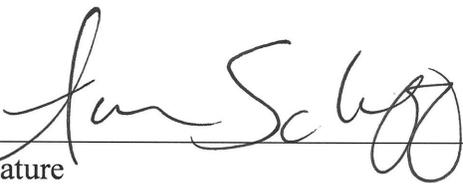


# Idaho Department of Environmental Quality Reuse Permit M-212-01

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Dry Creek Sewer Company LLC (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 August 7, 2023.

  
Signature

8/1/18  
Date

Aaron Scheff

Regional Administrator  
Boise Regional Office  
Idaho Department of Environmental Quality

Idaho Department of Environmental Quality  
Boise Regional Office  
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## Table of Contents

1. Common Acronyms/Abbreviations and Definitions .....	5
2. Facility Information .....	7
3. Compliance Schedule for Required Activities .....	8
4. Permit Limits and Conditions .....	11
4.1 Management Unit Descriptions .....	11
4.2 Hydraulic Loading Limits.....	11
4.3 Constituent Loading Limits .....	12
4.4 Management Unit Buffer Zones .....	12
4.5 Other Permit Limits and Conditions.....	12
5. Monitoring Requirements.....	14
5.1 Recycled Water and Supplemental Irrigation Water Sampling and Analyses .....	14
5.1.1 Constituent Monitoring .....	14
5.1.2 Management Unit and Other Flow Monitoring.....	15
5.2 Ground Water Monitoring .....	16
5.2.1 Ground Water Monitoring Point Descriptions .....	16
5.2.2 Ground Water Monitoring, Sampling, and Analyses .....	17
5.3 Soil Monitoring – <i>Not Required</i> .....	17
5.4 Crop Monitoring – <i>Not Required</i> .....	17
5.5 Lagoon Information – <i>No Lagoons</i> .....	17
6. Reporting Requirements .....	18
6.1 Annual Report Requirements .....	18
6.1.1 Due Date.....	18
6.1.2 Required Contents .....	18
6.1.3 Submittals.....	19
6.2 Emergency and Noncompliance Reporting .....	20
7. <i>Reserved</i> .....	21
8. Standard Permit Conditions.....	21
9. General Permit Conditions .....	23
9.1 Operations.....	23
9.1.1 Backflow Prevention .....	23
9.1.2 Restricted to Premises .....	23
9.1.3 Health Hazards, Nuisances, and Odors Prohibited.....	24
9.1.4 Solids Management .....	24
9.1.5 Temporary Cessation of Operations and Closure (IDAPA 58.01.17.801).....	25
9.1.6 Plan of Operation (IDAPA 58.01.17.300.05).....	25
9.1.7 Seepage Testing Requirements (IDAPA 58.01.16.493.02.c).....	25
9.1.8 Ground Water Quality Rule (IDAPA 58.01.11).....	26
9.2 Administrative .....	26
9.2.1 Permit Modification (IDAPA 58.01.17.700).....	26
9.2.2 Permit Transferable (IDAPA 58.01.17.800) .....	26
9.2.3 Permit Revocation (IDAPA 58.01.17.920) .....	26
9.2.4 Violations (IDAPA 58.01.17.930) .....	27
9.2.5 Severability.....	27

10. Other Applicable Laws .....	28
10.1 Owner Responsibilities for Well Use and Maintenance.....	28
10.1.1 Well Use.....	28
10.1.2 Well Maintenance.....	28
10.1.3 Wells Posing a Threat to Human Health and Safety or Causing Contamination of the Ground Water Resource .....	28
11. Site Maps .....	29
11.1 Regional Map.....	29
11.2 Facility Map.....	30

## 1. Common Acronyms/Abbreviations and Definitions

CA	compliance activity
COD	chemical oxygen demand
cwt	a unit of weight measurement equal to 100 pounds
DEQ	Idaho Department of Environmental Quality
director	DEQ director or designee unless otherwise specified
E <sub>i</sub>	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
IDAPA	Numbering designation for all administrative rules in Idaho promulgated according to the Idaho Administrative Procedure Act
IDWR	Idaho Department of Water Resources
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
material change	a change in a document required by this permit that would impact DEQ's ability to ensure compliance and protect human health and the environment
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
NPDES	National Pollutant Discharge Elimination System
NTU	nephelometric turbidity unit
N	nitrogen
ppm	parts per million
P	phosphorus

