# Idaho Department of Environmental Quality
# Reuse Permit
# M-013-05

## (Previous Permit No. M-013-04)

The Coolin Sewer District (hereafter "permittee") is hereby authorized to construct, install, and operate a reuse facility in accordance with (1) this permit; (2) IDAPA 58.01.17 "Recycled Water Rules"; (3) an approved plan of operation; and (4) all other applicable federal, state, and local laws, statutes, and rules. This permit is effective from the date of signature and expires on October 13, 2030.

Signature

10/13/2020
Date

Dan McCracken
Regional Administrator
Coeur d'Alene Regional Office
Idaho Department of Environmental Quality

Idaho Department of Environmental Quality
Coeur d'Alene Regional Office
2110 Ironwood Parkway
Coeur d'Alene, ID 83814
(208) 769-1422

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# 1. Common Acronyms/Abbreviations and Definitions

| | |
|---|---|
| CA | compliance activity |
| DEQ | Idaho Department of Environmental Quality |
| DEQ Guidance | DEQ Guidance for Reclamation and Reuse of Municipal and Industrial Wastewater, latest revision |
| Director | DEQ director or designee unless otherwise specified |
| $E_i$ | irrigation efficiency |
| EPA | United States Environmental Protection Agency |
| FM | prefix for flow measurement/monitoring location, device, or method reporting serial number |
| GW | prefix for ground water reporting serial number |
| HDPE | high density polyethylene |
| IDAPA | Idaho Administrative Procedures Act |
| IDWR | Idaho Department of Water Resources |
| IPDES | Idaho Pollutant Discharge Elimination System |
| IWR | irrigation water requirement — any combination of wastewater and supplemental irrigation water applied at rates commensurate to the moisture requirements of the crop, and calculated monthly during the growing season. |
| lb | pound |
| LG | prefix for lagoon reporting serial number |
| µmhos/cm | micromhos per centimeter |
| MG | million gallons |
| mg/kg | milligram per kilogram |
| mg/L | milligram per liter |
| mL | milliliter |
| MU | management unit, prefix for management unit reporting environmental serial number |
| N | nitrogen |
| P | phosphorus |
| $P_{def}$ | precipitation deficit – is synonymous with the net irrigation water requirement of the crop and for the purposes of this permit can be found at the following website: http://data.kimberly.uidaho.edu/ETIdaho/. |
| PO | plan of operation |

| | |
|---|---|
| QAPP | quality assurance project plan |
| Responsible Official | facility contact person authorized by the permittee to communicate with DEQ on behalf of the permittee on any matter related to the permit, including without limitation, the authority to communicate with and receive notices from DEQ regarding notices of violation or non-compliance, permit violations, permit enforcement, and permit revocation. The responsible official provides written certification of permit application materials, annual report submittals, and other information submitted to DEQ as required by the permit. Any notice to or communication with the responsible official is considered a notice to or communication with the permittee. The responsible official may designate an authorized representative to act as the facility contact person for any of the activities or duties related to the permit, except signing and certifying the permit application, which must be done by the responsible official. The authorized representative shall act as the responsible official and shall bind the permittee as described in this definition. Designation of the authorized representative shall follow the requirements specified in section 6.1.3 of the permit. |
| SU | prefix for soil monitoring unit reporting serial number |
| SW | prefix for supplemental irrigation water reporting serial number |
| WLAP | Wastewater Land Application Permit |
| WW | prefix for wastewater reporting serial number |

# 2. Facility Information

| Information Type | Information Specific to This Permit |
|---|---|
| Class or type of recycled water | Municipal, Class D facility |
| Method of treatment and reuse | Aerated lagoons, chlorine disinfection, and slow rate recycled water reuse |
| Collection and treatment system classification | Wastewater collection system classification: Class I<br>Wastewater treatment system classification: Class I<br>Land Application/Reuse |
| Facility location | Coolin, Priest Lake, Idaho, 83821, Bonner County<br>(208) 443-2034<br><br>T60N, R4W, S27 |
| Facility mailing address | PO Box 86, Coolin, Idaho, 83821, Bonner County |
| Facility responsible official and authorized representative | Responsible Official:<br>Stuart Wagner<br>PO Box 86<br>Coolin, ID 83821<br>(208) 443-2034<br>coolinsewer@gmail.com<br><br>Authorized Representative:<br>Daniel W. Larson, P.E.<br>414 Church Street, Suite 205F<br>Sandpoint, ID 83864<br>(208) 263-0623<br>dan@7bengineering.com<br><br>Notify DEQ within 30 days if a change in personnel occurs for any of the facility contacts. DEQ will issue a minor permit modification to confirm the change. |
| Ground water | Regional aquifer, between 115 and 185 feet deep |
| Surface water | Chase Lake, approximately 1.3 miles northeast of reuse site.<br>Beneficial use: primary contact recreation and cold water aquatic communities |

