Idaho Department of Environmental Quality
Reuse Permit
M-240-02

The City of Kuna (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 April 28, 2032.

Aaron Scheff

Signature

4/28/2022

Date

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

Idaho Department of Environmental Quality
Boise Regional Office
1445 N. Orchard
Boise, Idaho 83706
(208) 373-0550

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1. Common Acronyms/Abbreviations and Definitions

Blended water	water in the City of Kuna's pressurized irrigation system consisting of recycled water, surface water, and/or ground water
BOD_5	5-day biochemical oxygen demand
CA	compliance activity
DEQ	Idaho Department of Environmental Quality
DEQ Guidance	DEQ Guidance for Reclamation and Reuse of Municipal and Industrial Wastewater, latest revision
Director	DEQ Director or designee unless otherwise specified
FM	prefix for flow measurement/monitoring location, device, or method 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
LG	prefix for lagoon reporting serial number
material change	a change in a document required by this permit that would impact DEQ's ability to ensure compliance and protect human health and the environment
MG	million gallons
mg/L	milligram per liter
mg-min/L	milligram-minutes per liter
mL	milliliter
MU	management unit, prefix for management unit reporting environmental serial number
NPDES	National Pollutant Discharge Elimination System
NTU	nephelometric turbidity unit
NWRI	National Water Research Institute
N	nitrogen
ppm	parts per million
P	phosphorus
PO	plan of operation
RW	prefix for recycled water reporting serial number
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.
SW	prefix for supplemental irrigation water reporting serial number
UV	ultraviolet
WERF	Water Reuse Foundation
WW	prefix for wastewater reporting serial number
WWTP	wastewater treatment plant
yr	year

2. Facility Information

Information Type	Information Specific to This Permit
Class of recycled water	Municipal, Class A facility
Method of treatment and reuse	Rotary drum fine screening, activated sludge bioreactor, membrane filtration and UV disinfection. Belt press sludge dewatering.
Collection and treatment system classification	Wastewater collection system classification: Class IV Wastewater treatment system classification: Class III
Facility location	North Wastewater Treatment Plant 6950 S. Ten Mile Road Meridian, Idaho 83642 T3N, R1W – Section 34-36 T2N, R1W – Section 1-4, 9-16,22-26 T2N, R1E – Section 6,7,18,19,30
Facility mailing address	751 W 4th Street, Kuna, Idaho 83634 WWW.KUNACITY.ID.GOV
Facility responsible official and authorized representative	Responsible Official: Mayor of City of Kuna (208) 922-5546 Authorized Representative: Thomas B. Shaffer, WWTP Foreman 6950 S. Ten Mile Rd. Meridian, ID 83642 tshaffer@kunaid.gov Notify DEQ within 30 days if a change in personnel occurs for any of the facility contacts. DEQ will issue a minor permit modification to confirm the change.
Ground water	Depth to ground water: approximately 80 feet below ground surface, encountered in Fall. Unconfined aquifer 27 feet thick, generally flowing from east to west. Ada Canyon Nitrate Priority Area Number 4
Surface water	Mason Creek bisects the reuse area. Indian Creek forms the southern boundary of the reuse area. Beneficial uses: Agricultural water supplies, cold water aquatic life, salmonid spawning, industrial water supplies, secondary contact recreation. (IDAPA 58.01.02.140.17050114.SW-6) The combined Indian Creek/New York Canal forms the southern boundary of the reuse site. Beneficial uses of the New York Canal: agricultural water supplies Other major surface waters within the reuse boundary: Teed, Ramsey, and State delivery laterals; and Kuna, Highline, and Rawson canals. (IDAPA 58.01.02.140.17050114.SW-3a) Beneficial uses: agricultural water supply, industrial water supply, wildlife habitats, and aesthetics (IDAPA 58.01.02.100.03, 04, and 05).

