365.1		
potassium	mg/L	-		EPA 200.8		
silica	mg/L	-		EPA 370.1	EPA 200.7	
sodium	mg/L	-		EPA 200.7		
total suspended solids	mg/L	-		EPA 160.2		
turbidity	NTU	-				
Comments:						

Rev 6/2006

Note: Detection limits must be at least as low as primary or secondary drinking water standards where applicable.

Please indicate detection limit instead of stating "Non-Detect". Initial Measured Values are the first values collected under the application.

Metals shall be sampled and analyzed as total metals. **Adjusted gross alpha particle activity doesn't include radon and uranium activity.