

Idaho Department of Environmental Quality Reuse Permit I-008-05

(Previous Permit No. LA-000008-04)

J.R. Simplot Company (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 (84 months from issue date).

DRAFT

Signature

Date

Pete Wagner

Regional Administrator
Boise Regional Office
Idaho Department of Environmental Quality

Idaho Department of Environmental Quality
Boise Regional Office
1445 North Orchard
Boise, ID 83706-2239
208-373-0550

This page intentionally left blank for correct double-sided printing.

Table of Contents

1. Common Acronyms/Abbreviations and Definitions	5
2. Facility Information	7
3. Compliance Schedule for Required Activities.....	8
4. Permit Limits and Conditions	11
4.1 Hydraulic Management Unit Descriptions	11
4.2 Hydraulic Loading Limits.....	12
4.3 Constituent Loading Limits	13
4.4 Management Unit Buffer Zones	14
4.5 Other Permit Limits and Conditions.....	15
5. Monitoring Requirements	16
5.1 Recycled Water and Supplemental Irrigation Water Sampling and Analyses	16
5.1.1 Constituent Monitoring.....	16
5.1.2 Management Unit and Other Flow Monitoring.....	17
5.2 Ground Water Monitoring	18
5.2.1 Ground Water Monitoring Point Descriptions	18
5.2.2 Ground Water Monitoring, Sampling, and Analyses	19
5.3 Soil Monitoring.....	20
5.3.1 Soil Monitoring Unit Descriptions	20
5.3.2 Soil Monitoring, Sampling, and Analyses.....	21
5.4 Plant Tissue Monitoring.....	21
5.4.1 Crop Harvest Monitoring.....	21
5.4.2 Plant Tissue Monitoring	22
5.5 Lagoon Information	22
6. Reporting Requirements	23
6.1 Annual Report Requirements.....	23
6.1.1 Due Date	23
6.1.2 Required Contents	23
6.1.3 Submittals	25
6.2 Emergency and Noncompliance Reporting	26
7. Permit for Use of Industrial Recycled Water.....	27
8. Standard Permit Conditions	27
9. General Permit Conditions.....	29
9.1 Operations	29
9.1.1 Backflow Prevention	29
9.1.2 Restricted to Premises	29
9.1.3 Health Hazards, Nuisances, and Odors Prohibited.....	30
9.1.4 Solids Management	30
9.1.5 Temporary Cessation of Operations and Closure (IDAPA 58.01.17.801).....	31
9.1.6 Plan of Operation (IDAPA 58.01.17.300.05).....	31
9.1.7 Seepage Testing Requirements (IDAPA 58.01.16.493.02.c).....	31
9.1.8 Ground Water Quality Rule (IDAPA 58.01.11).....	31
9.2 Administrative.....	32
9.2.1 Permit Modification (IDAPA 58.01.17.700).....	32

9.2.2	Permit Transferable (IDAPA 58.01.17.800)	32
9.2.3	Permit Revocation (IDAPA 58.01.17.920)	32
9.2.4	Violations (IDAPA 58.01.17.930).....	33
9.2.5	Severability	33
10.	Other Applicable Laws	34
10.1	Owner Responsibilities for Well Use and Maintenance	34
10.1.1	Well Use	34
10.1.2	Well Maintenance.....	34
10.1.3	Wells Posing a Threat to Human Health and Safety or Causing Contamination of the Ground Water Resource	34
11.	Site Maps and Additional Information	35
11.1	Vicinity Map	35
11.2	Management Unit Maps.....	35
11.3	Ground Water Flow Direction	35
11.4	Canals and Drains	35
11.5	Field Descriptions	35

1. Common Acronyms/Abbreviations and Definitions

BMP	best management practice
BVF	Bulk Volume Fermenter
cwt	a unit of weight measurement equal to 100 pounds
DEQ	Idaho Department of Environmental Quality
DEQ Guidance	DEQ Guidance for Reclamation and Reuse of Municipal and Industrial Wastewater, latest revision
Director	Director of the Idaho Department of Environmental Quality or designee unless otherwise specified
EPA	Environmental Protection Agency
E_i	irrigation efficiency
FM	flow measurement or monitoring description or identifier
GW	prefix for ground water reporting serial number
IDAPA	Idaho Administrative Procedures Act
IDWR	Idaho Department of Water Resources
IWR	irrigation water requirement - any combination of wastewater and supplemental irrigation water applied at rates commensurate to the moisture requirements of the crop, and calculated monthly during the growing season (GS). The equation used to calculate the IWR is: $IWR = P_{def}/E_i$
LG	prefix for lagoon reporting serial number
MG	million gallons
mg/kg	milligram per kilogram
mg/L	milligram per liter
MU	prefix for management unit reporting environmental serial number
NPDES	National Pollutant Discharge Elimination System
P_{def}	precipitation deficit - is synonymous with the net irrigation water requirement of the crop and for the purposes of this permit can be found at the following website http://data.kimberly.uidaho.edu/ETIdaho/
PO	plan of operation
RO	Reverse Osmosis
RO Return Water	Combination of Reverse Osmosis Permeate and Well Water, generally at a 1:0.2 ratio for in-plant reuse
QAPP	quality assurance project plan

SU prefix for soil monitoring unit reporting serial number
SW prefix for supplemental irrigation water reporting serial number
WW prefix for wastewater reporting serial number

2. Facility Information

Information Type	Information Specific to This Permit
Type(s) of recycled water	Industrial potato processing wastewater – Silt wastewater from initial rinse of potatoes, process wastewater from processing of potato products
Method of treatment and reuse	Silt water – Delta Stak™ clarifier, slow rate land application Process Water – Dissolved air flotation, primary clarifier, bulk volume fermenter (anaerobic digester), membrane bioreactor and filtration (activated sludge with ultrafiltration membranes), reverse osmosis, slow rate land application Application Site Area: 2155.8 acres of reuse area, 368.7 acres of former land and livestock area (see CA-008-04)
Facility location	Approximately 2 miles west of Caldwell on Simplot Boulevard (U.S. 19) Geographic location: Township 4N, Range 3W, part of Sections 7, 17-20, and 29-31 Township 4N, Range 4W, part of Sections 12-14, 23, and 24
Facility mailing address	P.O. Box 1059 Caldwell, ID 83606
Facility responsible official	Responsible Official: Ron Wagstaff, Unit Director
Other facility contact(s)	Mr. Noel Wing, Environmental, Health and Safety Manager J.R. Simplot Company P.O. Box 1059 Caldwell, ID 83606 (208) 454-4360, (208) 841-4350 / (208) 452-2650 Noel.Wing@simplot.com
Ground water	Depth to Shallow Aquifer: 3-17 feet, west to northwest flow
Surface water	Boise River (200 feet northwest) Onsite canals and ditches: Roedel Ditch, Riverside Canal, West End Drain, Eureka Canal, North Drain, South Drain, and Dixie Slough Boise River: Agricultural irrigation, Cold water biota, Primary contact recreation Canals and Drains: Agricultural irrigation

3. Compliance Schedule for Required Activities

Compliance Activity (CA) Number and Completion Due Date	Compliance Activity Description
CA-008-01 As specified	<p>The facility shall update the Waste Solids Management Plan, Buffer Zone Plan, Odor Control Plan, and the Plan of Operations (PO) as appropriate. The updated plans shall be submitted to DEQ for review and approval within six (6) months of permit issuance.</p> <p>In the appropriate plan, include a discussion of the following items:</p> <ol style="list-style-type: none"> 1. Non-volatile Dissolved Solids (NVDS) management in land applied recycled water, and how the ratio of MBR effluent to RO permeate will be determined. 2. Plant operation during periods of shut down. 3. Nuisance odor management when emergency lagoons are being used. 4. Buffer zone protection under the new irrigation scenario. The plan shall include a scaled site map delineating buffer zones to homes, public access areas, public and private wells and surface water bodies to demonstration compliance with the buffer zone requirements in Section 4.4. The plan shall include discussion of mitigation measures applied when the buffer zones aren't met, and shall discuss well location acceptability analyses for wells that fall within the buffer zones. If any new well is located that has not been previously approved, a well location acceptability analysis shall be performed. <p>A Crop Management Plan for the coming year shall be submitted by March 31 of each year for DEQ review and comment. The plan shall include the crops to be grown on each HMU, and shall include a Nitrogen Management Plan for maintaining compliance with the total nitrogen limits in Section F of this permit. The plan shall address crop needs and anticipated yields, and shall take into consideration soil nitrogen concentrations. Include a discussion of what improvements have been implemented during the previous year to improve the farming practices and management of the land application site, and management improvements planned for the coming year. Include a discussion of the effectiveness of previous year's plan. These plan submittals may be discontinued if DEQ determines that they are no longer necessary and gives the permittee approval to stop.</p> <p>The Crop Management Plan, Nitrogen Management Plan and Plan of Operations are required to be submitted for DEQ review and approval. Once approved, they shall be implemented by the permittee, but shall not be enforceable as part of the permit.</p> <p>The Waste Solids Management Plan, Buffer Zone Plan, Odor Control Plan and PO shall be updated as needed to reflect current operations. The permittee shall notify DEQ of material changes to the PO and copies shall be kept on site and made available to DEQ upon request.</p>

Compliance Activity (CA) Number and Completion Due Date	Compliance Activity Description
CA-008-02 Six (6) months after permit issuance	<p>Quality Assurance Project Plan (QAPP): The permittee shall prepare and implement a QAPP that incorporates all monitoring and reporting required by this permit. A copy of the QAPP along with written notice that the permittee has implemented the QAPP shall be provided to DEQ.</p> <p>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:</p> <ol style="list-style-type: none"> 1. Details on the number of measurements, number of samples, type of sample containers, preservation of samples, holding times, analytical methods, analytical detection, and quantitation limits for each target compound, type and number of quality assurance field samples, precision and accuracy requirements, sample preparation requirements, sample shipping methods, and laboratory data delivery requirements. 2. Maps indicating the location of each monitoring, and sampling point. 3. Qualification and training of personnel. 4. Names, addresses, and telephone numbers of the laboratories used by or proposed to be used by the permittee. 5. Example formats and tables that will be used by the permittee to summarize and present all data in the annual report. <p>The format and content of the QAPP should adhere to the recommendations and references in the Quality Assurance and Data Processing sections of the DEQ Guidance.</p> <p>The permittee shall amend the QAPP whenever there is a modification in sample collection, sample analysis, or other procedure addressed by the QAPP. The permittee shall notify DEQ of material changes to the QAPP and copies shall be kept on site and made available to DEQ upon request.</p>
CA-008-03 As specified	<p>Phosphorus Reduction and Mitigation Plan: Within six (6) months of completion of the monitoring phase (continuation of CA-008-03 of LA-000008-03), the permittee shall submit for DEQ review and approval a Phosphorus Reduction and Mitigation Plan describing all site activities undertaken to meet their fifty percent (50%) reduction goal, interpreting the results of the drain monitoring, and determining the need for and proposing additional mitigation efforts, if warranted. The plan shall include a schedule of implementation for the selected mitigation plan(s) and the project shall be completed in accordance with the approved schedule.</p>
CA-008-04 Six (6) Months prior to reuse irrigation on Land and Livestock	<p>Land and Livestock Fields Management Plan: The permittee shall evaluate the suitability of the Land and Livestock fields (also known as the former feedlot) for application of reuse water and submit a plan for DEQ review and approval prior to conversion of any portion of the acreage. A separate plan is required for each area converted. The plan shall include a description of the irrigation type to be installed as well as soil characterization showing that permitted application rates will not detrimentally affect surrounding land and water uses and ground water quality. Upon approval of the plan, the approved area will be added to the permitted site and given unique serial numbers.</p>

