

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

**Walker Lane Minerals Corporation
Isabella Pearl Mine
Mineral County, Nevada
April 15, 2024**

Walker Lane Minerals Corporation – Isabella Pearl Mine (Isabella Pearl) submitted an application for an Operating Permit to Construct (OPTC) rollover to a Class I Air Quality Operating Permit AP1041-4473, FIN A2039, for the Isabella Pearl Mine facility in Mineral County, Nevada. The project is located approximately 25 miles Northeast of Hawthorne, Nevada, in all or portions of Section 34, Township 9N, Range 34E, M.D.B.&M.

Isabella Pearl is proposing to transition their OPTC (AP1041-3897) to a new Class I Title V Air Quality Operating Permit. The facility is a gold recovery operation that utilizes metallic ore processes, heap leaching technology, and a refinery to extract gold from the ore mined from the pits. Metallic ore processes include crushing, screening, and transfers, which is included in the Class II AQOP (AP1041-3853). The refinery includes a mercury retort, melt furnace, carbon regeneration kiln, and a fluid circuit.

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.

Current emissions estimates indicate Isabella Pearl is a Class I (Title V) Source, as emissions of one or more criteria pollutant are less than 100 tons per year (TPY), but the facility is subject to 40 CFR Part 63 Subpart EEEEEEE and is required to have a Class I (Title V) operating permit. Isabella Pearl 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.	<i>Isabella Pearl Mine Potential to Emit (PTE)</i>			
	Pollutant	Facility-Wide (tons/year)	Class I Only (tons/year)	
	PM	Particulate Matter	32.3	0.73
	PM₁₀	Particulate Matter ≤ 10 microns in diameter	14.5	0.73
	PM_{2.5}	Particulate Matter ≤ 2.5 microns in diameter	5.51	0.73
	SO₂	Sulfur Dioxide	0.14	0.016
	NO_x	Oxides of Nitrogen	93.4	3.90
	CO	Carbon Monoxide	22.1	2.25
	VOC	Volatile Organic Compounds	2.78	0.30
	Pb	Lead	0.00	0.00
	Hg	Mercury	0.0057	00.0057
	HAP (single)	Hazardous Air Pollutants	< 10	< 10
	HAPs (all)	Hazardous Air Pollutants	< 25	< 25
	GHG (CO_{2e})	Greenhouse Gases (Carbon Dioxide Equivalent)	18,244.2	3,819.9

The project is located in Air Quality Hydrographic Area (HA) 121A of the Soda Springs Valley/Eastern Part. HA 121A is not a triggered basin for an increment analysis. Isabella Pearl Systems 14 and 15 will be subject to 40 CFR Part 63 Subpart EEEEEEE – National Standards for Hazardous Air Pollutants: Gold Mine Ore Processing and Production Area Source Category since the facility includes gold mining emission units that emit mercury

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 Isabella Pearl 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. Isabella Pearl shall comply with all State and Federal air quality requirements and all conditions established within the proposed draft operating permit.