3. Compliance Schedule for Required Activities

Compliance Activity (CA) Number and Completion Due Date	Compliance Activity Description
CA-240-01 Approval required prior to recycled water use in the pressurized irrigation system	**Plan of Operation (PO)**: The permittee shall submit to DEQ for review and approval a PO that reflects current operations and incorporates the requirements of this permit. The PO shall comply with the applicable requirements stated in IDAPA 58.01.17.300.05 and shall address applicable items in the most current PO Checklist available. The PO shall include the following site management plans, or the permittee may submit the site management plans individually: 1. Emergency operating plan 2. Waste solids management plan 3. Identification and signage plan 4. Contingency plan and off-spec water procedure 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-240-02 Acceptance required prior to recycled water use in the pressurized irrigation system	**Quality Assurance Project Plan (QAPP)**: The permittee shall prepare and implement a QAPP that incorporates all monitoring and reporting required by this permit. A copy of the QAPP along with written notice that the permittee has implemented the QAPP shall be provided to DEQ. The Permittee must follow the QAPP when collecting, analyzing, and reporting monitoring data submitted to DEQ. 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: 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 reuse 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.
CA-240-03 Prior to recycled water use in the pressurized irrigation system	**Technical Report:** The permittee shall submit to DEQ for review and approval, a report updating, as necessary, the 2015 *Final Preliminary Technical Report for a Citywide Permit to Apply Recycled Water* (J-U-B) to reflect the current and future conditions of the City of Kuna. This report should specifically address and update the assumptions made showing that the use of recycled water in the citywide pressurized irrigation system will be protective of ground water.
CA-240-04 Approval required prior to recycled water use in the pressurized irrigation system	**Public Education Program Report:** The permittee shall submit to DEQ for review and approval a report demonstrating the Public Education Program required in Section 4.5 has been implemented.

Compliance Activity (CA) Number and Completion Due Date	Compliance Activity Description
CA-240-05 Prior to recycled water use in the pressurized irrigation system	**Disinfection:** The permittee shall complete either Option 1 or Option 2 to meet Class A disinfection requirements prior to recycled water being utilized in the pressurized irrigation system: • Option 1. Install a New Chlorine Disinfection System: The permittee shall submit a preliminary engineering report for a chlorine disinfection system to DEQ for review and approval. After obtaining DEQ approval, the permittee shall submit plans and specifications for a chlorine disinfection system. After completion of construction the permittee shall submit record plans and specifications within 30 days of the completion of construction of facilities. The permittee shall comply with the requirements of the "Wastewater Rules" (IDAPA 58.01.16) and the "Recycled Water Rules" (IDAPA 58.01.17). • Option 2. Validate the Existing UV Disinfection System: Performance validation testing shall be conducted in conformance to the most current NWRI and WERF guidance. This guidance should be used to develop a validation procedure capable of verifying that the performance of the installed UV disinfection system fulfills project design goals. ○ The performance validation testing procedure should be submitted to DEQ for review and acceptance at least 45 days prior to testing. The performance validation testing procedure must include all proposed testing protocols, along with a Quality Assurance Project Plan (QAPP) that clearly defines quality objectives. The procedure must define the roles and responsibilities of each entity involved with the validation. ○ After DEQ acceptance of the testing protocol, the permittee shall conduct the testing and submit a final report documenting the testing results to DEQ for review and approval. In addition to the report requirements identified in the NWRI guidance, the final report shall include Operations and Maintenance issues and considerations, shall address needed improvements identified during testing, and shall identify whether future spot checks will be necessary. The report shall also include discussion of the performance of the sensors and how they will satisfy permit conditions.
CA-240-06 One (1) year prior to the expiration date of this permit	**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.
CA-240-07 180 days prior to the expiration date of this permit.	**Renewal Permit Application:** The permittee shall submit to DEQ a complete permit renewal application package that fulfills the requirements specified in CA-240-06 and identified at the pre-application conference.

4. Permit Limits and Conditions

4.1 Management Unit Descriptions

Serial Number	Description	Irrigation System Type and Irrigation Efficiency (E_i)	Maximum Acres[a] Allowed
MU-240-01	City of Kuna Planning Area	Sprinkler system (E_i = 0.80)[b]	6,380
MU-240-02	North Wastewater Treatment Plant	Sprinkler system (E_i = 0.80)[b]	5.3

a. Maximum acres represent the total permitted acreage of the MU as provided by the permittee.
b. This is the typical irrigation system type and is not a permit requirement.

4.2 Hydraulic Loading Limits

Serial Number	Growing Season Hydraulic Loading	Nongrowing Season Maximum Hydraulic Loading (inches)[a]
MU-240-01	No limit	Not allowed
MU-240-02	No limit	Not allowed

4.3 Constituent Loading Limits – *Not Required*

4.4 Management Unit Buffer Zones – *Not Applicable*

4.5 Other Permit Limits and Conditions

Category	Permit Limits and Conditions
Growing season	March 1 through October 31 (245 days)
Nongrowing season	November 1 through February 28/29 (120/121 days)
Reporting year for reporting requirements	November 1 through October 31
Operator certification and endorsement	The wastewater treatment facility shall be operated by personnel certified and licensed in the State of Idaho wastewater operator training program at the operator class level specified in IDAPA 58.01.16.203 and properly trained to operate and maintain the system.
Disinfection limits in recycled water	The median number of total coliform organisms shall 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.

