IDAHO DEPARTMENT OF ENVIRONMENTAL QUALITY
WATER REUSE PERMIT
M-156-04
(Previous permit: LA-000156-03)

Stanley Sewer Association (hereafter “permittee”) is hereby authorized to construct, install, and operate a reuse facility in accordance with 1) this permit; 2) IDAPA 58.01.17–Recycled Water Rules; 3) an approved plan of operation; and 4) all other applicable federal, state, and local laws, statutes and rules. This permit is effective from the date of signature and expires on October 31, 2022.

[Signature]

Date

4-15-13

Erick Neher
Regional Administrator
Idaho Falls Regional Office
Idaho Department of Environmental Quality
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9.2. Facility Map (DEQ)

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9.5. Application Site and May Ground Water Contours 2011 Annual Report (Galena Engineering, Inc. Sheet 1)
## Commonly Used Acronyms and Abbreviations

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA</td>
<td>compliance activity</td>
</tr>
<tr>
<td>CFU</td>
<td>colony forming units</td>
</tr>
<tr>
<td>COD</td>
<td>chemical oxygen demand</td>
</tr>
<tr>
<td>DEQ</td>
<td>Idaho Department of Environmental Quality</td>
</tr>
<tr>
<td>Director</td>
<td>Director of the Idaho Department of Environmental Quality or the Director’s Designee unless otherwise specified</td>
</tr>
<tr>
<td>Ei</td>
<td>irrigation efficiency</td>
</tr>
<tr>
<td>FM</td>
<td>flow monitoring</td>
</tr>
<tr>
<td>GPM</td>
<td>gallons per minute</td>
</tr>
<tr>
<td>GW</td>
<td>ground water</td>
</tr>
<tr>
<td>IDAPA</td>
<td>Idaho Administrative Procedures Act.</td>
</tr>
<tr>
<td>IDWR</td>
<td>Idaho Department of Water Resources</td>
</tr>
<tr>
<td>in/acre</td>
<td>inches per acre</td>
</tr>
<tr>
<td>lbs/acre</td>
<td>pounds per acre</td>
</tr>
<tr>
<td>lbs/acre-day</td>
<td>pounds per acre per day</td>
</tr>
<tr>
<td>LG</td>
<td>lagoons</td>
</tr>
<tr>
<td>MG</td>
<td>million gallons</td>
</tr>
<tr>
<td>mg/kg</td>
<td>milligram per kilogram</td>
</tr>
<tr>
<td>mg/L</td>
<td>milligram per liter</td>
</tr>
<tr>
<td>MU</td>
<td>management unit</td>
</tr>
<tr>
<td>NVDS</td>
<td>non-volatile (fixed) dissolved solids</td>
</tr>
<tr>
<td>PO</td>
<td>plan of operations</td>
</tr>
<tr>
<td>QAPP</td>
<td>quality assurance project plan</td>
</tr>
<tr>
<td>SNRA</td>
<td>Sawtooth National Recreation Area</td>
</tr>
<tr>
<td>SSA</td>
<td>Stanley Sewer Association</td>
</tr>
<tr>
<td>SU</td>
<td>soil monitoring unit</td>
</tr>
<tr>
<td>SU</td>
<td>standard units (pH measurement)</td>
</tr>
<tr>
<td>μmhos/cm</td>
<td>micromhos per centimeter</td>
</tr>
<tr>
<td>WW</td>
<td>wastewater</td>
</tr>
</tbody>
</table>

