

Idaho Department of Environmental Quality Reuse Permit M-174-05

Hidden Springs 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 January 30, 2030.



Signature



Date

Aaron Scheff

Regional Administrator
Boise Regional Office
Idaho Department of Environmental Quality

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Boise Regional Office
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1. Common Acronyms/Abbreviations and Definitions

amsl	above mean sea level
BOD ₅	5 day biochemical oxygen demand
CA	compliance activity
COD	chemical oxygen demand
crop uptake	those constituents assimilated by the crop from the soil, and those from applied fertilizer, biosolids and other soil amendments, recycled water, irrigation water, and other sources. Crop uptake excludes those constituents assimilated from the atmosphere, such as gaseous nitrogen fixed by legumes. Crop uptake plus atmospheric assimilated constituents equals crop content.
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 _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
IDAPA	Numbering designation for all administrative rules in Idaho promulgated according to the Idaho Administrative Procedure 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.
Lat	latitude
lb	pound
LG	prefix for lagoon reporting serial number
Long	longitude
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
NGS	nongrowing season
NPDES	National Pollutant Discharge Elimination System
NTU	nephelometric turbidity unit
N	nitrogen
ppm	parts per million
P	phosphorus
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
TDS	Total Dissolved Solids
TSS	Total Suspended Solids
WW	prefix for wastewater reporting serial number
yr	year

2. Facility Information

Information Type	Information Specific to This Permit
Type of recycled water	Class B Municipal Water
Method of treatment and reuse	Lagoon treatment with 3 aerobic and 2 storage cells, followed by sand filtration with optional coagulation, chlorine disinfection and slow rate land application.
Collection and treatment system classification	Wastewater collection system classification: Class I Wastewater treatment system classification: Class III Land Application/Reuse
Facility location	Legal Location: Township 4N, Range 2E, Sections 4, 5, 6 Township 5N, Range 2E, Sections 28, 29, 31, 32, 33 Lat/Long (Treatment Plant Building): 43.715502°N 116.261454°W <i>Accessed via gravel drive off of Seamans Gulch Road</i>
Facility mailing address	5876 West Hidden Springs Drive Boise, Idaho 83714
Facility responsible official and authorized representative	Responsible Official: Hidden Springs Town Council President Authorized Representative: Hidden Springs Town Manager Email (for both): HSTA@hiddensprings.com Phone (for both): (208) 229-2326 Notify DEQ within 30 days if a change in personnel occurs for any of the facility contacts.
Ground water	First ground water appears 1 to 10 feet below the ground surface and flows to the north/northwest A deeper regional aquifer is found at a depth between 100 and 300 feet below the ground surface.
Surface water	Dry Creek, an intermittent stream, flows to the north/northwest through the Hidden Springs Community. 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
CA-174-01 Six (6) months after permit issuance	<p>Plan of Operation (PO): The permittee shall submit to DEQ for review and approval an updated 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 Operations Checklist available.</p> <p>The PO shall include up to date versions of the following site management plans or the permittee may submit the site management plans individually:</p> <ol style="list-style-type: none">1. Buffer zone plan2. Cropping plan3. Emergency operating plan4. Irrigation management and scheduling plan5. Runoff management plan6. Flow measurement device verification/calibration7. Plan for Permit Compliance Update <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>

Compliance Activity (CA) Number and Completion Due Date	Compliance Activity Description
CA-174-02 Six (6) months after permit issuance	<p>Quality Assurance Project Plan (QAPP): The permittee shall prepare and implement an updated 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.</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"> 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 2. Maps indicating the location of each monitoring and sampling point 3. Qualification and training of personnel 4. Names, addresses, and telephone numbers of the laboratories used by or proposed to be used by the permittee 5. Example formats and tables that will be used by the permittee to summarize and present all data in the annual report <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>

