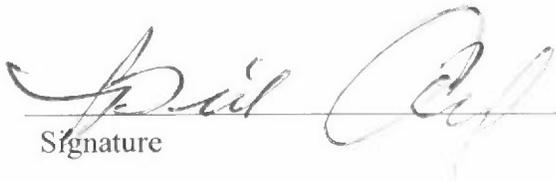

IDAHO DEPARTMENT OF ENVIRONMENTAL QUALITY
REUSE PERMIT
WRU M-0076-04
(formerly LA-000076-03)

City of Wendell (hereafter "permittee") is hereby authorized to construct, install, and operate a reuse facility in accordance with 1) this permit; 2) IDAPA 58.01.17-*Recycled Water Rules*; 3) an approved plan of operation; and 4) all other applicable federal, state, and local laws, statutes and rules. This permit is effective from the date of signature and expires on (August 10, 2017).


Signature

8-10-17
Date

Bill Allred
Regional Administrator
Twin Falls Regional Office
Idaho Department of Environmental Quality

2012AGH845

Contents

| | | |
|--------|---|----|
| 1. | Abbreviations and Definitions | 4 |
| 2. | Facility Information | 5 |
| 3. | Compliance Schedule for Required Activities..... | 5 |
| 4. | Permit Limits and Conditions | 8 |
| 4.1. | Hydraulic Management Unit Descriptions..... | 8 |
| 4.2. | Hydraulic Loading Limits, Vegetation and Grazing | 8 |
| 4.3. | Constituent Loading Limits..... | 9 |
| 4.4. | Hydraulic Management Unit Buffer Zones, Fencing, and Posting..... | 10 |
| 4.5. | Other Permit Limits and Conditions | 11 |
| 5. | Monitoring Requirements | 12 |
| 5.1. | Recycled Water and Irrigation Water Monitoring, Sampling, and Analyses..... | 12 |
| 5.1.1. | Microbial and Constituent Monitoring | 12 |
| 5.1.2. | Flow Monitoring | 12 |
| 5.2. | Ground Water Monitoring..... | 13 |
| 5.2.1. | Ground Water Monitoring Point Descriptions..... | 13 |
| 5.2.2. | Ground Water Monitoring, Sampling, and Analyses..... | 13 |
| 5.3. | Soil Monitoring | 14 |
| 5.3.1. | Soil Monitoring Unit Descriptions..... | 14 |
| 5.3.2. | Soil Monitoring, Sampling and Analyses | 14 |
| 5.4. | Plant Tissue Monitoring..... | 14 |
| 5.5. | Lagoon Information..... | 15 |
| 6. | Reporting Requirements | 16 |
| 6.1. | Annual Report Requirements..... | 16 |
| 6.1.1. | Due Date | 16 |
| 6.1.2. | Required Contents..... | 16 |
| 6.1.3. | Submittal..... | 17 |
| 6.2. | Emergency and Non-compliance Reporting | 17 |
| 7. | Standard Permit Conditions..... | 18 |
| 8. | General Permit Conditions..... | 19 |
| 8.1. | Operations | 19 |
| 8.1.1. | Backflow Prevention..... | 19 |
| 8.1.2. | Restricted to Premises..... | 19 |
| 8.1.3. | Health Hazards, Nuisances and Odors Prohibited | 20 |
| 8.1.4. | Solids Management..... | 20 |
| 8.1.5. | Temporary Cessation of Operations and Closure (IDAPA 58.01.17.801) | 20 |
| 8.1.6. | Plan of Operation (IDAPA 58.01.17.300.05) | 20 |
| 8.1.7. | 10-Year Lagoon Seepage Testing (IDAPA 58.01.16.493.02)..... | 21 |
| 8.1.8. | Ground Water Quality (IDAPA 58.01.11)..... | 21 |
| 8.2. | Administrative..... | 21 |
| 8.2.1. | Permit Modification (IDAPA 58.01.17.700)..... | 21 |
| 8.2.2. | Permit Transfer (IDAPA 58.01.17.800) | 22 |

- 8.2.3. Permit Revocation (IDAPA 58.01.17.920)..... 23
- 8.2.4. Violations (IDAPA 58.01.17.930) 24
- 8.2.5. Severability 24
- 9. Other Applicable Laws 24
 - 9.1. Owners Responsibilities for Well Use and Maintenance..... 24
 - 9.1.1. Well Use..... 24
 - 9.1.2. Well Maintenance 25
 - 9.1.3. Wells Posing a Threat to Human Health and Safety or Causing Contamination of the Ground Water Resource..... 25
- 10. Site Maps 26

1. Abbreviations and Definitions

| | |
|-----------------|---|
| CA | compliance activity |
| CFU | colony forming units |
| COD | chemical oxygen demand |
| CQA | construction quality assurance |
| DEQ | Idaho Department of Environmental Quality |
| Director | Director of the Idaho Department of Environmental Quality or the Director's Designee unless otherwise specified |
| Ei | irrigation efficiency |
| FM | flow monitoring |
| GW | ground water |
| GWQR | Ground Water Quality Rule |
| HMU | hydraulic management unit |
| IDAPA | Idaho Administrative Procedures Act. |
| IW | irrigation water |
| LG | lagoons |
| MG | million gallons |
| MU | management unit |
| NTU | nephelometric turbidity unit |
| NVDS | non-volatile (fixed) dissolved solids |
| PS | point serial (plant tissue monitoring) |
| QAPP | quality assurance project plan |
| SU | soil monitoring unit |
| WW | wastewater |