PO	plan of operation
PWS	Public Water Supply
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.
RIB	rapid infiltration basin
SU	prefix for soil monitoring unit reporting serial number
SW	prefix for supplemental irrigation water reporting serial number
UV	Ultraviolet
WW	prefix for wastewater reporting serial number
yr	year

## 2. Facility Information

Information Type	Information Specific to This Permit
Type(s) of recycled water	Class B Municipal Recycled Water
Method of treatment and reuse	Screening, flow equalization, activated sludge treatment, membrane filtration and ultraviolet disinfection. Membrane bioreactor (MBR) with slow rate and rapid infiltration reuse; estimated 40 MG a year maximum flow, 107 total acres proposed for land application.
Collection and treatment system classification	Wastewater collection system classification: Class I Wastewater treatment system classification: Class II
Facility location	Located northeast of Eagle, ID on the east side of State Highway 55. Proposed development will be located along Dry Creek Road and Brookside Lane
Facility mailing address	729 S. Bridgeway Place Eagle, Idaho 83616
Facility Responsible Official and Authorized Representative	Responsible Official: Mr. James Hunter, Manager of Dry Creek Sewer Company LLC; address same as above; (208) 577-5501  Authorized Representative: Mr. Steve Solecki, Engineering Manager; address same as above; (208) 577-5501  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	Depth to ground water is highly variable, ranging from 3 to 300 feet throughout the Dry Creek Ranch property; confined and unconfined aquifers are present throughout property; general flow direction follows the natural topography toward Dry Creek The PWS well for Dry Creek Ranch is located in the east central part of the property
Surface water	Dry Creek runs through the south-central part of the property; Spring Valley Creek is in the far west of the property. Presumed use protections for cold water aquatic life and secondary contact recreation apply.

### 3. Compliance Schedule for Required Activities

Compliance Activity (CA) Number and Completion Due Date	Compliance Activity Description
<p>CA-212-01                      No later than six (6) months after the reuse permit date of issuance.</p> <p>An updated Plan of Operation shall be submitted one (1) year following commencement of operation, reflecting actual operating procedures.</p>	<p><b>Plan of Operation (PO):</b> 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 applicable items in the most current Plan of Operation Checklist available.</p> <p>The PO shall include the following site management plans or the permittee may submit the site management plans individually:</p> <ol style="list-style-type: none"> <li>1. Startup plan  <i>The startup plan shall include a detailed description of the phased approach to treatment plant startup, along with the associated initial sampling program. This plan shall be submitted and approved prior to starting treatment operations at the plant.</i></li> <li>2. Buffer zone plan</li> <li>3. Emergency operating plan</li> <li>4. Irrigation management and scheduling plan</li> <li>5. Runoff management plan</li> <li>6. Waste solids management plan</li> <li>7. Rapid infiltration basin management plan  <i>The RIB management plans shall include operational details regarding dosing of the basins, methods used to achieve uniform coverage of the basins, troubleshooting issues with the basins, and potential future operational changes with expansion of the basins in the future.</i></li> <li>8. Ground water monitoring plan</li> </ol> <p>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.</p>