Compliance Activity (CA) Number and Completion Due Date	Compliance Activity Description												
CA-174-03 As specified	<p>Seepage Testing: The following table shows the date by which the permittee shall complete seepage testing on the specified lagoons:</p> <table border="1" data-bbox="444 464 1333 703"> <thead> <tr> <th>Lagoon:</th> <th>Seepage Test Due Date:</th> </tr> </thead> <tbody> <tr> <td>Cell 1</td> <td>June/2020</td> </tr> <tr> <td>Cell 2</td> <td>June/2020</td> </tr> <tr> <td>Cell 3</td> <td>September/2029</td> </tr> <tr> <td>Cell 1A</td> <td>June/2020</td> </tr> <tr> <td>Cell 3A</td> <td>September/2022</td> </tr> </tbody> </table> <p>Submit to DEQ for review and approval a proposed schedule and procedure for performing the required seepage tests at least 45 days before to the planned seepage test. The seepage test procedures shall be sealed by the Idaho licensed professional engineer or professional geologist in responsible charge for the test.</p> <p>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.</p> <p>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.</p>	Lagoon:	Seepage Test Due Date:	Cell 1	June/2020	Cell 2	June/2020	Cell 3	September/2029	Cell 1A	June/2020	Cell 3A	September/2022
Lagoon:	Seepage Test Due Date:												
Cell 1	June/2020												
Cell 2	June/2020												
Cell 3	September/2029												
Cell 1A	June/2020												
Cell 3A	September/2022												
CA-174-04 Eighteen (18) months before permit expiration	<p>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.</p>												
CA-174-05 Twelve (12) months before permit expiration	<p>Permit Renewal Application: The permittee shall submit to DEQ a complete permit renewal application package that fulfills the requirements specified in CA-174-04 and identified at the pre-application conference.</p>												

4. Permit Limits and Conditions

4.1 Management Unit Descriptions

Serial Number	Description ^a	Irrigation System Type and Irrigation Efficiency (E _i)	Maximum Acres ^b Allowed
MU-17401	Community Farm 1	Sprinkler System (E _i = 0.80) Drip or Spray Irrigation for Vegetable Gardens (E _i = 0.90)	3.62
	Community Farm 2	Sprinkler System (E _i = 0.80)	7.90
	Community Farm 3	Sprinkler System (E _i = 0.80)	10.29
	Community Farm 4	Sprinkler System (E _i = 0.80)	11.51
	<i>Total Farming Area:</i>		
MU-17406	Natural Open Space	Solid Set (E _i = 0.70)	42.72 ^c
MU-17407	Landscape Irrigation	Sprinkler System (E _i = 0.70)	3.60
MU-17408	Orchard	Sprinkler System (E _i = 0.80)	9.54
	Public Access Areas	Sprinkler System (E _i = 0.80)	29.81
	School	Sprinkler System (E _i = 0.80)	7.37
	<i>Total Public Access Area:</i>		
Total Acreage:			126.36

- a. Locations of specific individual sub-areas of the MUs are shown on the maps in Section 11.2
- b. 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.
- c. Some sections of Natural Open Space (MU-17406) contain delineated wetlands that are not permitted for recycled water application. The maximum allowed acreage listed above is effectively reduced by the acreage of these wetlands and their associated buffers.

4.2 Hydraulic Loading Limits

Serial Number	Growing Season Hydraulic Loading	Nongrowing Season Maximum Hydraulic Loading (inches) ^{a, b}
MU-17401	Where forage crops ^c are grown: Substantially at the irrigation water requirement (IWR) ^d Where other crops are grown: Not to exceed the IWR ^d	5.40
MU-17406	Not to exceed the IWR ^d	Not allowed
MU-17407 MU-17408	Substantially at the IWR ^d	Not allowed

- Record daily, as necessary, abnormal conditions as a result of NGS application including ponding, excessive ice buildup, or runoff from the permitted site.
- All applicable constituent loading limits (e.g.: nitrogen) remain in place during the NGS
- Examples of forage crops include alfalfa, grass hay, etc.
- For compliance purposes, the source of precipitation deficit used to calculate the IWR shall be specified in the PO.