Compliance Activity (CA) Number and Completion Due Date	Compliance Activity Description												
CA-008-05 As Specified	<p>Seepage Testing: The following table shows the date by which the permittee shall complete seepage testing on the specified lagoons:</p> <table border="1" data-bbox="459 551 1332 842"> <thead> <tr> <th>Lagoon:</th> <th>Seepage Test Due Date:</th> </tr> </thead> <tbody> <tr> <td>Evaporation Lagoon 1, 2 and 3 (individually or combined)</td> <td>Prior to Use</td> </tr> <tr> <td>Emergency Storage Lagoon 1</td> <td>Prior to Use</td> </tr> <tr> <td>Emergency Storage Lagoon 2</td> <td>Prior to Use</td> </tr> <tr> <td>Effluent Storage Pond</td> <td>July, 2016</td> </tr> <tr> <td>Silt Water Pond</td> <td>No requirement this permit term. Tested last in July, 2011</td> </tr> </tbody> </table> <p>Submit to DEQ for review and approval a proposed schedule and procedure for performing the required seepage tests at least 42 days prior to the planned seepage test. Seepage test procedures are available at: http://www.deq.idaho.gov/water-quality/wastewater/lagoon-seepage-testing.aspx The seepage test procedures shall be sealed by the Idaho licensed professional engineer or professional geologist in responsible charge for the test.</p> <p>Seepage tests shall be completed in accordance with the procedures approved by DEQ. The seepage test report shall be sealed by the person in responsible charge and submitted within 90 days after completion of the seepage test.</p> <p>The lagoons shall not be put into service until seepage test results show a seepage rate of 0.125 in/day or less.</p>	Lagoon:	Seepage Test Due Date:	Evaporation Lagoon 1, 2 and 3 (individually or combined)	Prior to Use	Emergency Storage Lagoon 1	Prior to Use	Emergency Storage Lagoon 2	Prior to Use	Effluent Storage Pond	July, 2016	Silt Water Pond	No requirement this permit term. Tested last in July, 2011
Lagoon:	Seepage Test Due Date:												
Evaporation Lagoon 1, 2 and 3 (individually or combined)	Prior to Use												
Emergency Storage Lagoon 1	Prior to Use												
Emergency Storage Lagoon 2	Prior to Use												
Effluent Storage Pond	July, 2016												
Silt Water Pond	No requirement this permit term. Tested last in July, 2011												
CA-008-06 As specified	<p>Monitoring Well Abandonment and Replacement: MW-3, MW-19, MW-21, MW-23 and MW-39, which are located within the new irrigation acreage, shall be properly abandoned, and documentation of their abandonment shall be submitted to DEQ within three (3) months of permit issuance.</p> <p>Also within three (3) months of permit issuance, submit to DEQ for review and approval a plan for replacement of MW-19, MW-23, and MW-39. Include in the plan a schedule for completion of replacement. As part of the proposal, include a discussion of ground water flow direction and the capture zones of the new well locations.</p> <p>Within one year of permit issuance, submit to DEQ for review and approval an evaluation of the existing ground water monitoring well network. If the monitoring well network is determined to be insufficient, include in the evaluation plans for a modified ground water monitoring well network that will provide sufficient ground water quality data to characterize the impacts of the reuse activities and land and livestock areas, and an implementation schedule for any recommended changes to the ground water monitoring well network.</p>												
CA-008-07 Prior to use of landscape area	<p>Landscape Area Map: Submit a scaled map of all areas where RO Return water will be used for landscape irrigation. Include acreages, irrigation type and layout, and runoff prevention measures.</p>												

Compliance Activity (CA) Number and Completion Due Date	Compliance Activity Description
CA-008-08 One (1) year prior to permit expiration	Pre-Application Workshop: If the permittee intends to continue operating the reuse facility beyond the expiration date of this permit, the permittee shall contact DEQ and schedule a pre-application workshop to discuss the compliance status of the facility and the content required for the reuse permit application package.
CA-008-09 180 days prior to permit expiration	Renewal Permit Application: The permittee shall submit to DEQ a complete permit renewal application package, which fulfills the requirements specified at the pre-application workshop identified in CA-008-08.

4. Permit Limits and Conditions

4.1 Hydraulic Management Unit Descriptions

Serial Number	Description ^a	Irrigation System Type and Irrigation Efficiency (E _i) ^b	Maximum Acres ^c Allowed
MU-000809	Fields 809.1-11 PS-4	Pivot (E _i – 0.8) Handline (E _i – 0.75)	154.3
MU-000810	Fields 810.1-6 PS-4	Pivot (E _i – 0.8) Handline (E _i – 0.75)	140.2
MU-000811	Fields 811.1-13 PS-4	Pivot (E _i – 0.8) Handline (E _i – 0.75)	153.8
MU-000815	Fields 815.1-9 PS-5	Pivot (E _i – 0.8) Handline (E _i – 0.75) Wheel Line (E _i – 0.75)	230.7
MU-000816	Fields 816.1-8 PS-5	Pivot (E _i – 0.8) Handline (E _i – 0.75) Wheel Line (E _i – 0.75)	165.3
MU-000817	Fields 817.1-20 PS-3	Pivot (E _i – 0.8) Handline (E _i – 0.75) Wheel Line (E _i – 0.75)	232.2
MU-000819	Fields 819.1-7 PS-2	Pivot (E _i – 0.8) Handline (E _i – 0.75)	155.8
MU-000820	Fields 820.1-7 PS-2	Pivot (E _i – 0.8) Handline (E _i – 0.75)	143.6
MU-000821	Fields 821.1-5 PS-2	Pivot (E _i – 0.8) Handline (E _i – 0.75)	162.6

MU-000822	Fields 822.1-4 PS-2	Pivot ($E_i - 0.8$) Handline ($E_i - 0.75$)	127.9
MU-000823	Fields 823.1-5 PS-6	Pivot ($E_i - 0.8$) Handline ($E_i - 0.75$)	88.5
MU-000824	Field 824.1 PS-2	Linear System ($E_i - 0.87$)	123.0
MU-000825	Fields 825.1-4 PS-5	Wheel Line ($E_i - 0.75$)	130.5
MU-000826	Fields 826.1-8 PS-5	Pivot ($E_i - 0.8$) Handline ($E_i - 0.75$)	147.4
Total acreage			2155.8

- a. Field descriptions are included in Section 11.
- b. Irrigation efficiencies apply unless a DEQ approved Plan of Operation indicates that other efficiencies are appropriate.
- c. Maximum acres represent the total permitted acreage of the MU as provided by the permittee. If the permittee uses less acreage in any season or year, then loading rates shall be presented and compliance shall be determined based on the actual acreage utilized during each season or year.

4.2 Hydraulic Loading Limits

Serial Number	Growing Season Hydraulic Loading	Nongrowing Season Maximum Hydraulic Loading, inches ^a
MU-000809	Substantially at the irrigation water requirement (IWR) ^b	5.44 (No nongrowing season application on fields 809.8, 809.9, 809.10 and 809.11)
MU-000810		6.24
MU-000811		6.04
MU-000815		7.14
MU-000816		5.24
MU-000817		5.64
MU-000819		8.04
MU-000820		8.04
MU-000821		7.04 (No nongrowing season application on fields 821.4 and 821.5)
MU-000822		8.04
MU-000823		7.94
MU-000824		5.95

MU-000825		6.11
MU-000826		5.27

- a. Record daily, as necessary, abnormal conditions as a result of nongrowing season application including ponding, excessive ice buildup, or runoff from the permitted site.
- b. For compliance purposes, the source of P_{def} data used to calculate the IWR shall be specified in the PO.

4.3 Constituent Loading Limits

Serial Number	Constituent Loading (from all sources)			
	Nitrogen (lb/acre)	Salt (NVDS) (lb/acre)	COD growing season (lb/acre-day) ^a	COD non-growing season (lb/acre-day) ^a
MU-000809	150% of typical crop uptake ^b	NA	50	50
MU-000810				
MU-000811				
MU-000815				
MU-000816				
MU-000817				
MU-000819				
MU-000820				
MU-000821				
MU-000822				
MU-000823				
MU-000824				
MU-000825				
MU-000826				

- a. COD limit are expressed in pounds per acre per day (lb/acre-day) based on a seasonal average.
- b. Typical crop uptake is the median constituent crop uptake from the 3 most recent years the crop has been grown. For crops having less than 3 years of on-site crop uptake data, other crop yield data or nutrient content values may only be used if approved in writing by DEQ in advance of use. If written approval is not provided by DEQ, compliance with the 150% nitrogen loading limit shall be determined by comparing the current year nitrogen loading to the current year nitrogen uptake.

4.4 Management Unit Buffer Zones

Serial Number	Buffer Distances (in feet) from Hydraulic Management Units					
	Public Water Supplies ^a	Private Water Supplies ^a	Inhabited Dwellings ^b	Permanent and Intermittent Surface Water ^b	Irrigation Ditches and Canals ^b	Areas Accessible to the Public ^b
MU-000809	1,000	500	300	100	50	50
MU-000810						
MU-000811						
MU-000815						
MU-000816						
MU-000817						
MU-000819						
MU-000820						
MU-000821						
MU-000822						
MU-000823						
MU-000824						
MU-000825						
MU-000826						

^a Buffer zone distances apply unless a DEQ approved Well Location Acceptability Analysis indicates an alternative buffer zone is acceptable.