Category	Permit Limits and Conditions
Disinfection requirements	• A chlorine disinfection process that provides a concentration/contact time (CT) of four hundred and fifty (450) milligram-minutes per liter (mg-min/L) measured at the end of the contact time based on total chlorine residual and a modal contact time of not less than ninety (90) minutes; or • A disinfection process that, when combined with filtration, has been demonstrated to achieve 5-log inactivation of virus An alternative back-up system must be automatically activated if chlorine residual drops below the instantaneous required value for more than five (5) minutes, or if the alternative filtration/ disinfection system is not achieving its required 5-log removal/inactivation of virus for more than five (5) minutes.
Turbidity limits in treated effluent prior to disinfection	• Daily arithmetic mean of all measurements of turbidity shall not exceed 0.2 NTU. • Turbidity shall not exceed 0.5 NTU at any time. When the continuous turbidity measurements are above the instantaneous limit for more than five (5) minutes, filtered effluent shall be automatically diverted until such time as the effluent is below the instantaneous limit.
Nutrient Removal	Total nitrogen at the point of compliance shall not exceed 30 mg/L based on a monthly arithmetic mean as determined from weekly composite sampling.
Five (5) Day Biological Oxygen Demand (BOD_5)	BOD_5 shall not exceed ten (10) mg/L based on a monthly arithmetic mean as determined from weekly composite sampling.
pH in recycled water	Between 6.0 and 9.0
Allowable Uses	Allowable uses are limited to those uses allowed for Class A recycled water in Table 3 of the “Recycled Water Rules,” IDAPA 58.01.17.602.02, exclusive of ground water recharge. Uses may be further limited by the Plan of Operation, once the Plan of Operation is submitted and approved.
Public Education Program	The permittee shall implement and maintain a public education program within its service area to teach customers the benefits and responsibilities of using Class A recycled water. The program shall (a) include notification to individual users of the origin of the recycled water, and (b) include discussion of the concept of agronomic rate for applying recycled water, and best practices for irrigation management and runoff management when using recycled water.
Access	Drinking fountains, picnic tables, food establishments, and other public eating facilities shall be placed out of any spray irrigation area in which Class A recycled water is used, or shall be otherwise protected from contact with the Class A recycled water.

Category	Permit Limits and Conditions
Distribution system identification and signage	• Permittee shall implement requirements for private piping connected to permittee's distribution system. • All new buried pipe conveying Class A Recycled Water, including service lines, valves, and other appurtenances, shall be colored purple, and the precise color used, e.g., Pantone 512, 522 or equivalent, shall be consistently used throughout the system. The precise color proposed for use shall be identified in plans and specifications. Label piping every ten (10) feet "Caution: Recycled Water - Do Not Drink" or equivalent signage in both Spanish and English. If fading or discoloration of the purple pipe is experienced during construction, identification tape or locating wire along the pipe is required. • If identification tape is installed along with the purple pipe, it shall be prepared with white or black printing on a purple color field as approved by DEQ, having the words, "Caution: Recycled Water - Do Not Drink" or equivalent signage in both Spanish and English. The overall width of the tape shall be at least three (3) inches. Identification tape shall be installed eighteen (18) inches above the transmission pipe longitudinally, shall be centered over the pipe, and shall run continuously along the length of the pipe. • All new valves shall have valve covers non-interchangeable with potable water valve covers. All valve covers shall have an inscription cast on the top surface stating "IRR", "Recycled Water" or equivalent. • All above ground pipes and pumps shall be consistently color coded (purple) and marked to differentiate Class A recycled water facilities from potable water facilities. The permittee shall maintain detailed and up to date maps of the distribution system.
Pumping facilities identification and signage	• All exposed and above ground piping, risers, fittings, pumps, valves, etc., shall be painted purple color (Pantone 512, 522 or other equivalent product acceptable to the Department). In addition, all piping shall be identified using an accepted means of labeling reading "Caution: Recycled Water - Do Not Drink" or equivalent signage in both Spanish and English lettering. In a fenced pump station area, signs shall be posted on the fence on all sides. • Designated facilities using Class A recycled water from a pumping facility, such as, but not limited to, controller panels and washdown or blow-off hydrants on water trucks, hose bibs, and temporary construction services, shall have warning labels installed. The labels shall read, "Caution: Recycled Water - Do Not Drink" or equivalent signage in both Spanish and English.
Lagoon and irrigated public area identification and signage	Where Class A recycled water is stored or impounded, or used for irrigation in public areas, warning signs shall be installed and contain, at a minimum, one (1) inch purple letters (Pantone 512, 522 or other equivalent product acceptable to DEQ) on a white or other high contrast background notifying the public that the water is unsafe to drink. Signs may also have a purple background with white or other high contrast lettering. Warning signs and labels shall read, in both English and Spanish, "Caution: Recycled Water - Do Not Drink" or equivalent signage approved by DEQ.