Page 5 of 30
1. Facility Information

<table>
<thead>
<tr>
<th>Information Type</th>
<th>Information Specific to This Permit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type(s) of recycled water (check relevant boxes)</td>
<td>☒ Municipal</td>
</tr>
<tr>
<td></td>
<td>□ Industrial</td>
</tr>
<tr>
<td>Class of recycled water (check relevant box)</td>
<td>□ A</td>
</tr>
<tr>
<td></td>
<td>□ B</td>
</tr>
<tr>
<td></td>
<td>☒ C</td>
</tr>
<tr>
<td></td>
<td>□ D</td>
</tr>
<tr>
<td></td>
<td>□ E</td>
</tr>
<tr>
<td></td>
<td>□ NA (not applicable)</td>
</tr>
<tr>
<td>Method of treatment</td>
<td>3 Facultative lagoons, hypochlorite disinfection, slow rate reuse</td>
</tr>
<tr>
<td>Facility location address</td>
<td>Approximately 2.3 miles south of Stanley, ID</td>
</tr>
<tr>
<td>Facility mailing address and phone and fax</td>
<td>P.O. Box 71, Stanley, ID 83278</td>
</tr>
<tr>
<td></td>
<td>Telephone: (208) 774-4786</td>
</tr>
<tr>
<td>Facility contact information</td>
<td>Richard Neustaedter, President</td>
</tr>
<tr>
<td></td>
<td>(208) 720-0240</td>
</tr>
</tbody>
</table>
2. Compliance Schedule for Required Activities

<table>
<thead>
<tr>
<th>Compliance Activity (CA) Number and Completion Due Date</th>
<th>Compliance Activity Description</th>
</tr>
</thead>
</table>
| **CA-156-01**<br>No later than June 1<sup>st</sup>, 2013 | **Plan of Operations (PO):** Permittee shall submit to DEQ for review and approval an updated PO. The Plan of Operations shall comply with requirements stated in IDAPA 58.01.17.300.05 and shall clarify winterization procedures for the system and include updated contact information for facility personnel (also see Section 7.1.6 of this permit). The PO shall be updated as needed to reflect current operations.  

The Plan of Operations should be assembled in the form of a manual that is designed for quick reference and day-to-day use by the operators. The manual shall be bound using 3-ring binders or equivalent and include a title page, table of contents, list of tables, list of figures, page numbers, and section heading numbers or dividers for quick access and ease of use by the operator.  

Information provided in the most current DEQ guidance entitled “Guidance for the Reclamation and Reuse of Municipal and Industrial Wastewater”, available on DEQ’s website, is recommended as a reference for development of the Plan of Operations and all site management plans. |
<table>
<thead>
<tr>
<th>Compliance Activity (CA) Number and Completion Due Date</th>
<th>Compliance Activity Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CA-156-02 No later than June 1st, 2013</td>
<td>Quality Assurance Project Plan (QAPP): The permittee shall prepare and implement a Quality Assurance Project Plan (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 no later than June 1st, 2013. 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 provided in Quality Assurance and Data Processing sections of the DEQ Guidance for Reclamation and Reuse of Municipal and Industrial Wastewater, available on DEQ’s website. The permittee shall amend the QAPP whenever there is a modification in sample collection, sample analysis, or other procedure addressed by the QAPP. A copy of the amended QAPP shall be submitted to DEQ.</td>
</tr>
<tr>
<td>CA-156-03 No later than June 1st, 2013</td>
<td>SNRA Flow Meter: Remove debris from SNRA meter pit, ensure meter is operational and confirm flow meter readout units for rate and total (i.e. gpm, cfs, gallons, acre-feet, etc.). Notify DEQ upon completion and include discussion of findings in annual report.</td>
</tr>
<tr>
<td>Compliance Activity (CA) Number and Completion Due Date</td>
<td>Compliance Activity Description</td>
</tr>
<tr>
<td>----------------------------------------------------------</td>
<td>--------------------------------</td>
</tr>
<tr>
<td>CA-156-04 Prior to October 31, 2016. (Please note the interim deadlines prior to October 31, 2016)</td>
<td><strong>Seepage Testing</strong>: Permittee shall conduct seepage testing on all three (3) wastewater lagoons in accordance with requirements specified in IDAPA 58.01.16.493.</td>
</tr>
<tr>
<td></td>
<td>1. A Seepage Testing Procedure shall be submitted to DEQ for review and approval at least 42 days prior to the anticipated commencement of testing. The testing procedure must be sealed by the Idaho licensed professional engineer (P.E.) or professional geologist (P.G) in Responsible Charge of the test. The seepage test procedure must be approved by DEQ in writing prior to commencement of testing.</td>
</tr>
<tr>
<td></td>
<td>2. Seepage testing of all three (3) wastewater lagoons shall be completed by August 31, 2016</td>
</tr>
<tr>
<td></td>
<td>3. A Seepage Test Results report for all three (3) wastewater lagoons shall be sealed by the P.E. or P.G. in Responsible Charge of the tests and submitted to DEQ by October 31, 2016.</td>
</tr>
</tbody>
</table>

