Idaho Department of Environmental Quality
Reuse Permit
M-242-01

City of New Meadows (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 November 9, 2022

Signature

11/9/2017
Date

Aaron Scheff
Regional Administrator
Boise Regional Office
Idaho Department of Environmental Quality

Idaho Department of Environmental Quality
Boise Regional Office
1445 North Orchard
Boise, ID 83706
208-373-0550

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1. Common Acronyms/Abbreviations and Definitions

bgs	below ground surface
cwt	a unit of weight measurement equal to 100 pounds
DEQ	Idaho Department of Environmental Quality
DEQ Guidance	DEQ Guidance for Reclamation and Reuse of Municipal and Industrial Wastewater, latest revision
Director	Director of the Idaho Department of Environmental Quality or designee unless otherwise specified
EPA	Environmental Protection Agency
E_i	irrigation efficiency
FM	prefix for flow measurement/monitoring location, device, or method reporting serial number
GW	prefix for ground water reporting serial number
HUC	Hydrologic Unit Code
IDAPA	Idaho Administrative Procedures 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 (GS). The equation used to calculate the IWR is: $IWR = P_{def} / E_i$
lb	pound
LG	prefix for lagoon reporting serial number
µmhos/cm	micromhos per centimeter
MG	million gallons
MGD	million gallons per day
mg/kg	milligram per kilogram
mg/L	milligram per liter
mL	milliliter
msl	mean sea level
MU	prefix for management unit reporting environmental serial number and abbreviation for management unit
NPDES	National Pollutant Discharge Elimination System
NTU	nephelometric turbidity unit

P_{def}	precipitation deficit - is synonymous with the net irrigation water requirement of the crop and for the purposes of this permit can be found at the following website http://data.kimberly.uidaho.edu/ETIdaho/
PO	plan of operation
ppm	parts per million
QAPP	quality assurance project plan
Responsible Official	is the 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 is also responsible for providing 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
WRRF	water resource recovery facility
WW	prefix for wastewater reporting serial number
yr	year

2. Facility Information

Information Type	Information Specific to This Permit
Type of recycled water	Class C Municipal Recycled Water
Method of treatment and reuse	Primary screening, aerated lagoons with polishing pond, chlorine disinfection. Slow-rate land application
Collection and treatment system classification	Wastewater collection system classification: Class I Wastewater treatment system classification: Class I
Facility location	New Meadows, ID 83654 Adams County NW ¼, NW ¼, S24, T19N, R1E, and SW ¼, SW ¼, S13, T19N, R1E
Facility mailing address	PO Box 324 New Meadows, ID 83654 208-347-2171
Facility responsible official and authorized representative	Responsible Official: Anthony Koberstein, Mayor 208-347-1912 mayorkoberstein@gmail.com Authorized Representative: Doug Buys, Public Works Supervisor (208) 347-2171 publicworks@newmeadowsidaho.us Notify DEQ within 30 days if there is a change in personnel for any of the above facility contacts. A minor permit modification will be issued by DEQ to confirm the change.
Ground Water	Shallow alluvial aquifer: 15 ft-40 ft thick; groundwater flow toward the northwest; depth to seasonal high ground water is approximately 1.0 ft (season encountered is February - May). Deeper fractured basalt aquifer at 150 ft – 200 ft depth; of unknown thickness and flow direction. Public water supply well: City of New Meadows public water supply well (Well No. 3) located approximately 1,440 ft to the south of the reuse facilities.
Surface Water	Little Salmon River: Runs south to north, 150 ft to the west of the reuse facilities. (HUC 17060210, Unit S-7). Beneficial uses: Cold water aquatic life, salmonid spawning, primary contact recreation, domestic water source.

3. Compliance Schedule for Required Activities

Compliance Activity (CA) Number and Completion Due Date	Compliance Activity Description
CA-242-01 Six months after the date of issuance of the reuse permit.	**Plan of Operation (PO)**: The permittee shall submit for review and approval a Plan of Operation that reflects current operations and incorporates the requirements of this permit. The PO shall include the following operations and site management plans or the permittee may submit the site management plans individually: 1. Operation and Maintenance Manual (OMM). The OMM shall provide guidance, direction, and instructions on the operation and maintenance of the wastewater treatment and reuse facilities, including an Emergency Operations Plan for the facilities. 2. Crop management and irrigation management and scheduling plan (including a nutrient management plan): The crop management plan should discuss the types of crops to be grown on the MUs, the irrigation water requirements and fertilizer requirements for the selected crops, and general farming practices. A plan for the management of nutrients (from all sources, e.g., recycled water, biosolids, fertilizer) shall be included in the crop management plan to ensure that nutrient loading limits are not exceeded. An irrigation management and scheduling plan shall include irrigation scheduling, irrigation application rates, and discussions of irrigation pressures and pressure fluctuations. Irrigation efficiencies for the site irrigation systems shall be included. The irrigation management plan shall also include a discussion of managing irrigation application rates and duration to control runoff. 3. Runoff management plan that shall address details on preventing runoff from the MUs, including from storm events, except for those greater than the 25-year, 24-hour storm event. 4. Waste solids management plan that shall address monitoring of the accumulation of waste solids (sludge) in the lagoons (including monitoring frequency), and removal, treatment, and disposal of waste solids (sludge). The disposal of sludge must comply with all criteria in 40 CFR, Part 503. The PO shall comply with the applicable requirements stated in IDAPA 58.01.17.300.05 and shall address applicable items in the Plan of Operation Checklist in the DEQ Guidance. The PO shall be updated as needed to reflect current operations. The permittee shall notify DEQ of material changes to the PO and copies shall be kept on site and made available to DEQ upon request.