^b Buffer zone distances apply unless a DEQ approved Buffer Zone Plan indicates that reduced buffer zones are acceptable due to DEQ approved mitigation measures.

4.5 Other Permit Limits and Conditions

Category	Permit Limits and Conditions
Growing season	April 1 through October 31 (214 days)
Nongrowing season	November 1 through March 31 (151 days)
Reporting year for annual loading rates	November 1 through October 31
Allowed Uses of RO Return Water	<p>Process facility non-potable uses (including but not limited to pump tank make up, floor/equipment cleaning, gutter flushing, product transport, boiler makeup water, and potato washing)</p> <p>Process building toilet flushing</p> <p>Process facility site landscape irrigation (recycled water use for landscape irrigation is restricted to RO Return water)</p>
RO Return Water	Limits on the quantity or quality of the reverse osmosis permeate for process facility non-potable uses are not imposed under the terms of this permit. Any determination of the quantity or quality required for the uses proposed is deferred to the Food and Drug Administration or other regulatory body.
Grazing	Prior to grazing, the permittee shall submit a grazing management plan and receive written approval from DEQ.
Posting	Signs reading "Irrigated with Reclaimed Wastewater – Do Not Drink" or equivalent at each gate.
Construction plans	Pursuant to Idaho Code §39-118, IDAPA 58.01.16, and IDAPA 58.01.17, detailed plans and specifications shall be submitted to DEQ for review and approval prior to construction, modification, or expansion of any wastewater treatment, storage, conveyance structures, or reuse facility. Inspection requirements shall be satisfied and within 30 days of completion of construction and the permittee shall submit as-built plans or a letter from an Idaho Professional Engineer certifying the facilities or structures were constructed in substantial accordance with the approved plans and specifications.
Backflow prevention and testing requirements	Backflow prevention is required to protect surface water and ground water from an unauthorized discharge of recycled water or wastewater. Refer to section 9.1.1 of this permit.
Records retention requirements	Keep records generated to meet the requirements of this permit for the duration of permit, including administrative extensions, plus 2 years.

5. Monitoring Requirements

5.1 Recycled Water and Supplemental Irrigation Water Sampling and Analyses

5.1.1 Constituent Monitoring

Monitoring Point Serial Number and Location	Sample Description	Sample Type and Frequency	Constituents (Units in mg/L Unless Otherwise Specified)
WW-000801 – Process Water Effluent from LG-000803	Recycled process water to land application	Composite/monthly (during periods of use)	- Total Kjeldahl nitrogen, as N - Nitrite + nitrate-nitrogen, as N - Total phosphorus, as P - Non-volatile dissolved solids - Chemical Oxygen Demand
WW-000806 – Silt Water Effluent from LG-000802	Recycled silt water to land application	Composite/monthly (during periods of use)	- Total Kjeldahl nitrogen, as N - Nitrite + nitrate-nitrogen, as N - Total phosphorus, as P - Non-volatile dissolved solids - Chemical Oxygen Demand
WW-000807 – BVF Effluent WW-000808 – Filtered Effluent WW-000809 – RO Permeate	Water to LG-000803	Composite/monthly	- Total Kjeldahl nitrogen, as N - Nitrite + nitrate-nitrogen, as N - Total phosphorus, as P - Non-volatile dissolved solids
WW-000810 – RO Return Water	Water to Processing Plant	Grab/monthly	- Total Coliform (presence/absence)
WW-000801 – Process Recycle Water Effluent from LG-000803 WW-000806 – Silt Recycle Water Effluent from LG-000802 WW-000807 – BVF Effluent WW-000808 – Filtered Effluent WW-000809 – RO Permeate	Recycled Water Sources	Composite/Semi-annually (April and October)	- Total Dissolved Inorganic Solids The summation of chemical concentration results in mg/L for the following common ions: calcium, magnesium, potassium, sodium, chloride, sulfate, and 0.6 times alkalinity (alkalinity expressed as calcium carbonate). Nitrate, Silica and fluoride shall be included if present in significant quantities (i.e. > 5 mg/L each)
WW-000812 – Clarifier Effluent	Clarified Effluent to Land Application	Grab/monthly (when clarifier effluent is directly land applied)	- Total Kjeldahl nitrogen, as N - Nitrite + nitrate-nitrogen, as N - Total phosphorus, as P - Non-volatile dissolved solids - Chemical Oxygen Demand

Monitoring Point Serial Number and Location	Sample Description	Sample Type and Frequency	Constituents (Units in mg/L Unless Otherwise Specified)
SW-000801 – Dixie Drain SW-000802 – Pioneer Irrigation District	Supplemental Irrigation Water	Grab/monthly (during periods of use)	- Total Kjeldahl nitrogen, as N - Nitrite + nitrate-nitrogen, as N - Total phosphorus, as P - Non-volatile dissolved solids - Chemical Oxygen Demand
SW-000803 – Onsite Drains	As specified per CA-008-03	As specified per CA-008-03	- Total phosphorus, as P

5.1.2 Management Unit and Other Flow Monitoring

Management Unit or Flow Measurement Serial Number and Location	Sample Description	Sample Type and Frequency	Measured Parameters, each MU
FM-000801 FM-000802 FM-000803 FM-000804 FM-000805 – Pump Stations 1-5	Process Water from LG-000803 to land application	- Daily meter reading - Monthly compilation of data	- Volume (MG/month) - Application depth (inches/month)
FM-000806 – Pump Station 6	Silt water at outlet of LG-000802 to land application	- Daily meter reading - Monthly compilation of data	- Volume (MG/month) - Application depth (inches/month)
FM-000807 – BVF Effluent FM-000808 – Filtered Effluent FM-000809 – RO Permeate	Recycled Water to LG-000803	- Daily meter reading - Monthly compilation of data	- Volume (MG/month)
FM-000810 – RO Return Water	RO Return Water to Processing Plant	- Daily meter reading - Monthly compilation of data	- Volume (MG/month)
FM-000811 – RO Reject Water	Reject Water to Brine Ponds	- Daily meter reading - Monthly compilation of data	- Volume (MG/month)
FM-000812 – Clarifier Effluent	Clarified Effluent to Land Application	- Daily meter reading - Monthly compilation of data	- Volume (MG/month)
SW-000801 – Dixie Drain SW-000802 – Pioneer Irrigation District	Supplemental Irrigation Water	- Daily meter reading - Monthly compilation of data	- Volume (MG/month) - Application depth (inches/month)

5.2 Ground Water Monitoring

5.2.1 Ground Water Monitoring Point Descriptions

Monitoring Point Serial Number	Common Designation	Well Type	Gradient Location
GW-000801	MW 1	Monitoring well	Downgradient
GW-000802	MW 2	Monitoring well	Downgradient
GW-000804	MW 4	Monitoring well	Midgradient
GW-000805	MW 5	Monitoring well	Midgradient
GW-000806	MW 6	Monitoring well	Downgradient
GW-000809	MW 9	Monitoring well	Midgradient
GW-000811	MW-11	Monitoring well	Midgradient
GW-000812	MW 12	Monitoring well	Upgradient
GW-000813	MW 13	Monitoring well	Midgradient
GW-000814	MW 14	Monitoring well	Upgradient
GW-000815	MW 15	Monitoring well	Midgradient
GW-000816	MW 16	Monitoring well	Midgradient
GW-000817	MW 17	Monitoring well	Downgradient
GW-000818	MW 18	Monitoring well	Downgradient
GW-000819A	MW 19A	Monitoring well	Midgradient
GW-000820	MW 20	Monitoring well	Midgradient
GW-000824	MW 24	Monitoring well	Midgradient
GW-000827	MW 27	Monitoring well	Upgradient
GW-000830	MW 30	Monitoring well	Downgradient
GW-000831	MW 31	Monitoring well	Downgradient
GW-000832	MW 32	Monitoring well	Midgradient
GW-000833A	MW 21A	Monitoring well	Midgradient
GW-000838	S1	Monitoring well	Upgradient
GW-000839	S2	Monitoring well	Midgradient
GW-000840	S3	Monitoring well	Midgradient
GW-000841	S4	Monitoring well	Downgradient
GW-000842	S5	Monitoring well	Midgradient
GW-000845	MW 35	Monitoring well	Midgradient
GW-000846	MW 36	Monitoring well	Upgradient
GW-000847	MW 37	Monitoring well	Upgradient

GW-000848	MW 38	Monitoring well	Downgradient
GW-000849A	MW 39A	Monitoring well	Downgradient
GW-000850	MW 40	Monitoring well	Upgradient

5.2.2 Ground Water Monitoring, Sampling, and Analyses

Monitoring Point Serial Number	Sampling Point Description	Sample Type and Frequency	Constituents (Units in mg/L Unless Otherwise Specified)
GW-000801 GW-000802 GW-000804 GW-000805 GW-000806 GW-000809 GW-000811 GW-000812 GW-000813 GW-000814 GW-000815 GW-000816 GW-000817 GW-000818 GW-000819A GW-000820 GW-000824 GW-000827 GW-000830 GW-000831 GW-000832 GW-000833A GW-000838 GW-000839 GW-000840 GW-000841 GW-000842 GW-000845 GW-000846 GW-000847 GW-000848 GW-000849A GW-000850	Monitoring wells	Unfiltered grab sample/twice annually (unless otherwise specified): April and October	<ul style="list-style-type: none"> - Water table elevation (feet) - Water table depth (feet) - Nitrate-nitrogen, as N - Total phosphorus, as P - Total Dissolved Solids - pH (Standard Units) - Specific conductance/electrical conductivity (µmhos/cm) - Temperature (°C) - Dissolved Iron - Dissolved Manganese - Chloride - Sulfate, as S

5.3 Soil Monitoring

5.3.1 Soil Monitoring Unit Descriptions

Monitoring Point Serial Number	Description	Associated Hydraulic Management Unit
SU-000809	Fields 809.1-11	MU-000809
SU-000810	Fields 810.1-6	MU-000810
SU-000811	Fields 811.1-13	MU-000811
SU-000815	Fields 815.1-9	MU-000815
SU-000816	Fields 816.1-8	MU-000816
SU-000817	Fields 817.1-20	MU-000817
SU-000819	Fields 819.1-7	MU-000819
SU-000820	Fields 820.1-7	MU-000820
SU-000821	Fields 821.1-5	MU-000821
SU-000822	Fields 822.1-4	MU-000822
SU-000823	Fields 823.1-5	MU-000823
SU-000824	Field 824.1	MU-000824
SU-000825	Fields 825.1-4	MU-000825
SU-000826	Fields 826.1-8	MU-000826

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-000809 SU-000810 SU-000811 SU-000815 SU-000816 SU-000817	Composite samples ^a	Semiannually (February, October)	- Electrical conductivity (µmhos/cm in saturated paste extract) - Nitrate-nitrogen - Ammonium nitrogen - Plant available phosphorus - pH (standard units)
SU-000819 SU-000820 SU-000821 SU-000822 SU-000823 SU-000824 SU-000825 SU-000826	Composite samples ^a	February and October of 2015 and 2019 only	- Percent Organic Matter - Sodium Absorption Ratio

a. The number of sample locations specified in the PO or QAPP for each 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 samples obtained from each depth shall be composited by depth to yield three composite samples for each soil monitoring unit; one composite sample for each depth.

