



FACTSHEET
(pursuant to NAC 445A.236)

Permittee Name: KG MINING

STATE ROUTE 892
ELY, NV 89301

Permit Number: NS2011505

Permit Type: GROUNDWATER DISCHARGE

Designation: GROUNDWATER

New/Existing: EXISTING

Location: BALD MOUNTAIN MINE, WHITE PINE
STATE ROUTE 892, ELY, NV 89301
LATITUDE: 39.94388888, LONGITUDE: -115.614444
TOWNSHIP: T24N, RANGE: R56E, SECTION: S24

Outfall / Well Num	Outfall / Well Name	Location Type	Well Log Num	Latitude	Longitude	Receiving Water
001	TRUCK SHOP - ADMINISTRATION OFFICES AND LAB (2,500 GAL)	External Outfall		39.943536	-115.614706	GROUNDWATER
002	CRUSHER SITE MAINTENANCE SHOP (1,000 GAL)	External Outfall		39.954447	-115.621724	GROUNDWATER
003	PROCESS 2 FACILITY (1,000 GAL)	External Outfall		39.951355	-115.630883	GROUNDWATER
004	MOONEY BASIN NORTH PROCESS BREAK TRAILER (1,000 GAL)	External Outfall		39.923717	-115.470350	GROUNDWATER
005	PROCESS 2 REFINERY TRAILER (1,000 GAL)	External Outfall		39.951465	-115.631802	GROUNDWATER
006	MINE OPERATIONS BUILDING (8,000 GAL)	External Outfall		39.9437	-115.614693	GROUNDWATER
007	COLD CREEK MOBILE HOME PARK - SYSTEM 1 (6,000 GAL)	External Outfall		39.848873	-115.743642	GROUNDWATER
008	COLD CREEK MOBILE HOME PARK - SYSTEM 2 (2,400 GAL)	External Outfall		39.849108	-115.742672	GROUNDWATER
009	COLD CREEK MOBILE HOME PARK - SYSTEM 3 (2,500 GAL)	External Outfall		39.849276	-115.741710	GROUNDWATER
010	TRUCK SHOP EXPANSION (2,000 GAL)	External Outfall		39.943893	-115.614133	GROUNDWATER
011	MOONEY BASIN SOUTH PROCESS FACILITY (1,000 GAL)	External Outfall		39.908578	-115.472080	GROUNDWATER
012	EHS BUILDING & GEOLOGY BUILDING (1,200 GAL)	External Outfall		39.943024	-115.615727	GROUNDWATER
013	AMBULANCE BARN PROJECT (1,000 GAL)	External Outfall		39.942948	-115.615913	GROUNDWATER
014	ADMIN 3 (2,500 GAL)	External Outfall		39.943877	-115.614451	GROUNDWATER
015	TRAINING BUILDING (2,500 GAL)	External Outfall		39.955721	-115.618576	GROUNDWATER

Permit History/Description of Proposed Action

This Major Modification was initially submitted in 2019; however, the permit expired in 2022 before the modification could be processed. The permit is now undergoing modification, and the renewal is being incorporated into the development of the draft permit.

The Permittee operates the Kinross Bald Mountain Mine, precious metals mining facility located in Bald Mountain, White Pine County, Nevada. The mining and processing operation is situated approximately 70

miles south of Elko, Nevada, and is regulated by the Bureau of Mining Regulation and Reclamation.

Facility Overview

The Bureau of Water Pollution Control (BWPC) permits fifteen (15) onsite sewage disposal systems (OSDS) under an individual permit, with a total septic tank capacity of 35,600 gallons, as the combined capacity of the OSDS exceeds 15,000 gallons. There are no surface discharges included in the permit for this site; all outfalls in the permit are septic tanks discharging to leach fields. Twelve (12) of the systems are located onsite at the mine, while three (3) additional systems serve the employee mobile home park, Cold Creek Mobile Home Park (CCMHP), located southwest of the mine site.