Permit Issuance Date: **August 10, 2012**Permit Expiration Date: **August 10, 2017**

2. Facility Information

| Information type | Information specific for this permit |
|---|--|
| Type(s) of recycled water (check relevant boxes) | <input checked="" type="checkbox"/> Municipal <input type="checkbox"/> Industrial |
| Facility location address | Between 3050 and 3100 South Road and west of 1900 East Road |
| Facility mailing address and phone and fax | P.O. Box 208 Wendell, Idaho 83355 (208) 536-5161 / (208) 536-5527 fax |
| Facility contact information | Brad Christopherson, Mayor |

3. Compliance Schedule for Required Activities

| Compliance activity number and Completion due date | Compliance activity description |
|--|---|
| CA-076-01 Six (6) months after permit issuance | <p>Plan of Operation: Permittee shall submit to DEQ for review and approval a Plan of Operations (otherwise known as an Operation and Maintenance 'O&M' Manual). The Plan of Operations shall comply with requirements stated in IDAPA 58.01.17.300.05 and shall address the items in the latest revision of the Plan of Operation Checklist. The Plan of Operation shall be updated as necessary to reflect current operations.</p> <p>The plan of operation must also include a Quality Assurance Project Plan (QAPP) for the monitoring required in this permit. The plan shall cover field activities; laboratory analytical methods and other activities; data verification and validation; data storage, retrieval and assessment; and monitoring program evaluation and improvement.</p> <p>The most current DEQ guidance entitled "Guidance for Reclamation and Reuse of Municipal and Industrial Wastewater" should be used as a reference for the updates to the Plan of Operation. The runoff management plan, groundwater monitoring plan, and solids management plan required in the compliance activities below shall be incorporated in the Plan of Operations.</p> <p>Upon approval, the manual shall be incorporated by reference into this permit and shall be enforceable as a part of this permit.</p> |

Permit Issuance Date: **August 10, 2012**Permit Expiration Date: **August 10, 2017**

| Compliance activity number and Completion due date | Compliance activity description |
|---|---|
| CA-076-02 Submit plans within three (3) months of permit issuance Implement plan within three (3) months of approval | Ground Water Monitoring Network: Submit plans and specifications for a ground water monitoring network to DEQ for review and approval, including at least one (1) upgradient well and two (2) downgradient wells. Downgradient wells shall be able to capture potential groundwater impacts from the entire facility, including the lagoons and the retired and active application sites. If existing private wells are included in the groundwater monitoring network, an agreement must be made between the City of Wendell and the well owner that will allow monitoring as required by the permit, preferably for two permit cycles (ten years) or more. |
| CA-076-03 One (1) year after permit issuance | Waste Solids Management Plan: Submit a Waste Solids Management Plan to DEQ for review and approval. The Plan shall describe how waste solids generated at the facility will be handled and disposed of to meet the requirements of Section 8.1.4 of this permit. If any soil from MU-0076-01 is expected to be taken offsite during the construction of the new storage lagoon, a discussion of the fate of this soil shall also be included in the Waste Solids Management Plan. |
| CA-076-04 Prior to applying wastewater at site, complete construction of Runoff Management Plan within three (3) months of plan approval | Runoff Management Plan: Permittee shall prepare and submit to DEQ for approval a runoff management plan with control structures and other BMPs (e.g. collection basins, berms, etc.) designed to prevent runoff from any site or fields used for wastewater reuse to property not owned by permittee except in the event of a 25-year, 24-hour storm event or greater, using Western Regional Climate Center (WRCC) Precipitation Frequency Map, Figure 28 'Isopluvials of 25-YR, 24-HR Precipitation'. For this site, the 25-year, 24-hour event is 1.8 inches. Upon approval of the plan by DEQ, Permittee shall implement the runoff management plan, and shall construct, operate, and maintain the control structures and other BMPs in accordance with the plan. |
| CA-076-05 Six (6) months after permit is issued | Lagoon No. 3 Closure: Permittee shall prepare and submit to DEQ for approval a closure plan for the decommissioning of Lagoon no. 3 in accordance with IDAPA 58.01.16.493.10. |
| CA-076-06 Two (2) months after permit issuance or prior to transfer of ownership (whichever comes first) | West Site Closure: Permittee shall submit to DEQ for approval a site closure plan for the West Application Site, MU-0076-02, before any transfer of ownership. |