5.4 Plant Tissue Monitoring

5.4.1 Crop Harvest Monitoring

Associated Hydraulic Management Units	Sample Type	Sample Frequency	Parameters ^a
MU-000809 MU-000810 MU-000811 MU-000815 MU-000816 MU-000817 MU-000819 MU-000820 MU-000821 MU-000822 MU-000823 MU-000824 MU-000825 MU-000826	Harvested portion, each crop, each MU	Each harvest	- Crop type - Harvest date - Sample collection date - Harvested acreage (acres) - As-harvested ('wet') yield in customary harvested units (tons, bushels, cwt, etc.). - As-harvested (field) moisture content (%) - Dry yield (lb)

a. Documentation of reported yields shall be provided for each harvest from each MU.

5.4.2 Plant Tissue Monitoring

Associated Hydraulic Management Units	Sample Type	Sample Frequency	Parameters ^a
MU-000809 MU-000810 MU-000811 MU-000815 MU-000816 MU-000817 MU-000819 MU-000820 MU-000821 MU-000822 MU-000823 MU-000824 MU-000825 MU-000826	Harvested portion, each crop, each harvest	Each harvest	- Moisture content (%); - Total Kjeldahl nitrogen (%); - Nitrate nitrogen, as N (ppm) - Phosphorus as P (ppm) - Ash (%)

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

5.5 Lagoon Information

Serial number	Description	Surface Area, acres	Maximum Operating Volume, MG	Liner Type
LG-000802	Silt water storage lagoon	1.6	2.0	HDPE
LG-000803	Process wastewater storage lagoon	10	28	HDPE
LG-000804	Evaporation Lagoon 1	22	9.84	HDPE
LG-000805	Evaporation Lagoon 2		9.84	HDPE
LG-000806	Evaporation Lagoon 3		9.84	HDPE
LG-000807	Drying Bed 1	10	8.69	HDPE
LG-000808	Drying Bed 2		8.69	HDPE
LG-000809	Emergency Spill Lagoon 1	--	1.5	HDPE
LG-000810	Emergency Spill Lagoon 2	--	1.5	HDPE

6. Reporting Requirements

6.1 Annual Report Requirements

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

6.1.1 Due Date

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

6.1.2 Required Contents

The Annual Report shall include the following:

1. A brief interpretive discussion of all required monitoring data. The discussion shall address data quality objectives, validation, and verification; permit compliance; and reuse facility environmental impacts. The reporting year for this permit is specified in section 4.5.
2. Results of the required monitoring as described in section 5 of this permit. If the permittee monitors any parameter for compliance purposes more frequently than required by this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the Annual Report. The report shall present all monitoring data in organized data summary tables to expedite review.
3. Status of all work described in section 3 of this permit.
4. Results of all backflow testing, repairs, and replacements required by Section 9.1.1 of this permit.
5. Discussion of major maintenance activities such as major equipment replacement, lagoon liner maintenance, and wastewater treatment and reuse facility maintenance.
6. A summary of all noncompliance events that occurred during the reporting year. Examples of noncompliance events that must be discussed include, but are not limited to: complaints, missed monitoring events, incorrect monitoring dates or frequencies, dry monitoring wells, uncontained spills causing runoff, construction without DEQ engineering plan approval, construction without engineering inspection, and reporting incorrect acreage.
7. Submittal of the calculations and observations for hydraulic management units specified in the table below.
8. All laboratory analytical reports, chain of custody forms, and crop yield documentation.
9. The parameters in the following table:

Monitoring Point Serial Number	Parameter (Calculate for each MU)	Units
MU-000809 MU-000810	Recycled water loading rate	Million gallons/month Inches/month
MU-000811 MU-000815 MU-000816	Irrigation water loading rate	Million gallons/month Inches/month
MU-000817 MU-000819	Irrigation water requirement (IWR) for each crop grown	Inches/month Inches/GS
MU-000820 MU-000821 MU-000822	COD loading rate: growing season seasonal average	Pounds/acre-day
MU-000823 MU-000824 MU-000825 MU-000826	COD loading rate: nongrowing season seasonal average	Pounds/acre-day
	Recycled water nitrogen, phosphorus, and NVDS loading rates	Pounds/acre-year
	Supplemental Irrigation water nitrogen, phosphorus, and NVDS loading rates	Pounds/acre-year
	Fertilizer nitrogen and phosphorus application rates, reported as elemental N and P	Pounds/acre-year
	Waste solids nitrogen and phosphorus application rates	Pounds/acre-year
	Crop harvest and yield Report each harvest and the annual totals for each MU.	Crop types harvested Total harvested area (acres) Total 'wet' yield (lb/yr, lb/acre-yr) Total 'dry' yield (lb/yr, lb/acre-yr)
	Crop nitrogen, phosphorus, and ash removal rates (dry-basis) Report each harvest and the annual totals for each MU.	Pounds-N/acre-year Pounds-P/acre-year Pounds Ash/acre-year
<p>Other Reporting Requirements:</p> <ol style="list-style-type: none"> All uses of RO Return Water usage (e.g. landscape irrigation, boiler makeup water, etc.) Report of RO Return Water process data: monthly average of pH, conductivity, chlorine residual (as collected from RO Return Water Monitoring), and results of bacteriological tests. Report of RO Return Water volume: total monthly volume recycled within the facility (MG/mo), total monthly volume used for landscape irrigation (MG/mo). Evaporation beds volume and transfer records: volume of RO reject water to evaporation beds (MG/yr), records of transfer from evaporation beds to drying beds (dates, estimate of quantity), records of solids or liquid removal from drying beds (dates, estimate of quantity in MG or tons) 		

6.1.3 Submittals

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

1. Permit applications shall be signed as follows:
 - a. For a corporation: by a responsible corporate officer;
 - b. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively;
 - c. For a municipality, state, federal, Indian tribe, or other public agency: by either the principal executive officer or ranking elected official.
2. Annual reports and other information requested by DEQ shall be signed by the responsible official or by a duly authorized representative of that person. A person is a duly authorized representative only if:
 - a. The authorization is made in writing by the responsible official;
 - b. The authorization specifies either an individual or position having responsibility for the overall operation of the regulated facility, such as the position of plant manager, superintendent, position of equivalent responsibility, or an individual having overall responsibility for environmental matters for the company; and
 - c. The written authorization is submitted to DEQ.

Submit the annual report to the following DEQ regional office at this address:

Engineering Manager
Idaho Department of Environmental Quality
Boise Regional Office
1445 N. Orchard St.
Boise, ID 83706

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

"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."

6.2 Emergency and Noncompliance Reporting

Report noncompliance incidents to DEQ's regional office at (208) 373-0550 or 1-888-800-3480.

In case of emergencies, call the emergency 24-hour number at 1-800-632-8000 and DEQ's regional office.

See Section 8, "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 and EPA Hot Line (206) 553-1846

7. Permit for Use of Industrial Recycled Water

The following are permit requirements for industrial recycled water and are included as terms of this permit as required by the “Recycled Water Rules,” (IDAPA 58.01.17.616).

616. PERMIT FOR USE OF INDUSTRIAL RECYCLED WATER.

Industrial recycled water shall only be used in accordance with a permit issued pursuant to these rules. Permit conditions and limitations shall be developed by the Department on a case-by-case basis taking into account the specific characteristics of the wastewater to be recycled, the treatment necessary to ensure the use of such recycled water is in compliance with IDAPA 58.01.11, “Ground Water Quality Rule” and IDAPA 58.01.02, “Water Quality Standards.” Unless otherwise indicated in this section, the permit application, processing and issuance procedures provided in this rule shall apply to industrial reuse permits. (4-7-11)

8. Standard Permit Conditions

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

500. STANDARD PERMIT CONDITIONS.

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

01. **Compliance Required.** The permittee shall comply with all conditions of the permit. (4-1-88)
02. **Renewal Responsibilities.** If the permittee intends to continue operation of the permitted facility after the expiration of an existing permit, the permittee shall apply for a new permit in accordance with these rules. (4-1-88)
03. **Operation of Facilities.** The permittee shall at all times properly maintain and operate all structures, systems, and equipment for treatment, control and monitoring, which are installed or used by the permittee to achieve compliance with the permit or these rules. (4-1-88)
04. **Provide Information.** The permittee shall furnish to the Director within a reasonable time, any information including copies of records, which may be requested by the Director to determine whether cause exists for modifying, revoking, re-issuing, or terminating the permit, or to determine compliance with the permit or these rules. (4-1-88)
05. **Entry and Access.** The permittee shall allow the Director, consistent with Title 39, Chapter 1, Idaho Code, to:
 - a. Enter the permitted facility. (4-1-88)
 - b. Inspect any records that must be kept under the conditions of the permit. (4-1-88)
 - c. Inspect any facility, equipment, practice, or operation permitted or required by the permit. (4-1-88)
 - d. Sample or monitor for the purpose of assuring permit compliance, any substance or any parameter at the facility. (4-1-88)
06. **Reporting.** The permittee shall report to the Director under the circumstances and in the manner specified in this section: (4-1-88)

a. In writing at least thirty (30) days before any planned physical alteration or addition to the permitted facility or activity if that alteration or addition would result in any significant change in information that was submitted during the permit application process. When the alteration or addition results in a need for a major modification, such alteration or addition shall not be made prior to Department approval issued in accordance with these rules. (4-7-11)

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

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

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

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

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

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

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

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

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

9. General Permit Conditions

The following general permit conditions are 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.

9.1 Operations

9.1.1 Backflow Prevention

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

For public water systems, backflow assemblies shall meet the requirements of IDAPA 58.01.08.543. Assemblies shall be adequately maintained and shall be tested annually by a certified backflow assembly tester, and repaired or replaced as necessary to maintain operational status.