Compliance Activity (CA) Number and Completion Due Date	Compliance Activity Description
CA-242-02 Three months after the date of issuance of the reuse permit.	**Quality Assurance Project Plan (QAPP)**: The permittee shall prepare and implement a QAPP that incorporates all monitoring and reporting required by this permit. A copy of the QAPP along with written notice that the permittee has implemented the QAPP shall be provided to DEQ. The QAPP shall be designed to assist in planning for the collection, analysis, and reporting of all monitoring in support of this permit and in explaining data anomalies when they occur. At a minimum, the QAPP must include the following: 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. The format and content of the QAPP should adhere to the recommendations and references in the Quality Assurance and Data Processing sections of the DEQ Guidance. 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.

<table>
<tr><th>Compliance Activity (CA) Number and Completion Due Date</th><th>Compliance Activity Description</th></tr>
<tr><td>CA-242-03
As specified.</td><td>Seepage Testing: The following table shows the date by which the permittee shall complete seepage testing on the specified lagoons:
<table><tr><th>Lagoon Serial Number</th><th>Seepage Test Due Date</th></tr><tr><td>LG-24201</td><td>10/2021</td></tr><tr><td>LG-24202</td><td>10/2021</td></tr><tr><td>LG-24203</td><td>10/2021</td></tr></table>Submit to DEQ for review and approval a proposed schedule and procedure for performing the required seepage tests at least 45 days prior to the planned seepage test. Guidance for developing seepage test procedures are available at: http://www.deq.idaho.gov/water-quality/wastewater/lagoon-seepage-testing.aspx The seepage test procedures shall be sealed by the Idaho licensed professional engineer or professional geologist in responsible charge for the test.

Seepage tests shall be completed in accordance with 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.

For municipal lagoons, the leakage rate for lagoons constructed after April 15, 2007 shall be no more than zero point one hundred twenty-five (0.125) inches (1/8 inch) per day. The leakage rate for existing lagoons constructed prior to April 15, 2007 shall be no more than zero point twenty-five (0.25) inches (1/4 inch) per day. See IDAPA 58.01.16.493.03. Requirements for lagoons leaking above the allowable amount are outlined in IDAPA 58.01.16.493.04.</td></tr>
<tr><td>CA-242-04
12 months after the date of issuance of the reuse permit.</td><td>Hydrogeological Investigation: The permittee shall conduct a hydrogeological investigation to determine if the existing ground water monitoring wells should be deeper and if additional ground water monitoring wells (or piezometers) are needed to monitor ground water depths on the MUs to ascertain when ground water levels are deep enough to allow application of recycled water to the MUs (i.e., greater than 36 inches bgs) (see Section 4.2).</td></tr>
<tr><td>CA-242-05
Approval required prior to the application of biosolids to the MUs.</td><td>Biosolids Disposal Management Plan: Prior to land applying biosolids from lagoons LG-24201 and LG-24202 on MU-24201 and/or MU-24202, the permittee shall prepare a biosolids disposal management plan for submittal to DEQ for approval, as required by IDAPA 58.01.16.650. The plan shall address the requirements of 40 CFR Part 503, Standards for the Use and Disposal of Sewage Sludge.

For guidance on preparing a biosolids disposal management plan, the DEQ guidance document, Guidance for Land Application of Municipal Biosolids, is available at http://www.deq.idaho.gov/media/773827-biosolids-guidance-final-1211.pdf.</td></tr>
<tr><td>CA-242-06
12 months prior to reuse permit expiration date.</td><td>Pre-Application Workshop: 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.</td></tr>
</table>

Compliance Activity (CA) Number and Completion Due Date	Compliance Activity Description
CA-242-07 180 days prior to reuse permit expiration date.	**Renewal Permit Application:** The permittee shall submit to DEQ a complete permit renewal application package, which fulfills the requirements specified at the pre-application workshop identified in CA-242-06.