| <p>Compliance activity number and Completion due date</p> | <p>Compliance activity description</p> |
|--|---|
| <p>CA-076-07 Three (3) months after permit issuance</p> | <p>Storage Lagoon Design and Seepage Test Planning: Permittee shall prepare and submit to DEQ construction and seepage testing plans for the storage lagoon to be built on the south application site, MU-0076-01. The constructed lagoon shall meet a leakage rate less than 0.125 in/day.</p> <p>IDAPA 58.01.16.493.02.b requires lagoon seepage testing to be completed before the lagoon(s) is put into service. To comply with this requirement, the permittee shall submit to DEQ for review and approval a proposed schedule and procedure for performing the required seepage test(s). The proposed schedule and procedure, submitted to DEQ, shall include the following provisions:</p> <ol style="list-style-type: none"> 1. Submission date for construction quality assurance (CQA) reports that indicate expected compliance with the allowable seepage rates in IDAPA 58.01.16.493.03. Under no circumstances shall a permittee initiate wastewater storage activities without submitting CQA reports that indicate expected compliance. 2. Completion date for the approved lagoon seepage test(s). It is expected that lagoon seepage test procedures shall call for seepage testing to be performed when wastewater content in the lagoon(s) reaches maximum operating volume. 3. Submission date for the results of the approved seepage test(s). Under no circumstances shall a permittee initiate land application activities without submitting results of approved seepage test(s) evidencing compliance with the allowable seepage rates in IDAPA 58.01.16.493. |
| <p>CA-076-08 Six (6) months prior to permit expiration</p> | <p>Permittee shall prepare and submit to DEQ a permit renewal application as required in IDAPA 58.01.17.400.01</p> |

4. Permit Limits and Conditions

4.1. Hydraulic Management Unit Descriptions

| Serial Number | Description | Type of recycled water allowed | Irrigation System Type/Irrigation Efficiency (Ei) (a proportion) | Acres |
|---------------|---|--------------------------------|--|-------|
| MU-076-01 | South Site | Class D or higher | Wheel Lines/ (Ei = 0.75) | 18.3 |
| MU-076-02 | West Site | Class D or higher | Solid Set/ (Ei = 0.75) | 27.0 |
| MU-076-03 | 240 Acre Farm East Pivot | Class D or higher | Pivot/ (Ei = 0.85) | 70.7 |
| MU-076-04 | 240 Acre Farm West Pivot | Class D or higher | Pivot/ (Ei = 0.85) | 37.7 |
| MU-076-05 | 240 Acre Farm, excluding area irrigated by East and West Pivots | Class D or higher | Wheel Lines/ (Ei=0.75) | 131.6 |

4.2. Hydraulic Loading Limits, Vegetation and Grazing

| Serial Number | Growing season hydraulic loading | Non-growing season maximum hydraulic loading | Allowed vegetation (see Note [2]) | Grazing/Waiting period between recycled water application & grazing |
|---------------|--|--|-----------------------------------|---|
| MU-076-01 | Substantially at the irrigation water requirement (IWR) (see Note [1]) | 1.57 MG | Alfalfa, Barley, Corn Silage | Not allowed |
| MU-076-02 | Substantially at the irrigation water requirement (IWR) (see Note [1]) | 2.31 MG | Rye/Orchard Grass | Allowed with an approved grazing plan |
| MU-076-03 | Substantially at the irrigation water requirement (IWR) (see Note [1]) | 8.83 MG | Alfalfa, Barley, Corn Silage | Not allowed |
| MU-076-04 | Substantially at the irrigation water requirement (IWR) (see Note [1]) | 3.17 MG | Alfalfa, Barley, Corn Silage | Not allowed |

| | | | | |
|-----------|--|-------------|------------------------------|-------------|
| MU-076-05 | Substantially at the irrigation water requirement (IWR) (see Note [1]) | Not allowed | Alfalfa, Barley, Corn Silage | Not allowed |
|-----------|--|-------------|------------------------------|-------------|

Note[1]: Growing Season (GS) Hydraulic Loading Rate shall be substantially equal to the Irrigation Water Requirement (IWR) based upon the most current crop-specific precipitation deficit (Pdef) data available from "ETIdaho - Evapotranspiration and Consumptive Irrigation Water Requirements for Idaho" at <http://www.kimberly.uidaho.edu/ETIdaho/>. The IWR shall be calculated by dividing the crop-specific Pdef value, determined above, by the specific irrigation efficiency (Ei) of each HMU as follows: $IWR = Pdef / Ei$ (Assume no carryover soil moisture and a leaching rate of zero in calculating the IWR.) Hydraulic loading is the sum of wastewater and supplemental irrigation water.

Note [2]: Other vegetation, if part of an approved Plan of Operation, will also be allowed.

4.3. Constituent Loading Limits

| Serial Number | Constituent loading (from all sources) | | | |
|---------------|--|-------------------------------------|--|--|
| | Nitrogen (lb/acre) (see Note [1]) | Phosphorus (lb/acre) (see Note [1]) | Salt (Non-volatile dissolved solids, NVDS) (lb/acre) | COD: growing season / non-growing season (lb/ac-day) See Note [2]. |
| MU-076-01 | 150% of typical crop uptake | 150% of typical crop uptake | None | 50 / 0 |
| MU-076-02 | 150% of typical crop uptake | 150% of typical crop uptake | None | 50 / 0 |
| MU-076-03 | 150% of typical crop uptake | 150% of typical crop uptake | None | 50 / 0 |
| MU-076-04 | 150% of typical crop uptake | 150% of typical crop uptake | None | 50 / 0 |
| MU-076-05 | 150% of typical crop uptake | 150% of typical crop uptake | None | 50 / 0 |

Note [1]: The nitrogen and phosphorus loading limits of 150% of typical crop uptake. Typical crop uptake is the median constituent crop uptake from the three (3) most recent years the crop has been grown. For crops having less than three years of on-site crop uptake data, regional crop yield data and typical nutrient content values, or other values approved by DEQ, may be used. Nitrogen loading rates specified in the University of Idaho Fertility Guides may also be used.

