

## WATER POLLUTION CONTROL FACILITIES PERMIT

Department of Environmental Quality  
Eastern Region - Bend Office  
475 NE Bellevue Drive, Suite 110  
Bend, OR 97701  
Telephone: (541) 388-6146

Issued pursuant to ORS 468B.050

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**ISSUED TO:**

Calico Resources USA Corp.  
665 Anderson St  
Winnemucca, NV 89445

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**SOURCES COVERED BY THIS PERMIT:**

<u>Type of Waste</u>	<u>System</u>	<u>Method of Treatment/Disposal</u>
Domestic Sewage	001	Standard pressurized drainfield(s)

**SYSTEM TYPE AND LOCATION:**

Onsite Wastewater Treatment System

Grassy Mountain Mine  
17 miles south of Vale, Oregon off Russel  
Road, ValeVale, OR 97918

Located on: Township 22, Range 44,  
Section 8, Tax Lot 100 @ Latitude -  
117.362, Longitude 43.674.

**RIVER BASIN INFORMATION:**

Basin: Middle Snake/Boise  
Sub-Basin: Lower Malhuer  
LLID: 1173939437029  
River Mile: 3.63  
County: Malhuer

Nearest surface stream which would receive waste  
if it were to discharge: unnamed stream

This permit is issued in response to application number 948322 received December 21, 2021 and is based on the Land Use Compatibility Statement issued by Malhuer County dated August 6, 2021.

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Sean Rochette, Statewide Manager  
Onsite Program

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Month Day, Year  
Date

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**PERMITTED ACTIVITIES**

Until this permit expires or is modified or revoked, the permittee is authorized to construct, install, modify, or operate a wastewater collection, treatment, control and disposal system in conformance with all the requirements, limitations, and conditions set forth in the attached schedules as follows:

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Discharge of untreated or partially treated sewage or septic tank effluent directly or indirectly onto the ground surface or into surface waters constitutes a public health hazard and is prohibited. This permit does not relieve the permittee from responsibility for compliance with any other applicable federal, state, or local law, rule or standard.

**SCHEDULE A****Waste Disposal Limitations**

1. The permittee is authorized to operate and maintain a domestic sewage treatment and disposal facility consisting of standard soil absorption drainfields which have been constructed in accordance with plans and specifications approved by DEQ and the following conditions:

- a) The average daily sewage flow to the drainfields should be approximately 50 percent of the maximum daily or peak flow to the treatment system. The maximum daily flow must not exceed the following unless otherwise approved by DEQ:

System	Maximum Daily Flow
001	4,320 GPD

- b) The **effluent** from the septic tanks to the drainfields must not exceed the following maximum concentrations:

Parameter	Limitation
BOD <sub>5</sub>	300 mg/l
Greases and Oil	25 mg/l
TSS	150 mg/l
TKN	150 mg/l

- c) No discharge to surface waters is permitted. All wastewater must be distributed into a soil absorption facility so as to prevent:

- 1) Surfacing of wastewater on the ground surface, surface runoff or subsurface drainage through drainage tile.
- 2) The creation of odors, fly and mosquito breeding and other nuisance conditions.
- 3) The overloading of land with nutrients or organics.

2. No cooling water, air conditioner water, water softener brine, groundwater, oil, hazardous materials, roof drainage, storm water runoff, or other aqueous or non-aqueous substances which are, in the judgment of DEQ, detrimental to the performance of the system or to groundwater, shall be discharged into the sewage treatment system, unless specifically approved in writing by DEQ.
3. No activities shall be conducted that could cause an adverse impact on existing or potential beneficial uses of groundwater.

**SCHEDULE B****Minimum Monitoring and Reporting Requirements**

1. System Monitoring Requirements  
The permittee must monitor the operation and efficiency of all treatment and disposal facilities. Sampling and measurements taken as required herein must be representative of the nature of the wastewater, and must be taken at peak usage during operation of the system. Unless otherwise agreed to in writing by DEQ, data collected and submitted must include but not necessarily be limited to the following parameters and minimum frequencies:

a. **Effluent from the septic tanks to the drainfields**

Item or Parameter	Minimum Frequency	Type of Sample
Flow, GPD	Monthly Average	Measurement or calculation based on meter readings
Flow Meter Calibration	Annually	Verification
BOD <sub>5</sub>	Annually	Grab
TSS	Annually	Grab
Grease and oils	Annually	Grab
TKN	Annually	Grab

b. **Operations and Maintenance Activities**

The permittee must record in writing all observations of operation and maintenance activities, as required by DEQ-approved Operation and Maintenance manual, on a monthly basis.

c. **Solids Management**

The permittee must maintain a record of the pumping dates and quantity (in gallons), of solids/wastewater pumped, and what licensed sewage disposal service company pumped the solids/wastewater.