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

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

Discharge of recycled water to surface water is authorized by the EPA NPDES program. An NPDES permit is required for any discharge to surface water and backflow prevention shall be implemented to prevent any unauthorized discharge. Backflow prevention assemblies or devices used to protect surface water shall be adequately operated and maintained.

Records of all testable backflow assembly test results, repairs, and replacements shall be kept at the reuse facility along with other operational records, and shall be discussed in the Annual Report and made available for inspection by DEQ. Other approved means of backflow prevention, such as siphons and air-gap structures that cannot be tested, shall be maintained in operable order.

9.1.2 Restricted to Premises

Wastewaters or recharge waters applied to the land surface must be restricted to the premises of the application site. Wastewater discharges to surface water that require a permit under the Clean Water Act must be authorized by the United States Environmental Protection Agency (IDAPA 58.01.16.600.02).

9.1.3 Health Hazards, Nuisances, and Odors Prohibited

Health hazards, nuisances, and odors are prohibited as follows:

- Wastewater must not create a public health hazard or nuisance condition (IDAPA 58.01.16.600.03).
- No person shall allow, suffer, cause or permit the emission of odorous gases, liquids, or solids into the atmosphere in such quantities as to cause air pollution (IDAPA 58.01.01.776.01).
- Air Pollution. The presence in the outdoor atmosphere of any air pollutant or combination thereof in such quantity of such nature and duration and under such conditions as would be injurious to human health or welfare, to animal or plant life, or to property, or to interfere unreasonably with the enjoyment of life or property (IDAPA 58.01.01.006.06).

9.1.4 Solids Management

Biosolids are the nutrient-rich organic materials resulting from the treatment of sewage sludge. When treated and processed, sewage sludge becomes biosolids which can be safely recycled and applied as fertilizer to sustainably improve and maintain productive soils and stimulate plant growth.

Biosolids generated from sewage sludge are regulated by EPA under 40 CFR Part 503 and require a DEQ approved sludge disposal plan as outlined in IDAPA 58.01.16.650. Contact DEQ prior to application of biosolids at any permitted reuse facility.

Sludge is the semi-liquid mass produced and removed by wastewater treatment processes. This does not include grit, garbage, and large solids.

Sludge is generated by wastewater treatment processes at municipal and industrial facilities.

Solid Waste is any garbage or refuse, sludge from a waste water treatment plant, water supply treatment plant, or air pollution control facility and other discarded material including solid, liquid, semi-solid, or contained gaseous material resulting from industrial, commercial, mining, and agricultural operations and from community activities, but does not include solid or dissolved materials in domestic sewage, or solid or dissolved material in irrigation return flows or industrial discharges which are point sources subject to permits under Section 402 of the Federal Water Pollution Control Act, as amended or source, special nuclear, or by-product material as defined by the Atomic Energy Act of 1954, as amended.

Solid waste does not include inert wastes, manures and crop residues ultimately returned to the soils at agronomic rates, and any agricultural solid waste which is managed and regulated pursuant to rules adopted by the Idaho Department of Agriculture. DEQ reserves the right to use existing authorities to regulate agricultural waste that impacts human health or the environment.

Solid waste is regulated under IDAPA 58.01.06, "Solid Waste Management Rules. Wastes otherwise regulated by DEQ (i.e. this permit) are not regulated under 58.01.06.

Waste Solids include sludge and wastes otherwise regulated by DEQ in accordance with IDAPA 58.01.06.001.03.a.xii. Waste solids may include vegetative waste, silt and mud containing organic matter, and other non-inert solid wastes.

Inert wastes are defined as non-combustible, nonhazardous, and non-putrescible solid wastes that are likely to retain their physical and chemical structure and have a deminimis potential to generate leachate under expected conditions of disposal, which includes resistance to biological attack.

Waste solids require a DEQ approved sludge disposal plan as outlined in IDAPA 58.01.16.650.

9.1.5 Temporary Cessation of Operations and Closure (IDAPA 58.01.17.801)

Temporary cessation of operations and closure must be addressed as follows:

01. Temporary Cessation. A permittee shall implement any applicable conditions specified in the permit for temporary cessation of operations. When the permit does not specify applicable temporary cessation conditions, the permittee shall notify the Director prior to a temporary cessation of operations at the facility greater than sixty (60) days in duration and any cessation not for regular maintenance or repair. Cessation of operations necessary for regular maintenance or repair of a duration of sixty (60) days or less are not required to notify the Department under this section. All notifications required under this section shall include a proposed temporary cessation plan that will ensure the cessation of operations will not pose a threat to human health or the environment. (4-7-11)

02. Closure. A closure plan shall be required when a facility is closed voluntarily and when a permit is revoked or expires. A permittee shall implement any applicable conditions specified in the permit for closure of the facility. Unless otherwise directed by the terms of the permit or by the Director, the permittee shall submit a closure plan to the Director for approval at least ninety (90) days prior to ceasing operations. The closure plan shall ensure that the closed facility will not pose a threat to human health and the environment. Closure plan approval may be conditioned upon a permittee's agreement to complete such site investigations, monitoring, and any necessary remediation activities that may be required. (4-7-11)

9.1.6 Plan of Operation (IDAPA 58.01.17.300.05)

The PO must comply with the following:

05. Reuse Facility Operation and Maintenance Manual or Plan of Operations. A facility's operation and maintenance manual must contain all system components relating to the reuse facility in order to comply with IDAPA 58.01.16 "Wastewater Rules," Section 425. Manuals and manual amendments are subject to the review and approval provision therein. In addition to the content required by IDAPA 58.01.16.425, manuals for reuse facilities shall include, if applicable: operation and management responsibility, permits and standards, general plant description, operation and control of unit operations, land application site maps, wastewater characterization, cropping plan, hydraulic loading rate, constituent loading rates, compliance activities, seepage rate testing, site management plans, monitoring, site operations and maintenance, solids handling and processing, laboratory testing, general maintenance, records and reports, store room and inventory, personnel, an emergency operating plan, and any other information required by the Department. (4-7-11)

9.1.7 Seepage Testing Requirements (IDAPA 58.01.16.493.02.c)

Subsequent Tests. All lagoons covered under these rules must be seepage tested by an Idaho licensed professional engineer, an Idaho licensed professional geologist, or by individuals under their supervision every ten (10) years after the initial testing. (5-8-09)

9.1.8 Ground Water Quality Rule (IDAPA 58.01.11)

The permittee shall comply with the requirements of "Ground Water Quality Rule" (IDAPA 58.01.11).

9.2 Administrative

Requirements for administration of the permit are defined as follows.

9.2.1 Permit Modification (IDAPA 58.01.17.700)

01. Modification of Permits. A permit modification may be initiated by the receipt of a request for modification from the permittee, or may be initiated by the Department if one (1) or more of the following causes for modification exist: (4-7-11)

a. Alterations. There are material and substantial alterations or additions to the permitted facility or activity which occurred after permit issuance which justify the application of permit conditions that are different or absent in the existing permit. (4-7-11)

b. New standards or regulations. The standards or regulations on which the permit was based have been changed by promulgation of amended standards or regulations or by judicial decision after the permit was issued. (4-7-11)

c. Compliance schedules. The Department determines good cause exists for modification of a compliance schedule or terms and conditions of a permit. (4-7-11)

d. Non-limited pollutants. When the level of discharge of any pollutant which is not limited in the permit exceeds the level which may cause an adverse impact to surface or ground waters. (4-7-11)

e. To correct technical mistakes, such as errors in calculation, or mistaken interpretations of law made in determining permit conditions. (4-7-11)

f. When a treatment technology proposed, installed, and properly operated and maintained by the permittee fails to achieve the requirements of the permit. (4-7-11)

9.2.2 Permit Transferable (IDAPA 58.01.17.800)

01. General. A permit may be transferred only upon approval of the Department. No transfer is required for a corporate name change as long as the secretary of state can verify that a change in name alone has occurred. An attempted transfer is not effective for any purpose until approved in writing by the Department. (4-7-11)

9.2.3 Permit Revocation (IDAPA 58.01.17.920)

01. Conditions for Revocation. The Director may revoke a permit if the permittee violates any permit condition or these rules, or the Director becomes aware of any omission or misrepresentation of condition or information relied upon when issuing the permit. (4-7-11)

02. Notice of Revocation. Except in cases of emergency, the Director shall issue a written notice of intent to revoke to the permittee prior to final revocation. Revocation shall become final within thirty-five (35) days of receipt of the notice by the permittee, unless within that time the permittee requests an administrative hearing in writing. The hearing shall be conducted in accordance with IDAPA 58.01.23, Rules of Administrative Procedure before the Board of Environmental Quality.” (5-3-03)

03. Emergency Action. If the Director finds the public health, safety or welfare requires emergency action, the Director shall incorporate findings in support of such action in a written notice of emergency revocation issued to the permittee. Emergency revocation shall be effective upon receipt by the permittee. Thereafter, if requested by the permittee in writing, the Director shall provide the permittee a revocation hearing and prior notice

thereof. Such hearings shall be conducted in accordance with IDAPA 58.01.23, Rules of Administrative Procedure Before the Board of Environmental Quality.” (3-15-02)

04. Revocation and Closure. A permittee shall perform the closure requirements in a permit, the closure requirements of these rules, and complete all closure plan activities notwithstanding the revocation of the permit. (4-7-11)

9.2.4 Violations (IDAPA 58.01.17.930)

Any person violating any provision of these rules or any permit or order issued thereunder shall be liable for a civil penalty not to exceed ten thousand dollars (\$10,000) or one thousand dollars (\$1,000) for each day of a continuing violation, whichever is greater. In addition, pursuant to Title 39, Chapter 1, Idaho Code, any willful or negligent violation may constitute a misdemeanor. (4-1-88)

9.2.5 Severability

The provisions of this permit are severable, and if a provision or its application is declared invalid or unenforceable for any reason, that declaration will not affect the validity or enforceability of the remaining provisions.

10. Other Applicable Laws

DEQ may refer enforcement of the following provisions to the state agency authorized to enforce that rule. The permittee shall comply with all applicable provisions identified in this section, as well as all other applicable federal, state, and local laws, statutes, and rules.

10.1 Owner Responsibilities for Well Use and Maintenance

10.1.1 Well Use

The well owner must not operate any well in a manner that causes waste or contamination of the ground water resource. Failure to operate, maintain, knowingly allow the construction of any well in a manner that violates these rules, or failure to repair or properly decommission (abandon) any well as herein required will subject the well owner to civil penalties as provided by statute. See IDAPA 37.03.09.036.01 and consult the Idaho Department of Water Resources (IDWR) for more information.

