
IDAHO DEPARTMENT OF ENVIRONMENTAL QUALITY

REUSE PERMIT

I-032-05

(Previous Permit Number LA-000032-04)

Basic American Foods, Inc. Shelley Facility (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

6-25-24



6-26-17

Bruce Glenick
Regional Administrator
Idaho Department of Environmental Quality
Pocatello Regional Office

Date

Department of Environmental Quality
Pocatello Regional Office
444 Hospital Way, Building #300
208-236-6160
Pocatello, ID. 83201

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1. Acronyms, Abbreviations and Definitions

CA	compliance activity
DEQ	Idaho Department of Environmental Quality
COD	chemical oxygen demand
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
E_i	irrigation efficiency
EPA	Environmental Protection Agency
GW	prefix for ground water reporting serial number
IDAPA	Numbering designation for all administrative rules in Idaho promulgated according to the Idaho Administrative Procedure Act (is not short for Idaho Administrative Procedure 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. The equation used to calculate the IWR is: $IWR = P_{def}/E_i$ where P_{def} (precipitation deficit) is synonymous with the net irrigation water requirement of the crop (http://data.kimberly.uidaho.edu/ETIdaho/).
lb	pound
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
QAPP	quality assurance project plan
Responsible Official	facility contact person authorized by the permittee to communicate with DEQ on behalf of the permittee on any matter related to the permit, including without limitation, the authority to communicate with and

receive notices from DEQ regarding notices of violation or non-compliance, permit violations, permit enforcement, and permit revocation. The Responsible Official is also responsible for providing written certification of permit application materials, annual report submittals, and other information submitted to DEQ as required by the permit. Any notice to or communication with the Responsible Official is considered a notice to or communication with the permittee.

The Responsible Official may designate an Authorized Representative to act as the facility contact person for any of the activities or duties related to the permit, except signing and certifying the permit application, which must be done by the Responsible Official. The Authorized Representative shall act as the Responsible Official and shall bind the permittee as described in this definition. Designation of the Authorized Representative shall follow the requirements specified in Section 6.1.3 of the permit.

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

2. Facility Information

Information type	Information specific for this permit
Type of recycled water	Industrial – Potato processing wastewater
Method of treatment and reuse	Recycled water used for crop irrigation via slow rate land application.
Facility address Mailing address Phone E-mail	434 South Emerson Shelley, Idaho 83274 Plant - Township 1 N, Range 37 E, Section 32. Management Units - Township 1S, Range 37 E, Sections 2, 3, and 11 415 W. Collins Rd Blackfoot, ID 83221-5668 (208) 785-8572 jkirkpatrick@baf.com
Facility responsible official and authorized representative	Responsible Official: <ul style="list-style-type: none"> • Brent Higginson, Shelley Facility Manager Authorized Representatives: <ul style="list-style-type: none"> • John Kirkpatrick, Corporate Environmental Manager Notify DEQ within 30 days if there is a change in personnel for any of the above facility contacts.
Ground Water	approximately 60 feet below ground surface (Seasonal High Ground Water – Fall to early Winter) General groundwater flow direction is toward the west or southwest Public water supply well at the facility: uses - commercial, industrial
Surface Water	Land treatment site: <ul style="list-style-type: none"> • Little Sand Creek • East Branch Canal (growing season only) Beneficial uses: <ul style="list-style-type: none"> • Canals: Irrigation