This Major Modification is being processed to formally incorporate Outfalls 014 and 015 into the permit. The modification also aligns with the renewal of the permit to ensure continued compliance with current regulatory requirements.

Outfall Summary

The septic tank outfalls are included in this permit and pertain to the OSDS serving the 15 septic systems. Outfalls 014 and 015 are being added as part of this major modification:

Outfall 001: Truck Shop Administration Offices and Lab (2,500 gallons)
 Outfall 002: Crusher Site Maintenance Shop (1,000 gallons)
 Outfall 003: Process 2 Facility (1,000 gallons)
 Outfall 004: Mooney Basin North Process Break Trailer (1,000 gallons)
 Outfall 005: Process 2 Refinery Trailer (1,000 gallons)
 Outfall 006: Mine Operations Building (8,000 gallons)
 Outfall 007: Cold Creek Mobile Home Park System 1 (6,000 gallons)
 Outfall 008: Cold Creek Mobile Home Park System 2 (2,400 gallons)
 Outfall 009: Cold Creek Mobile Home Park System 3 (2,500 gallons)
 Outfall 010: Truck Shop Expansion (2,000 gallons)
 Outfall 011: Mooney Basin South Process Facility (1,000 gallons)
 Outfall 012: EHS Building & Geology Building (1,200 gallons)
 Outfall 013: Ambulance Barn Project (1,000 gallons)
 Outfall 014: Admin 3 (2,500 gallons)
 Outfall 015: Training Building (2,500 gallons)

Effluent Characterization

The wastewater treated in the septic tanks originates solely from bathrooms, mobile homes, and office buildings onsite, with no industrial wastewater discharged into the system. Only domestic sewage, as defined by Nevada Administrative Code (NAC) 445A.9532, is discharged into the system. The discharge of toxic, hazardous, or process mine wastewater to any permitted OSDS is strictly prohibited.

Pollutants of Concern

"Pollutants of Concern" refers to any substances or parameters anticipated in the discharge that may affect the physical, chemical, or biological quality of the receiving water. When the septic tank system is properly operated and maintained, the primary pollutant of concern is total nitrogen.

When a septic tank system is functioning as designed, pathogens such as total coliform and *Escherichia coli* (E. coli) are not considered Pollutants of Concern due to the effective separation between the effluent and potential human or environmental contact.

Receiving Water

Receiving water is to groundwater of the State. Groundwater in the area varies from 180 to 1860 feet below the ground surface.

Compliance History

The facility was inspected on 6/9/2022. During the inspection of Bald Mountain Mine's OSDS, the BWPC did not observe any leakage or surfacing from any of the fifteen (15) OSDS. All systems appeared to be well-maintained and in good working order. All findings and recommendations were addressed under this permit.

The Discharge Monitoring Reports (DMRs) from 2018 through 2025 were reviewed. Bald Mountain is required to submit DMRs, specifically the large-capacity septic evaluation report for each of the fifteen (15) OSDS. These reports document the scum, sludge, and total liquid depths for each OSDS, as well as the date and volume of septage pumped. No compliance issues were noted during the review of the DMRs.

Proposed Effluent Limitations

The discharge shall be limited and monitored as specified below:

* Tables for the outfalls 001- 013 will be added during the renewal.

NS OTHER - Discharge Limitations Table for Sample Location 014 (Admin 3(2,500 Gal)) To Be Reported Monthly

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Outfall observation, visual, y/n response	Positive Results	M&R Pass=0 Fail=1 (pass/fail)		See Footnote ^[1]	014	Monthly	VISUAL

Notes (NS OTHER - Discharge Limitations Table):

- For the Onsite Sewage Disposal System (OSDS), if the visual inspection of the septic tank and leach field was performed, report "0" as "Pass." If the visual inspection was not conducted, or if any surfacing, damage, or leaks were observed, report "1" as "Fail." A visual inspection includes opening accessible covers, checking sludge and scum levels, and inspecting equipment. The sludge/solids depth must be measured annually, and if it reaches 50% of the liquid depth, the tank must be pumped. At a minimum, the tank should be pumped once every three years.
A visual inspection of the leach field should be done routinely to identify any surfacing, damage, or leaks. If surfacing is observed, it must be reported to the NDEP Spill Hotline at 1-888-331-6337.