10.1.2 Well Maintenance

The well owner must maintain the well to prevent waste or contamination of ground waters through leaky casings, pipes, fittings, valves, pumps, seals, or through leakage around the outside of the casings, whether the leakage is above or below the land surface. Any person owning or controlling a noncompliant well must have the well repaired by a licensed well driller under a permit issued by the IDWR director in accordance with the applicable rules. See IDAPA 37.03.09.036.02 and consult IDWR for more information.

10.1.3 Wells Posing a Threat to Human Health and Safety or Causing Contamination of the Ground Water Resource

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

11. Site Maps and Additional Information

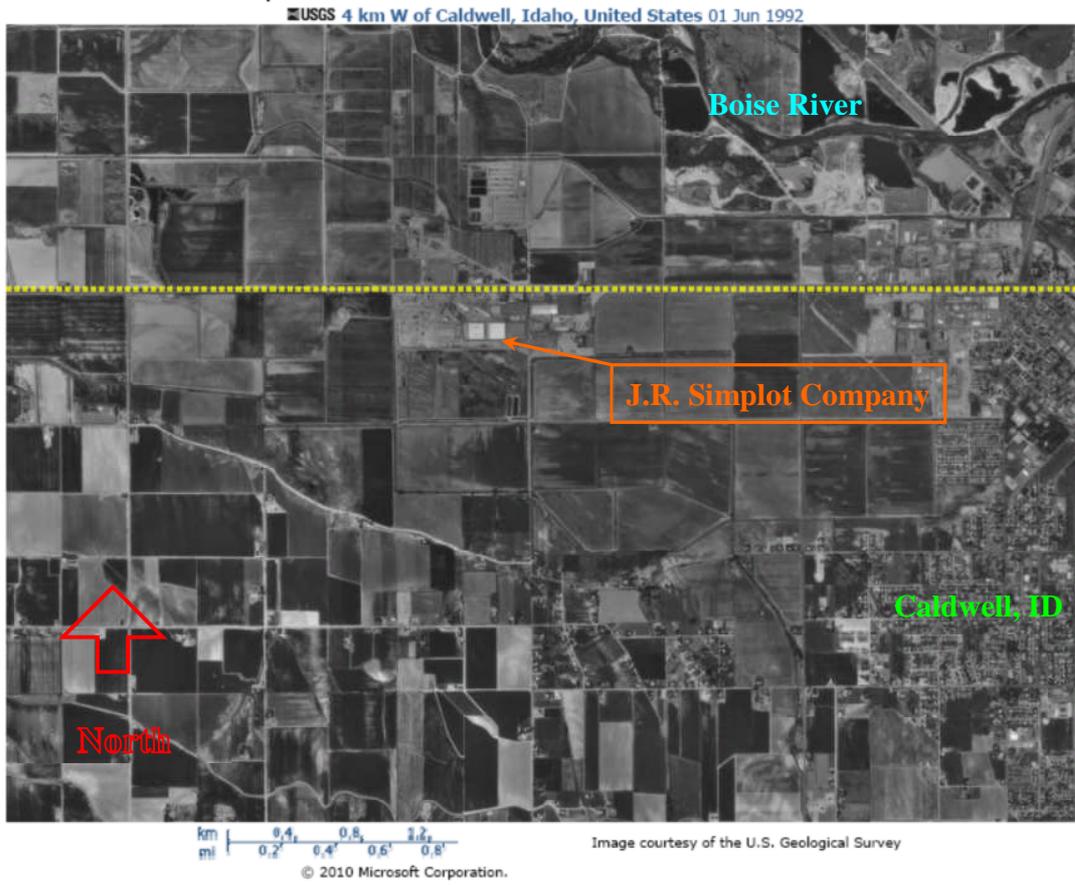
11.1 Vicinity Map

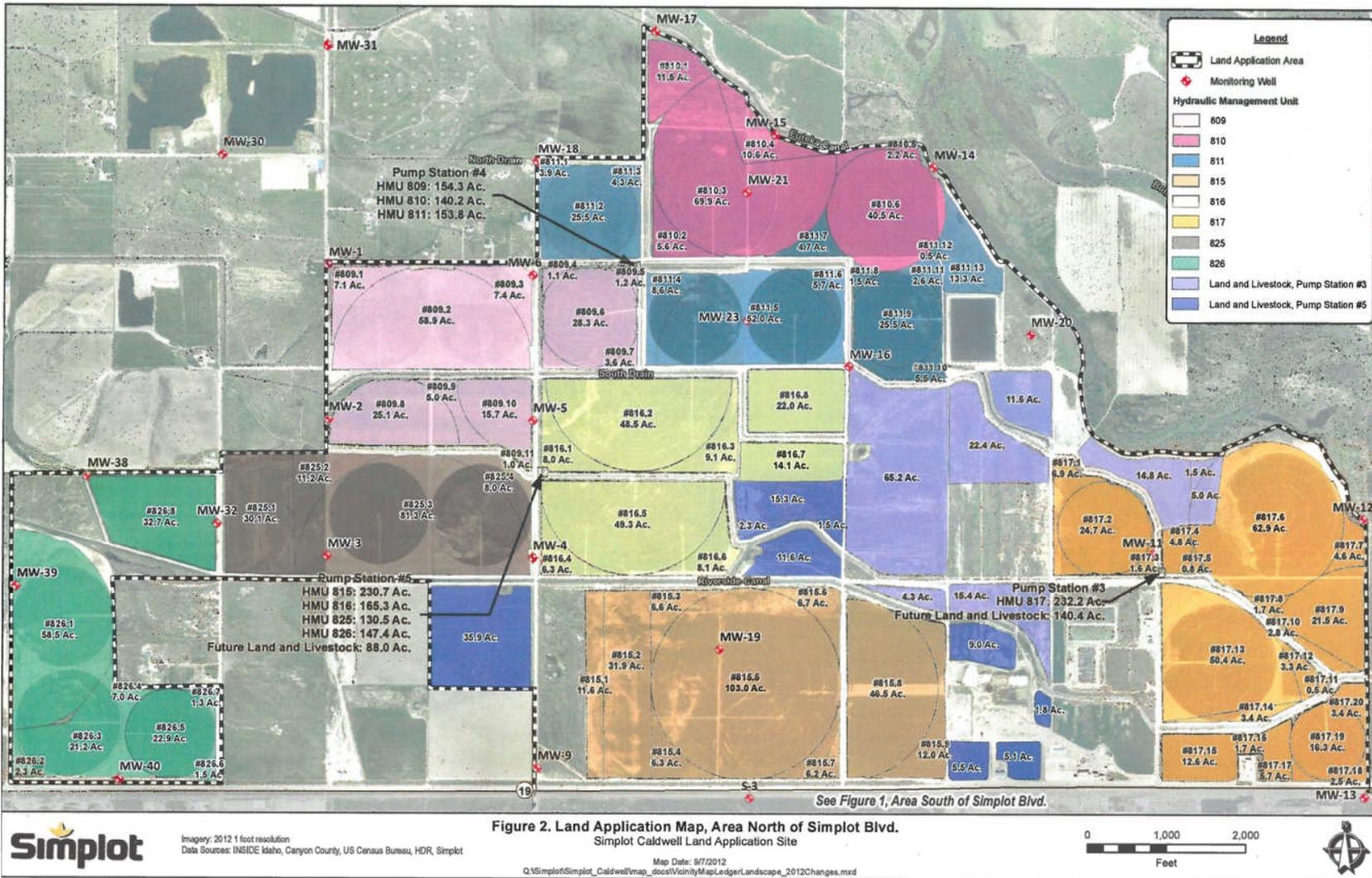
11.2 Management Unit Maps

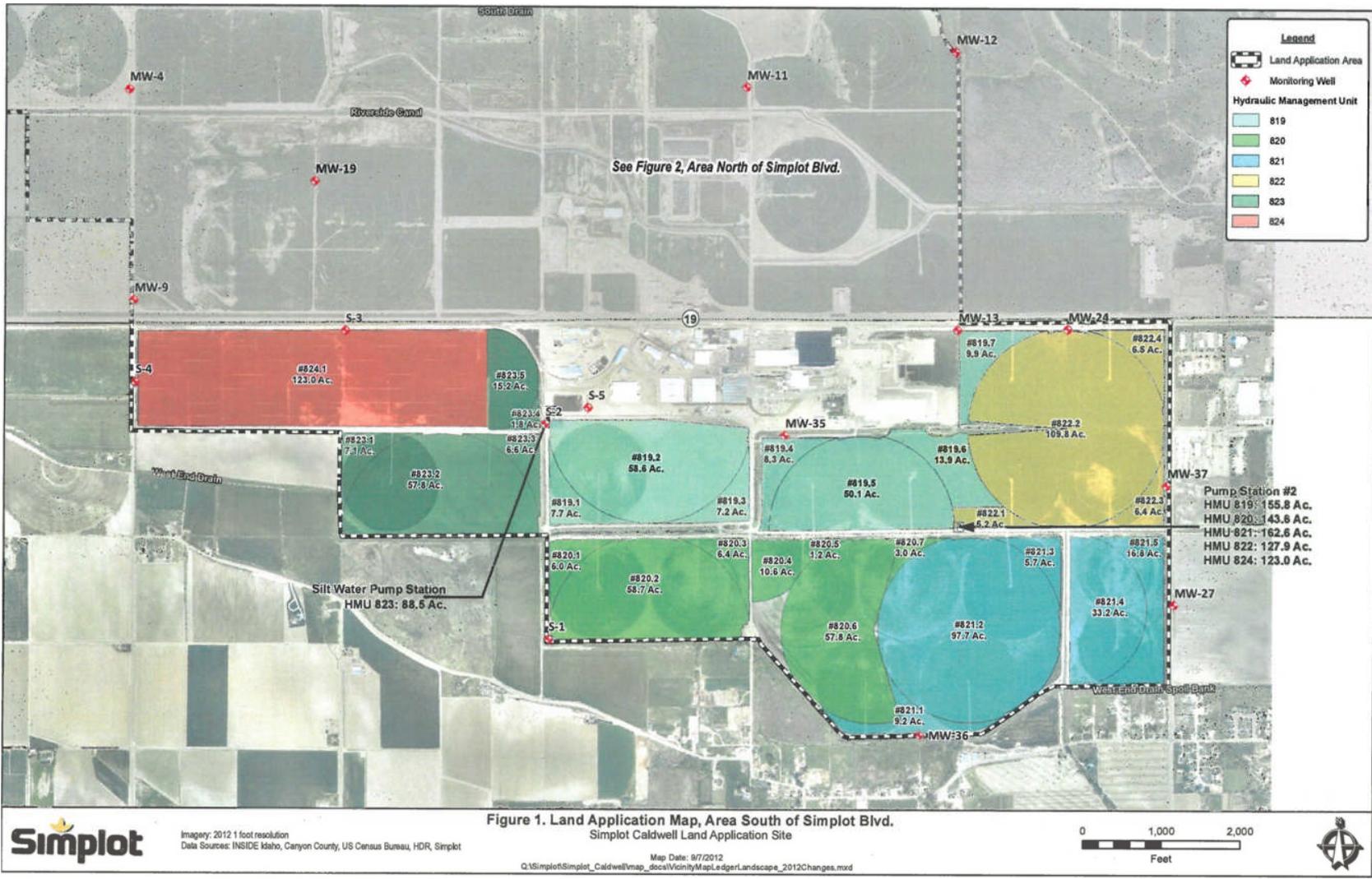
11.3 Ground Water Flow Direction

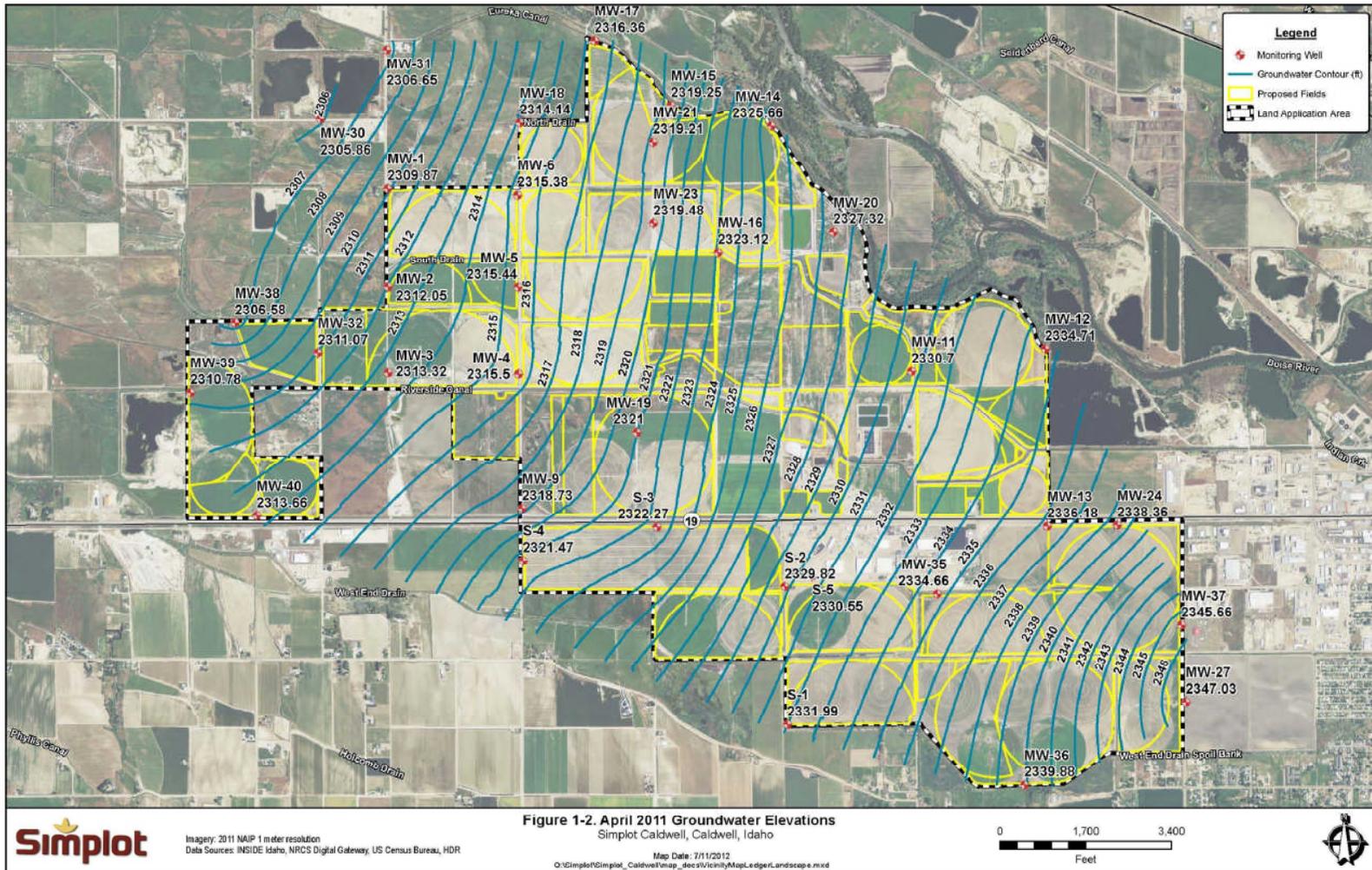
11.4 Canals and Drains

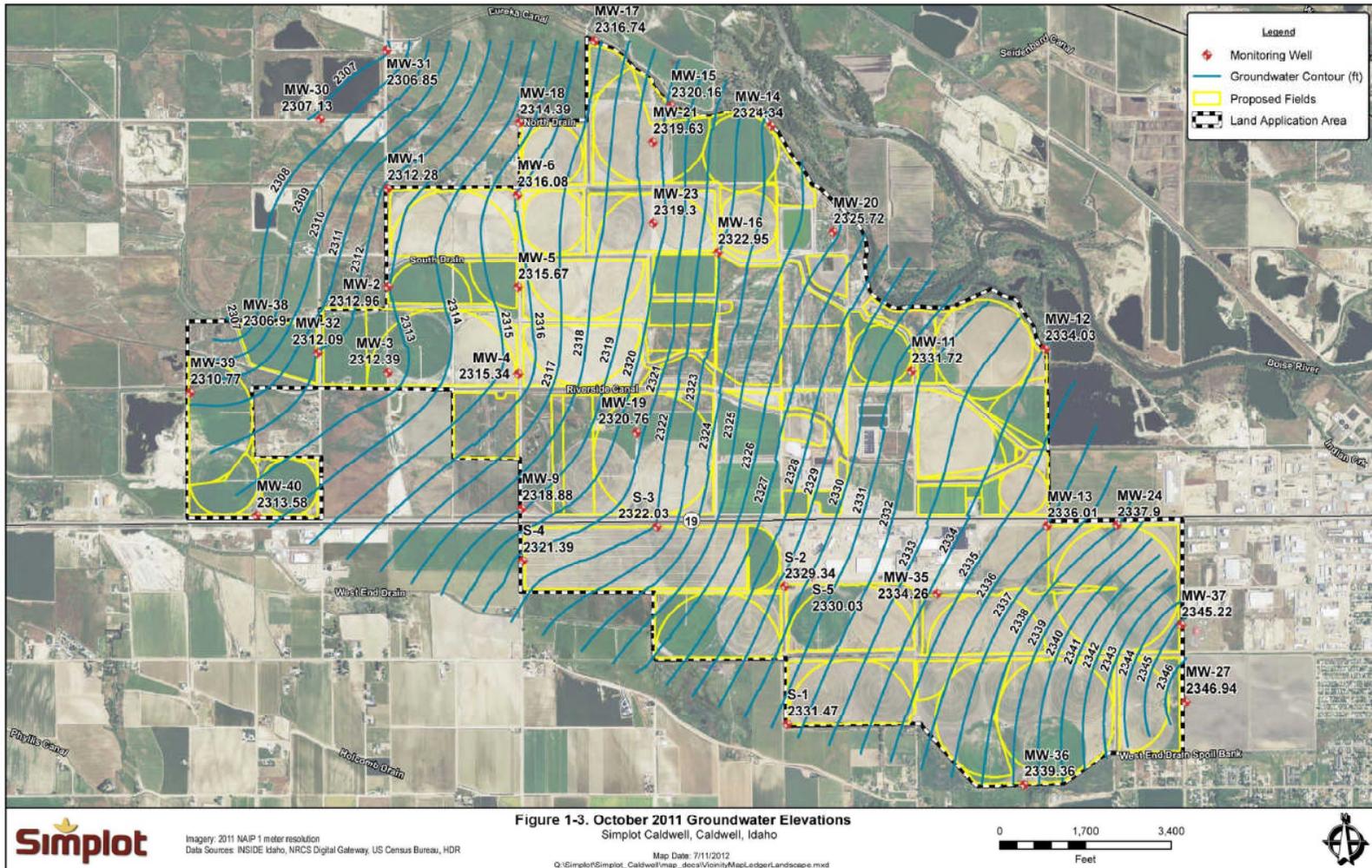
11.5 Field Descriptions











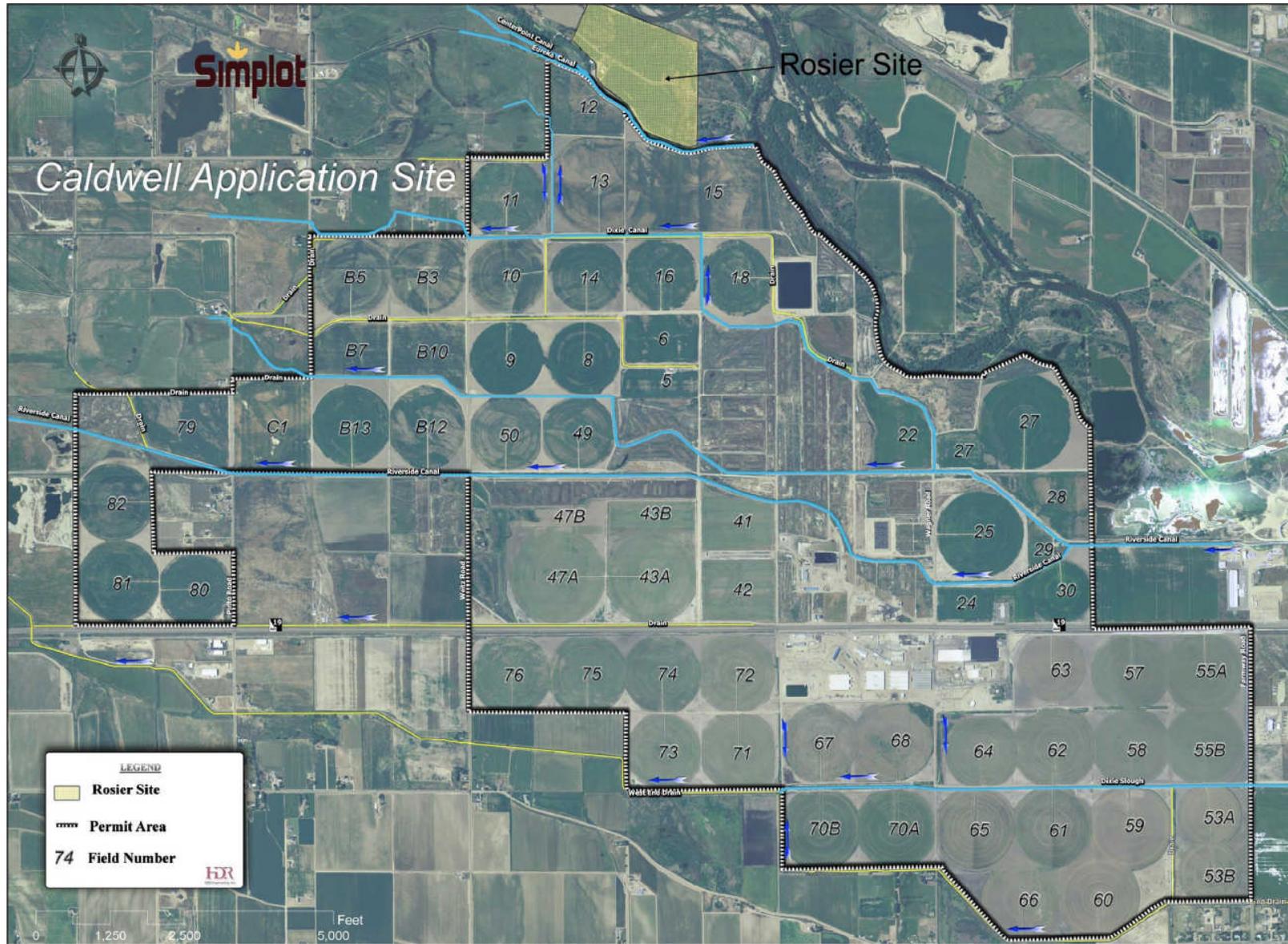


Figure 1

Simplot Facility and Rosier Site

FIELD INFO				IRRIGATION METHOD			
FIELD ID	PUMP STATION	HMU	AREA (ACRES)	PIVOT ACRES	WHEELLINE ACRES	HANDLINE ACRES	LINEAR ACRES
809.1	4	HMU809	7.1	0	0	7.1	0
809.2	4	HMU809	58.9	58.9	0	0	0
809.3	4	HMU809	7.4	0	0	7.4	0
809.4	4	HMU809	1.1	0	0	1.1	0
809.5	4	HMU809	1.2	0	0	1.2	0
809.6	4	HMU809	28.3	28.3	0	0	0
809.7	4	HMU809	3.6	0	0	3.6	0
809.8	4	HMU809	25.1	25.1	0	0	0
809.9	4	HMU809	5	0	0	5	0
809.1	4	HMU809	15.7	15.7	0	0	0
809.11	4	HMU809	1	0	0	1	0
HMU 809 TOTALS			154.3	128	0	26.3	0
810.1	4	HMU810	11.5	11.5	0	0	0
810.2	4	HMU810	5.6	0	0	5.6	0
810.3	4	HMU810	69.9	69.9	0	0	0
810.4	4	HMU810	10.6	0	0	10.6	0
