

STATE OF NEVADA  
DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES  
DIVISION OF ENVIRONMENTAL PROTECTION – BUREAU OF AIR POLLUTION CONTROL

**Director’s Review and Preliminary Determination of Permit Issuance for**

**Nevada Gold Mines LLC  
Twin Creeks Mine  
Humboldt County, Nevada  
January 24, 2025**

Nevada Gold Mines LLC (NGM) submitted an application for an administrative renewal of Class I Air Quality Operating Permit (AQOP) AP1041-0723.04, FIN A0003, for the Twin Creeks Mine facility (Twin Creeks) in Humboldt County, Nevada. The project is located north of Interstate 80 between Elko and Winnemucca, Nevada, and approximately 35 miles northeast of Golconda, Nevada, in all or portions of Sections 12, 13, 24, 25, and 36, Township 39N, Range 42E; Sections 4, 5, 9, and 15, Township 38N, Range 43E; Sections 4 through 10, 15 through 22, and 28 through 33, Township 39N, Range 43E; and Sections 31 and 32, Township 40N, Range 43E, M.D.B.&M.

Twin Creeks is permitted to operate two open pit mines, three heap leach pads, a primary crushing circuit, a Semi-Autogenous Grinding (SAG) mill, a Carbon-in-Leach (CIL) mill, several lime silos, a shotcrete plant, two diesel storage tanks, several emergency generators, an aggregate crushing plant, a metal removal plant, and a concentrate stacker. Twin Creeks is proposing to renew their current Class I AQOP.

The Nevada Division of Environmental Protection – Bureau of Air Pollution Control (BAPC) has reviewed the application for the above-referenced operating permit, and has made a preliminary determination to issue the operating permit. The facility-wide Potential to Emit (PTE), including emissions from Non-Permit equipment are given in the table below.

	<i>Nevada Gold Mines LLC – Twin Creeks Mine Potential to Emit (PTE)</i>		
	<b>Pollutant</b>		<b>Facility-Wide (tons/year)</b>
Current emissions estimates indicate NGM is a Class I (Title V) Source, as emissions of one or more criteria pollutant are less than 250 tons per year (TPY). NGM is classified as an area source of HAPs as the PTE for a single HAP is less than 10 TPY and combined HAPs are less than 25 TPY.	<b>PM</b>	Particulate Matter	155.0
	<b>PM<sub>10</sub></b>	Particulate Matter ≤ 10 microns in diameter	119.8
	<b>PM<sub>2.5</sub></b>	Particulate Matter ≤ 2.5 microns in diameter	73.9
	<b>SO<sub>2</sub></b>	Sulfur Dioxide	107.8
	<b>NO<sub>x</sub></b>	Oxides of Nitrogen	86.2
	<b>CO</b>	Carbon Monoxide	249.7
	<b>VOC</b>	Volatile Organic Compounds	6.92
	<b>Pb</b>	Lead	0.00022
	<b>Hg</b>	Mercury	2.75
	<b>HAP (single)</b>	Hazardous Air Pollutants	< 10
	<b>HAPs (all)</b>	Hazardous Air Pollutants	< 25
	<b>GHG (CO<sub>2e</sub>)</b>	Greenhouse Gases (Carbon Dioxide Equivalent)	870,966.6

The project is located in Air Quality Hydrographic Area (HA) 66 of the Kelley Creek Valley. HA 66 is not a triggered basin for an increment analysis. NGM will be subject to the National Emission Standards for Hazardous Air Pollutants (NESHAP) 40 CFR Part 63 Subpart EEEEEEE, NESHAP Subpart ZZZZ, NESHAP Subpart CCCCCC, New Source Performance Standards (NSPS) 40 CFR Part 60 Subpart LL, NSPS Subpart OOO, NSPS Subpart IIII, and NSPS Subpart JJJJ.

Air dispersion modeling conducted by the applicant and the Nevada Division of Environmental Protection – Bureau of Air Quality Planning (BAQP) demonstrates that continued operation of NGM will not violate any air quality standard.

Prevention of Significant Deterioration (PSD) review is not triggered for this permit action. No adverse air quality impacts are anticipated as a result of the proposed action. NGM shall comply with all State and Federal air quality requirements and all conditions established within the proposed draft operating permit.