2. **Reporting Procedures**

Monitoring, maintenance practices, solids handling, and results must be reported on DEQ-approved forms. The reporting period is the calendar year. Reports must be submitted to the DEQ office listed on the face page of this permit by **February 15 following the reporting period.**

**SCHEDULE D****Special Conditions**

1. The permittee must maintain on file a complete Operation and Maintenance Plan approved by DEQ. The permittee must operate, manage and implement preventative maintenance practices or corrections at the frequencies required in DEQ-approved plan. DEQ must approve any changes to the plan.
2. The wastewater treatment and dispersal system must be maintained by a maintenance provider certified as defined in OAR 340-071-0100
3. In the event that a concentration limit, as specified in Schedule A, to the drainfield is exceeded, the permittee must within 14 working days of receipt of the analytical results:
  - a) Report the results to DEQ;
  - b) Resample to verify the results; and
  - c) Within 30 days of confirmation, the permittee must submit to DEQ a corrective action plan to reduce the waste strength so that the concentration limits are not violated. Upon DEQ approval, the permittee must implement the plan.
4. A licensed sewage disposal service, as defined in OAR 340-071-0100, must manage all septage/sludge.
5. A deep-rooted, permanent grass cover must be maintained on the drainfield areas at all times and periodically cut to ensure maximum infiltration and evapotranspiration rate.

6. The drainfield areas including replacement areas must not be subject to activities that would, in the opinion of DEQ, adversely affect the soil or the functioning of the system. This includes, but is not limited to, vehicular or animal traffic, filling or cutting, covering the area with asphalt or concrete, or subjecting the area to excessive saturation.
6. The permittee shall not be required to perform a formal hydrogeologic characterization or preliminary groundwater monitoring during the term of this permit provided that the facilities are operated in accordance with the permit conditions, and there are no apparent adverse groundwater quality impacts (complaints or other indirect evidence) resulting from the facility's operation. If warranted, DEQ may evaluate the need for or require a full assessment of the facility's impact on groundwater quality and if necessary may reopen this permit to include groundwater monitoring parameters.
7. An adequate contingency plan for prevention and handling of spills and unplanned discharges shall be in force at all times. The permittee shall immediately notify the DEQ office listed on the face page of this permit and the local County Health Department of any occurrence of surfacing sewage. If a spill does occur that reaches or threatens to reach public waters, the permittee shall immediately notify Oregon Emergency Response (OER) at 1-800-452-0311.

## SCHEDULE F

### WPCF GENERAL CONDITIONS

#### **SECTION A. STANDARD CONDITIONS**

1. Duty to Comply with Permit

The permittee must comply with all conditions of this permit. Failure to comply with any permit condition is a violation of Oregon Revised Statutes (ORS) 468B.025 and grounds for an enforcement action. Failure to comply is also grounds for the Department to modify, revoke, or deny renewal of a permit.

2. Property Rights and Other Legal Requirements

Issuance of this permit does not convey any property rights of any sort, or any exclusive privilege, or authorize any injury to persons or property or invasion of any other rights, or any infringement of federal, tribal, state, or local laws or regulations.

3. Liability

The Department of Environmental Quality or its officers, agents, or employees may not sustain any liability on account of the issuance of this permit or on account of the construction or maintenance of facilities or systems because of this permit.

4. Permit Actions

After notice by the Department, 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 term or condition of this permit, any applicable rule or statute, or any order of the Commission;
- b. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts.

5. Transfer of Permit

This permit may not be transferred to a third party without prior written approval from the Department. The Department may approve transfers where the transferee acquires a property interest in the permitted activity and agrees in writing to fully comply with all the terms and conditions of this permit and the rules of the Commission. A transfer application and filing fee must be submitted to the Department.

6. Permit Fees

The permittee must pay the fees required by Oregon Administrative Rules.

**SECTION B. OPERATION AND MAINTENANCE OF POLLUTION CONTROLS**

1. Proper Operation and Maintenance

At all times the permittee must maintain in good working order and properly operate as efficiently as possible all treatment or control facilities or systems installed or used by the permittee to comply with the terms and conditions of this permit.

2. Standard Operation and Maintenance

All waste collection, control, treatment, and disposal facilities or systems must be operated in a manner consistent with the following:

- a. At all times, all facilities or systems must be operated as efficiently as possible in a manner that will prevent discharges, health hazards, and nuisance conditions.
- b. All screenings, grit, and sludge must be disposed of in a manner approved by the Department to prevent any pollutant from the materials from reaching waters of the state, creating a public health hazard, or causing a nuisance condition.
- c. Bypassing untreated waste is generally prohibited. Bypassing may not occur without prior written permission from the Department except where unavoidable to prevent loss of life, personal injury, or severe property damage.