Note [2]: Limit expressed in lb/acre-day on a seasonal average. Use 151 days for NGS and 214 days for GS.

4.4. Hydraulic Management Unit Buffer Zones, Fencing, and Posting

| Serial Number | Buffer distances (in feet) from Hydraulic Management Units | | | | |
|---------------|--|------------------------|--|-------------------------------|--|
| | Inhabited dwellings or Areas accessible to the public | Fencing and Posting | Permanent and intermittent surface water | Irrigation ditches and canals | Private water supplies/ Public water supplies |
| MU-076-01 | 500/ 300 | Required, see Note [1] | 100 | 50 | 500/1,000 |
| MU-076-02 | 500/ 300 | Required, see Note [1] | 100 | 50 | 500/1,000 |
| MU-076-03 | 500 / 300 | Required, see Note [1] | 100 | 50 | 500/1,000 |
| MU-076-04 | 500/ 300 | Required, see Note [1] | 100 | 50 | 500/1,000 |
| MU-076-05 | 500/ 300 | Required, see Note [1] | 100 | 50 | 500/1,000 |

Note [1]: Public access to the application site shall be prevented by using a physical barrier or other measure approved by the department. Signs shall be posted around the perimeter of the application site stating that recycled water is used and is not safe for drinking or human contact. Signs must state "Warning: Recycled Water – Do Not Enter", or equivalent signage, in both English and Spanish, translated as "Aviso: Agua Reciclada - No Entre".

4.5. Other Permit Limits and Conditions

| Category | Permit Limits and Conditions |
|---|---|
| Growing Season | April 1 through October 31 (214 days) |
| Non-growing Season | November 1 through March 31 (151 days) |
| Reporting Year for Annual Loading Rates | November 1 through October 31 |
| Operator Licensure Required | See the Section Public Wastewater System Operator Licensure Requirements in Wastewater Rules IDAPA 58.01.16.203 to determine the requirements for this system and provide DEQ proof of compliance with the operator licensure requirements. |
| Ground Water Quality | Wastewater reuse activities conducted by permittee shall not cause a violation of Ground Water Quality Rule, IDAPA 58.01.11. |
| Supplemental Irrigation Water Protection | For systems with wastewater and fresh irrigation water interconnections, DEQ approved backflow prevention devices are required. |
| Allowable Crops | Crops grown for direct human consumption (those crops that are not processed prior to consumption) are not allowed. |
| Grazing | A grazing management plan shall be submitted to DEQ for review and approval prior to any grazing activities. Grazing Plans shall follow the recommendations in Section 6.4.2 of the DEQ Guidance for Reclamation and Reuse of Municipal and Industrial Wastewater. |
| Construction Plans | Prior to construction or modification of all wastewater facilities associated with the reuse system or expansion, detailed plans and specifications shall be reviewed and approved by DEQ. Within 30 days of completion of construction, the permittee shall submit as-built plans to DEQ or submit a certification letter stating that all construction was done in substantial compliance with DEQ approved plans and specifications. |
| Runoff | 1. See Compliance Activity CA-076-04 for a more detailed description of runoff management requirements. 2. Furrow and sprinkler irrigation: Operate and maintain structures and BMPs for supplemental irrigation water sediment control in accordance with DEQ approved plan. |
| Disinfection Limits in Recycled Water: | |
| Class D: The median number of total coliform organisms shall not exceed 230 CFU/100 mL, as determined from the bacteriological results of the last 3 days for which analyses have been completed. No sample shall exceed 2300 CFU/100 mL in any confirmed sample. | |

5. Monitoring Requirements

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

5.1.1. Microbial and Constituent Monitoring

| Monitoring point serial number and location | Sample description | Sample type/Frequency | Constituents (units in mg/L unless otherwise specified) |
|---|---|--------------------------------------|---|
| WW-076-01 Reuse Pump, Wastewater Sample Tap | Recycled water to each MU, when irrigating recycled water | Grab/Monthly (during periods of use) | TKN (mg/L) Nitrate+Nitrite-Nitrogen (mg/L) TDS (mg/L) TVDS (mg/L) pH COD (mg/L) Total Phosphorus (mg/L) |
| | | Grab/weekly | total coliform (CFU/100 mL) |
| IW-076-01 Irrigation Pump, Supplemental Irrigation Water Sample Tap | Irrigation water prior to mixing with recycled water | Grab sample, annually | TKN (mg/L) Nitrate+Nitrite-Nitrogen (mg/L) TDS (mg/L) Total Phosphorus (mg/L) |