<b>Compliance Activity (CA) Number and Completion Due Date</b>	<b>Compliance Activity Description</b>
<p>CA-212-02                      No later than three (3) months after the reuse permit date of issuance</p>	<p><b>Quality Assurance Project Plan (QAPP):</b> 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.</p> <p>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:</p> <ol style="list-style-type: none"> <li>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</li> <li>2. Maps indicating the location of each monitoring and sampling point</li> <li>3. Qualification and training of personnel</li> <li>4. Names, addresses, and telephone numbers of the laboratories used by or proposed to be used by the permittee</li> <li>5. Example formats and tables that will be used by the permittee to summarize and present all data in the annual report</li> </ol> <p>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.</p> <p>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.</p>
<p>CA-212-03                      First report due September 16, 2019                      Due Annually thereafter on February 15</p>	<p><b>Hydrogeologic Monitoring Report:</b> The permittee shall prepare and submit an annual report analyzing all available ground water monitoring data, including trends on a seasonal and year-to-year basis. The first report shall establish background levels following the initial year of data collection. The annual reports shall be prepared by a qualified registered professional in the state of Idaho and shall summarize the results of groundwater monitoring required in Section 5.2 of this permit. The report should discuss any observed impacts of the rapid infiltration on local groundwater quantity and quality, including characterization of any mounding effects observed along with a geochemical analysis of background ground water conditions and recycled water, including the use of trilinear diagrams, stiff diagrams or other appropriate means of analysis. Comparisons should be made between observed conditions and conditions modeled in the technical report. All monitoring data collected as required in this permit shall be included with this report. Recommendations for mitigation activities, if indicated, shall be included in the report.</p>

<b>Compliance Activity (CA) Number and Completion Due Date</b>	<b>Compliance Activity Description</b>
CA-212-04 Due prior to land application on Field C	<p><b>Implementation Plan for Field C:</b> This plan shall discuss the manner in which this field will be prepared for land application and cropping operations. The plan shall include plans and specifications for the recycled water distribution system, and discuss proposed hydraulic and nutrient loading rates. The plans and specifications shall meet all application requirements specified in IDAPA 58.01.16 and shall be prepared under the supervision and bear the seal of an Idaho licensed professional engineer. Construction of the distribution system shall also be observed by or under the direction of an Idaho licensed professional engineer. The implementation plan shall be submitted to DEQ for review and approval. Land application shall not be allowed on Field C until this plan has been approved by DEQ.</p>
CA-212-05 Due as defined in the description to the right.	<p><b>Alternative Treatment Analysis:</b> The permittee shall begin preparations for obtaining an Idaho Pollutant Discharge Elimination System (IPDES) permit for discharging treated effluent to surface water, as an alternative to rapid infiltration. This permit will be available as an alternative treatment option if unforeseen negative effects of rapid infiltration (surface seeps, changes in geochemistry at drinking water wells, etc.) become evident. This analysis shall include the following components:</p> <ol style="list-style-type: none"> <li>1. Within two (2) years of the reuse permit date of issuance, a Surface Water Sampling Plan and associated QAPP shall be submitted detailing a plan for obtaining twelve (12) consecutive monthly water quality samples from Dry Creek, along with daily flow and temperature data, to establish background nutrient and contaminant levels, along with appropriate flow characterization. Sampling shall include, at a minimum: total phosphorus, total nitrogen, total suspended solids, pH, and at least daily flow, and temperature. After DEQ review and approval of this plan, permittee shall complete the sampling as defined in the plan.</li> <li>2. Within three (3) years of the reuse permit date of issuance, a Least Degrading Alternatives Analysis shall be prepared to meet Idaho's Antidegradation Policy. The analysis shall detail each treated effluent treatment/disposal alternative considered for the Dry Creek Ranch development and weigh the environmental and economic costs and benefits of each.</li> <li>3. The permittee shall arrange for a pre-permit meeting with the IPDES program no later than four (4) years after the reuse permit date of issuance. This meeting will serve as a starting point toward submitting a permit application for a discharge permit. The sampling data collected under item number (1) above, and the Least Degrading Alternatives Analysis shall be available prior to this meeting and shall be provided to the IPDES program at the meeting or at an appropriate time afterwards.</li> </ol>
CA-212-06 365 days before permit expiration	<p><b>Pre-application Workshop:</b> 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 workshop to discuss the compliance status of the facility and the content required for the reuse permit application package.</p>
CA-212-07 180 days before permit expiration	<p><b>Renewal Permit Application:</b> The permittee shall submit to DEQ a complete permit renewal application package that fulfills the requirements specified in CA-212-06 and identified at the pre-application workshop.</p>