3. Noncompliance and Notification Procedures

If the permittee is unable to comply with conditions of this permit because of surfacing sewage; a breakdown of equipment, facilities or systems; an accident caused by human error or negligence; or any other cause such as an act of nature, the permittee must:

- a. Immediately take action to stop, contain, and clean up the unauthorized discharges and correct the problem.

- b. Immediately notify the Department's Regional office so that an investigation can be made to evaluate the impact and the corrective actions taken, and to determine any additional action that must be taken.
- c. Within 5 days of the time the permittee becomes aware of the circumstances, the permittee must submit to the Department a detailed written report describing the breakdown, the actual quantity and quality of waste discharged, corrective action taken, steps taken to prevent a recurrence, and any other pertinent information.

Compliance with these requirements does not relieve the permittee from responsibility to maintain continuous compliance with the conditions of this permit or liability for failure to comply.

4. Wastewater System Personnel

The permittee must provide an adequate operating staff that is duly qualified to carry out the operation, maintenance, and monitoring requirements to assure continuous compliance with the conditions of this permit.

**SECTION C. MONITORING AND RECORDS**

1. Inspection and Entry

The permittee must at all reasonable times allow authorized representatives of the Department to:

- a. Enter upon the permittee's premises where a waste source or disposal system is located or where any records are required to be kept under the terms and conditions of this permit;
- b. Have access to and copy any records required by this permit;
- c. Inspect any treatment or disposal system, practices, operations, monitoring equipment, or monitoring method regulated or required by this permit; or
- d. Sample or monitor any substances or permit parameters at any location at reasonable times for the purpose of assuring permit compliance or as otherwise authorized by state law.

2. Averaging of Measurements

Calculations of averages of measurements required for all parameters except bacteria must use an arithmetic mean; bacteria must be averaged as specified in the permit.

3. Monitoring Procedures

Monitoring must be conducted according to test procedures specified in the most recent edition of **Standard Methods for the Examination of Water and Wastewater**, unless other test procedures have been approved in writing by the Department and specified in this permit.

4. Retention of Records

The permittee must retain records of all monitoring and maintenance information, including all calibrations, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report or application. The Department may extend this period at any time.

#### **SECTION D. REPORTING REQUIREMENTS**

1. **Plan Submittal**

Pursuant to Oregon Revised Statute 468B.055, unless specifically exempted by rule, construction, installation, or modification of disposal systems, treatment works, or sewerage systems may not commence until plans and specifications are submitted to and approved in writing by the Department. All construction, installation, or modification shall be in strict conformance with the Department's written approval of the plans.

2. **Change in Discharge**

Whenever a facility expansion, production increase, or process modification is expected to result in a change in the character of pollutants to be discharged or in a new or increased discharge that will exceed the conditions of this permit, a new application must be submitted together with the necessary reports, plans, and specifications for the proposed changes. A change may not be made until plans have been approved and a new permit or permit modification has been issued.

3. **Signatory Requirements**

All applications, reports, or information submitted to the Department must be signed and certified by the official applicant of record (owner) or authorized designee.

#### **SECTION E. DEFINITIONS**

1. *BOD<sub>5</sub>* means five-day biochemical oxygen demand.
2. *TSS* means total suspended solids.
3. *FC* means fecal coliform bacteria.
4. *NH<sub>3</sub>-N* means Ammonia Nitrogen.
5. *NO<sub>3</sub>-N* means Nitrate Nitrogen.
6. *NO<sub>2</sub>-N* means Nitrite Nitrogen.
7. *TKN* means Total Kjeldahl Nitrogen.
8. *Cl* means Chloride.
9. *TN* means Total Nitrogen.
10. "*Bacteria*" includes but is not limited to fecal coliform bacteria, total coliform bacteria, and *E. coli* bacteria.
11. *Total residual chlorine* means combined chlorine forms plus free residual chlorine.
12. *mg/l* means milligrams per liter.
13. *ug/l* means micrograms per liter.
14. *kg* means kilograms.
15. *GPD* means gallons per day.
16. *MGD* means million gallons per day.

17. *Grab sample* means an individual discrete sample collected over a period of time not to exceed 15 minutes.
18. *Composite sample* means a combination of samples collected, generally at equal intervals over a 24-hour period, and based on either time or flow.
19. *Week* means a calendar week of Sunday through Saturday.
20. *Month* means a calendar month.
21. *Quarter* means January through March, April through June, July through September, or October through December.