4.3 Constituent Loading Limits

Serial Number	Constituent Loading from All Sources
	Nitrogen (lb/acre/year)
MU-17401	150% of typical crop uptake or agronomic rates ^{a, b, c}
MU-17406	50
MU-17407 MU-17408	$220 + 110 \times (\text{fraction of times clippings are removed from the site})$

- Typical crop uptake is the median constituent crop uptake from the three most recent years the crop has been grown. For crops having fewer than three years of on-site crop uptake data, other crop yield data or nutrient content values may only be used if DEQ provides written approval before use.
- For Community Farm 1 typical crop uptake for field crops shall be calculated from expected yields and crop nutrient content values. Nitrogen loading to plots growing fruits and vegetables shall be limited to agronomic rates recommended by published fertilizer guides or equivalent reference.
- If field crops are grown and harvested from Community Farms 2, 3 and 4, actual yields shall be measured and limits calculated with measured yields and nutrient content from standard tables.

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 ^a	Irrigation Ditches and Canals	Areas Accessible to the Public
MU-17401 MU-17406 MU-17407 MU-17408	100	100	Sprinkler Irrigation: 100 ^b Drip Irrigation: 50	50	50	0

- a. No Class B recycled water may enter surface waters unless an IPDES discharge permit authorizing the discharge is in place. A buffer zone may be necessary for a Class B system utilizing sprinkler application near surface waters.
- b. At some existing reuse sites, it has been documented that inhabited dwellings are located within 100 feet of areas irrigated with recycled water; these areas may continue to be irrigated with recycled water, provided that spray or drift to dwellings does not occur, as has been approved in past permits. Concerns about these reduced setbacks were addressed by Compliance Activity CA-174-06 in the previous permit M-174-04.

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	January 1 through December 31
Operator certification and endorsement	<p>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.</p> <p>Operation of the wastewater treatment system shall be monitored on a 24-hour basis for alarm conditions, including notification of the qualified operating personnel under alarm conditions.</p>
Crop or vegetation allowed	<p>Turfgrass and other landscaping are allowed to be grown at MU-17407 and MU-17408. The Orchard subunit of MU-17408 contains fruit trees.</p> <p>Forage and food crops are allowed to be grown at MU-17401.</p> <p>Only native vegetation is allowed to be grown at MU-17406.</p> <p>Other crops listed in approved PO or cropping plans would also be allowed to be grown at individual MUs.</p>
Grazing	Prior to any grazing, the permittee shall submit a grazing management plan and receive written approval from DEQ.
Posting	<p>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 irrigated sites. Signs are required where MU border areas are accessible to the public.</p> <p>Signs around the Community Farms should alert the public to wash produce before eating.</p> <p>All irrigation risers, faucets, valve boxes and vaults for the reclaimed wastewater system shall be clearly identified with the warning “Non-Potable Water” or equivalent.</p> <p>Where access to reclaimed water is possible (e.g.: hose bibbs) provide locks or access restriction to prevent unauthorized use.</p>
Fencing	No fencing required.

Category	Permit Limits and Conditions
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.
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.
Flow measurement	Flow measurement devices used to directly or indirectly measure wastewater and supplemental irrigation water flows applied to each 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 PO.
<i>Class B Requirements</i>	
Disinfection limits in recycled water	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.
Turbidity limits	The daily arithmetic mean of all measurements of turbidity shall not exceed five (5) NTU, and turbidity shall not exceed ten (10) NTU at any time. The turbidity limit shall be met prior to disinfection.
Disinfection	The total chlorine residual measured in effluent to the distribution system shall be 1 mg/L or greater after 30 minutes of contact time, based on peak flow conditions.
<i>Treatment System Conditions</i>	
Maximum influent flow rate	Not to exceed 274,500 gallons per day
Treatment cell effluent limits, monthly average	BOD ₅ : 45 mg/L monthly average maximum TSS: 45 mg/L monthly average maximum
Minimum depth in filtered water storage tank	3 feet
Minimum activation time for effluent reject system	When the arithmetic mean of continuous turbidity measurements is above the instantaneous limit for more than five minutes, filtered wastewater shall be automatically diverted to the lagoon system until such time as the arithmetic mean of the continuous turbidity measurement is below the instantaneous limit.