Information, guidance and software to assist with the development of the test procedure, data collection, analysis, and final report are available from DEQ. The format and content of the test procedure and final report should adhere to the most recent guidance and recommendations available on the DEQ website, currently located at [http://www.deq.idaho.gov/water-quality/wastewater/lagoon-seepage-testing.aspx](http://www.deq.idaho.gov/water-quality/wastewater/lagoon-seepage-testing.aspx)
3. Permit Limits and Conditions

3.1. Hydraulic Management Unit Descriptions

<table>
<thead>
<tr>
<th>Serial Number</th>
<th>Description</th>
<th>Type of recycled water allowed</th>
<th>Irrigation System Type(^a) and Irrigation Efficiency (Proportion)</th>
<th>Total Available Acres(^b)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MU-015601</td>
<td>Reuse Site</td>
<td>Class C</td>
<td>2 Wheel lines ($E_i = 0.75$)</td>
<td>103</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Total acreage</td>
<td>103</td>
</tr>
</tbody>
</table>

\(^a\) One wheel line shall be operated on each side of the main line.
\(^b\) Permittee shall report actual acreage used each year.

3.2. Hydraulic Loading Limits, Vegetation and Grazing

<table>
<thead>
<tr>
<th>Serial Number</th>
<th>Growing Season Hydraulic Loading(^a,b)</th>
<th>Non-growing Season Maximum Hydraulic Loading</th>
<th>Allowed Vegetation</th>
<th>Grazing and Waiting Period Between Recycled Water Application and Grazing</th>
</tr>
</thead>
<tbody>
<tr>
<td>MU-015601</td>
<td>20 in/acre</td>
<td>Not allowed</td>
<td>See PO</td>
<td>Not allowed</td>
</tr>
</tbody>
</table>

\(^a\) Permittee shall calculate per-acre loading based on actual acreage used. Compliance will be determined using actual acreage used.
\(^b\) SSA shall irrigate MU-015601 as uniformly as possible and in accordance with the most recent approved Irrigation Management Plan.

3.3. Constituent Loading Limits

<table>
<thead>
<tr>
<th>Serial Number</th>
<th>Constituent Loading (from all sources)</th>
<th>COD: growing season/non-growing season (lbs/ac-day)(^a)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Nitrogen (lbs/acre)(^b)</td>
<td>Phosphorus (lbs/acre)(^b)</td>
</tr>
<tr>
<td>MU-015601</td>
<td>50</td>
<td>N/A</td>
</tr>
</tbody>
</table>

\(^a\) Limit expressed in lbs/acre-day on a seasonal average.
\(^b\) Permittee shall calculate per-acre loading based on actual acreage used. Compliance will be determined using actual acreage used.
3.4. **Hydraulic Management Unit Buffer Zones, Fencing, and Posting**

<table>
<thead>
<tr>
<th>Serial Number</th>
<th>Public Water Supplies</th>
<th>Private Water Supplies</th>
<th>Inhabited Dwellings</th>
<th>Permanent And Intermittent Surface Water</th>
<th>Irrigation Ditches And Canals</th>
<th>Areas Accessible To Public</th>
<th>Fencing And Posting¹</th>
</tr>
</thead>
<tbody>
<tr>
<td>MU-15601</td>
<td>1,000</td>
<td>500</td>
<td>300</td>
<td>100</td>
<td>50</td>
<td>0</td>
<td>Posting Only</td>
</tr>
</tbody>
</table>

¹. Signs shall read “Caution: Recycled Water—Do Not Drink,” or equivalent signage both in English and Spanish. Signs to be posted every 500 feet and at each corner of the outer perimeter of the hydraulic management units. Posting requirement applies where management units border areas accessible to the public.

b. Any mitigation measures to reduce the Buffer Distances specified above shall be approved by DEQ in writing prior to construction, implementation, or use.