3. Compliance Schedule for Required Activities

Compliance activity (CA) number and Completion due date	Compliance activity description
<p>CA-032-01</p> <p>90 Days following permit issuance</p>	<p>Plan of Operation (PO): The permittee shall submit for review and approval an updated Plan of Operation (PO) that reflects current operations and incorporates the requirements of this permit.</p> <p>The PO shall comply with the applicable requirements stated in IDAPA 58.01.17.300.05 and shall address applicable items in the Plan of Operation Checklist in the DEQ Guidance.</p> <p>The PO shall include the following site management plans or plan updates, or the Permittee may submit the site management plans individually:</p> <ol style="list-style-type: none"> 1. Buffer Zone Plan 2. Cropping Plan 3. Nuisance Odor Management Plan 4. Well Location Acceptability Analysis (for any new wells) 5. Irrigation management and scheduling plan 6. Waste Solids Management Plan 7. Runoff Management Plan <p>The PO shall be updated as needed to reflect current operations.</p> <p>The permittee shall notify DEQ of material changes to the PO and copies must be kept on site and made available to DEQ upon request.</p>
<p>CA-032-02</p> <p>Twelve (12) months following permit issuance</p>	<p>Monitoring Well Network Improvements:</p> <p>The permittee shall complete the ground water monitoring well network upgrades to extend well screen intervals where necessary to obtain ground water samples required in section 5.2.2 of this permit.</p> <p>Prior to well reconstruction, the permittee shall submit a brief monitoring well construction work plan for DEQ review and approval that will include a description of proposed monitoring well reconstruction activities and individual well construction diagrams.</p> <p>Monitoring Well Reconstruction</p> <p>Drilling activities and well re-construction shall be conducted by an Idaho-licensed driller. Monitoring well construction or rehabilitation shall follow the Idaho Department of Water Resources (IDWR) Rules and Regulations for Well Construction Standards.</p>

Compliance activity (CA) number and Completion due date	Compliance activity description
<p>CA-032-03</p> <p>By January 31, 2019</p>	<p>Monitoring Well Network Evaluation:</p> <p>Following completion of the monitoring well improvements listed in CA-032-02, the permittee shall conduct a follow-up analysis of the work completed, to ensure that rehabilitated wells are providing samples in accordance with permit reporting requirements.</p> <p>In the Annual Report due January 31, 2019, the permittee shall submit a brief summary of the monitoring well improvements, and an explanation as to whether all monitoring wells are capable of providing the required samples throughout the year.</p> <p>Following the well improvements and submittal of the Annual Report described above, if the monitoring well network does not provide the required samples, the permittee shall complete an additional monitoring well network evaluation. The permittee must 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 an implementation schedule for any recommended changes to the ground water monitoring well network.</p>
<p>CA-032-04</p> <p>To be determined by the Department, based on results from the Monitoring Well Network Evaluation required in CA-032-03</p>	<p>Water Quality Improvement Plan (WQIP):</p> <p>The Permittee shall submit a WQIP to DEQ, if the results from CA-032-03 show exceedances of the Ground Water Quality Rule, to accomplish the following objectives:</p> <ol style="list-style-type: none"> 1. Predict a "Time Period for Ground Water Compliance" when ground water quality will be at site-specific levels approved by the Department, 2. Propose statistically derived site-specific ground water quality levels for downgradient compliance points for regulated constituents of concern, to be applicable beginning with the "Time Period for Ground Water Compliance", and <p>Describe a public process to inform and involve affected parties regarding proposed site-specific ground water quality levels and/or timelines by which ground water quality objectives will be reached.</p>

Compliance activity (CA) number and Completion due date	Compliance activity description
<p>CA-032-05 90 Days following permit issuance</p>	<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 PO and copies must be kept on site and made available to DEQ upon request.</p>
<p>CA-032-06 12 months prior to permit expiration</p>	<p>If the permittee intends to continue operating the wastewater 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 wastewater reuse permit application package.</p>
<p>CA-032-07 One hundred eighty (180) days prior to permit expiration</p>	<p>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-032-06.</p>

4. Permit Limits and Conditions

4.1. Hydraulic Management Unit Descriptions

Serial Number	Description	Irrigation System Type and Irrigation Efficiency	Maximum Acres Allowed ^a
MU-03201	Pivot #1	Center Pivot ($E_i = 0.80$)	34.5
MU-03202	Pivot #2	Center Pivot ($E_i = 0.80$)	90.5
MU-03203	Pivot #3	Center Pivot ($E_i = 0.80$)	56.3
MU-03204	Pivot #4	Center Pivot ($E_i = 0.80$)	57.5
MU-03206	Pivot #5	Center Pivot ($E_i = 0.80$)	63.8
MU-03207	Pivot #6	Center Pivot ($E_i = 0.80$)	41.2
MU-03209	Pivot #8	Center Pivot ($E_i = 0.80$)	7.1
MU-03215	Pivot #2b	Center Pivot ($E_i = 0.80$)	8.2
	Total Permitted Management Unit Acreage		359.1