5.1.2. Flow Monitoring

| Monitoring point serial number and location | Sample description | Sample type/Frequency | Measured Parameter |
|---|--|---|--------------------|
| FM-076-01 Flow meter at Pump No. 4 | Flow from LG-076-06 or 05 to MU-076-03 | Daily meter reading Monthly compilation of data | Flow (MG/day) |
| FM-076-02 Flow meter at Pump No. 3 | Flow from LG-076-06 or 05 to MU-076-04 | Daily meter reading Monthly compilation of data | Flow (MG/day) |
| FM-076-03 Flow meter at Pumps No. 1 and No. 2 | Flow of supplemental irrigation water to MU-076-04 | Daily meter readings Monthly compilation of data | Flow (MG/day) |
| FM-076-04 Flow meter at Pumps No. 5 and No. 6 | Flow of supplemental irrigation water to MU-076-03 | Daily meter readings Monthly compilation of data | Flow (MG/day) |

Permit Issuance Date: **August 10, 2012**Permit Expiration Date: **August 10, 2017**

| Monitoring point serial number and location | Sample description | Sample type/Frequency | Measured Parameter |
|---|--|---|--------------------|
| FM-076-05 Flow meter location to be determined prior to construction of lagoon LG-076-06 | Flow from LG-076-06 or 05 to MU-076-02 and MU-076-05 | Daily meter readings Monthly compilation of data | Flow (MG/day) |

5.2. Ground Water Monitoring

5.2.1. Ground Water Monitoring Point Descriptions

| Monitoring point serial number | Common designation | Well type | Gradient location | Compliance well? Yes/No; (If applicable) |
|--------------------------------|--------------------|-----------------|-------------------|--|
| GW-076-01 | MW 1 (Diamond) | Monitoring well | Down gradient | Yes |
| GW-076-02 | MW 2 (Stacey) | Monitoring well | Down gradient | Yes |
| GW-076-03 | MW 3 (Clark) | Domestic well | Down gradient | Yes |
| GW-076-04 | MW 4 (Grout) | Monitoring well | Up gradient | Yes |

5.2.2. Ground Water Monitoring, Sampling, and Analyses

| Monitoring point serial number | Sampling point description | Sample type/ Frequency | Constituents (units in mg/L unless otherwise specified) |
|--|----------------------------|---|--|
| GW-076-01 GW-076-02 GW-076-03 GW-076-04 | Monitoring wells | Grab sample/ Quarterly for first two years of permit (April, July, October, December) Twice annually for remainder of permit (April and October) | Nitrate-N (mg/L) TDS (mg/L) Sodium (mg/L) Chloride (mg/L) Total Phosphorus (mg/L) Total Iron (mg/L) Total Manganese (mg/L) Dissolved Iron (mg/L) (see Note[1]) Dissolved Manganese (mg/L) (see Note[1]) Static Water Level (ft) |

Note[1]: Analytical results are required for dissolved iron and / or manganese only if the results for total iron and / or manganese exceed the standards in IDAPA 58.01.11.200.01.b.

5.3. Soil Monitoring

5.3.1. Soil Monitoring Unit Descriptions

| Monitoring point serial number | Description | Associated MU |
|--------------------------------|---|---------------|
| SU-076-01 | South Site | MU-076-01 |
| SU-076-02 | West Site | MU-076-02 |
| SU-076-03 | 240 Acre Farm East Pivot | MU-076-03 |
| SU-076-04 | 240 Acre Farm West Pivot | MU-076-04 |
| SU-076-05 | 240 Acre Farm, excluding area irrigated by East and West Pivots | MU-076-05 |

5.3.2. Soil Monitoring, Sampling and Analyses

| Monitoring point serial number | Sample type | Sample frequency | Constituents (units in mg/kg soil unless otherwise specified) |
|---|------------------------------------|---|--|
| SU-076-01 SU-076-02 SU-076-03 SU-076-04 SU-076-05 | Composite samples (See Note[1]) | Semi-Annually for first two years of permit (April and October) | Electrical Conductivity (µmhos/cm) |
| | | Annually for the remainder of permit (April) | Nitrate-N Ammonia-N pH Plant-available phosphorus (see Note[2]) |
| | | First and Last year of permit only (April) | SAR DTPA-Fe DTPA-Mn |

Note[1]: Five (5) locations in each soil monitoring unit (SU) shall be sampled. At each location, samples shall be obtained from three depths: 0 – 12 inches; 12 – 24 inches; and 24 – 36 inches or refusal. The five (5) 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.

Note[2]: For P analysis: use Olsen Method for soils with pH 6.5 or greater; use Bray Method if soil pH is less than 6.5.

5.4. Plant Tissue Monitoring

| |
|---------------------------------------|
| Monitoring point serial number PS-076 |
|---------------------------------------|

| Associated Hydraulic Monitoring Units (see Note[1]) | Sample type | Sample frequency (only required if wastewater is applied on HMU) | Reporting parameter(s) (see Note [2] below) |
|---|-------------------|--|--|
| MU-076-01 | Harvested portion | Each harvest | Yield in customary harvested units (ton/ac; bushels/ac, etc.); moisture content; ash; total Kjeldahl nitrogen; NO ₃ -N + NO ₂ -N; Total phosphorus |
| MU-076-02 | Harvested portion | Each harvest | Yield in customary harvested units (ton/ac; bushels/ac, etc.); moisture content; ash; total Kjeldahl nitrogen; NO ₃ -N + NO ₂ -N; Total phosphorus |
| MU-076-03 | Harvested portion | Each harvest | Yield in customary harvested units (ton/ac; bushels/ac, etc.); moisture content; ash; total Kjeldahl nitrogen; NO ₃ -N + NO ₂ -N; Total phosphorus |
| MU-076-04 | Harvested portion | Each harvest | Yield in customary harvested units (ton/ac; bushels/ac, etc.); moisture content; ash; total Kjeldahl nitrogen; NO ₃ -N + NO ₂ -N; Total phosphorus |
| MU-076-05 | Harvested portion | Each harvest | Yield in customary harvested units (ton/ac; bushels/ac, etc.); moisture content; ash; total Kjeldahl nitrogen; NO ₃ -N + NO ₂ -N; Total phosphorus |

Note[1]: Only those hydraulic management units that have had wastewater application during that year must have their crops analyzed.