810.5	4	HMU810	2.2	0	0	2.2	0
810.6	4	HMU810	40.5	40.5	0	0	0
HMU 810 TOTALS			140.2	121.8	0	18.4	0
811.1	4	HMU811	3.9	0	0	3.9	0
811.2	4	HMU811	25.5	25.5	0	0	0
811.3	4	HMU811	4.3	0	0	4.3	0
811.4	4	HMU811	8.6	0	0	8.6	0
811.5	4	HMU811	52	52	0	0	0
811.6	4	HMU811	5.7	0	0	5.7	0
811.7	4	HMU811	4.7	0	0	4.7	0
811.8	4	HMU811	1.5	0	0	1.5	0
811.9	4	HMU811	25.5	25.5	0	0	0
811.1	4	HMU811	5.5	0	0	5.5	0
811.11	4	HMU811	2.6	0	0	2.6	0
811.12	4	HMU811	0.5	0	0	0.5	0
811.13	4	HMU811	13.3	0	0	13.3	0
HMU 811 TOTALS			153.8	103	0	50.8	0
815.1	5	HMU815	11.6	0	11.6	0	0
815.2	5	HMU815	31.9	0	31.9	0	0
815.3	5	HMU815	6.6	0	0	6.6	0
815.4	5	HMU815	6.3	0	0	6.3	0
815.5	5	HMU815	103	103	0	0	0
815.6	5	HMU815	6.7	0	0	6.7	0
815.7	5	HMU815	6.2	0	0	6.2	0
815.8	5	HMU815	46.5	46.5	0	0	0
815.9	5	HMU815	12	0	0	12	0
HMU 815 TOTALS			230.7	149.4	43.5	37.8	0

FIELD INFO				IRRIGATION METHOD			
FIELD ID	PUMP STATION	HMU	AREA (ACRES)	PIVOT ACRES	WHEELLINE ACRES	HANDLINE ACRES	LINEAR ACRES
816.1	5	HMU816	8	0	0	8	0
816.2	5	HMU816	48.5	48.5	0	0	0
816.3	5	HMU816	9.1	0	0	9.1	0
816.4	5	HMU816	6.3	0	0	6.3	0
816.5	5	HMU816	49.3	49.3	0	0	0
816.6	5	HMU816	8.1	0	0	8.1	0
816.7	5	HMU816	14.1	0	14.1	0	0
816.8	5	HMU816	22	0	22	0	0
HMU 816 TOTALS			165.3	97.8	36	31.5	0
817.1	3	HMU817	6.9	0	0	6.9	0
817.2	3	HMU817	24.7	24.7	0	0	0
817.3	3	HMU817	1.6	0	0	1.6	0
817.4	3	HMU817	4.8	0	4.8	0	0
817.5	3	HMU817	0.8	0	0	0.8	0
817.6	3	HMU817	62.9	62.9	0	0	0
817.7	3	HMU817	4.6	0	0	4.6	0
817.8	3	HMU817	1.7	0	0	1.7	0
817.9	3	HMU817	21.5	21.5	0	0	0
817.1	3	HMU817	2.8	0	0	2.8	0
817.11	3	HMU817	0.5	0	0	0.5	0
817.12	3	HMU817	3.3	0	0	3.3	0
817.13	3	HMU817	50.4	50.4	0	0	0
817.14	3	HMU817	3.4	0	0	3.4	0
817.15	3	HMU817	12.6	0	12.6	0	0
817.16	3	HMU817	1.7	0	0	1.7	0
817.17	3	HMU817	5.7	0	5.7	0	0
817.18	3	HMU817	2.5	0	0	2.5	0