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.
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 the permit, including administrative extensions, plus two years.

5. Monitoring Requirements

5.1 Recycled 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)
RW-240-01 Class A Recycled water after disinfection	Class A Recycled water	Composite/weekly (during periods of use)	Total nitrogen, as N Total phosphorus, as P BOD_5
		Grab/five times per week (during periods of use)	Total coliform (organisms/100 mL)
		Grab/five times per week or continuous (during periods of use)	Total chlorine residual, if applicable pH
WW-240-01 Prior to disinfection	Filtered effluent prior to disinfection	Continuous monitoring with recorded value every 15 minutes (during periods of Class A water production)	Turbidity, NTU

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-240-01 Flow meter on lagoon influent	Recycled water to LG-240-01	Daily meter reading Monthly compilation of data (during periods of Class A water production)	Volume (MG/month) Volume (MG/year)
FM-240-02 Flow meter on lagoon effluent	Recycled water flow from LG-240-01	Daily meter reading Monthly compilation of data (during periods of Class A water production)	Volume (MG/month) Volume (MG/year)
FM-240-03 Flow meter to WWTP sprinkler system	Recycled water to MU-240-02	Monthly meters readings Monthly compilation of data (during periods of Class A water production)	Volume (MG/month) Volume (MG/year)
MU-240-01	Blended water to MU-240-01	Monthly meter readings Monthly compilation of data (during periods of Class A water production)	Volume (MG/month) Volume (MG/year)

5.2 Ground Water Monitoring – *Not Required*

5.3 Soil Monitoring – *Not Required*

5.4 Crop Monitoring – *Not Required*

5.5 Lagoon Information

Serial number	Description	Surface Area, acres	Maximum Operating Volume, MG	Liner Type
LG-240-01	Recycled water lagoon	To be determined	To be determined	To be determined

6. Reporting Requirements

6.1 Annual Report Requirements

For any reporting year(s) in which recycled water is used in the pressurized irrigation system, the permittee shall submit to DEQ an annual report prepared by a competent environmental professional covering the previous reporting year.

6.1.1 Due Date

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

6.1.2 Required Contents

The annual report shall include the following:

1. Detailed results of the required monitoring as described in section 5 of this permit. The report shall present all monitoring data in summary tables to expedite review. If the permittee monitors any parameter for compliance purposes more frequently than required by this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the annual report.
2. A brief interpretive discussion of the results of all required monitoring data as specified by section 5. The discussion shall address data quality objectives, validation, and verification; explain what the data say about permit compliance; and reuse facility environmental impacts. The reporting year for this permit is specified in section 4.5.
3. Status of all work described in section 3 of this permit.
4. Results of 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-240-01	Percentage of recycled water used in blended water systems during growing season	Percent
MU-240-01 MU-240-02	Average BOD_5 concentration in recycled water	mg/L per month
	Average total nitrogen concentration in recycled water	mg/L per month
	Average total phosphorus concentration in recycled water	mg/L per month
	Median number of total coliform organisms determined by the bacteriological results of the last 7 days for which analysis have been completed	Total coliform organisms per 100 mg/L
Other Reporting Requirements: • Provide an update of Public Education Program activities. • Annually identify all blended water irrigation sites and associated acreages. Acreages may be estimates.		

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

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

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

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

6.2 Emergency and Noncompliance Reporting

The permittee shall report noncompliance incidents to DEQ's regional office at (208) 373-0550 or toll free (888) 800-3480.

The permittee may also be required to report unauthorized discharges to surface waters to DEQ's IPDES program. The DEQ IPDES hotline is (833) IPDES24 or (833) 473-3724.