## 4. Permit Limits and Conditions

### 4.1 Management Unit Descriptions

Serial Number	Description	Irrigation System Type and Irrigation Efficiency (E <sub>i</sub> )	Maximum Acres <sup>a</sup> Allowed
MU-212-01	Field A; NW corner	Pivot (E <sub>i</sub> = 0.85)	8
MU-212-02	Field B; S of Dry Creek	Pivot (E <sub>i</sub> = 0.85) Wheel Lines (E <sub>i</sub> = 0.85)	44
MU-212-03	Field C; S of Dry Creek Rd	Currently no system in place See CA-212-04 regarding irrigation of Field C	54
MU-212-04	Rapid Infiltration Basins	Distribution piping with nozzles	0.83
Total acreage			106.83

<sup>a</sup> 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) <sup>a</sup>
MU-212-01	Substantially at the IWR <sup>b</sup>	Not allowed
MU-212-02	Substantially at the IWR <sup>b</sup>	Not allowed
MU-212-03	See CA-212-04 for irrigation of Field C	Not allowed
MU-212-04	0.5 feet per day limit; permittee shall follow rotational dosing schedule as outlined in the PO	0.5 feet per day; permittee shall follow rotational dosing schedule as outlined in the PO

<sup>a</sup> Record daily, as necessary, abnormal conditions as a result of nongrowing season application including ponding, excessive ice buildup, or runoff from the permitted site.

<sup>b</sup> 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)	Phosphorus (lb/acre)
MU-212-01, MU-212-02, and MU-212-03	150% of typical crop uptake <sup>a</sup>	100% of typical crop uptake <sup>a</sup>
MU-212-04	No mass loading limit, but concentration limited to 10 mg/L per Section 4.5 of this permit	No limit

<sup>a</sup> Typical crop uptake may be calculated based on values from the appropriate tables found in Chapter 6 of the USDA Agricultural Waste Management Field Handbook or as approved in the Plan of Operation.

### 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-212-01, MU-212-02, MU-212-03, and MU-212-04	100	100	100	100	No buffer required	No buffer required

### 4.5 Other Permit Limits and Conditions

Category	Permit Limits and Conditions
Growing season	April 1 through October 31 (214 days)
Nongrowing season	November 1 through March 31 (151 days)
Reporting year for annual loading rates	November 1 through October 31
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.

Category	Permit Limits and Conditions
Disinfection limits in recycled water	<p>Class B: The median number of total coliform organisms does not exceed 2.2 total coliform organisms/100 mL, as determined from the bacteriological results of the last seven days for which analyses have been completed. No sample shall exceed 23 total coliform organisms/100 mL in any confirmed sample.</p> <p>Permittee shall be required to maintain a UV dose of at least 80 mJ/cm<sup>2</sup> at all times in order to meet these disinfection limits. This dose shall be evidenced by UV transmittance and intensity data monitored as part of routine operations. See Section 5.1.1 for monitoring requirements.</p>
Crop or vegetation allowed	No restrictions
Grazing	Prior to any grazing on reuse application sites, the permittee shall submit a grazing management plan and receive written approval from DEQ.
Posting	Signs shall read "Caution: Recycled Water—Do Not Drink," or equivalent signage both in English and Spanish. Signs to be posted every 500 feet and at each corner of the outer perimeter of the irrigated site. Signs are required where MU border areas are accessible to the public.
Fencing	<p>MU-212-01, MU-212-02, and MU-212-03: No fencing required</p> <p>MU-212-04: Rapid infiltration basins must be fully fenced to dissuade public access</p>
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 permit, including administrative extensions, plus 2 years.
Turbidity	The daily arithmetic mean of all measurements of turbidity shall not exceed zero point two (0.2) NTU and turbidity shall not exceed zero point five (0.5) NTU at any time. This turbidity standard shall be met prior to disinfection.
Nitrogen	Total nitrogen at the point of compliance shall not exceed ten (10) mg/L when discharging to the RI Basins, based on a monthly arithmetic mean as determined from weekly composite sampling.