Category	Permit Limits and Conditions
<i>Irrigation System Conditions</i>	
Irrigation scheduling	Application of recycled water in MU-17407 and MU-17408 shall occur during periods of non-use by the public, as specified by the PO. Application of recycled water to MU-17401 and MU-17406 do not require irrigation scheduling.

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-17401 Influent to LG-17403	Effluent from treatment cells to LG-17403	Grab/monthly (during periods of use)	TSS BOD ₅
WW-17402 Filtration system discharge	Sand filter filtrate prior to chlorination	Continuously (during periods of use)	Turbidity (NTU)
WW-17403 Discharge from filtered water storage tank	Recycled water to irrigation system, after filtered water storage	Grab/daily (during periods of use)	Total chlorine residual Total coliform (organisms/100mL)
		Grab/Monthly (during periods of use)	Total nitrogen Total phosphorus TDS

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-17401 Parshall flume upstream of raw sewage pump station	Wastewater influent volume	- Daily reading - Monthly and annual compilation of data	Volume (gallons/day) Volume (MG/month) Volume (MG/year)
FM-17402 Irrigation control system	Recycled water and supplemental irrigation water volume	- Daily calculation - Monthly and annual compilation of data	Volume (gallons/day) Volume (MG/month) Volume (MG/year)
FM-17403 Flow meter between filters and chlorine contact tank	Recycled water volume	- Daily reading - Monthly and annual compilation of data	Volume (gallons/day) Volume (MG/month) Volume (MG/year)
FM-17404 Supplemental irrigation water flow meter	Supplemental irrigation water volume	- Daily reading - Monthly and annual compilation of data	Volume (gallons/day) Volume (MG/month) Volume (MG/year)

Management Unit or Flow Measurement Serial Number and Location	Sample Description	Sample Type and Frequency	Parameters, each MU or FM
FM-17406 MU-17401 (Community Farm 1)	Recycled water and supplemental irrigation water volume	- Daily reading - Monthly and annual compilation of data	Volume (gallons/day) Volume (MG/month) Volume (MG/year)
FM-17407 MU-17401 (Community Farm 2: Corner Field)	Recycled water and supplemental irrigation water volume	- Daily reading - Monthly and annual compilation of data	Volume (gallons/day) Volume (MG/month) Volume (MG/year)
FM-17408 MU-17401 (Community Farm 2: Homestead Field)	Recycled water and supplemental irrigation water volume	- Daily reading - Monthly and annual compilation of data	Volume (gallons/day) Volume (MG/month) Volume (MG/year)
FM-17409 MU-17401 (Community Farm 3)	Recycled water and supplemental irrigation water volume	- Daily reading - Monthly and annual compilation of data	Volume (gallons/day) Volume (MG/month) Volume (MG/year)
FM-17410 MU-17408 (School)	Recycled water and supplemental irrigation water volume	- Daily reading - Monthly and annual compilation of data	Volume (gallons/day) Volume (MG/month) Volume (MG/year)
FM-17411 MU-17408 (Orchard)	Recycled water and supplemental irrigation water volume	- Daily reading - Monthly and annual compilation of data	Volume (gallons/day) Volume (MG/month) Volume (MG/year)
FM-17412 MU-17401 (Community Farm 4)	Recycled water and supplemental irrigation water volume	- Daily reading - Monthly and annual compilation of data	Volume (gallons/day) Volume (MG/month) Volume (MG/year)

5.2 Ground Water Monitoring

5.2.1 Ground Water Monitoring Point Descriptions

Monitoring Point Serial Number	Common Designation	Well Type	Gradient Location
GW-17402	Central Well	Monitoring well	Cross Gradient
GW-17403	Northwest Well	Monitoring well	Downgradient
GW-17404	MW 3 (Southeast Well)	Monitoring well	Upgradient

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-17402 GW-17403 GW-17404	Monitoring wells	Unfiltered grab sample/twice annually (unless otherwise specified): April and October	Water table elevation (feet amsl) Water table depth (feet) Nitrate-nitrogen, as N Total Phosphorus, as P TDS Specific conductance/electrical conductivity (µmhos/cm) Temperature (°C) pH (Standard Units)