# 3. Compliance Schedule for Required Activities

| Compliance Activity (CA) Number and Completion Due Date | Compliance Activity Description |
|---|---|
| CA-013-01<br>Six (6) months after permit issuance | **Plan of Operation (PO) Management Plans**: The permittee shall submit for review and approval a PO that reflects current operations and incorporates the requirements of this permit. The PO shall comply with the applicable requirements stated in IDAPA 58.01.17.300.05 and shall address appropriate items in the Plan of Operation Checklist in the DEQ Guidance.<br>The PO shall include the following site management plans, or the permittee may submit the site management plans individually:<br>1. Soils Management Plan<br>2. Lagoon Management Plan<br>3. Runoff Management Plan<br>4. Grazing Management Plan, if applicable<br>5. Irrigation Management and Scheduling Plan<br>6. Soils Management Plan<br>7. Buffer Zone Plan<br>8. Emergency Action Plans<br>The management plans shall be included as part of the facility plan of operations after DEQ approval. The PO shall be updated as needed to reflect current operations. The permittee shall notify DEQ of material changes to the PO and copies shall be kept on site and made available to DEQ upon request. |

| Compliance Activity (CA) Number and Completion Due Date | Compliance Activity Description |
|---|---|
| CA-013-02<br>Twelve (12) months after permit issuance | **Quality Assurance Project Plan (QAPP)**: The permittee shall prepare and implement a QAPP that incorporates all monitoring and reporting required by this permit. A copy of the QAPP along with written notice that the permittee has implemented the QAPP shall be provided to DEQ. The Permittee must follow the QAPP when collecting, analyzing, and reporting monitoring data submitted to DEQ.<br><br>The QAPP shall be designed to assist in planning for collecting, analyzing, and reporting all monitoring in support of this permit and in explaining data anomalies when they occur. At a minimum, the QAPP must include the following:<br><br>1. Details on the number of measurements, number of samples, type of sample containers, preservation of samples, holding times, analytical methods, analytical detection and quantitation limits for each target compound, type and number of quality assurance field samples, precision and accuracy requirements, sample preparation requirements, sample shipping methods, and laboratory data delivery requirements<br>2. Maps indicating the location of each monitoring and sampling point<br>3. Qualification and training of personnel<br>4. Names, addresses, and telephone numbers of the laboratories used by or proposed to be used by the permittee<br>5. Example formats and tables that will be used by the permittee to summarize and present all data in the annual report<br><br>The format and content of the QAPP should adhere to the recommendations and references in the Quality Assurance and Data Processing sections of the reuse guidance.<br><br>The permittee shall amend the QAPP whenever there is a modification in sample collection, sample analysis, or other procedure addressed by the QAPP. The permittee shall notify DEQ of material changes to the QAPP and copies shall be kept on site and made available to DEQ upon request. |
| CA-013-03<br>One (1) year prior to the expiration date of this permit | **Silvicultural Plan:** An updated silvicultural plan for the reuse site prepared by a professional silviculturist (forester) shall be submitted to DEQ for review and approval. The plan must include the dominant vegetation species occupying the application site, estimated percentage of the application site occupied by each of the dominant species, land management activities that will maximize evapotranspiration and nutrient uptake, and harvesting schedules. |
| CA-013-04<br>Six (6) months prior to site lease termination | **Reuse Permit Site Lease:** The permittee shall submit an updated lease agreement with the Idaho Department of Lands six (6) months prior to lease termination on December 31, 2026. |

<table>
<tr><th>Compliance Activity (CA) Number and Completion Due Date</th><th>Compliance Activity Description</th></tr>
<tr><td>CA-013-05<br>As specified</td><td>Seepage Testing: The following table shows the year by which the permittee shall complete seepage testing on the specified lagoons:<table><tr><td>Lagoon:</td><td>Seepage Test Due by Year:</td></tr><tr><td>Aerated Lagoon 1 (North Cell)</td><td>2030</td></tr><tr><td>Aerated Lagoon 2 (South Cell)</td><td>2030</td></tr></table>Submit to DEQ for review and approval a proposed schedule one year before the planned seepage tests. Submit to DEQ for review and approval a procedure for performing the required seepage tests at least 45 days before the planned seepage tests. The seepage test procedures shall be sealed by the Idaho licensed professional engineer or professional geologist in responsible charge for the test.<br><br>Seepage tests shall be completed according to the procedures approved by DEQ. The seepage test report shall be sealed by the person in responsible charge and submitted within 90 days after completion of the seepage test.<br><br>Allowable seepage rates can be found in IDAPA 58.01.16.493.03. Requirements for lagoons leaking above the allowable amount are outlined in IDAPA 58.01.16.493.04.</td></tr>
<tr><td>CA-013-06<br>One (1) year prior the expiration date of this permit</td><td>Pre-application Conference: If the permittee intends to continue operating the reuse facility beyond the expiration date of this permit, the permittee shall contact DEQ and schedule a pre-application conference to discuss the compliance status of the facility and the content required for the reuse permit application package.</td></tr>
<tr><td>CA-013-07<br>180 days prior to the expiration date of this permit</td><td>Permit Renewal Application: The permittee shall submit to DEQ a complete permit renewal application package that fulfills the requirements specified in CA-013-06 and identified at the pre-application workshop.</td></tr>
</table>

# 4. Permit Limits and Conditions

## 4.1 Management Unit Descriptions

| Serial Number | Description | Irrigation System Type and Irrigation Efficiency ($E_i$) | Maximum Acres[a] Allowed |
|---|---|---|---|
| MU-013-01 | Forested Reuse Site | Sprinkler system ($E_i$ = 0.75) | 52 |
| | | Total acreage | 52 |

a. Maximum acres represent the total permitted acreage of the MU as provided by the permittee. If the permittee uses less acreage in any season or year, then loading rates shall be presented and compliance shall be determined based on the actual acreage used during each season or year.

## 4.2 Hydraulic Loading Limits

| Serial Number | Growing Season Hydraulic Loading | Nongrowing Season Maximum Hydraulic Loading (inches) |
|---|---|---|
| MU-013-01 | Substantially at or below the irrigation water requirement (IWR)[a] | Not allowed |

a. For compliance purposes, the method for calculating the IWR shall be specified in the PO.