3.5. **Other Permit Limits and Conditions**

<table>
<thead>
<tr>
<th>Category</th>
<th>Permit Limits and Conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Growing Season</td>
<td>May 1 through October 31 (184 days)</td>
</tr>
<tr>
<td>Non-growing Season</td>
<td>November 1 through April 30 (181 days)</td>
</tr>
<tr>
<td>Reporting Year for Annual Loading Rates</td>
<td>January 1 through December 31</td>
</tr>
<tr>
<td>Operator Licensure Required</td>
<td>Wastewater Collections I</td>
</tr>
<tr>
<td></td>
<td>Wastewater Treatment I</td>
</tr>
<tr>
<td></td>
<td>Land Application</td>
</tr>
</tbody>
</table>

**Disinfection Limits in Recycled Water**

Class C: The median number of total coliform organisms shall not exceed 23 CFU/100 mL, as determined from the bacteriological results of the last 5 days for which analyses have been completed. No sample shall exceed 230 CFU/100 mL in any confirmed sample.

**Construction Plans**

The construction, alteration or expansion of any wastewater treatment, disposal, or reuse facility shall not begin before plans and specifications for the proposed facility have been submitted to and approved by the Department. The permittee shall comply with the plan, specification, and construction inspection requirements specified in Section 400 of the Wastewater Rules, "REVIEW OF PLANS FOR MUNICIPAL WASTEWATER TREATMENT OR DISPOSAL FACILITIES" IDAPA 58.01.16.400, and Section 606 of the Recycled Water Rules, "REUSE FACILITY – PLAN AND SPECIFICATION REVIEW" IDAPA 58.01.17.606.

**Mainline Drain Valve**

Discharge from the mainline drain valve shall be distributed slowly and evenly to prevent ponding, erosion or flooding at the point of discharge.
4. Monitoring Requirements

4.1. Recycled Water and Irrigation Water Monitoring, Sampling, and Analyses

4.1.1. Microbial and Constituent Monitoring

<table>
<thead>
<tr>
<th>Monitoring Point Serial Number and Location</th>
<th>Sample Description</th>
<th>Sample Type and Frequency</th>
<th>Constituents</th>
</tr>
</thead>
<tbody>
<tr>
<td>WW-015601 Irrigation pump sample port inside building</td>
<td>Recycled water to MU-015601</td>
<td>Grab/ Twice per month (when irrigating)(^a)</td>
<td>- total coliform (CFU/100 mL)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Grab/ Weekly (when irrigating)</td>
<td>- Free chlorine residual (mg/L)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Grab/Monthly (when irrigating)</td>
<td>- total Kjeldahl nitrogen as N (mg/L)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- nitrite + nitrate-nitrogen as N (mg/L)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- total phosphorus as P(mg/L)</td>
</tr>
</tbody>
</table>

\(^a\) SSA must collect and analyze at least five (5) recycled water samples for total coliform in each growing season.

4.1.2. Flow Monitoring

<table>
<thead>
<tr>
<th>Monitoring Point Serial Number and Location</th>
<th>Sample Description</th>
<th>Sample Type and Frequency</th>
<th>Measured Parameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>FM-015601 Ultrasonic flow meter on SNRA Parshall Flume</td>
<td>Inflow from SNRA</td>
<td>- Daily meter reading; - Monthly compilation of data;</td>
<td>- volume (gallons/month)</td>
</tr>
<tr>
<td>FM-015602 Magnetometer on SSA force main</td>
<td>Inflow from SSA</td>
<td>- Daily meter reading; - Monthly compilation of data;</td>
<td>- volume (gallons/month)</td>
</tr>
<tr>
<td>FM-015603 Magnetometer on irrigation line</td>
<td>Flow to MU-015601</td>
<td>- Daily meter reading; - Monthly compilation of data;</td>
<td>- volume (MG/month)</td>
</tr>
</tbody>
</table>
4.2. Ground Water Monitoring