NS OTHER - Discharge Limitations Table for Sample Location 015 (Training Building (2,500 Gal)) To Be Reported Monthly

Discharge Limitations				Monitoring Requirements			
Parameter	Base	Quantity	Concentration	Monitoring Loc	Sample Loc	Measurement Frequency	Sample Type
Outfall observation, visual, y/n response	Positive Results	M&R Pass=0 Fail=1 (pass/fail)		See Footnote ^[1]	015	Monthly	VISUAL

Notes (NS OTHER - Discharge Limitations Table):

- For the Onsite Sewage Disposal System (OSDS), if the visual inspection of the septic tank and leach field was performed, report "0" as "Pass." If the visual inspection was not conducted, or if any surfacing, damage, or leaks were observed, report "1" as "Fail." A visual inspection includes opening accessible covers, checking sludge and scum levels, and inspecting equipment. The sludge/solids depth must be measured annually, and if it reaches 50% of the liquid depth, the tank must be pumped. At a minimum, the tank should be pumped once every three years.
A visual inspection of the leach field should be done routinely to identify any surfacing, damage, or leaks. If surfacing is observed, it must be reported to the NDEP Spill Hotline at 1-888-331-6337.

Summary of Changes From Previous Permit

This Major Modification was initially submitted in 2019; however, the permit expired in 2022 before the modification could be processed. The permit is now undergoing modification.

- * Two additional outfalls, Outfall 014 and Outfall 015, were added to the permit.
- * A monthly visual inspection requirement was added for Outfall 014 and Outfall 015 septic tanks and leach fields.
- * A Schedule of Compliance (SOC) item for a revised Operation and Maintenance (O&M) Manual was added.
- * The Special Approvals/Conditions Table was reorganized to align with the format used in similar OSDS permits.

Technology Based Effluent Limitations

This permit pertains to an OSDS, and no Technology-Based Effluent Limitations (TBELs) are applicable. The Nevada Division of Environmental Protection (NDEP) does not typically apply TBELs to OSDS permits, as such limitations are primarily designed for larger, more complex wastewater treatment systems—particularly those managing industrial discharges or municipal wastewater treatment plants (WWTPs).

Septic tanks, as decentralized systems treating domestic sewage, are generally regulated through performance standards, maintenance requirements, and water quality-based limits, rather than through TBELs.

NDEP's regulatory focus for OSDS includes:

- * Operational and maintenance requirements, such as periodic pumping, routine inspections, and proper sludge disposal;
- * Design standards, including minimum tank sizing, soil percolation rates, and required setbacks from surface water bodies;
- * Nutrient or pathogen limits, based on the environmental sensitivity of the receiving area.

While NDEP may enforce these requirements under its own regulatory authority, septic systems typically fall under Onsite Wastewater Treatment System (OWTS) or OSDS regulations, and not within the TBEL framework.

Water Quality Based Effluent Limitations

Effluent Limitations are not applicable to this permit.

Basis for Effluent Limitations

Septic Systems:

The Permittee is required to perform visual inspections of the septic systems to verify whether the scum and sludge have exceeded 50% of the liquid depth of the septic tank and to ensure the septic systems are functioning adequately to treat domestic wastewater. Once the scum or sludge reaches 50%, the Permittee is required to pump the septic tank.

Leach Fields:

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

Groundwater monitoring wells, drinking wells, and irrigation are regulated in existing Bald Mountain Mine permits through the Bureau of Mining Regulation and Reclamation and are therefore not included in this permit.