## 5. Monitoring Requirements

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

#### 5.1.1 Constituent Monitoring<sup>a, b</sup>

Monitoring Point Serial Number and Location	Sample Description	Sample Type and Frequency	Constituents (mg/L unless otherwise specified)
WW-212-01 Filtered effluent prior to disinfection	Filtered effluent prior to disinfection	Continuous monitoring with recorded value every 15 minutes	Turbidity, NTU
WW-212-02 Filtered effluent during disinfection	Filtered effluent during disinfection	Continuous monitoring with recorded value every 15 minutes	UV Transmittance, % UV Intensity, mW/cm <sup>2</sup>
WW-212-03 Recycled water after disinfection	Recycled water to MU-212-01, MU-212-02, MU-212-03 and MU-212-04	Daily grab sample	Total coliform (organisms/100mL)
WW-212-04 Recycled water after disinfection	Recycled water to MU-212-01, MU-212-02, MU-212-03 and MU-212-04	Weekly composite sample	Total Kjeldahl nitrogen, as N Nitrite + Nitrate-Nitrogen, as N Total Phosphorus, as P BOD <sub>5</sub>
WW-212-05 Recycled water after disinfection	Recycled water to MU-212-01, MU-212-02, MU-212-03 and MU-212-04	Grab sample three times per year in January, April and October	Total Dissolved Solids Volatile Dissolved Solids Chloride Sulfate Sodium Potassium Calcium Magnesium Alkalinity as CaCO <sub>3</sub>

<sup>a</sup> Startup monitoring will be conducted according to the approved monitoring schedule in the startup plan required by compliance activity CA-212-01

<sup>b</sup> Monitoring is required only during periods when recycled water is being applied to the management units

### 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
FM-212-01 Effluent Flow Meter (Flow to MU-212-01, MU-212-02, MU-212-03 & MU-212-04)	Recycled water flow	Daily meter reading Monthly compilation of data <i>Data broken out by MU and Rapid Infiltration Basin</i>	Volume (MG/month; MG/year or growing season) Application depth (inches/month; inches/year or growing season) <i>For each MU</i> Application depth (inches/day; inches/year) <i>For each RIB</i>
FM-212-02 (Flow to MU-212-03)	Recycled and supplemental irrigation water flow	Weekly meter reading when applying to MU-212-03 Monthly compilation of data	Volume (MG/month; MG/year or growing season) Application depth (inches/month; inches/year or growing season)
FM-212-03 (Flow to MU-212-02)	Recycled and supplemental irrigation water flow	Weekly meter reading when applying to MU-212-02 Monthly compilation of data	Volume (MG/month; MG/year or growing season) Application depth (inches/month; inches/year or growing season)
FM-212-04 (Flow to MU-212-01)	Recycled and supplemental irrigation water flow	Weekly meter reading when applying to MU-212-01 Monthly compilation of data	Volume (MG/month; MG/year or growing season) Application depth (inches/month; inches/year or growing season)

## 5.2 Ground Water Monitoring

### 5.2.1 Ground Water Monitoring Point Descriptions

Monitoring Point Serial Number	Common Designation	Well Type	Gradient Location
GW-212-01	B-4	Monitoring well	Upgradient
GW-212-02	B-6	Monitoring well	Downgradient
GW-212-03	B-10	Monitoring well	Downgradient
GW-212-04	B-11	Monitoring well	Downgradient
GW-212-05	B-11s	Monitoring well	Downgradient
GW-212-06	B-13a	Monitoring well	Downgradient
GW-212-07	B-13b	Monitoring well	Downgradient
GW-212-08	B-14	Monitoring well	Sidegradient
GW-212-09	B-15	Monitoring well	Sidegradient