4. Permit Limits and Conditions

4.1 Management Unit Descriptions

Serial Number	Description	Irrigation System Type and Irrigation Efficiency	Maximum Acres[a] Allowed
MU-24201	Management Unit 1	Stationary wheel lateral (E_i = 0.75)	6.1
MU-24202	Management Unit 2	Stationary wheel lateral (E_i = 0.75)	9.1
		Total acreage	15.2

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

4.2 Hydraulic Loading Limits

Serial Number	Growing Season Hydraulic Loading	Nongrowing Season Maximum Hydraulic Loading
MU-24201 and MU-24202	Substantially at the irrigation water requirement (IWR)[a] Application of recycled water is only allowed when the ground water depth is greater than 36 inches below ground surface (bgs).	Not allowed

a. For compliance purposes, the source of P_{def} data used to calculate the IWR shall be specified in the PO.

4.3 Constituent Loading Limits

Serial Number	Constituent Loading (from all sources)	
	Nitrogen (pounds/acre)	Phosphorus (pounds/acre)
MU-24201 and MU-24202	150% of typical crop uptake[a]	100% of typical crop uptake[a]

a. Typical crop uptake is the median constituent crop uptake from the 3 most recent years the crop has been grown. For crops having less than 3 years of on-site crop uptake data, compliance with the loading limits shall be determined by comparing the current year constituent loading to the current year constituent crop uptake data.

4.4 Management Unit Buffer Zones

Serial Number	Buffer Distances (in feet) from Management Units					
	Public Water Supplies	Private Water Supplies	Inhabited Dwelling Property Lines	Permanent and Intermittent Surface Water	Irrigation Ditches and Canals	Areas Accessible to the Public
MU-24201 and MU-24202	1,000	500	300	100	50	50

4.5 Other Permit Limits and Conditions

Category	Permit Limits and Conditions
Growing season	May 1 through September 30 (153 days)
Nongrowing season	October 1 through April 30 (212 days)
Reporting year for annual loading rates	October 1 through September 30
Operator certification and endorsement	The wastewater treatment facility and reuse system shall be operated by personnel certified and licensed in the State of Idaho wastewater operator training program at the operator class level specified in IDAPA 58.01.16.203 and properly trained to operate and maintain the system.
Total coliform limit in recycled water	The median number of total coliform organisms does not exceed 23 total coliform organisms/100 mL, as determined from the bacteriological results of the last 5 days for which analyses have been completed. No sample shall exceed 230 total coliform organisms/100 mL in any confirmed sample.
Crop or vegetation allowed	The crop or vegetation grown on the management units shall be established in the Crop Management and Irrigation Management and Scheduling Plan in the PO (CA-242-01).
Grazing	Grazing is not allowed. Unless, prior to grazing, the permittee shall submit a grazing management plan and receive written approval from DEQ.

Category	Permit Limits and Conditions
Posting	Signs shall read "Warning: Recycled Water—Do Not Enter," or equivalent signage, in both English and Spanish, as required by IDAPA 58.01.17.603.03. Signs to be posted every 500 feet and at each corner of the outer perimeter of the irrigated site. Signs are required where management unit border areas are accessible to the public.
Fencing	Three-wire fencing
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 prior to 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 sealed by the professional engineer, registered in the State of Idaho, responsible for observation of construction, or a letter from the same professional engineer certifying the facilities or structures were constructed in substantial accordance with the approved plans and specifications.
Flow measurement calibration/verification	Flow measurement devices used to directly or indirectly measure wastewater, recycled water, and supplemental irrigation water flows applied to each management unit shall be calibrated or verified in accordance with the device manufacturer's specifications and with the permittee's QAPP.
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.
Records retention requirements	Keep records generated to meet the requirements of this permit for the duration of permit, including administrative extensions, plus 2 years.

5. Monitoring Requirements

Sample collection, analysis, and reporting of all monitoring shall be as specified in the QAPP. See CA-242-02.