4.2.1. Ground Water Monitoring Point Descriptions

<table>
<thead>
<tr>
<th>Monitoring Point Serial Number</th>
<th>Common Designation</th>
<th>Well Type</th>
<th>Gradient Location</th>
<th>Compliance well? (Yes or No)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GW-015601</td>
<td>Well 1</td>
<td>Monitoring well</td>
<td>Upgradient (South Center)</td>
<td>No</td>
</tr>
<tr>
<td>GW-015602</td>
<td>Well 2</td>
<td>Monitoring well</td>
<td>Downgradient (NW)</td>
<td>Yes</td>
</tr>
<tr>
<td>GW-015603</td>
<td>Well 3</td>
<td>Monitoring well</td>
<td>Downgradient (NE)</td>
<td>Yes</td>
</tr>
</tbody>
</table>

4.2.2. Ground Water Monitoring, Sampling, and Analyses

<table>
<thead>
<tr>
<th>Monitoring Point Serial Number</th>
<th>Sampling Point Description</th>
<th>Sample Type and Frequency</th>
<th>Constituents</th>
</tr>
</thead>
<tbody>
<tr>
<td>GW-015601</td>
<td>Monitoring wells</td>
<td>Grab sample / twice annually (May and September)</td>
<td>- water table depth (ft, to nearest foot)</td>
</tr>
<tr>
<td>GW-015602</td>
<td></td>
<td></td>
<td>- water table elevation (ft, to nearest foot)</td>
</tr>
<tr>
<td>GW-015603</td>
<td></td>
<td></td>
<td>- nitrate-nitrogen as N (mg/L)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- total phosphorus as P (mg/L)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- dissolved iron (mg/L)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- dissolved manganese (mg/L)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- chloride (mg/L)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- pH (SU)</td>
</tr>
</tbody>
</table>

4.3. Soil Monitoring

4.3.1. Soil Monitoring Unit Descriptions

<table>
<thead>
<tr>
<th>Monitoring Point Serial Number</th>
<th>Description</th>
<th>Associated Management Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>SU-015601</td>
<td>Reuse Site</td>
<td>MU-015601</td>
</tr>
</tbody>
</table>
4.3.2. Soil Monitoring, Sampling and Analyses

<table>
<thead>
<tr>
<th>Monitoring Point Serial Number</th>
<th>Sample Type</th>
<th>Sample Frequency</th>
<th>Constituents</th>
</tr>
</thead>
<tbody>
<tr>
<td>SU-015601</td>
<td>Composite samples</td>
<td>Annually (May, prior to irrigation)</td>
<td>- electrical conductivity (umhos/cm in saturated paste extract)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- nitrate-nitrogen as N (mg/kg)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- ammonium nitrogen as N (mg/kg)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- plant available phosphorus as P (mg/kg)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- pH (SU)</td>
</tr>
</tbody>
</table>

Ten (10) locations in each soil monitoring unit (SU) shall be sampled. At each location, subsamples shall be obtained from three depths: 0 – 12 inches; 12 – 24 inches; and 24 – 36 inches or refusal. The ten (10) subsamples 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.

4.4. Lagoon Information

4.4.1. Lagoon Descriptions

<table>
<thead>
<tr>
<th>Serial Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>LG-015601</td>
<td>Lagoon #1 (4.8 acres)</td>
</tr>
<tr>
<td>LG-015602</td>
<td>Lagoon #2 (4.8 acres)</td>
</tr>
<tr>
<td>LG-015603</td>
<td>Lagoon #3 (5.2 acres)</td>
</tr>
</tbody>
</table>

4.4.2. Lagoon Monitoring

<table>
<thead>
<tr>
<th>Monitoring Point Serial Number</th>
<th>Sample Type</th>
<th>Sample Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>LG-015601</td>
<td>Depth (to nearest inch)</td>
<td>Monthly (May through November)</td>
</tr>
<tr>
<td>LG-015602</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LG-015603</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Depth measurements shall be made in the first week of each month.
- A single permanent measuring location shall be designated and marked for each lagoon.
- The updated PO (see Section 2 of this permit) must include the lagoon depth measurement locations and methods.
5. Reporting Requirements

5.1. Annual Report Requirements

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

5.1.1. Due Date

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

5.1.2. 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 facility environmental impacts. The reporting year for this permit is specified in Section 3.5.