## 4.3 Constituent Loading Limits

| Serial Number | Constituent Loading from All Sources | | | |
|---|---|---|---|---|
| | Nitrogen (lb/acre) | Salt (NVDS) (lb/acre) | COD Growing Season (lb/(acre·day))[a] | COD Nongrowing Season (lb/(acre·day))[a] |
| MU-013-01 | 104 | None | None | None |

## 4.4 Management Unit Buffer Zones

| Serial Number | Buffer Distances (feet) from Management Units | | | | | |
|---|---|---|---|---|---|---|
| | Public Water Supplies | Private Water Supplies | Inhabited Dwellings | Permanent and Intermittent Surface Water | Irrigation Ditches and Canals | Areas Accessible to the Public |
| MU-013-01 | 1,000 | 500 | 500 | 100 | 50 | 300 |

## 4.5 Other Permit Limits and Conditions

| Category | Permit Limits and Conditions |
|---|---|
| Growing season | May 1 through September 30 (153 days) |
| Nongrowing season | October 1 through April 30 (212 days) |
| Reporting year for annual loading rates | October 1 through September 30 |
| Operator certification and endorsement | The wastewater treatment facility and reuse system shall be operated by personnel certified and licensed in the State of Idaho wastewater operator training program at the operator class level specified in IDAPA 58.01.16.203 and properly trained to operate and maintain the system. |
| Disinfection limits in recycled water | Class D: The median number of total coliform organisms does not exceed 230 total coliform organisms/100 mL, as determined from the bacteriological results of the last three days for which analyses have been completed. No sample shall exceed 2,300 total coliform organisms/100 mL in any confirmed sample. |
| Crop or vegetation restrictions | Refer to the Silvicultural Plan for allowable vegetation. Timber harvest and management shall be in accordance with the recommendations of the approved Silvicultural Plan. |
| Grazing | Prior to grazing, the permittee shall submit a grazing management plan and receive written approval from DEQ. |
| Posting | Signs shall read “Warning: Recycled Water—Do Not Enter,” or equivalent signage both in English and Spanish. Signs to be posted every 100 feet and at each corner of the outer perimeter of the irrigated site. Signs are required where management unit border areas are accessible to the public. An additional, larger version, warning sign shall be posted and maintained at the intersection of Eastside Road and the primary access road to the site. |
| Fencing | Fencing around the land application site is not required. |
| Lagoon site maintenance | The fencing and signage around the lagoon area must be maintained and vegetation controlled to maintain the integrity of the lagoon liner and berms. |
| Construction plans | Pursuant to Idaho Code §39-118, IDAPA 58.01.16, and IDAPA 58.01.17, detailed plans and specifications shall be submitted to DEQ for review and approval before construction, modification, or expansion of any wastewater treatment, storage, conveyance structures, ground water monitoring wells, or reuse facility. Inspection requirements shall be satisfied, and within 30 days of completion of construction, the permittee shall submit as-built plans or a letter from an Idaho professional engineer certifying the facilities or structures were constructed in substantial accordance with the approved plans and specifications. |
| Records retention requirements | Keep records generated to meet the requirements of this permit for the duration of the permit, including administrative extensions, plus two years. |

| Category | Permit Limits and Conditions |
|---|---|
| Flow measurement calibration/verification | Flow measurement devices used to directly or indirectly measure recycled water applied to the management unit shall be calibrated or verified annually. Calibration/verification of flow measurement devices shall be done in accordance with the device manufacturer's specifications and with the permittee's QAPP or PO. |
| Backflow prevention and testing requirements | Backflow prevention is required to protect surface water and ground water from an unauthorized discharge of recycled water or wastewater. Refer to section 9.1.1 of this permit. |

# 5. Monitoring Requirements

## 5.1 Recycled Water and Supplemental Irrigation Water Sampling and Analyses

### 5.1.1 Constituent Monitoring

| Monitoring Point Serial Number and Location | Sample Description | Sample Type and Frequency | Constituents (mg/L unless otherwise specified) |
|---|---|---|---|
| WW-013-01<br>Recycled water from lagoons, post-disinfection, from the sample port | Recycled water quality to management unit | Grab/monthly (during periods of use) | Total nitrogen<br>Total coliform (organisms/100 mL) |

### 5.1.2 Management Unit and Other Flow Monitoring

| Management Unit or Flow Measurement Serial Number and Location | Sample Description | Sample Type and Frequency | Parameters, each MU or FM |
|---|---|---|---|
| MU-013-01 | Effluent flow of recycled water to management unit | Daily meter reading<br>Monthly compilation of data<br>(during periods of recycled water application) | Flow volume (gal/day, MG/month)<br>Application depth (inches/month) |
| FM-013-01 | Influent flow to lagoons | Weekly meter reading<br>Monthly compilation of data | Flow volume (gal/day, MG/month, MG/year) |

## 5.2 Ground Water Monitoring (Not Required)

## 5.3 Soil Monitoring

### 5.3.1 Soil Monitoring Unit Descriptions

| Monitoring Point Serial Number | Description | Associated Management Unit |
|---|---|---|
| SU-013-01 | Forested Reuse Site | MU-013-01 |

### 5.3.2 Soil Monitoring, Sampling, and Analyses

| Monitoring Point Serial Number | Sample Type | Sample Frequency | Constituents (Units in mg/kg Soil Unless Otherwise Specified) |
|---|---|---|---|
| SU-013-01 | Composite samples[a] | Annually, April | Electrical conductivity (µmhos/cm in saturated paste extract)<br>Nitrate, as N<br>Ammonium, as N<br>Plant available phosphorus<br>pH (standard units) |

a. The number of sample locations PO or QAPP for each SU shall be specified in the PO or QAPP. At each location, samples shall be obtained from three depths: 0–12 inches, 12–24 inches, and 24–36 inches or refusal. The samples obtained from each depth shall be composited by depth to yield three composite samples for each soil monitoring unit (one composite sample for each depth).