### 5.2.2 Ground Water Monitoring, Sampling, and Analyses

Monitoring Point Serial Number	Sampling Point Description	Sample Type and Frequency	Constituents (mg/L unless otherwise specified)
GW-212-01, GW-212-03 through GW-212-09	Monitoring wells	Unfiltered grab sample; -Monthly for 12 months starting immediately -Following initial 12 months, until 50% of Phase II flows (~300 homes) are reached: three times per year (January, April, October) <i>As outlined in the Groundwater Monitoring Plan</i>	pH (Standard Units) Specific conductance/electrical conductivity (µmhos/cm) Temperature (°C) Nitrate-Nitrogen, as N Total Dissolved Solids Dissolved Iron (filtered) Dissolved Manganese (filtered) Calcium Magnesium Sodium Potassium Alkalinity as CaCO <sub>3</sub> , Chloride Sulfate
GW-212-02	Monitoring well	Unfiltered grab sample; July & October 2018, January & April 2019 <i>As outlined in the Groundwater Monitoring Plan</i>	pH (Standard Units) Specific conductance/electrical conductivity (µmhos/cm) Temperature (°C) Nitrate-Nitrogen, as N Total Dissolved Solids Dissolved Iron (filtered) Dissolved Manganese (filtered) Calcium Magnesium Sodium Potassium Alkalinity as CaCO <sub>3</sub> , Chloride Sulfate
GW-212-01 through GW-212-09	Monitoring wells	Monthly water level measurements; Continuous recording of levels in wells GW-212-01, GW-212-06 and GW-212-07 with a transducer <i>As outlined in the Groundwater Monitoring Plan</i>	Water table elevation (feet) Water table depth (feet)

### 5.3 Soil Monitoring – Not Required

### 5.4 Crop Monitoring – Not Required

### 5.5 Lagoon Information – No Lagoons

## 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. A brief interpretive discussion of all required monitoring data. The discussion shall address data quality objectives, validation, and verification; permit compliance; and reuse facility environmental impacts. The reporting year for this permit is specified in section 4.5.
2. Results of the required monitoring as described in section 5 of this permit. 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. The report shall present all monitoring data in organized data summary tables to expedite review.
3. Status of all work described in section 3 of this permit.
4. Results of all backflow testing, repairs, and replacements required by section 9.1.1 of this permit.
5. Discussion of major maintenance activities such as major equipment replacement, lagoon liner maintenance, and wastewater treatment and reuse facility maintenance.
6. 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.
7. Submittal of the calculations and observations for MUs specified in the following table.
8. Laboratory analytical reports 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 parameters in the following table:

Monitoring Point Serial Number	Parameter (Calculate separately for each MU)	Units
MU-212-01 MU-212-02 MU-212-03	Recycled water loading rate	MG/month Inches/month
	Supplemental irrigation water loading rate	Pump run time hours/month MG/month Inches/month
	IWR for each crop grown	Inches/month Inches/growing season
	Area irrigated	Acres
	Recycled water nitrogen and phosphorus loading rates	lb/acre/yr
	Fertilizer nitrogen and phosphorus application rates, reported as elemental N and P	lb/acre/yr
	Crop nutrient uptake, reported as elemental N and P	lb/acre/yr
MU-212-04	Recycled water loading rate	MG/month/RIB Inches/day/RIB Inches/month/RIB Inches/yr/RIB
	Recycled water nitrogen, phosphorus and BOD <sub>5</sub> loading rates	lb/yr
Other Reporting Requirements: <ul style="list-style-type: none"> <li>• Declining balance report of Equivalent Dwelling Units available at current capacity</li> <li>• Report all periods of noncompliance with measured turbidity and UV dosing</li> </ul>		

**6.1.3 Submittals**

All applications, annual reports, or 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  
Boise Regional Office  
1445 N. Orchard Street  
Boise, ID 83706

The annual report 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 Quality Assurance Project Plan required by permit M-212-01, 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) 373-0550 or (888) 800-3480.