5.1 Wastewater, Recycled Water, and Supplemental Irrigation Water Sampling and Analyses

5.1.1 Constituent Monitoring[a]

Monitoring Point Serial Number and Location	Sample Description	Sample Type and Frequency	Constituents (Units in mg/L Unless Otherwise Specified)
WW-24201 WRRF Influent Parshall Flume.	Wastewater influent	Grab / monthly	- 5-day Biochemical oxygen demand (BOD_5) - Total Kjeldahl nitrogen, as N - Ammonia-nitrogen, as N - Nitrite + nitrate-nitrogen, as N - Total phosphorus, as P - Temperature (°C) - pH (standard units)
WW-24202 Reuse Pump Station discharge piping.	Recycled water to MU-24201 and MU-24202	Grab / monthly (during periods of use)	- 5-day Biochemical oxygen demand (BOD_5) - Total Kjeldahl nitrogen, as N - Ammonia-nitrogen, as N - Nitrite + nitrate-nitrogen, as N - Total phosphorus, as P - Temperature (°C) - pH (standard units)
		Grab / weekly (during periods of use)	- Total coliform bacteria (organisms/100 mL) - Total chlorine residual
WW-24203 WRRF Effluent Weir Structure (NPDES permit wastewater effluent discharge to the Little Salmon River monitoring location).	Wastewater effluent discharge to the Little Salmon River	Grab / monthly (when discharging to the Little Salmon River).	- Total Kjeldahl nitrogen, as N - Nitrite + nitrate-nitrogen, as N (In addition to the constituents monitored for the NPDES permit, which include: 5-day biochemical oxygen demand (BOD_5), total suspended solids, ammonia-nitrogen, total phosphorus, total chlorine residual, temperature, pH, and *E. coli* bacteria)
SW-24201 Manhole CM-2, adjacent to Reuse Pump Station.	Supplemental irrigation water	Grab / monthly (during periods of use)	- Total Kjeldahl nitrogen, as N - Nitrite + nitrate-nitrogen, as N - Total phosphorus, as P - Temperature (°C) - pH (standard units)

a pH and temperature shall be measured in the field at the time of sampling.

5.1.2 Management Unit and Other Flow Monitoring

Flow Measurement Serial Number and Location	Sample Description	Sample Type and Frequency	Measured Parameters
FM-24201 WRRF Influent Parshall Flume.	Wastewater influent flow/volume	Continuous	- Flow/volume (MGD) - Flow/volume (MG/month) - Flow/volume (MG/year)
FM-24202 Reuse Pump Station flowmeter manhole	Recycled water flow/volume	Continuous (during periods of use).	- Flow/volume (MGD) - Flow/volume (MG/month) - Flow/volume (MG/year)
FM-24203 WRRF Effluent Weir Structure	Wastewater effluent flow/volume discharge to the Littler Salmon River	Continuous (when discharging to the Little Salmon River).	- Flow/volume (MGD) - Flow/volume (MG/month) - Flow/volume (MG/year)
FM-24204 Supplemental irrigation water flowmeter manhole into Reuse Pump Station	Supplemental irrigation water flow/volume	Continuous (during periods of use).	- Flow/volume (MGD) - Flow/volume (MG/month) - Flow/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-24201	MW No. 1	Monitoring well	Downgradient of MU-24201
GW-24202	MW No. 2	Monitoring well	Upgradient of MU-24201
GW-24203	MW No. 3	Monitoring well	Upgradient of MU-24202
GW-24204	MW No. 4	Monitoring well	Downgradient of MU-24202

5.2.2 Ground Water Monitoring, Sampling, and Analyses[a, b]

Monitoring Point Serial Number	Sampling Point Description	Sample Type and Frequency	Constituents (Units in mg/L Unless Otherwise Specified)
GW-24201 GW-24202 GW-24203 GW-24204	Monitoring wells	Elevation, distance measurement / Weekly: April, May, and June Monthly: July, August, September, and October	- Water table elevation (feet above msl) - Water table depth (feet bgs)
		Unfiltered grab sample / semi-annually: April and October	- Nitrate-nitrogen, as N - Total phosphorus, as P - Ortho-phosphorus, as P[c] - Total dissolved solids - Chloride - Specific conductance/ electrical conductivity (µmhos/cm) - Total coliform bacteria (organisms/100 mL)[d] - Dissolved oxygen - Temperature (ºC) - pH (standard units)

a. pH, temperature, specific conductance/electrical conductivity, and dissolved oxygen shall be measured in the field at the time of sampling.
b. Ground water monitoring wells shall be purged (except for field measurements of water levels, which shall be done prior to purging) a minimum of three casing volumes and/or until field measurements for pH, specific conductance, and temperature meet the following conditions: two successive temperature values measured at least five minutes apart are within one degree Celsius of each other, pH values for two successive measurements measured at least five minutes apart are within 0.2 units of each other, and two successive specific conductance values measured at least five minutes apart are within 10% of each other.
c. Ortho-phosphorus sample shall be filtered in the field at the time of sampling.
d. If total coliform is detected, then additional analysis for fecal coliform or E. coli must be conducted and reported as required by IDAPA 58.01.11, *Ground Water Quality Rule*.

5.3 Soil Monitoring

5.3.1 Soil Monitoring Unit Descriptions

Monitoring Point Serial Number	Description	Associated Management Unit
SU-24201	Management Unit 1	MU-24201
SU-24202	Management Unit 2	MU-24202

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-24201 SU-24202	Composite samples[a]	Once annually, April (before commencement of irrigation).	- Electrical conductivity (µmhos/cm in saturated paste extract) - Nitrate-nitrogen - Ammonium nitrogen - Plant available phosphorus - pH (standard units)
		First year (before commencement of irrigation) and fourth year of permit cycle.	- DTPA Extractable Iron - DTPA Manganese - Exchangeable sodium percentage (ESP) - Cation Exchange Capacity (CEC) - % Organic Matter

a. 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 (as specified in the QAPP (CA-242-02)).