In case of public health emergencies, the permittee should 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.

The permittee shall report 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 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.

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

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 DEQ or EPA. An IPDES or NPDES permit is required for any discharge to surface water and backflow prevention shall be implemented to prevent any unauthorized discharge. Backflow prevention assemblies or devices used to protect surface water shall be adequately operated and maintained. Records of all testable backflow assembly test results, repairs, and replacements shall be kept at the reuse facility along with other operational records, and shall be discussed in the annual report and made available for inspection by DEQ. Other approved means of backflow prevention, such as siphons and air-gap structures that cannot be tested, shall be maintained in operable order.

9.1.2 Restricted to Premises

Wastewaters or recharge waters applied to the land surface must be restricted to the premises of the application site. Wastewater discharges to surface water require an IPDES or NPDES permit (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 DEQ or 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

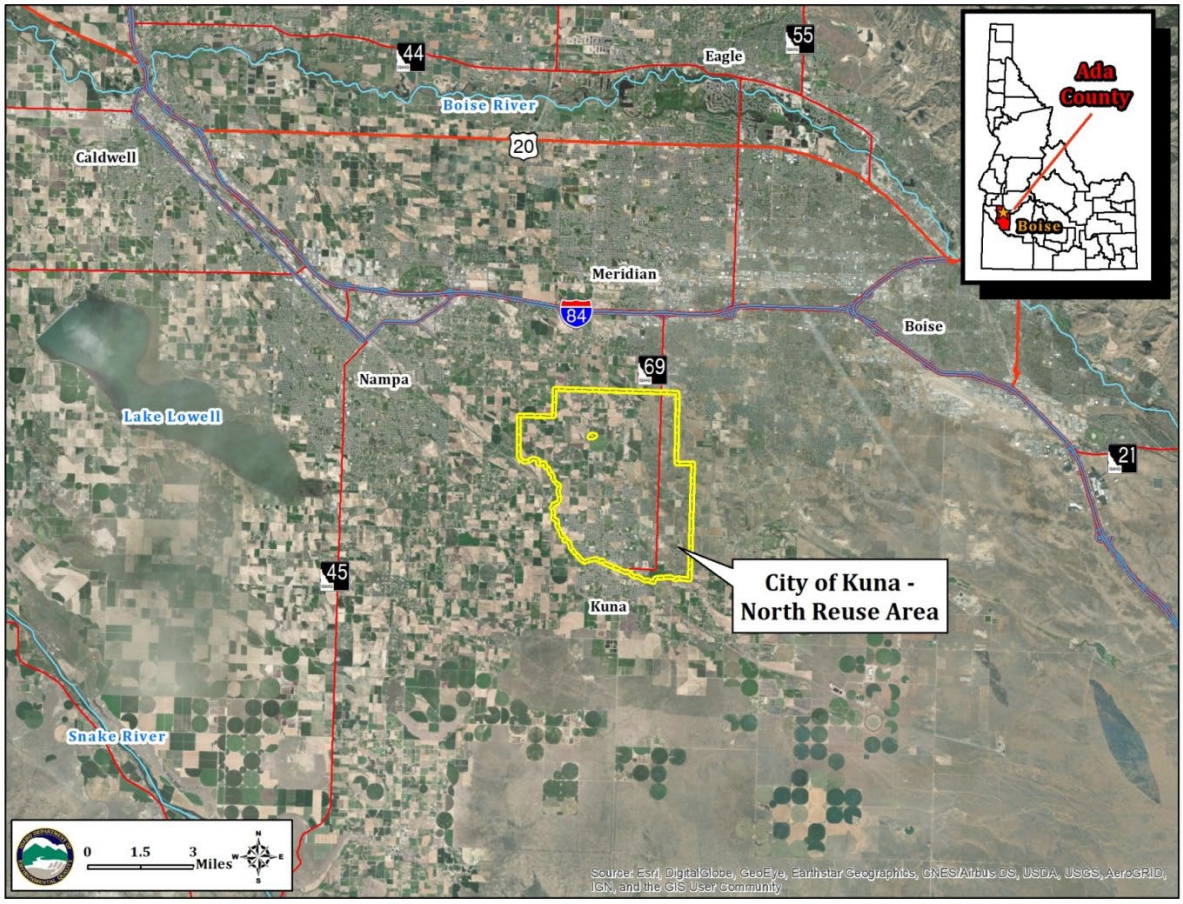
The well owner must maintain the well to prevent waste or contamination of ground waters through leaky casings, pipes, fittings, valves, pumps, seals, or through leakage around the outside of the casings, whether the leakage is above or below the land surface. Any person owning or controlling a noncompliant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