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

See 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 the discharge 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 of the United States to the Idaho DEQ Idaho Pollutant Discharge Elimination System (IPDES) program may also be required. Contact information for IPDES is provided below:

IPDES Contact Information:

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:  
  - 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 EPA National Pollutant Discharge Elimination System (NPDES) program. An 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 applying biosolids 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**

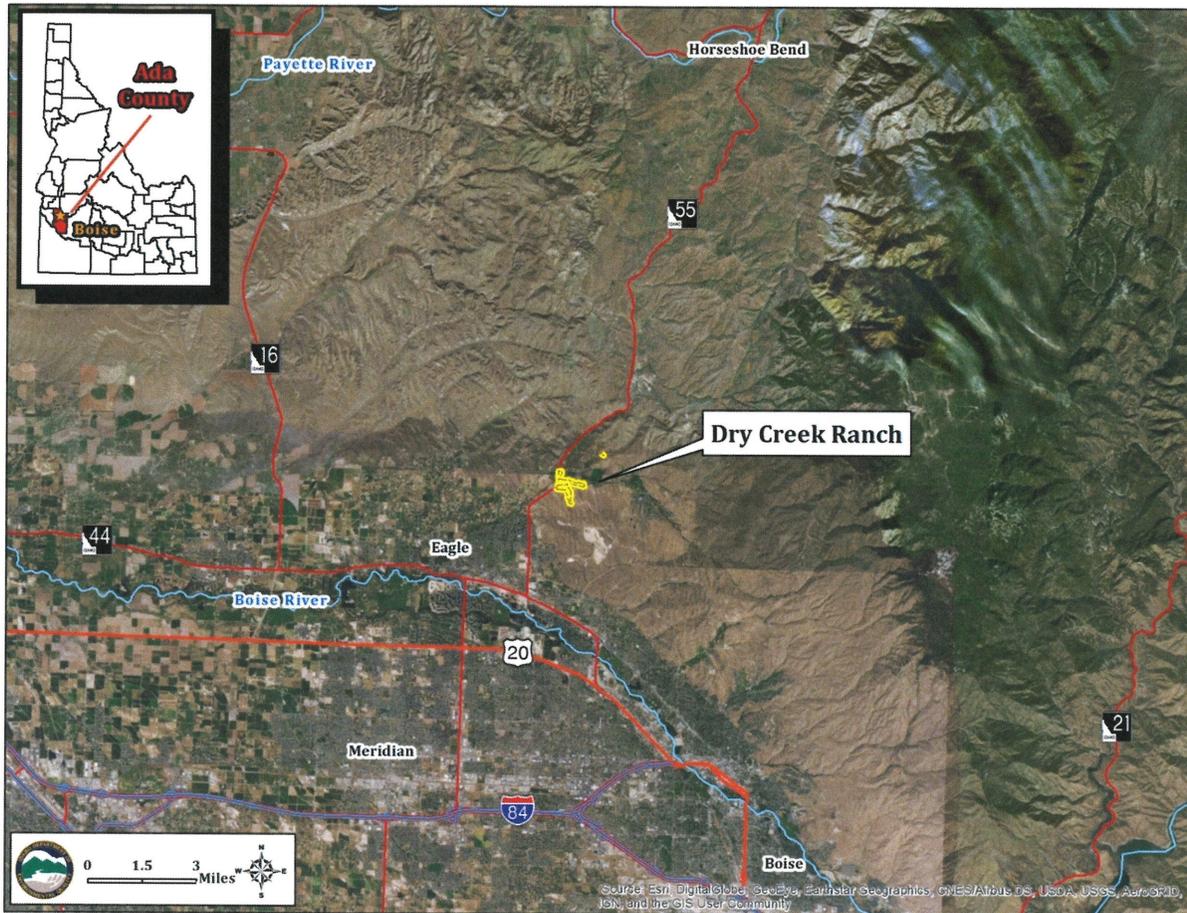
The well owner must maintain the well to prevent waste or contamination of ground waters through leaky casings, pipes, fittings, valves, pumps, seals, or through leakage around the outside of the casings, whether the leakage is above or below the land surface. Any person owning or controlling a noncompliant 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 to the 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