## 5.4 Plant Tissue Monitoring (Not Required)

## 5.5 Lagoon Information

| Serial number | Description | Surface Area (acres) | Maximum Operating Volume (MG) | Liner Type |
|---|---|---|---|---|
| LG-013-01 | Aerated Lagoon 1 (North Cell) | 1.8 | 9.45 | HDPE |
| LG-013-02 | Aerated Lagoon 2 (South Cell) | 1.8 | 9.45 | HDPE |

# 6. Reporting Requirements

## 6.1 Annual Report Requirements

The permittee shall submit to DEQ an annual report prepared by a competent environmental professional covering the previous reporting year.

### 6.1.1 Due Date

The annual report is due no later than January 31 of each year, which shall cover the previous reporting year.

### 6.1.2 Required Contents

The annual report shall include the following:

1. Detailed results of the required monitoring as described in section 5 of this permit. The report shall present all monitoring data in summary tables to expedite review. If the permittee monitors any parameter for compliance purposes more frequently than required by this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the annual report.
2. A brief interpretive discussion of the results of all required monitoring data as specified by section 5. The discussion shall address data quality objectives, validation, and verification; explain what the data say about permit compliance; and reuse facility environmental impacts. The reporting year for this permit is specified in section 4.5.
3. Status of all work described in section 3 of this permit.
4. Results of the annual calibration or flow verification of the flow measurement devices used to measure wastewater and supplemental irrigation water flows.
5. Results of all backflow testing, repairs, and replacements required by section 9.1.1 of this permit.
6. Discussion of major maintenance activities such as major equipment replacement, lagoon liner maintenance, and wastewater treatment and reuse facility maintenance.
7. A summary of all noncompliance events that occurred during the reporting year. Examples of noncompliance events that must be discussed include, but are not limited to: exceedance of permit limits, complaints, missed monitoring events, incorrect monitoring dates or frequencies, dry monitoring wells, uncontained spills causing runoff, construction without DEQ engineering plan approval, construction without engineering inspection, and reporting incorrect acreage.
8. Laboratory analytical reports that show results, analytical methods, and practical quantitation limits for monitoring specified in section 5 of the permit. Chain of custody forms, supporting information for laboratory analytical reports, and quality assurance documentation shall be available for review upon request by DEQ.
9. The calculations and results for the parameters in the following table:

| Monitoring Point Serial Number | Parameter (Calculate for each MU) | Units |
|---|---|---|
| MU-013-01 | Recycled water loading rate | MG/month<br>Inches/month |
| | IWR for each crop | Inches/month<br>Inches/growing season |
| | Recycled water nitrogen loading rates | lb/(acre·year) |
| | Fertilizer nitrogen and phosphorus application rates, reported as elemental N and P | lb/(acre·yr) |
| | Waste solids nitrogen and phosphorus application rates | lb/(acre·yr) |
| | Crop harvest and yield, report for each harvest and the annual totals for each MU. | Crop types harvested<br>Total harvested area (acres)<br>Total wet yield (lb/yr, lb/(acre·yr))<br>Total dry yield (lb/yr, lb/(acre·yr)) |
| | Crop nitrogen and phosphorous removal rates (dry-basis)<br>Report each harvest and the annual totals for each MU. | lb N/(acre·yr)<br>lb P/(acre·yr) |
| Other Reporting Requirements:<br>• Visual observation of field conditions: areas of ponding, ice, and unusual conditions. | | |

### 6.1.3 Submittals

All applications, annual reports, or other information submitted to DEQ as required by this permit shall be signed and certified as follows:

- Permit applications shall be signed by the responsible official as described below:
  - For a corporation by a responsible corporate officer
  - For a partnership or sole proprietorship by a general partner or the proprietor, respectively
  - For a municipality, state, federal, Indian tribe, or other public agency by either the principal executive officer, ranking elected official, or a person of decision-making authority who can legally bind the permittee with respect to the permit.
- Annual reports and other information required by this permit shall be signed by the responsible official or by a duly authorized representative of that person. A person is a duly authorized representative only if all of the following are true:
  - The authorization is made in writing by the responsible official.
  - The authorization specifies either an individual or position having responsibility for the overall operation of the regulated facility, such as the position of plant manager, superintendent, position of equivalent responsibility, or an individual having overall responsibility for environmental matters for the company.
  - The written authorization is submitted to DEQ.