2. The results of the required monitoring as described in Section 4 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. Written status of all work described in Section 2 of this permit.

4. Results of all backflow testing, repairs, and replacements required by Section 8.1.1 of this permit.

5. 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, 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, reporting incorrect acreage, etc.

6. Submittal of the calculations and observations for hydraulic management units specified in the table below.

7. All laboratory analytical reports and chain of custody forms for monitoring samples.

8. Influent volumes from both SNRA and SSA, as required in Section 4.1.2.

9. Depth measurement data for each lagoon as required in Section 4.4.

10. The parameters in the following table:
<table>
<thead>
<tr>
<th>Monitoring Point Serial Number</th>
<th>Parameter (calculate for each MU)</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>MU-015601</td>
<td>Recycled water loading rate</td>
<td>MG/month</td>
</tr>
<tr>
<td></td>
<td></td>
<td>In/month</td>
</tr>
<tr>
<td></td>
<td>Recycled water nitrogen and</td>
<td>Pounds/acre-year</td>
</tr>
<tr>
<td></td>
<td>phosphorus loading rates</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Site acreage used</td>
<td>Acres</td>
</tr>
</tbody>
</table>

Other Reporting Requirements:

- If using less than the full site acreage for irrigation, include explanation in report narrative.
- All per-acre loading rates shall be calculated based in the actual acreage used each year.
- Include copies of irrigation system operation log sheets.

5.1.3. Submittal

The annual report shall be submitted to the following DEQ Regional Office at this address:

Greg Eager, Engineering Manager
Idaho Department of Environmental Quality
Idaho Falls Regional Office
900 North Skyline, Suite B
Idaho Falls, Idaho 83402
Tel: (208) 528-2650 Fax: (208) 528-2695

The annual report shall include the following certification statement and be signed, dated, and certified by the permittee’s Responsible Official:

"I certify under penalty of law that this report and all attachments were prepared under my direction or supervision and the data and information presented in this report was collected, evaluated and prepared in conformance with the Quality Assurance Project Plan required by the permit. I also certify that the information provided in this submission 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."

5.2. Emergency and Non-compliance Reporting

Report noncompliance incidents, including complaints, to DEQ’s regional office. See Section 5.1.3 for the regional office phone number.

In case of emergencies, call the Emergency 24-Hour Number at 1-800-632-8000 and DEQ’s regional office.

See also Section 6, Standard Permit Conditions and IDAPA 58.01.17.500.06 for reporting requirements for facilities.
All instances of unpermitted discharges of wastewater to Surface Waters of the United States shall also be reported to the Environmental Protection Agency by telephone within 24 hours from the time the permittee becomes aware of the discharge and in writing within five days at this address:

NPDES/Stormwater Coordinator
USEPA Idaho Operations Office
950 W. Bannock, Suite 900
Boise, ID 83702
208-378-5746 / 208-378-5744

6. Standard Permit Conditions

The following Standard Permit Conditions are included as terms of this permit as required by the “Recycled Water Rules” (IDAPA 58.01.17.500).

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

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

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

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

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

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

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

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

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

da. 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:

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 by the permittee to 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)

7. General Permit Conditions

The following General Permit Conditions 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.

7.1. Operations

7.1.1. Backflow Prevention

Reuse facilities with existing or planned cross-connections or interconnections between the recycled water system and any water supply (potable or non-potable), shall have backflow prevention assemblies or devices as required by applicable rule or regulation and approved by DEQ. Such assemblies or devices 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. Records of backflow 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.

Backflow prevention may be required on a case-by-case basis, as determined by DEQ, to isolate different classes of recycled water.

7.1.2. Restricted to Premises

Wastewater(s) 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 U.S. Environmental Protection Agency (IDAPA 58.01.16.600.02).

7.1.3. 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)

7.1.4. Solids Management

Solids must be managed as follows:

- Solid waste regulated under IDAPA 58.01.06 - Solid Waste Management Rules and Standards shall be managed to comply with such rules and, where applicable, this permit.
- Sludge usage regulated under IDAPA 58.01.16.650 – Wastewater Rules shall be managed to comply with such rules and, where applicable, this permit.