5.4 Crop Monitoring

5.4.1 Crop Harvest Monitoring

Associated Management Units	Sample Type	Sample Frequency	Parameters
MU-24201 MU-24202	Harvested portion, each crop, each MU	Each harvest	- 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 (%). - Dry yield (lb)

5.4.2 Plant Tissue Monitoring

Associated Management Units	Sample Type	Sample Frequency	Parameters[a]
MU-24201 MU-24202	Harvested portion, each crop, each harvest	Each harvest	- Moisture content (%) - Total combustible nitrogen (TCN) (%) - Phosphorus as P (ppm) - Ash (%)

a. Report dry-basis results for all parameters except lab moisture content.

5.5 Lagoon Information

Serial number	Description	Surface Area, acres	Maximum Operating Volume, MG	Liner Type
LG-24201	Aerobic Treatment Lagoon	1.2	2.6	HDPE
LG-24202	Partially Aerated Treatment Lagoon	2.0	3.1	Clay
LG-24203	**Winter:** Partially Aerated Treatment Lagoon **Summer:** Storage Lagoon	1.4	2.4	Clay

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. Results of the monitoring of the treated wastewater effluent discharge to the Little Salmon River required by the NPDES permit.
4. Status of all work described in section 3 of this permit.
5. Results of all backflow testing, repairs, and replacements required by Section 9.1.1 of this permit.
6. Results of the annual flow verification and/or calibration of the flow measurement devices used to measure wastewater, recycled water, and supplemental irrigation water flows.
7. Discussion of major maintenance activities such as major equipment replacement, lagoon liner maintenance, and wastewater treatment and reuse facility maintenance.

8. 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.
9. 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.
10. Submittal of the calculations and observations for the monitoring points and management units specified in the table below:

Monitoring Point Serial Number	Parameter (Calculate for each MU)	Units
MU-24201 MU-24202	Recycled water hydraulic loading rate	- Inches/month - Inches/acre-month - Inches/year - Inches/acre-year - MG/month - MG/acre-month - MG/year - MG/acre-year
	Supplemental irrigation water hydraulic loading rate	- Inches/month - Inches/acre-month - Inches/year - Inches/acre-year - MG/month - MG/acre-month - MG/year - MG/acre-year
	Irrigation water requirement (IWR) for the crop grown	- Inches/month - Inches/acre-month - Inches/year - Inches/acre-year - MG/month - MG/acre-month - MG/year - MG/acre-year
	Recycled water nitrogen and phosphorus loading rates	- Pounds/month - Pounds/acre-month - Pounds/year - Pounds/acre-year
	Supplemental Irrigation water nitrogen and phosphorus loading rates	- Pounds/month - Pounds/acre-month - Pounds/year - Pounds/acre-year
	Nitrogen and phosphorus fertilizer application rates (as elemental N and P)	- Pounds/month - Pounds/acre-month - Pounds/year - Pounds/acre-year

Monitoring Point Serial Number	Parameter (Calculate for each MU)	Units
MU-24201 MU-24202	Biosolids \ waste solids nitrogen and phosphorus application rates	- Pounds/month - Pounds/acre-month - Pounds/year - Pounds/acre-year
	Crop harvest and yield Report each harvest and the annual totals.	- Crop types harvested - Total harvested area (acres) - Total 'wet' yield (Pounds/year, Pounds/acre-year) - Total 'dry' yield (Pounds/year, Pounds/acre-year)
	Crop nitrogen, phosphorus, and ash removal rates (dry-basis) Report each harvest and the annual totals.	- Pounds-N/acre-year - Pounds-P/acre-year - Pounds Ash/acre-year
Other Reporting Requirements	Visual observation of field conditions: areas of ponding, ice, and unusual conditions.	

6.1.3 Submittal

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

1. Permit applications shall be signed by the Responsible Official as follows:
    a. For a corporation: by a responsible corporate officer;
    b. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively;
    c. 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.
2. 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:
    a. The authorization is made in writing by the responsible official;
    b. 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; and
    c. The written authorization is submitted to DEQ.

Submit all applications, annual reports, and other information required by this permit to the DEQ Boise Regional Office at this address:

Engineering Manager
Idaho Department of Environmental Quality
Boise Regional Office
1445 North Orchard
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 reuse permit M-242-01, 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 Boise Regional Office at (208) 373-0550 / 1-888-800-3480.

In case of emergencies, call the Idaho State Communication Center (StateComm) emergency 24-hour number at 1-800-632-8000 or (208) 846-7610.