Submit all applications, annual reports, and other information required by this permit to the following DEQ regional office at this address:

Engineering Manager
Idaho Department of Environmental Quality
Coeur d'Alene Regional Office
2110 Ironwood Parkway
Coeur d'Alene, ID 83814

The annual report, or any other data or monitoring information submitted to DEQ, shall include the following certification statement and be signed, dated, and certified by the permittee's Responsible Official or duly Authorized Representative:

> "*I certify that the information provided in this submittal was prepared in conformance with the current Quality Assurance Project Plan and is to the best of my knowledge, true, accurate and complete and I acknowledge that knowing submission of false or incomplete information may result in permit revocation as provided for in IDAPA 58.01.17.920.01 or other enforcement action as provided for under Idaho law."*

Permit applications shall include the following certification statement and be signed, dated, and certified by the permittee's Responsible Official:

> *"I certify that the information provided in this submittal is, to the best of my knowledge, true, accurate and complete and I acknowledge that knowing submission of false or incomplete information may result in permit revocation as provided for in IDAPA 58.01.17.920.01, non-issuance of the permit, or other enforcement action as provided for under Idaho law."*

Other information submitted to DEQ as required by the permit shall include the above certification statement and be signed, dated, and certified by the permittee's Responsible Official or duly Authorized Representative.

## 6.2 Emergency and Noncompliance Reporting

Report noncompliance incidents to DEQ's regional office at (208) 769-1422 or 1-888-800-3480.

In case of public health emergencies, call the 24-hour Idaho Emergency Medical Services Communications Center number at (800) 632-8000 and DEQ's regional office.

Section 8 of this permit and IDAPA 58.01.17.500.06 provide the reporting requirements for facilities.

All instances of permit non-compliance that may endanger public health or the environment and unauthorized discharges to surface waters of the State of Idaho shall be reported to DEQ's regional office by telephone (phone numbers provided in this section) within 24 hours from the time the permittee becomes aware of these events at the phone numbers provided in this section.

A written follow-up shall be provided to the DEQ regional office within five days from the time the permittee became aware of the permit non-compliance or unauthorized discharge.

Reporting of unauthorized discharges to surface waters may also be required. Contact information for the DEQ Idaho Pollutant Discharge Elimination System (IPDES) is provided below:

IPDES Compliance, Inspection, and Enforcement Lead
1410 N. Hilton Street
Boise, ID 83706
833-IPDES24 or 833-473-3724

# 7. Reserved

# 8. Standard Permit Conditions

The following standard permit conditions are included as terms of this permit as required by the "Recycled Water Rules," (IDAPA 58.01.17.500).

**500. STANDARD PERMIT CONDITIONS.**
The following conditions shall apply to and be included in all permits. (4-1-88)

**01. Compliance Required**. The permittee shall comply with all conditions of the permit. (4-1-88)

**02. Renewal Responsibilities**. If the permittee intends to continue operation of the permitted facility after the expiration of an existing permit, the permittee shall apply for a new permit in accordance with these rules. (4-1-88)

**03. Operation of Facilities**. The permittee shall at all times properly maintain and operate all structures, systems, and equipment for treatment, control and monitoring, which are installed or used by the permittee to achieve compliance with the permit or these rules. (4-1-88)

**04. Provide Information**. The permittee shall furnish to the Director within a reasonable time, any information including copies of records, which may be requested by the Director to determine whether cause exists for modifying, revoking, re-issuing, or terminating the permit, or to determine compliance with the permit or these rules. (4-1-88)

**05. Entry and Access**. The permittee shall allow the Director, consistent with Title 39, Chapter 1, Idaho Code, to: (4-1-88)

**a.** Enter the permitted facility. (4-1-88)

**b.** Inspect any records that must be kept under the conditions of the permit. (4-1-88)

**c.** Inspect any facility, equipment, practice, or operation permitted or required by the permit. (4-1-88)

**d.** Sample or monitor for the purpose of assuring permit compliance, any substance or any parameter at the facility. (4-1-88)

**06. Reporting**. The permittee shall report to the Director under the circumstances and in the manner specified in this section: (4-1-88)

**a.** In writing at least thirty (30) days before any planned physical alteration or addition to the permitted facility or activity if that alteration or addition would result in any significant change in information that was submitted during the permit application process. When the alteration or addition results in a need for a major modification, such alteration or addition shall not be made prior to Department approval issued in accordance with these rules. (4-7-11)

**b.** In writing thirty (30) days before any anticipated change which would result in noncompliance with any permit condition or these rules. (4-1-88)

**c.** Orally within twenty-four (24) hours from the time the permittee became aware of any noncompliance which may endanger the public health or the environment at telephone numbers provided in the permit by the Director. (4-1-88)

**d.** In writing as soon as possible but within five (5) days of the date the permittee knows or should know of any noncompliance unless extended by the Department. This report shall contain: (4-1-88)

i. A description of the noncompliance and its cause; (4-1-88)

ii. The period of noncompliance including to the extent possible, times and dates and, if the noncompliance has not been corrected, the anticipated length of time it is expected to continue; and (4-7-11)

iii. Steps taken or planned, including timelines, to reduce or eliminate the continuance or reoccurrence of the noncompliance. (4-7-11)

**e.** In writing as soon as possible after the permittee becomes aware of relevant facts not submitted or incorrect information submitted, in a permit application or any report to the Director. Those facts or the correct information shall be included as a part of this report. (4-1-88)

**07. Minimize Impacts**. The permittee shall take all necessary actions to eliminate and correct any adverse impact on the public health or the environment resulting from permit noncompliance. (4-1-88)

**08. Compliance with "Ground Water Quality Rule."** Permits issued pursuant to these rules shall require compliance with IDAPA 58.01.11, "Ground Water Quality Rule." (4-7-11)

# 9. General Permit Conditions

The following general permit conditions are based on the cited rules at the time of issuance and are enforceable as part of this permit. Note that the rules cited in this section, and elsewhere in this permit, are supplemented by the rules themselves. Rules applicable to your facility are enforceable whether or not they appear in this permit.