Note[2]: For each harvest, report the following in association with the plant tissue monitoring point serial number: a) associated management unit, b) sample collection date, c) crop type, d) harvested portion, e) reporting parameters in the table above.

5.5. Lagoon Information

| Serial number | Description | Volume (MG) |
|---------------|---------------------------------|-------------|
| LG-076-01 | Lagoon No. 1 | 8.05 |
| LG-076-02 | Lagoon No. 2 | 6.41 |
| LG-076-03 | Lagoon No. 3 (awaiting closure) | 1.15 |
| LG-076-04 | Lagoon No. 4 | 19.25 |
| LG-076-05 | Lagoon No. 5 | 8.08 |
| LG-076-06 | Storage Lagoon (future) | 27 |

6. Reporting Requirements

6.1. Annual Report Requirements

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

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:

- 6.1.2.1. an interpretive discussion of all required monitoring data. The report shall address data quality objectives and facility environmental impacts. The reporting year for this permit is specified in Section 4.5.
- 6.1.2.2. the results of the required monitoring as described in Section 5 of this permit. If the Permittee monitors any parameter 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.
- 6.1.2.3. written status of all work described in Section 3 of this permit.
- 6.1.2.4. written summary of all noncompliance events that occurred during the reporting year.
- 6.1.2.5. submittal of the calculations and observations for HMUs specified in the table below:

Hydraulic Management Unit Reporting

| Monitoring point serial number | Parameter (calculate for each HMU) | Units |
|--------------------------------|---|---------------------------------------|
| MU-076-01 | Irrigation water requirement, during growing season | Acre-inches/month |
| MU-076-02 | | Million gallons/month |
| MU-076-03 | Recycled water loading rate | Million gallons/month |
| MU-076-04 | | Inches/month |
| MU-076-05 | | |
| | Irrigation water loading rate | Million gallons/month Inches/month |
| | COD loading rate: Growing season seasonal average | Pounds/acre-day |
| | COD loading rate: Non-growing season seasonal average | Pounds/acre-day |
| | Recycled water nitrogen and phosphorus loading rates | Pounds/acre-year |

| Monitoring point serial number | Parameter (calculate for each HMU) | Units |
|--|---|----------------------------|
| | Irrigation water nitrogen and phosphorus loading rates | Pounds/acre-year |
| | Fertilizer nitrogen and phosphorus application rates | Pounds/acre-year |
| | Total nitrogen and phosphorus application rates | Pounds/acre-year |
| | Crop Information | Crop type Acres planted |
| | Crop yield (each harvest) | Pounds/acre Pounds/HMU |
| | Crop constituent removal: nitrogen, phosphorus, and ash | Pounds/acre Pounds/HMU |
| Other Reporting Requirements | | |
| <ul style="list-style-type: none"> - Visual observation of field conditions: areas of ponding, ice, unusual conditions, etc. - Record daily as necessary when land applying. - Keep records at the facility and have records available for DEQ inspection. - Document the flow measurement calibration of all flow meters and pumps used directly or indirectly. - Document testing of all backflow prevention devices for all supplemental irrigation pumps directly connected to the wastewater distribution system(s). Report the testing dates and the results of the test (pass or fail). If any test failed report the date of repair or replacement of backflow prevention device, and if the repaired/replaced device is operating correctly. | | |

6.1.3. Submittal

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

**Engineering Manager
 Idaho Department of Environmental Quality
 Twin Falls Regional Office
 1363 Fillmore St.
 Twin Falls, ID 83301
 208-736-2190/208-736-2194**

6.2. Emergency and Non-compliance Reporting

Report noncompliance incidents to the DEQ Regional Office. See Section 6.1.3 for the Regional Office phone number.

In case of emergencies, call the Emergency 24 Hour Number: 1-800-632-8000 as well as the DEQ Regional Office.

See also Section 7, Standard Permit Conditions and IDAPA 58.01.17.500.06 for reporting requirements for facilities.

7. 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)

Permit Issuance Date: **August 10, 2012**Permit Expiration Date: **August 10, 2017**

- 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)

8. General Permit Conditions

The following General Permit Conditions are identical to 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.

8.1. Operations

8.1.1. Backflow Prevention

Reuse facilities with existing or planned cross-connections or interconnections between the recycled water system and any water supply, shall have approved backflow prevention assemblies as required in applicable rule, or regulation. Such assemblies shall be adequately maintained, and shall be tested annually. Records of backflow assembly test results shall be kept at the reuse facility along with other operational records, and shall be 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.

8.1.2. 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).

8.1.3. 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)

8.1.4. 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.