See Section 8, "Standard Permit Conditions," and IDAPA 58.01.17.500.06 for reporting requirements for facilities.

All instances of 1) permit non-compliance, which may endanger public health or the environment, and 2) unauthorized discharges to surface waters of the State of Idaho shall be reported to the DEQ Boise Regional Office by telephone 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 Boise Regional Office within 5 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 Environmental

Protection Agency (EPA) may also be required. Contact information for EPA is provided below:

EPA Contact Information:
NPDES/Stormwater Coordinator, USEPA Idaho Operations Office
950 W. Bannock, Suite 900
Boise, ID 83702
(208) 378-5746 / (208) 378-5744 and EPA Hot Line (206) 553-1846

7. Reserved

8. Standard Permit Conditions

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

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

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

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

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

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

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

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

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

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

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

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

a. In writing at least thirty (30) days before any planned physical alteration or addition to the permitted facility or activity if that alteration or addition would result in any significant change in information that was submitted during the permit application process. When the alteration or addition results in a need for a major

modification, such alteration or addition shall not be made prior to Department approval issued in accordance with these rules. (4-7-11)

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

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

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

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

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

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

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

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

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

9. General Permit Conditions

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

9.1 Operations

9.1.1 Backflow Prevention

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

For public water systems, backflow assemblies shall meet the requirements of IDAPA 58.01.08.543. Assemblies shall be adequately maintained and shall be tested annually by a

certified backflow assembly tester, and repaired or replaced as necessary to maintain operational status.

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

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

Discharge of recycled water to surface water is regulated by the EPA 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 United States Environmental Protection Agency (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. 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 which 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 prior to application of 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 which 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 which 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 IDAPA 58.01.06, “Solid Waste Management Rules”. Wastes otherwise regulated by DEQ (i.e. this permit) are not regulated under 58.01.06.

Waste Solids include sludge and wastes otherwise regulated by DEQ in accordance 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 deminimis 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 "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

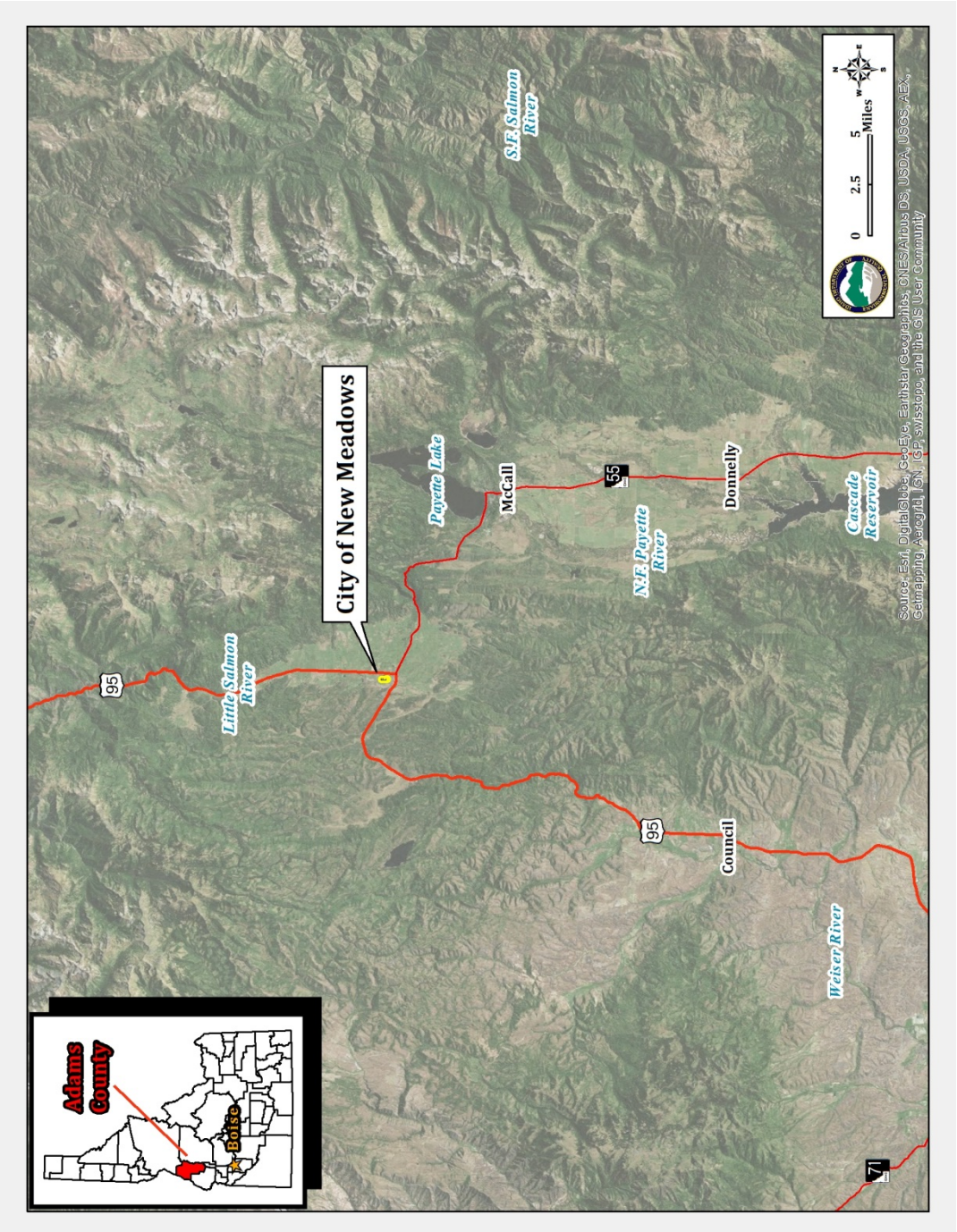
The well owner must maintain the well to prevent waste or contamination of ground waters through leaky casings, pipes, fittings, valves, pumps, seals, or through leakage around the outside of the casings, whether the leakage is above or below the land surface. Any person owning or controlling a noncompliant well must have the well repaired by a licensed well driller under a permit issued by the IDWR director in accordance with 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