5.3 Soil Monitoring

5.3.1 Soil Monitoring Unit Descriptions

Monitoring Point Serial Number	Description	Associated Management Unit
SU-17401	Orchard	MU-17408
SU-17402	Community Farm 1	MU-17401
SU-17403	Landscaped Irrigation Area	MU-17406
SU-07404	School	MU-17408
SU-17405	Public Access	MU-17408
SU-17406	Community Farm 2	MU-17401
SU-17407	Community Farm 3	MU-17401
SU-17408	Community Farm 4	MU-17401

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-17401 SU-17402 SU-17403 SU-17404 SU-17405 SU-17406 SU-17407 SU-17408	Composite samples ^a	During the second, fifth and eighth years after permit issuance (2021, 2024, 2027); March and October	Electrical conductivity (μ mhos/cm in saturated paste extract) Nitrate, as N Ammonium, as N Plant available phosphorus pH (standard units)

- a. The number of sample locations 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 Crop Monitoring

5.4.1 Crop Harvest Monitoring

Associated Management Units	Sample Type	Sample Frequency	Parameters ^a
MU-17401	Harvested portion, each field crop	Each harvest when field crops are grown	Crop type Harvest date Sample collection date Harvested acreage (acres) As-harvested ('wet') yield in customary harvested units (tons, bushels, cwt, etc.) As-harvested (field) moisture content (%) ^b Dry yield (lb)

- a. Documentation of reported yields shall be provided for each harvest from each MU.
 b. The field moisture shall be monitored at the time the harvested crop is weighed.

5.4.2 Plant Tissue Monitoring – *Not Required*

5.5 Lagoon Information

Serial number	Description	Surface Area, acres	Maximum Operating Volume, MG	Liner Type
LG-17401	Cell 1; aerobic treatment lagoon	0.77	3.05	HDPE
LG-17402	Cell 2; aerobic treatment lagoon	0.63	2.32	HDPE
LG-17403	Cell 3; lower storage lagoon	2.76	19.6	HDPE
LG-17404	Cell 1A; aerobic treatment lagoon	0.76	3.05	HDPE
LG-17405	Cell 3A; upper storage lagoon	4.16	25.5	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 March 1 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 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. 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.
8. The calculations and results for the parameters in the following table:

Monitoring Point Serial Number	Parameter (Calculate for each MU)	Units
MU-17401 MU-17406 MU-17407 MU-17408	Recycled water loading rate	MG/month Inches/month
	Supplemental irrigation water loading rate	MG/month Inches/month
	Area irrigated or cultivated	Acres
	IWR for each crop grown	Inches/month Inches/growing season
	Expected turf grass IWR	Million gallons/month Inches/month
	Recycled water nitrogen, phosphorus, and TDS loading rates	lb/(acre·yr)
	Fertilizer nitrogen and phosphorus application rates, reported as elemental N and P	lb/(acre·yr)
	Turf grass nitrogen loading limit	lb/(acre·yr)
<p>Other reporting requirements:</p> <ol style="list-style-type: none"> 1. The annual report shall include documentation of the verification and/or calibration of all flow meters and pumps used directly or indirectly to measure the flow of wastewater into the treatment system and flow of recycled water out of the treatment system and to all the management units and subunits. Flow meters responsible for measuring supplemental irrigation water flow rates shall also be calibrated during these years. 2. If only a portion of an MU is used, a site plan shall be submitted showing the areas within the MU that were irrigated with recycled water during the year and identifying the type of irrigation equipment used in each area. 3. Three times during each application season (during April, June, and September) irrigation control settings for each control box shall be recorded, identifying the area associated with the irrigation control box. This data shall be included in the annual report. 4. Document the testing of all backflow prevention devices for all supplemental irrigation pumps directly connected to the recycled water distribution system(s). Report the testing dates and results of the test (pass or fail). If any test failed, report the date of repair or replacement of backflow prevention device, and if the repaired or replaced device is operating correctly. 		

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
Boise Regional Office
1445 N. Orchard St.
Boise, Idaho 83706

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 updated Quality Assurance Project Plan required by this permit 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 toll free (888) 800-3480.