- a. Maximum acres represent the total permitted acreage of the MU as provided by the permittee. If the permittee uses less acreage in any season or year, then loading rates shall be 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	Non-growing season maximum hydraulic loading inches ^a and Million Gallons																																								
MU-03201 MU-03202 MU-03203 MU-03204 MU-03206 MU-03207 MU-03209 MU-03215	Substantially at the crop irrigation water requirement (IWR) ^b	Substantially at the Non-Growing Season target loading rate described in the approved Plan of Operation (PO), not to exceed 105 MG <table border="1" data-bbox="516 478 1451 877"> <thead> <tr> <th>Management Unit</th> <th>Description</th> <th>Inches per acre</th> <th>Million Gallons</th> </tr> </thead> <tbody> <tr> <td>MU-03201</td> <td>Pivot #1</td> <td>10.54</td> <td>9.9</td> </tr> <tr> <td>MU-03202</td> <td>Pivot #2</td> <td>10.74</td> <td>26.4</td> </tr> <tr> <td>MU-03203</td> <td>Pivot #3</td> <td>10.54</td> <td>16.1</td> </tr> <tr> <td>MU-03204</td> <td>Pivot #4</td> <td>10.54</td> <td>16.5</td> </tr> <tr> <td>MU-03206</td> <td>Pivot #5</td> <td>10.97</td> <td>19.1</td> </tr> <tr> <td>MU-03207</td> <td>Pivot #6</td> <td>11.27</td> <td>12.6</td> </tr> <tr> <td>MU-03209</td> <td>Pivot #8</td> <td>8.88</td> <td>2.0</td> </tr> <tr> <td>MU-03215</td> <td>Pivot #2b</td> <td>10.54</td> <td>2.4</td> </tr> <tr> <td colspan="3"></td> <td>NGS Limit 105 MG</td> </tr> </tbody> </table>	Management Unit	Description	Inches per acre	Million Gallons	MU-03201	Pivot #1	10.54	9.9	MU-03202	Pivot #2	10.74	26.4	MU-03203	Pivot #3	10.54	16.1	MU-03204	Pivot #4	10.54	16.5	MU-03206	Pivot #5	10.97	19.1	MU-03207	Pivot #6	11.27	12.6	MU-03209	Pivot #8	8.88	2.0	MU-03215	Pivot #2b	10.54	2.4				NGS Limit 105 MG
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			NGS Limit 105 MG																																							

- a. Record daily, as necessary, abnormal conditions as a result of non-growing season application including ponding, excessive ice buildup, runoff from the permitted site, or inadequate monitoring well sample results.
- b. For compliance purposes, the source of P_{def} data used to calculate the IWR shall be specified in the Plan of Operation.

4.3. Constituent Loading Limits

Serial Number	Constituent loading (from all sources)			
	Nitrogen (lb per acre) ^a	Phosphorus (lb per acre)	Salt (Non-volatile dissolved solids, NVDS) (lb per acre)	COD (lb per acre)
MU-03201 MU-03202 MU-03203 MU-03204 MU-03206 MU-03207 MU-03209 MU-03215	150% of crop uptake	N/A	N/A	50 pounds per acre, maximum average daily limit, growing season and non-growing season reported separately

- a. Typical crop uptake is the median constituent crop uptake from the 3 most recent years the crop has been grown. For crops having less than 3 years of on-site crop uptake data, 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's nitrogen loading to the current year's nitrogen uptake.

N/A indicates not applicable as a limited constituent at this time.