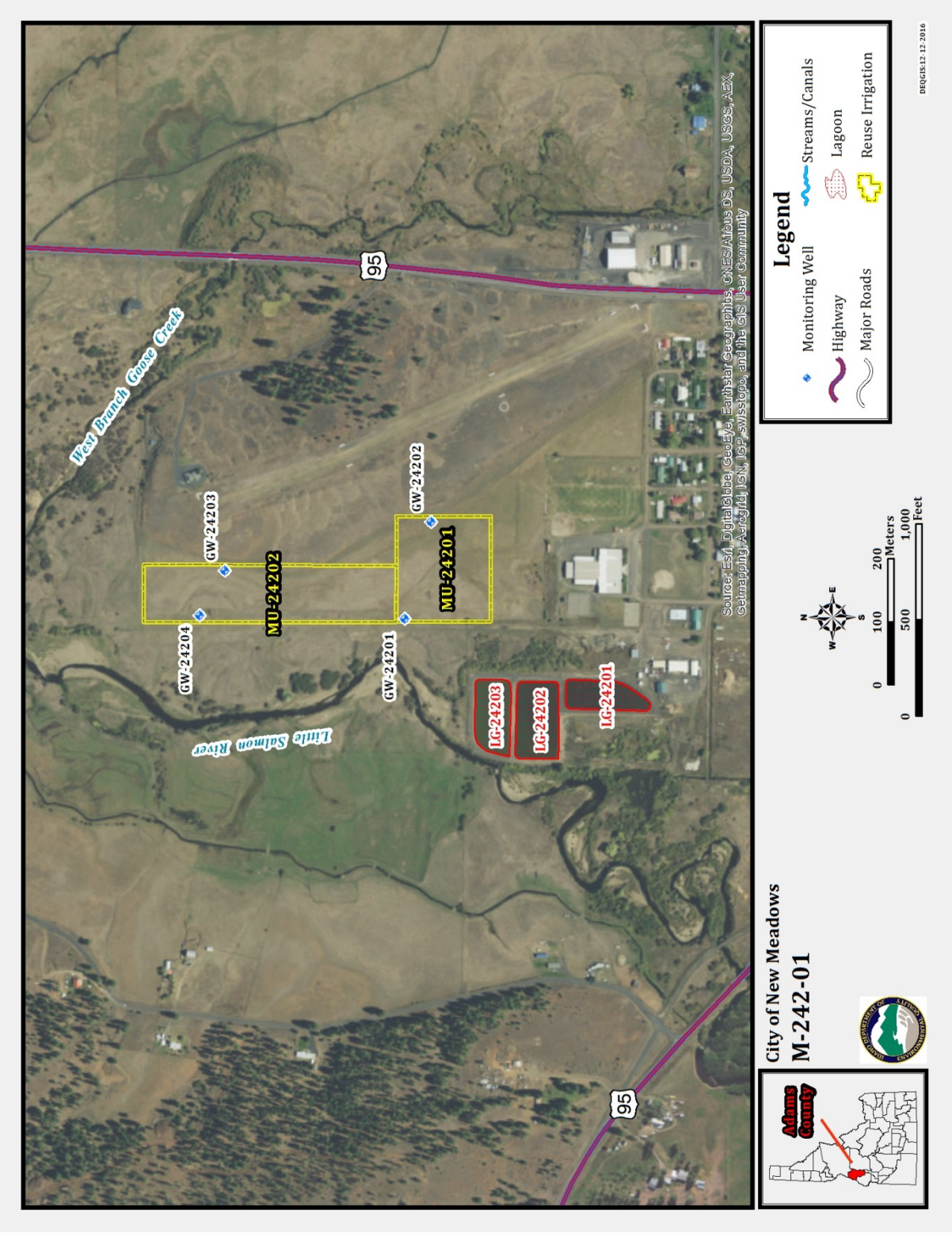
The well owner must have any well shown to pose a threat to human health and safety or cause contamination of the ground water resource immediately repaired or decommissioned (abandoned) by a licensed well driller under a permit issued by the IDWR director in accordance with the applicable rules. See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