## 9.1 Operations

### 9.1.1 Backflow Prevention

Reuse facilities with existing or planned cross-connections or interconnections between the recycled water system and any water supply (potable or nonpotable) or surface water, shall have backflow prevention assemblies, devices, or methods as required by applicable rule or as specified in this permit and approved by DEQ.

For public water systems, backflow assemblies shall meet the requirements of IDAPA 58.01.08.543. Assemblies shall be adequately maintained and shall be tested annually by a certified backflow assembly tester, and repaired or replaced as necessary to maintain operational status.

For domestic water supply wells, backflow prevention devices shall meet the requirements of IDAPA 07.02.04 and shall be adequately operated and maintained.

Irrigation water supply wells shall meet the requirements of IDAPA 37.03.09.36 for preventing any waste or contamination of the ground water resource. Backflow prevention assemblies or devices used to protect the ground water shall be adequately operated and maintained.

Discharge of recycled water to surface water is regulated by the Idaho DEQ IPDES program. An IPDES or NPDES permit is required for any discharge to surface water and backflow prevention shall be implemented to prevent any unauthorized discharge. Backflow prevention assemblies or devices used to protect surface water shall be adequately operated and maintained.

Records of all testable backflow assembly test results, repairs, and replacements shall be kept at the reuse facility along with other operational records, and shall be discussed in the annual report and made available for inspection by DEQ. Other approved means of backflow prevention, such as siphons and air-gap structures that cannot be tested, shall be maintained in operable order.

### 9.1.2 Restricted to Premises

Wastewaters or recharge waters applied to the land surface must be restricted to the premises of the application site. Wastewater discharges to surface water that require a permit under the Clean Water Act must be authorized by the EPA (IDAPA 58.01.16.600.02).

### 9.1.3 Health Hazards, Nuisances, and Odors Prohibited

Health hazards, nuisances, and odors are prohibited as follows:

Wastewater must not create a public health hazard or nuisance condition (IDAPA 58.01.16.600.03).

No person shall allow, suffer, cause, or permit the emission of odorous gases, liquids, or solids into the atmosphere in such quantities as to cause air pollution (IDAPA 58.01.01.776.01).

Air Pollution defined as the presence in the outdoor atmosphere of any air pollutant or combination thereof in such quantity of such nature and duration and under such conditions as would be injurious to human health or welfare, to animal or plant life, or to property, or to interfere unreasonably with the enjoyment of life or property (IDAPA 58.01.01.006.06).

### 9.1.4 Solids Management

**Biosolids** are the nutrient-rich organic materials resulting from the treatment of sewage sludge. When treated and processed, sewage sludge becomes biosolids that can be safely recycled and applied as fertilizer to sustainably improve and maintain productive soils and stimulate plant growth.

Biosolids generated from sewage sludge are regulated by EPA under 40 CFR Part 503 and require a DEQ approved sludge disposal plan as outlined in IDAPA 58.01.16.650. Contact DEQ before to applyingbiosolids at any permitted reuse facility.

**Sludge** is the semi-liquid mass produced and removed by wastewater treatment processes. This does not include grit, garbage, and large solids.

Sludge may be generated by wastewater treatment processes at municipal and industrial facilities. A DEQ-approved sludge disposal plan, as outlined in IDAPA 58.01.16.650, may be required.

**Solid waste** is any garbage or refuse, sludge from a waste water treatment plant, water supply treatment plant, or air pollution control facility and other discarded material including solid, liquid, semi-solid, or contained gaseous material resulting from industrial, commercial, mining, and agricultural operations and from community activities, but does not include solid or dissolved materials in domestic sewage, or solid or dissolved material in irrigation return flows or industrial discharges that are point sources subject to permits under Section 402 of the Federal Water Pollution Control Act, as amended or source, special nuclear, or by-product material as defined by the Atomic Energy Act of 1954, as amended.

Solid waste does not include inert wastes, manures and crop residues ultimately returned to the soils at agronomic rates, and any agricultural solid waste that is managed and regulated pursuant to rules adopted by the Idaho Department of Agriculture. DEQ reserves the right to use existing authorities to regulate agricultural waste that impacts human health or the environment.

Solid waste is regulated under the “Solid Waste Management Rules” (IDAPA 58.01.06). Wastes otherwise regulated by DEQ (i.e., this permit) are not regulated under IDAPA 58.01.06.

**Waste solids** include sludge and wastes otherwise regulated by DEQ according with IDAPA 58.01.06.001.03.a.xii. Waste solids may include vegetative waste, silt and mud containing organic matter, and other non-inert solid wastes.

Inert wastes are defined as non-combustible, nonhazardous, and non-putrescible solid wastes that are likely to retain their physical and chemical structure and have a de minimis potential to generate leachate under expected conditions of disposal, which includes resistance to biological attack.

Waste solids require a DEQ approved sludge disposal plan as outlined in IDAPA 58.01.16.650.