4.4. Hydraulic Management Unit Buffer Zones

Serial Number	Buffer Distances (in feet) from Hydraulic Management Units					
	Public Water Supplies	Private Water Supplies	Inhabited Dwellings	Permanent and Intermittent Surface Water	Irrigation Ditches and Canals	Areas Accessible to the Public
MU-03201 MU-03202 MU-03203 MU-03204 MU-03206 MU-03207 MU-03209 MU-03215	1,000	500	300	100	50	50

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
Non-Growing Season Maximum Wastewater Hydraulic Loading	The total NGS hydraulic loading rate is limited to 105 MG.
Crop or vegetation restrictions	Refer to the plan of operation or cropping plan for allowable crops
Grazing	Grazing is allowed only under the provisions of a Grazing Management Plan approved by the Department
Fencing	Fencing required where applicable
Construction Plans & Specifications	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 Monitoring, Sampling, and Analyses

5.1.1. Constituent Monitoring

Monitoring point serial number and location	Sample description	Sample type/Frequency	Constituents (units in mg/L unless otherwise specified)
WW-03202 Recycled water sampling point, just prior to land application	Recycled water applied to: MU-03201 MU-03202 MU-03203 MU-03204 MU-03206 MU-03207 MU-03209 MU-03215	WW quality, 24 hour composite sample, when irrigating	- total nitrogen - total phosphorus - COD - total dissolved solids - volatile dissolved solids - non-volatile dissolved solids
		Compiled monthly, and reported annually	<u>First Year Only</u> Sodium Potassium Calcium Magnesium Sulfate Chloride Carbonate/Bicarbonate (alkalinity)
Supplemental Irrigation Water (SIW)			
SW-03201 East Branch Canal SIW sampling point at either the Sugar Factory Farm, or the Main Pump House.	water used for irrigation prior to mixing or diversion	Grab Sample, April and October 2017 only (Or during the first and last SIW application)	- total nitrogen - total phosphorus - total dissolved solids <u>One Sampling Event Only</u> Sodium Potassium Calcium Magnesium Sulfate Chloride Carbonate/Bicarbonate (alkalinity)

5.1.2. Management Unit Flow Monitoring

Monitoring point serial number and location	Sample description	Sample type and Frequency	Measured Parameter (Units)
Flow meter for recycled water applied to: MU-03201 MU-03202 MU-03203 MU-03204 MU-03206 MU-03207 MU-03209 MU-03215	Recycled water volume prior to application on: MU-03201 MU-03202 MU-03203 MU-03204 MU-03206 MU-03207 MU-03209 MU-03215	- Daily meter reading - Monthly, seasonal, and annual compilation of data	- Daily recycled water volume - MG per month, and depth reported as inches per acre per month to each individual management unit
Supplemental Irrigation Water			
Flow meter for supplemental irrigation water pumps at SW-03201 (or any applied supplemental irrigation water)	Volume of water from canal to: MU-03201 MU-03202 MU-03203 MU-03204 MU-03206 MU-03207 MU-03209 MU-03215	- Daily flow meter readings, Daily pump run times, or hour meter readings and volume conversions - Monthly, seasonal, and annual compilation of data for each separate management unit	- Daily Supplemental Irrigation water volume to each individual management unit when applying - MG per month and depth reported as inches per acre per month

5.2. Ground Water Monitoring

5.2.1. Ground Water Monitoring Point Descriptions

Monitoring Point Serial Number	Former Serial Number	Facility Designation	Monitoring Well Location Description	Gradient location
GW-03201	GW-003210	MW-1	Upgradient to Pivot 1 (MU-03201) Pivot 2 (MU-03202) Pivot 2b (MU-03215)	Up
GW-03202	GW-003211	MW-2	Downgradient to Pivot 2 (MU-03202) Pivot 2b (MU-03215)	Down
GW-03204	GW-003212	MW-4	Upgradient to Pivot 4 (MU-03204) Pivot 3 (MU-03203)	Up
GW-03205	GW-003205	MW-5	Upgradient to Pivot 5 (MU-03206)	Up
GW-03206	GW-003206	MW-6	Downgradient to Pivot 6 (MU-03207)	Down
GW-03207	GW-003207	MW-7	Downgradient to Pivot 3 (MU-03203) Pivot 2b (MU-03215)	Down
GW-03208	GW-003208	MW-8	Side-Gradient to Pivot 2 (MU-03202) Pivot 2b (MU-03215)	Side
GW-03209	GW-003209	MW-9	Downgradient to Pivot 4 (MU-03204)	Down
GW-03210	GW-003213	MW-10	Side-Gradient to Pivot 4 (MU-03204) Upgradient to Pivot 3 (MU-03203)	Side Up
GW-03211	GW-003214	MW-11	Upgradient to Pivot 6 (MU-03207) Pivot 8 (MU-03209)	Up
GW-03212	GW-003215	MW-12	Downgradient to Pivot 5 (MU-03206)	Down
GW-03213	GW-003216	MW-13	Downgradient to Pivot 1 (MU-03201)	Down
To include any monitoring wells installed or refurbished as a result of required Compliance Activities				