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

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 of the State of Idaho 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:
 - 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 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

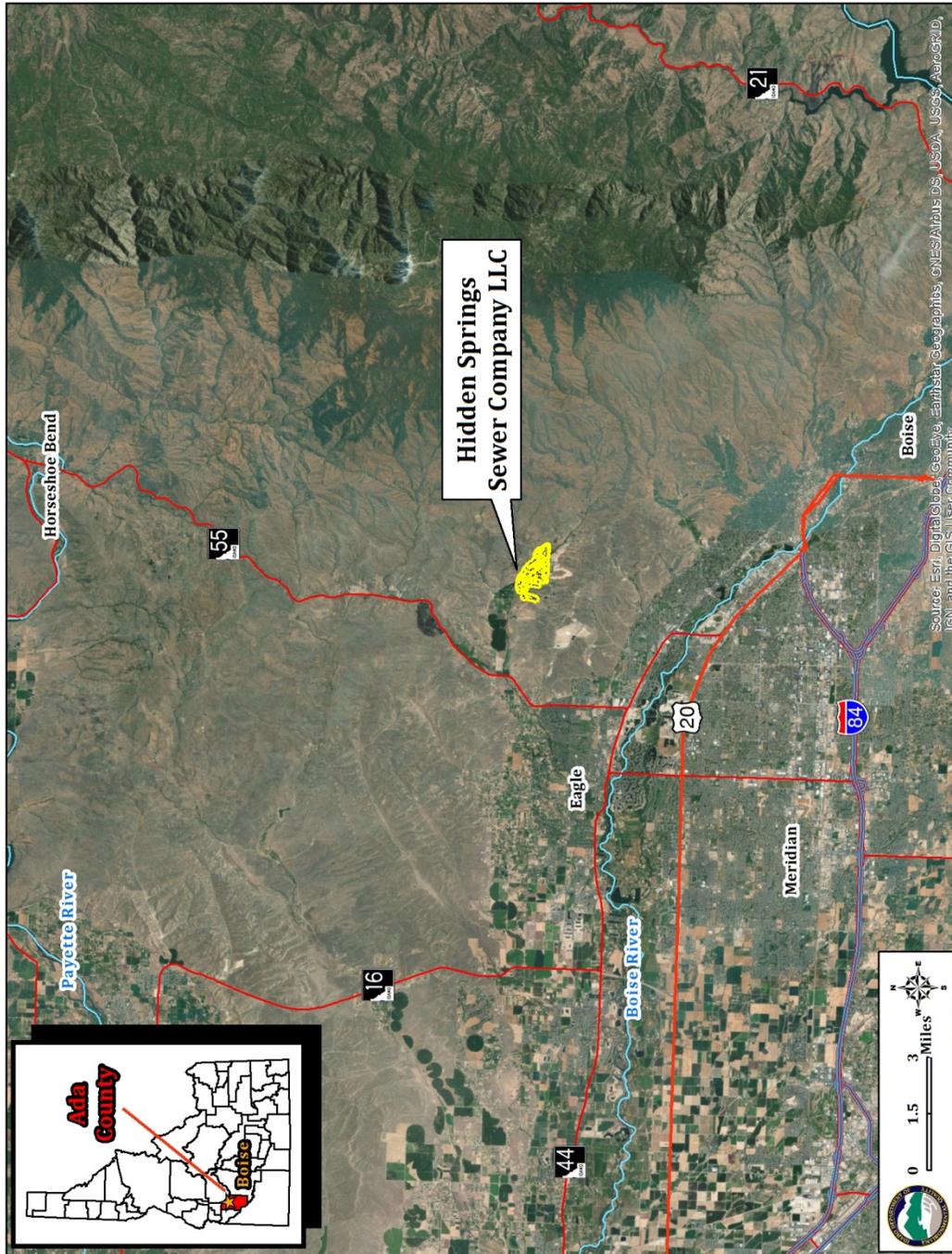
The well owner must maintain the well to prevent waste or contamination of ground waters through leaky casings, pipes, fittings, valves, pumps, seals, or through leakage around the outside of the casings, whether the leakage is above or below the land surface. Any person owning or controlling a noncompliant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