11. Site Maps

11.1 Regional Map

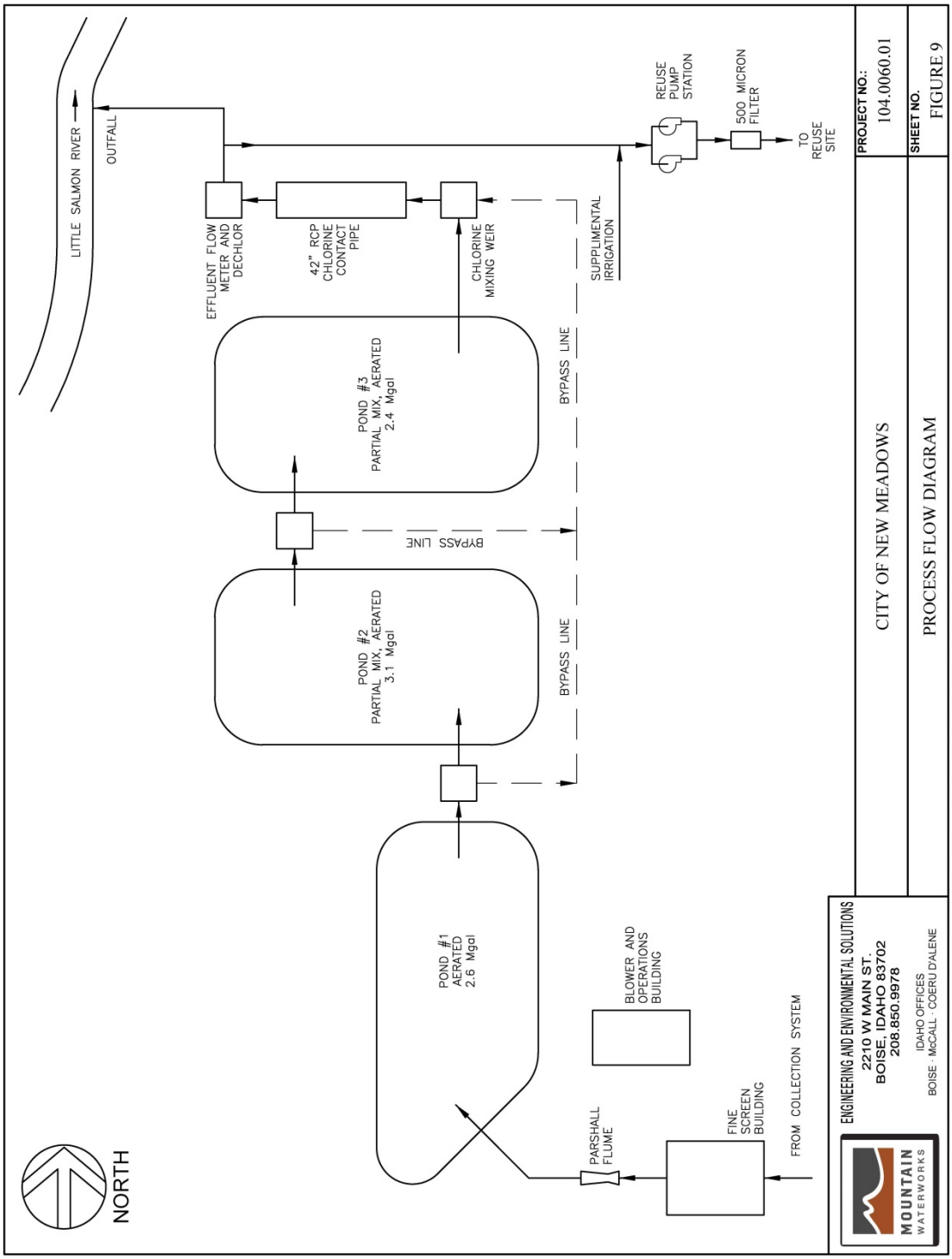


11.2 Facility Map



11.3 Other Maps and Figures

11.3.1 WRRF Process Flow Diagram



11.3.2 WRRF and Reuse Facilities Overall Site Plan