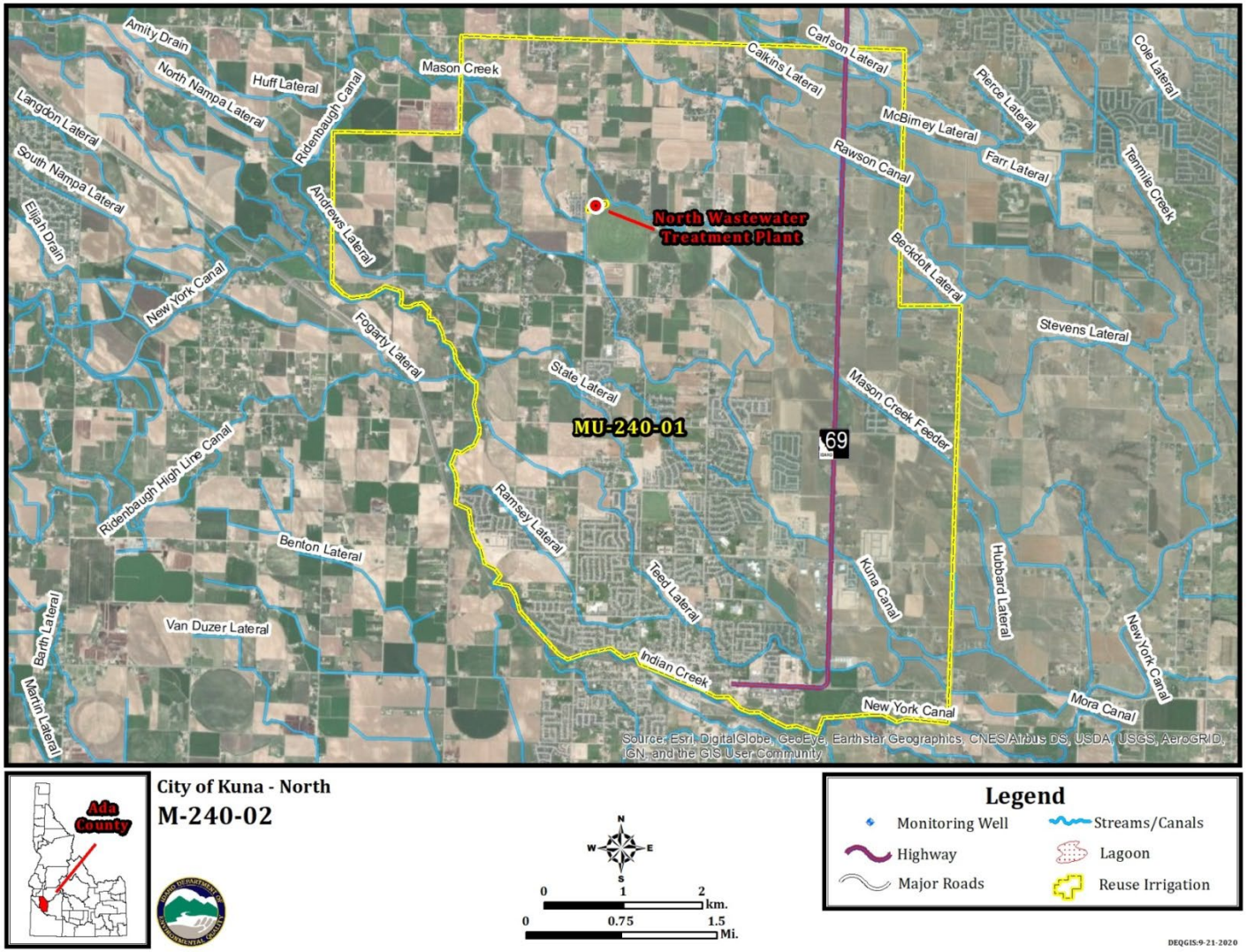
The well owner must have any well shown to pose a threat to human health and safety or cause contamination of the ground water resource immediately repaired or decommissioned (abandoned) by a licensed well driller under a permit issued by the IDWR director according to the applicable rules. See IDAPA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

11. Site Maps

11.1 Regional Map



11.2 Facility Maps



11.3 Treatment Plant Map