817.19	3	HMU817	16.3	16.3	0	0	0
817.2	3	HMU817	3.4	0	0	3.4	0
HMU 817 TOTALS			232.2	175.9	23.1	33.3	0
819.1	2	HMU819	7.7	0	0	7.7	0
819.2	2	HMU819	58.6	58.6	0	0	0
819.3	2	HMU819	7.2	0	0	7.2	0
819.4	2	HMU819	8.3	0	0	8.3	0
819.5	2	HMU819	50.1	50.1	0	0	0
819.6	2	HMU819	13.9	0	0	13.9	0
819.7	2	HMU819	9.9	0	0	9.9	0
HMU 819 TOTALS			155.8	108.7	0	47	0

FIELD INFO				IRRIGATION METHOD			
FIELD ID	PUMP STATION	HMU	AREA (ACRES)	PIVOT ACRES	WHEELLINE ACRES	HANDLINE ACRES	LINEAR ACRES
820.1	2	HMU820	6	0	0	6	0
820.2	2	HMU820	58.7	58.7	0	0	0
820.3	2	HMU820	6.4	0	0	6.4	0
820.4	2	HMU820	10.6	10.6	0	0	0
820.5	2	HMU820	1.2	0	0	1.2	0
820.6	2	HMU820	57.8	57.8	0	0	0
820.7	2	HMU820	3	0	0	3	0
HMU 820 TOTALS			143.6	127.1	0	16.6	0
821.1	2	HMU821	9.2	0	0	9.2	0
821.2	2	HMU821	97.7	97.7	0	0	0
821.3	2	HMU821	5.7	0	0	5.7	0
821.4	2	HMU821	33.2	33.2	0	0	0
821.5	2	HMU821	16.8	0	0	16.8	0
HMU 821 TOTALS			162.6	130.9	0	31.7	0
822.1	2	HMU822	5.2	0	0	5.2	0
822.2	2	HMU822	109.8	109.8	0	0	0
822.3	2	HMU822	6.4	0	0	6.4	0
822.4	2	HMU822	6.5	0	0	6.5	0
HMU 822 TOTALS			127.9	109.8	0	18.1	0
823.1	SW	HMU823	7.1	0	0	7.1	0
823.2	SW	HMU823	57.8	57.8	0	0	0
823.3	SW	HMU823	6.6	0	0	6.6	0
823.4	SW	HMU823	1.8	0	0	1.8	0
823.5	SW	HMU823	15.2	15.2	0	0	0
HMU 823 TOTALS			88.5	73	0	15.5	0
824.1	2	HMU824	123	0	0	0	123
HMU 824 TOTALS			123	0	0	0	123
825.1	5	HMU825	30.1	0	30.1	0	0
825.2	5	HMU825	11.2	0	0	11.2	0
825.3	5	HMU825	81.3	81.3	0	0	0
825.4	5	HMU825	8	0	0	8	0
HMU 825 TOTALS			130.5	81.3	30.1	19.2	0
826.1	5	HMU826	58.5	58.5	0	0	0
826.2	5	HMU826	2.3	0	0	2.3	0
826.3	5	HMU826	21.2	21.2	0	0	0
826.4	5	HMU826	7	0	0	7	0
826.5	5	HMU826	22.9	22.9	0	0	0
826.6	5	HMU826	1.5	0	0	1.5	0
826.7	5	HMU826	1.3	0	0	1.3	0
826.8	5	HMU826	32.7	0	32.7	0	0
HMU 826 TOTALS			147.4	102.6	32.7	12.1	0
Grand Total			2155.8	1509.3	165.4	358.1	123