5.2.2. Ground Water Monitoring, Sampling, and Analyses

Monitoring point serial number	Facility reference number	Sample type/ Frequency	Constituents (units in mg/L unless otherwise specified)
GW-03201 GW-03202 GW-03204 GW-03205 GW-03206 GW-03207 GW-03208 GW-03209 GW-03210 GW-03211 GW-03212 GW-03213 Monitor any newly installed wells	MW-1 MW-2 MW-4 MW-5 MW-6 MW-7 MW-8 MW-9 MW-10 MW-11 MW-12 MW-13	Unfiltered Grab sample, Collect Spring Sample Between March 15 and May 15 each year Collect Fall Sample in October	<u>Each Sampling Event</u> - water table elevation (hundredths of a foot) - depth to groundwater (hundredths of a foot) - nitrate-nitrogen - total and dissolved iron ^a - total and dissolved manganese ^a - TDS ^a Field Sampling Parameters: - pH (standard units) - electrical conductivity (µmhos/cm) - temperature <u>First Year Only for existing wells, following installation of any new wells, sample the First Year only for any newly installed wells</u> Sodium Potassium Calcium Magnesium Sulfate Chloride Carbonate/Bicarbonate (alkalinity)
Domestic wells within ¼ mile of all permitted treatment acreage ^b	Monitoring point numbers established internally	Grab sample Report Domestic well sampling results to DEQ annually in the annual report for any domestic wells sampled	<u>Each Sampling Event</u> - nitrate nitrogen - total dissolved solids - total and dissolved iron ^a - total and dissolved manganese ^a <u>First Year Only</u> Sodium Potassium Calcium Magnesium Sulfate Chloride Carbonate/Bicarbonate (alkalinity)

- a. Analytical results are required for dissolved iron and/or manganese only if the results for total iron and/or manganese exceed standards in IDAPA 58.01.11.200.b. Laboratory measured values are required for TDS unless specific approval to use a calculated value (conversion from EC) is obtained.
- b. Annual domestic well sampling is recommended but is not required and is applicable only where permission is obtained from the owner.

5.3. Soil Monitoring

5.3.1. Soil Monitoring Unit Descriptions

Monitoring point serial number	Previous Serial Number	BAF Field Number	Associated Management Unit
SU-03201	SU-003213	Field #1	MU-03201
SU-03202	SU-003220	Field #2	MU-03202
SU-03203	SU-003216	Field #3	MU-03203
SU-03204	SU-003217	Field #4	MU-03204
SU-03206	SU-003206	Field #5	MU-03206
SU-03207	SU-003207	Field #6	MU-03207
SU-03209	SU-003209	Field #8	MU-03209
SU-03215	SU-003219	Field #2b	MU-03215

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-03201 SU-03202 SU-03203 SU-03204 SU-03206 SU-03207 SU-03209 SU-03215	Composite samples	Annually in March	- Plant available phosphorus (Olsen Method) - Nitrate - nitrogen - Ammonium - nitrogen - Electrical conductivity (μ mhos/cm in saturated paste extract)