### 9.1.5 Temporary Cessation of Operations and Closure (IDAPA 58.01.17.801)

Temporary cessation of operations and closure must be addressed as follows:

**01. Temporary Cessation**. A permittee shall implement any applicable conditions specified in the permit for temporary cessation of operations. When the permit does not specify applicable temporary cessation conditions, the permittee shall notify the Director prior to a temporary cessation of operations at the facility greater than sixty (60) days in duration and any cessation not for regular maintenance or repair. Cessation of operations necessary for regular maintenance or repair of a duration of sixty (60) days or less are not required to notify the Department under this section. All notifications required under this section shall include a proposed temporary cessation plan that will ensure the cessation of operations will not pose a threat to human health or the environment. (4-7-11)

**02. Closure**. A closure plan shall be required when a facility is closed voluntarily and when a permit is revoked or expires. A permittee shall implement any applicable conditions specified in the permit for closure of the facility. Unless otherwise directed by the terms of the permit or by the Director, the permittee shall submit a closure plan to the Director for approval at least ninety (90) days prior to ceasing operations. The closure plan shall ensure that the closed facility will not pose a threat to human health and the environment. Closure plan approval may be conditioned upon a permittee's agreement to complete such site investigations, monitoring, and any necessary remediation activities that may be required. (4-7-11)

### 9.1.6 Plan of Operation (IDAPA 58.01.17.300.05)

The PO must comply with the following:

**05. Reuse Facility Operation and Maintenance Manual or Plan of Operations**. A facility's operation and maintenance manual must contain all system components relating to the reuse facility in order to comply with IDAPA 58.01.16 "Wastewater Rules," Section 425. Manuals and manual amendments are subject to the review and approval provision therein. In addition to the content required by IDAPA 58.01.16.425, manuals for reuse facilities shall include, if applicable: operation and management responsibility, permits and standards, general plant description, operation and control of unit operations, land application site maps, wastewater characterization, cropping plan, hydraulic loading rate, constituent loading rates, compliance activities, seepage rate testing, site management plans, monitoring, site operations and maintenance, solids handling and processing, laboratory testing, general maintenance, records and reports, store room and inventory, personnel, an emergency operating plan, and any other information required by the Department. (4-7-11)

### 9.1.7 Seepage Testing Requirements (IDAPA 58.01.16.493.02.c)

**Subsequent Tests**. All lagoons covered under these rules must be seepage tested by an Idaho licensed professional engineer, an Idaho licensed professional geologist, or by individuals under their supervision every ten (10) years after the initial testing. (5-8-09)

### 9.1.8 Ground Water Quality Rule (IDAPA 58.01.11)

The permittee shall comply with the requirements of the "Ground Water Quality Rule" (IDAPA 58.01.11).

## 9.2 Administrative

Requirements for administration of the permit are defined as follows.

### 9.2.1 Permit Modification (IDAPA 58.01.17.700)

**01. Modification of Permits**. A permit modification may be initiated by the receipt of a request for modification from the permittee, or may be initiated by the Department if one (1) or more of the following causes for modification exist: (4-7-11)

**a.** Alterations. There are material and substantial alterations or additions to the permitted facility or activity which occurred after permit issuance which justify the application of permit conditions that are different or absent in the existing permit. (4-7-11)

**b.** New standards or regulations. The standards or regulations on which the permit was based have been changed by promulgation of amended standards or regulations or by judicial decision after the permit was issued. (4-7-11)

**c.** Compliance schedules. The Department determines good cause exists for modification of a compliance schedule or terms and conditions of a permit. (4-7-11)

**d.** Non-limited pollutants. When the level of discharge of any pollutant which is not limited in the permit exceeds the level which may cause an adverse impact to surface or ground waters. (4-7-11)

**e.** To correct technical mistakes, such as errors in calculation, or mistaken interpretations of law made in determining permit conditions. (4-7-11)

**f.** When a treatment technology proposed, installed, and properly operated and maintained by the permittee fails to achieve the requirements of the permit. (4-7-11)

### 9.2.2 Permit Transferable (IDAPA 58.01.17.800)

**01. General**. A permit may be transferred only upon approval of the Department. No transfer is required for a corporate name change as long as the secretary of state can verify that a change in name alone has occurred. An attempted transfer is not effective for any purpose until approved in writing by the Department. (4-7-11)

### 9.2.3 Permit Revocation (IDAPA 58.01.17.920)

**01. Conditions for Revocation**. The Director may revoke a permit if the permittee violates any permit condition or these rules, or the Director becomes aware of any omission or misrepresentation of condition or information relied upon when issuing the permit. (4-7-11)

**02. Notice of Revocation**. Except in cases of emergency, the Director shall issue a written notice of intent to revoke to the permittee prior to final revocation. Revocation shall become final within thirty-five (35) days of receipt of the notice by the permittee, unless within that time the permittee requests an administrative hearing in writing. The hearing shall be conducted in accordance with IDAPA 58.01.23, Rules of Administrative Procedure before the Board of Environmental Quality." (5-3-03)

**03. Emergency Action**. If the Director finds the public health, safety or welfare requires emergency action, the Director shall incorporate findings in support of such action in a written notice of emergency revocation issued to the permittee. Emergency revocation shall be effective upon receipt by the permittee. Thereafter, if requested by the permittee in writing, the Director shall provide the permittee a revocation hearing and prior notice

thereof. Such hearings shall be conducted in accordance with IDAPA 58.01.23, "Rules of Administrative Procedure Before the Board of Environmental Quality." (3-15-02)

**04. Revocation and Closure**. A permittee shall perform the closure requirements in a permit, the closure requirements of these rules, and complete all closure plan activities notwithstanding the revocation of the permit. (4-7-11)

### 9.2.4 Violations (IDAPA 58.01.17.930)

Any person violating any provision of these rules or any permit or order issued thereunder shall be liable for a civil penalty not to exceed ten thousand dollars ($10,000) or one thousand dollars ($1,000) for each day of a continuing violation, whichever is greater. In addition, pursuant to Title 39, Chapter 1, Idaho Code, any willful or negligent violation may constitute a misdemeanor. (4-1-88)

### 9.2.5 Severability

The provisions of this permit are severable, and if a provision or its application is declared invalid or unenforceable for any reason, that declaration will not affect the validity or enforceability of the remaining provisions.