Note: Municipal Biosolids use is regulated by federal law, and may be regulated by local ordinances.

7.1.5. 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)

7.1.6. **Plan of Operation (IDAPA 58.01.17.300.05)**

The Plan of Operation 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)

7.1.7. **10-Year Lagoon Seepage Testing (IDAPA 58.01.16.493.02)**

Seepage testing must meet the following requirements:

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)

d. **Testing due to Change of Conditions to Liner.** Prior to being returned to service, lagoons must be seepage tested if a change of condition to the liner occurs that may affect its permeability, including but not limited to liner repair below the high water line, liner replacement, lagoon dewatering of soil-lined lagoons which results in desiccation of the soil liner, seal installation, or earthwork affecting liner integrity. A seepage test may be required after solids removal. Prior to performing activities that may affect liner permeability, the system owner must contact the Department in writing to determine if a seepage test will be required prior to returning the lagoon to service. (5-8-09)

e. **Procedures for Performing a Seepage Test.** The procedure for performing a seepage test or alternative analysis must be approved by the Department, and the test results must be submitted to the Department. If an existing lagoon has passed a seepage test before April 15, 2012 and submitted the results to the Department, the owner of that lagoon has ten (10) years from the date of the testing to comply with this requirement. (5-8-09)

7.1.8. **Ground Water Quality (IDAPA 58.01.11)**

The permittee shall comply with the requirements of IDAPA 58.01.11 – Ground Water Quality Rule.
7.2. Administrative

Requirements for administration of the permit are defined as follows.

7.2.1. 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) of more of the following causes for modification exist:

\[\text{(4-7-11)}\]

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.

\[\text{(4-7-11)}\]

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.

\[\text{(4-7-11)}\]

c. Compliance schedules. The Department determines good cause exists for modification of a compliance schedule or terms and conditions of a permit.

\[\text{(4-7-11)}\]

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.

\[\text{(4-7-11)}\]

e. To correct technical mistakes, such as errors in calculation, or mistaken interpretations of law made in determining permit conditions.

\[\text{(4-7-11)}\]

f. When a treatment technology proposed, installed, and properly operated and maintained by the permittee fails to achieve the requirements of the permit.

\[\text{(4-7-11)}\]

02. Minor Modifications. Minor modifications are those which if granted would not result in any increased hazard to the environment or to the public health. If a permit modification satisfies the criteria for "minor modifications," the permit may be modified without issuance of a draft permit or public review. Minor modifications are normally limited to:

\[\text{(4-7-11)}\]

a. The correction of typographical errors or formatting changes;

\[\text{(4-7-11)}\]

b. Transfer of ownership or operational control, or responsible official;

\[\text{(4-7-11)}\]

c. A change in monitoring or reporting frequency requirements, or revision of a laboratory method;

\[\text{(4-7-11)}\]

d. Change compliance due date in a schedule of compliance, provided the new date does not exceed six (6) months;

\[\text{(4-7-11)}\]

e. Change or add a sampling location;

\[\text{(4-7-11)}\]

f. Change to a higher level of treatment without a change in end uses;

\[\text{(4-7-11)}\]

g. Change in terminology;

\[\text{(4-7-11)}\]

h. Removal of an allowed use;

\[\text{(4-7-11)}\]
i. Correct minor technical errors, such as citations of law, and citations of construction specifications; (4-7-11)

j. Change in a contingency plan resulting in equal or more efficient responsiveness; or (4-7-11)

k. Removal of acreage from irrigation without an increase in loadings. (4-7-11)

03. **Major Modifications.** All modifications not considered minor shall be considered major modifications. The procedure for making major modifications shall be the same as that used for a new permit under these rules. Some examples of the major modifications are:

a. Changes in the treatment system; (4-7-11)

b. Adding an allowed use; (4-7-11)

c. Changes to a lower (less treated) class of water; (4-7-11)

d. Addition of acreage used for irrigation; or (4-7-11)

e. Changes to less stringent discharge limitations. (4-7-11)