Anti-backsliding

To prevent backsliding, effluent limitations in reissued permits must be at least as stringent as those in the previous permit. The permit requirements have not been revised to be less stringent.

Antidegradation

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

Since this permit is for potential discharges to groundwater, not surface water, the new antidegradation rule is not applicable. Currently, there are no specific water quality standards that have been formally adopted by the State for groundwater.

Special Conditions

See the Special Approvals / Conditions Table below.

SA – Special Approvals / Conditions Table

Item #	Description
1	The rated treatment capacity of each septic tank shall not be exceeded.
2	The septic tank treatment and disposal systems shall be used only for the treatment of domestic sewage. Domestic sewage is defined in NAC 445A.9532 as any liquid and waterborne waste derived from ordinary living processes and of a character that permits its satisfactory disposal into a public sewer or an onsite sewage disposal system without special treatment. The term does not include industrial waste. The discharge of toxic, hazardous, industrial, or laboratory waste material to any permitted wastewater treatment facility (WWTF) is strictly prohibited.
3	Septic tank(s) shall be pumped by a licensed septage hauler whenever the combined depth of scum and sludge equals or exceeds 50% of the total liquid depth, or more frequently as necessary to maintain efficient solids removal. Septic tanks shall be pumped at least once every three years for maintenance purposes. The date, tank number, volume of septage removed, and the name of the septage hauler shall be recorded and maintained onsite in accordance with Part A.2.8 of the permit. Sludge disposal shall comply with applicable regulations.

Discharges From Future Outfalls/ Planned Facility Changes

The Permittee does not intend to discharge from future outfalls or make planned facility changes.

Corrective Action Sites

One Bureau of Corrective Actions remediation site is located on the mine property. An oil spill reported in 1998 remains an open case.

Event ID: 4793, Contaminant: Motor Oil, AltSiteD: F-000577

Wellhead Protection Program

The closest Public Water Supply (PWS) well is located approximately 4,340 feet to the west of the outfall. The outfall is 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 PWS well.

Schedule of Compliance:

SOC – Schedule of Compliance Table

Item #	Description	Due Date
1	All Discharge Monitoring Reports (DMRs) must be submitted electronically via the Nevada NetDMR website: https://netdmr.ndep.nv.gov/netdmr/public/home.htm .	4/28/2026
2	The Permittee shall submit two (2) copies of an updated Operations and Maintenance (O&M) Manual for review and approval by the Division. One copy must be a hard copy, and the second must be an electronic copy. The O&M Manual shall be prepared, signed, and stamped by a Nevada Registered Professional Engineer in accordance with NAC 625.610. If no updates or revisions are required, the Permittee shall submit a letter stating this by the due date noted.	4/1/2026

Deliverable Schedule:

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

Item #	Description	Interval	First Scheduled Due Date
1	Annual Report	Annually	1/28/2026
2	Quarterly DMRs	Quarterly	1/28/2026

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. **12/4/2025**, a period of 30 days following the date of the public notice. The comment period can be extended at the discretion of the Administrator.

A public hearing on the proposed determination can be requested by the applicant, any affected State, any affected interstate agency, the Regional Administrator of EPA Region IX or any interested agency, person or group of persons. The request must be filed within the comment period and must indicate the interest of the person filing the request and the reasons why a hearing is warranted. Any public hearing determined by the Administrator to be held must be conducted in the geographical area of the proposed discharge or any other area the Administrator determined to be appropriate. All public hearings must be conducted in accordance with NAC 445A.238.

The final determination of the Administrator may be appealed to the State Environmental Commission pursuant to NRS 445A.605.

Proposed Determination:

The Division has made the tentative determination to issue/re-issue the proposed 5-year permit.

Prepared by: **Lior Singer P.E. M.Sc.**

Date: **11/3/2025**

Title: **Environmental Engineer**