8.1.5. 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)

8.1.6. 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*

Permit Issuance Date: **August 10, 2012**Permit Expiration Date: **August 10, 2017**

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)

8.1.7. 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)

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)

8.1.8. Ground Water Quality (IDAPA 58.01.11)

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

8.2. Administrative

Requirements for administration of the permit are defined as follows.

8.2.1. 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: (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

Permit Issuance Date: **August 10, 2012**Permit Expiration Date: **August 10, 2017**

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)

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:* (4-7-11)

- a. The correction of typographical errors or formatting changes;* (4-7-11)
- b. Transfer of ownership or operational control, or responsible official;* (4-7-11)
- c. A change in monitoring or reporting frequency requirements, or revision of a laboratory method;* (4-7-11)
- d. Change compliance due date in a schedule of compliance, provided the new date does not exceed six (6) months;* (4-7-11)
- e. Change or add a sampling location;* (4-7-11)
- f. Change to a higher level of treatment without a change in end uses;* (4-7-11)
- g. Change in terminology;* (4-7-11)
- h. Removal of an allowed use;* (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:* (4-7-11)

- 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)

8.2.2. Permit Transfer (IDAPA 58.01.17.800)

01. General. *A permit may be transferred only upon approval of the Department. No transfer is*

Permit Issuance Date: **August 10, 2012**Permit Expiration Date: **August 10, 2017**

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:

(4-7-11)

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)

8.2.3. 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

Permit Issuance Date: **August 10, 2012**Permit Expiration Date: **August 10, 2017**

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)*

8.2.4. 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)

8.2.5. 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.

9. 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.

9.1. Owners Responsibilities for Well Use and Maintenance

9.1.1. 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.

9.1.2. 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.

9.1.3. 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.