7.2.2. **Permit Transfer** (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)

02. **Request for Transfer.** Either the permit holder (permittee) or the person to whom the permit is proposed to be transfer (transferee) shall submit to the department a request for transfer at least thirty (30) days before the proposed transfer date. The request for transfer shall include:

a. Legal name and address of the permittee; (4-7-11)

b. Legal name and address of the transferee; (4-7-11)

c. Location and the common name of the facility; (4-7-11)

d. Date of proposed transfer; (4-7-11)

e. Sufficient documentation for the Department to determine that the transferee will meet the requirements listed in IDAPA 58.01.16 "Wastewater Rules," Section 409, relating to technical, financial and managerial capacity; (4-7-11)

f. A signed declaration by the transferee that the transferee has reviewed the permit and understands the terms of the permit; (4-7-11)

g. A sworn statement that the request is made with the full knowledge and consent of the permittee if the transferee is submitting the request; (4-7-11)

h. Identification of any judicial decree, compliance agreement, enforcement order, or other outstanding obligating instrument, the terms of which have not been met, along with legal instruments sufficient to address liabilities under such decree, agreement, order, or other obligating instrument; and (4-7-11)
i. Any other information the director may reasonably require. (4-7-11)

03. **Effective Date of Transfer.** Responsibility for compliance with the terms and conditions of the permit and liability for any violation associated therewith is assumed by the transferee, effective on the date indicated in the approved transfer. (4-7-11)

04. **Compliance with Permit Conditions Pending Transfer Approval.** Prior to a transfer approval, the permittee shall continue to be responsible for compliance with the terms and conditions of the permit and be liable for any violation associated therewith, regardless of whether ownership or operational control of the permitted facility has been transferred. (4-7-11)

05. **Transferee Liability Prior to Transfer Approval.** If a proposed transferee causes or allows operation of the facility under his ownership or control before approval of the permit transfer, such transferee shall be considered to be operating without a permit or authorization required by these rules and may be cited for additional violations as applicable. (4-7-11)

06. **Compliance Record of Transferee.** The director may consider the prior compliance record of the transferee, if any, in the decision to approve or disapprove a transfer. (4-7-11)

7.2.3. **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)
7.2.4. 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)

7.2.5. 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.

8. Other Applicable Laws

The Department 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, as well as all other applicable federal, state, and local laws, statutes and rules.

8.1. Owners Responsibilities for Well Use and Maintenance

8.1.1. 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.

8.1.2. 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 non-compliant well must have the well repaired by a licensed well driller under a permit issued by the Director of the IDWR in accordance with the applicable rules. See IDAPA 37.03.09.036.02 and consult the IDWR for more information.

8.1.3. 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 Director of the IDWR in accordance with the applicable rules. See IDAPA 37.03.09.036.06 and consult the IDWR for more information.
9. **Site Maps**

9.1 Facility Map (DEQ)

9.2 General Area Map (DEQ)

9.3 Hydraulic Profile (*Forsgren Associates, Inc. Figure no. 3, Project no. 198164*)

9.4 Pump Building Layout Mechanical Plan (*Forsgren Associates, Inc. Sheet T-4, Project no. 198164*)

9.5 Pump Building Details (*Forsgren Associates, Inc. Sheet T-10, Project no. 198164*)

9.6 Application Site and May Ground Water Contours 2011 Annual Report (*Galena Engineering, Inc. Sheet 1*)
9.1. **General Area Map (DEQ)**
9.2. Facility Map (DEQ)
9.3. Hydraulic Profile (Forsgren Associates, Inc. Sheet no. GN-5, Project no. 98164)
9.4. Pump Building Layout Mechanical Plan (Forsgren Associates, Inc. Sheet T-4, Project no. 198164)
9.5. Ground Water Contours May 2011 (Galena Engineering, Inc. Sheet 1)

Legend:
- 6500' Ground Water Contours
- Monitoring Well
- Boundary of Application Site
- 8" Irrigation Line
- Wheel Line
- Benchmark

Note: Elevation of top of well casings per field survey by Galena Engineering on August 28, 2009.