# 10. Other Applicable Laws

DEQ may refer enforcement of the following provisions to the state agency authorized to enforce that rule. The permittee shall comply with all applicable provisions identified in this section. Compliance with this permit does not relieve the permittee from applicable requirements in other federal, state, and local laws, statutes, and rules.

## 10.1 Owner Responsibilities for Well Use and Maintenance

### 10.1.1 Well Use

The well owner must not operate any well in a manner that causes waste or contamination of the ground water resource. Failure to operate, maintain, knowingly allow the construction of any well in a manner that violates these rules, or failure to repair or properly decommission (abandon) any well as herein required will subject the well owner to civil penalties as provided by statute. See IDAPA 37.03.09.036.01 and consult the Idaho Department of Water Resources (IDWR) for more information.

### 10.1.2 Well Maintenance

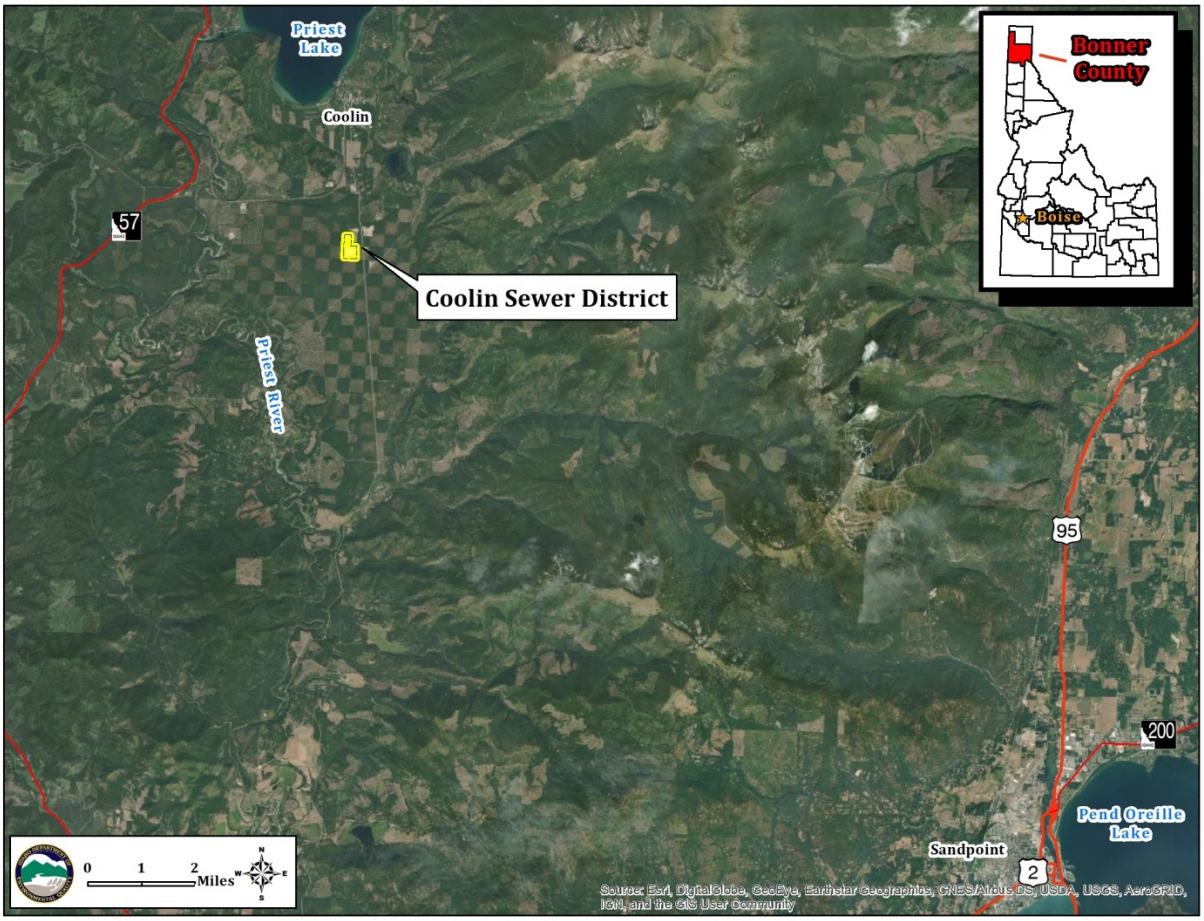
The well owner must maintain the well to prevent waste or contamination of ground waters through leaky casings, pipes, fittings, valves, pumps, seals, or through leakage around the outside of the casings, whether the leakage is above or below the land surface. Any person owning or controlling a noncompliant well must have the well repaired by a licensed well driller under a permit issued by the IDWR director according to the applicable rules. See IDAPA 37.03.09.036.02 and consult IDWR for more information.

### 10.1.3 Wells Posing a Threat to Human Health and Safety or Causing Contamination of the Ground Water Resource

The well owner must have any well shown to pose a threat to human health and safety or cause contamination of the ground water resource immediately repaired or decommissioned (abandoned) by a licensed well driller under a permit issued by the IDWR director according tothe applicable rules. See IDAPA 37.03.09.036.06 and consult IDWR for more information.

# 11. Site Maps

## 11.1 Regional Map



## 11.2 Facility Map