10. Site Maps

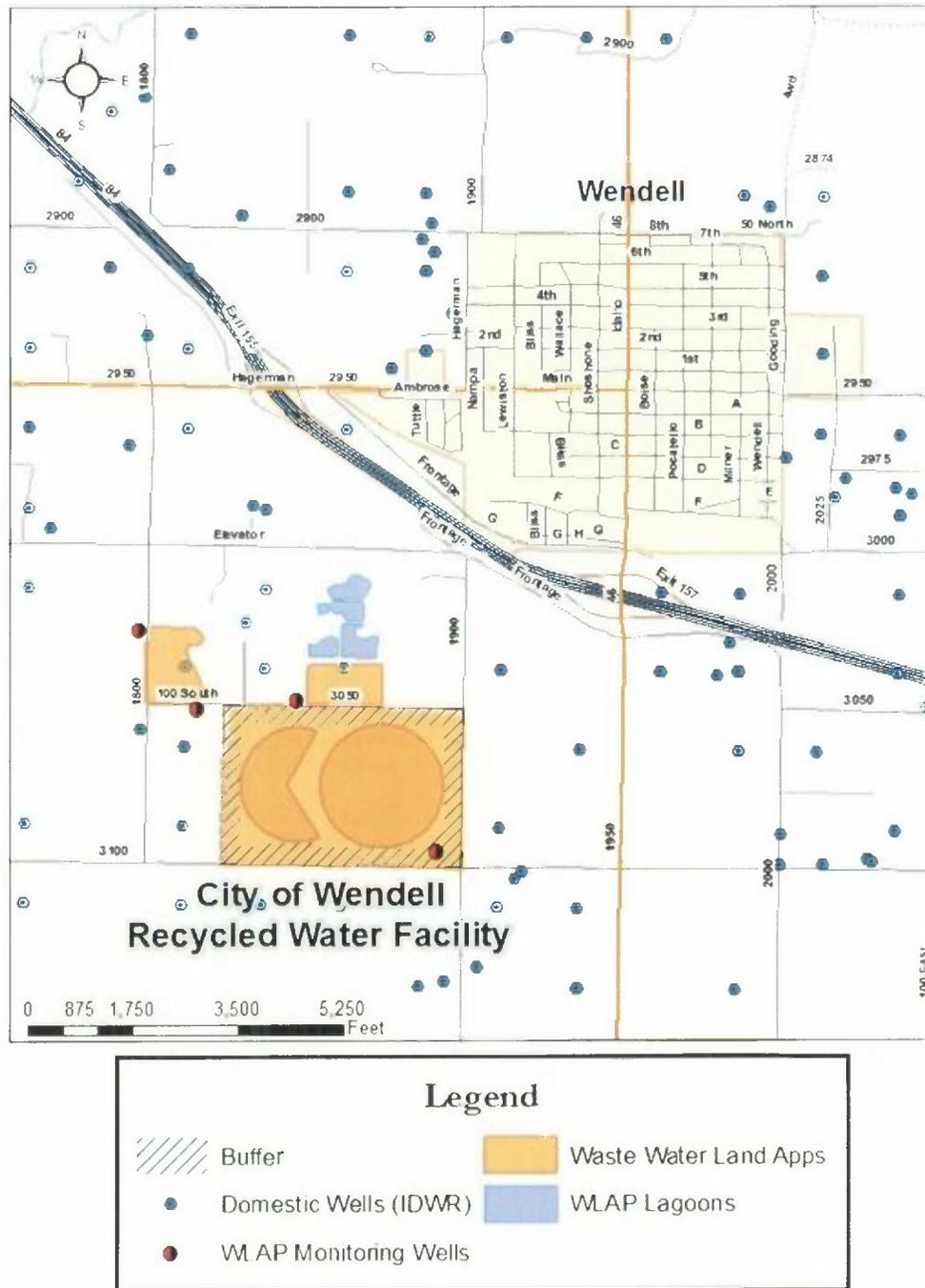


Figure 1. City of Wendell Regional View



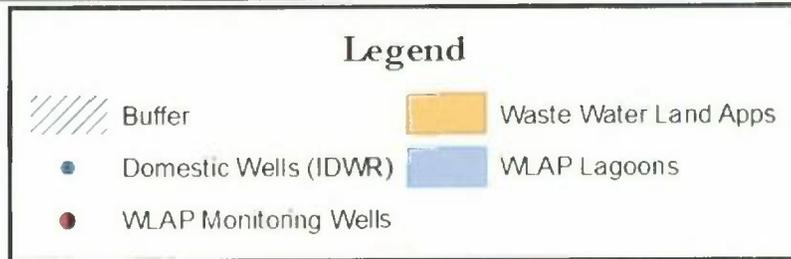
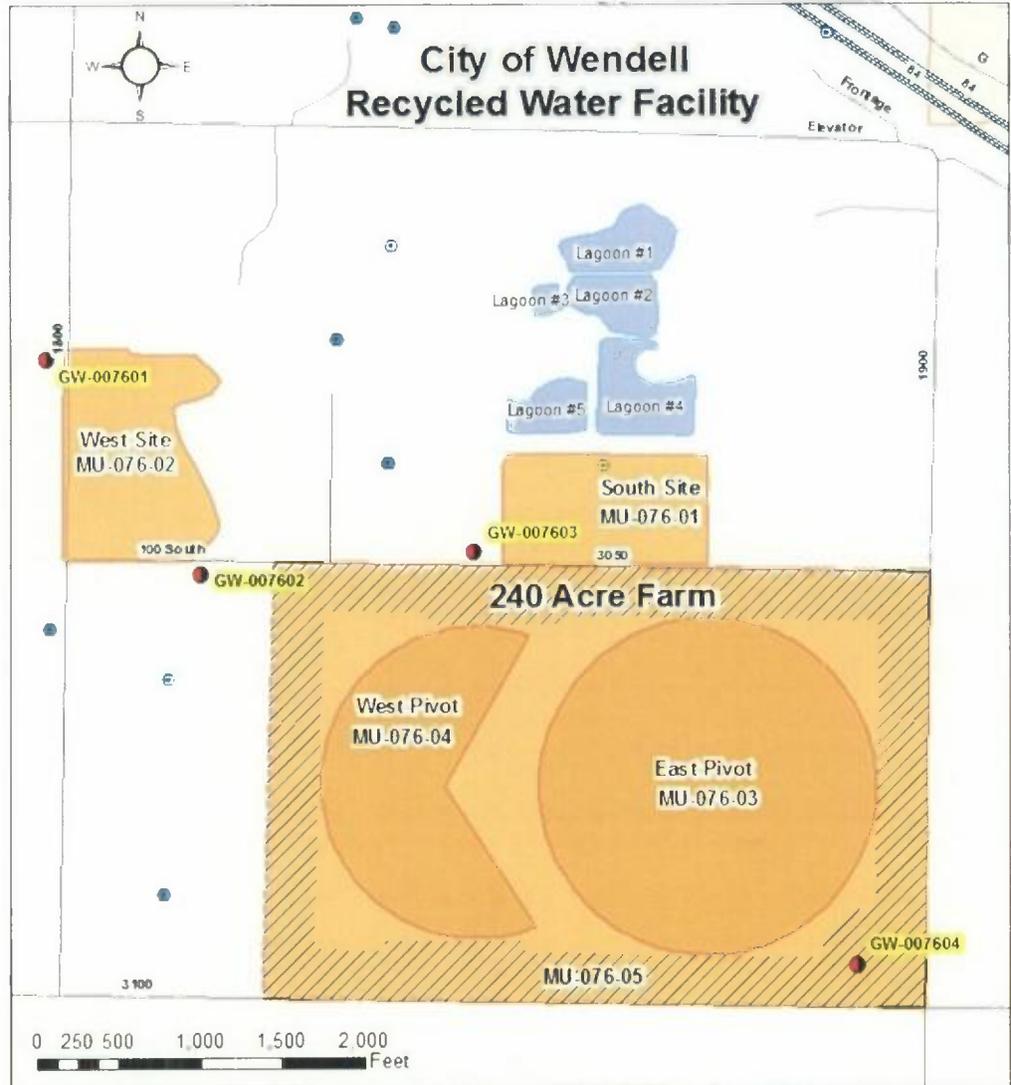
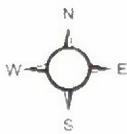


Figure 2. City of Wendell Site Map





0 250 500 1,000 1,500 2,000 Feet



| Legend | |
|--------|-----------------------|
| | Buffer |
| | Waste Water Land Apps |
| | WLAP Lagoons |
| | WLAP Monitoring Wells |

Figure 3. Satellite View