- 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. Crop Monitoring

5.4.1. Crop Harvest Monitoring

Associated Hydraulic Monitoring Units	Sample type	Sample Frequency	Parameters ^a
MU-03201 MU-03202 MU-03203 MU-03204 MU-03206 MU-03207 MU-03209 MU-03215	Harvested portion of each crop, from each management unit Reported separately by acreage if different crops are grown on any management unit	Each harvest	- Crop type - Harvest date - Sample collection date - Harvested acreage (acres) - As-harvested ('wet') yield in customary harvested units (tons per acre, bushels, cwt, etc.). - As-harvested (field) moisture content (%) - Dry yield (lb per acre or tons per acre)

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-03201 MU-03202 MU-03203 MU-03204 MU-03206 MU-03207 MU-03209 MU-03215	Harvested portion, each crop Reported separately by acreage if different crops are grown	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	Estimated Surface Area, acres	Maximum Operating Volume, MG	Liner Type
N/A	No Lagoons in use at the facility at this time	N/A	N/A	N/A

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-03201 MU-03202 MU-03203 MU-03204	Recycled water loading rate	Million gallons per month, and Inches per acre month
MU-03206 MU-03207 MU-03209 MU-03215	Supplemental Irrigation Water loading rate	Million gallons per month, and Inches per month
	Calculate irrigation water requirement (IWR) for each crop grown	Inches per month, and Total inches applied during the GS
	COD loading rate: growing season seasonal average	Pounds/acre-day
	COD loading rate: Non-growing season seasonal average	Pounds/acre-day
	Recycled water nitrogen, phosphorus, total dissolved solids, volatile dissolved solids, and non-volatile dissolved solids loading rates	Pounds per acre per year on a monthly basis
	Supplemental Irrigation water nitrogen, phosphorus, and TDS loading rates	Pounds per acre per year on a monthly basis
	Fertilizer nitrogen and phosphorus application rates to each MU, reported separately as elemental N and P	Pounds per acre per year on a monthly basis
	Waste solids, total nitrogen and total phosphorus application rates	Pounds per acre per year on a monthly basis
	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/acre per year) Total 'dry' yield (lb/acre per year)
	Crop nitrogen, phosphorus, and ash removal rates (dry-basis) Report each harvest and the annual totals for each MU.	Pounds-N per acre per year Pounds-P per acre per year Pounds Ash per acre per year

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
Pocatello Regional Office
444 Hospital Way #300
Pocatello, ID 83201

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 that the information provided in this submittal was prepared in conformance with the Quality Assurance Project Plan required by permit number I-039-03, and is to the best of my knowledge, true, accurate and complete and I acknowledge that knowing submission of false or incomplete information may result in permit revocation as provided for in IDAPA 58.01.17.920.01 or other enforcement action as provided for under Idaho law."

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

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

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

6.2. Emergency and Noncompliance Reporting

Report noncompliance incidents to DEQ's regional office at 208-236-6160, or 1-800-655-6160

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 1) permit non-compliance which may endanger public health or the environment and 2) unauthorized discharges to surface waters of the State of Idaho shall be reported to DEQ's regional office by telephone within 24 hours from the time the permittee becomes aware of the discharge at the phone numbers provided in this section.

A written follow-up shall be provided to the DEQ regional office within 5 days from the time the permittee became aware of the permit non-compliance or unauthorized discharge.

Reporting of unauthorized discharges to surface waters of the United States to the Environmental Protection Agency (EPA) may also be required. Contact information for EPA is provided below:

EPA Contact Information:

NPDES/Stormwater Coordinator, USEPA Idaho Operations Office

950 W. Bannock, Suite 900

Boise, ID 83702

(208) 378-5746 / (208) 378-5744 and EPA Hot Line (206) 553-1846

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

9.1. Operations

9.1.1. Backflow Prevention

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

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

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

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

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

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

9.1.2. Restricted to Premises

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

9.1.3. Health Hazards, Nuisances, and Odors Prohibited

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

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

9.1.4. Solids Management

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

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

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

Sludge 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 solids 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. RESERVED

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

Figure 1. Basic American Foods, Shelley Facility – Vicinity Map



Figure 2. Basic American Foods, Shelley Facility –Hydraulic Management Units

