

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES
MISSOURI CLEAN WATER COMMISSION



MISSOURI STATE OPERATING PERMIT

In compliance with the Missouri Clean Water Law, (Chapter 644 R.S. Mo. as amended, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92nd Congress) as amended,

Permit No.	MO-0122840
Owner Name:	Opal Foods, LLC
Owner Address:	1100 Blair Avenue; Neosho, MO 64850
Continuing Authority:	Same as above
Address:	Same as above
Facility Name:	Opal Foods Neosho Farms
Facility Address:	17331 Hwy. D, Neosho, MO 64850
Legal Description:	See Pages 2-4
Latitude/Longitude:	See Pages 2-4
Receiving Stream:	See Pages 2-4
First Classified Stream and ID:	See Pages 2-4
USGS Basin & Sub-watershed No.:	See Pages 2-4

is authorized to discharge from the facility described herein, in accordance with the effluent limitations and monitoring requirements as set forth herein:

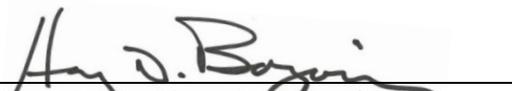
Operation of this facility shall not cause a violation of water quality standards.

FACILITY DESCRIPTION

Permitted Features #001, #003, #007, #022. No Discharge of Process Waste Concentrated Animal Feeding Operation, SIC #0252. 83,513 Animal Units

This permit authorizes only wastewater discharges under the Missouri Clean Water Law and the National Pollutant Discharge Elimination System; it does not apply to other regulated areas. This permit may be appealed in accordance with Section 644.051.6 of the Law.

January 1, 2017
Effective Date


Harry D. Bozian, Director, Department of Natural Resources

March 31, 2020
Expiration Date


John Madras, Director, Water Protection Program

FACILITY DESCRIPTION (continued)

This is a Class IA laying hen operation with 4,700,000 laying hens and 2,148,000 pullets. The operation consists of three farms, School Farm, Hathaway Farm, and Timberview Farm. Two other farms, Meadows Farm and Pullet Farm are no longer utilized. The Farmer Automatic Building (FAB) complex is a composting operation and provides additional storage. Manure is transported from the buildings to manure sheds. Manure is then loaded into trucks and taken to the FAB complex. Mortalities are taken to a landfill. Wastewater is discharged to the City of Neosho.

Permitted Feature #001 – Timberview Farm - Consists of 12 pullet confinement buildings and 6 manure storage sheds.

Legal Description: SW ¼, NE ¼, Sec 23, T24N, R32W, Newton County

UTM Coordinate: X = 379558, Y = 4072874

Receiving Water: Tributary to Bullsken Creek

First Classified Stream and ID: 8-20-13 MUDD V1.0 (C) (3960)

USGS Basin & Sub-Watershed No: 11070208- 0305

Number and Type of Animals: 1,948,000 chickens

Storage Structure Type: Roofed storage shed

Design Process Waste (tons/yr.): 16,353

Design storage (days): 365

Permitted Feature # 002 – Deleted – Meadows Farm has been combined with Timberview Farm

Permitted Feature # 003 - School Farm - Consists of 12 laying hen confinement buildings, 4 pullet confinement buildings, 3 manure storage sheds, and egg processing facility.

Legal Description: S ½, SE ¼, Sec 13, T24N, R32W, Newton County

UTM Coordinates X = 381396, Y = 4073855

Receiving Stream: Tributary to Elm Spring Branch

First Classified Stream and ID: 8-20-13 MUDD V1.0 (C) (3960)

USGS Basin & sub-watershed No: 11070207-0802

Design Number of Animals: 1,200,000 laying hens and 200,000 chickens

Storage Structure Type: Roofed storage shed

Design Process Waste (tons/yr.): 32,339

Design Storage (days): 365

Permitted Feature # 004 – Deleted - Sawmill Farm

Permitted Feature # 005 – Deleted – MOARK Pullet Farm

Permitted Feature # 006 – Deleted – Hathaway Farm (North) System

Permitted Feature # 007 - Hathaway Farm (Formerly Hathaway South) - Consists of 14 proposed layer confinement buildings, four manure storage sheds, and egg processing facility.

Legal description: W ½, NW ¼, Sec. 24, T24N, R32W Newton County

UTM Coordinates: X = 380592, Y = 4073071

Receiving Stream: Tributary to Bullsken Creek

First Classified Stream and ID: 8-20-13 MUDD V1.0 (C) (3960)

USGS Basin & sub-watershed No: 11070208- 0305

Design Number of Animals: 3,500,000 laying hens

Storage Structure Type: Roofed storage shed

Design Process Waste (tons/yr.): 89,425 tons/year

Design Storage (days): 365

Permitted Feature # 008 – Deleted – Domestic Wastewater at Timberview Farm

Permitted Feature # 009 – Deleted – Domestic Wastewater at Meadows Farm

Permitted Feature # 010 – Deleted – Domestic Wastewater at School Farm

Permitted Feature # 011 – Deleted – Domestic Wastewater at Sawmill Farm

Permitted Feature # 012 – Deleted – Domestic Wastewater at MOARK Pullet Farm

FACILITY DESCRIPTION (continued)

Permitted Feature # 013 – Deleted – Spring Monitoring

Permitted Feature # 014 – Deleted – Stream Monitoring

Permitted Feature # 015 – Deleted – Production Site Stormwater

Permitted Feature # 016 – Deleted – Production Site Stormwater

Permitted Feature # 017 – Deleted – Stormwater runoff north from Hathaway Farm

Permitted Feature # 018– Deleted – Stormwater runoff south from Hathaway Farm

Permitted Feature # 019– Deleted – Stormwater runoff from Timberview Farm

Permitted Feature # 020 – Deleted – Stormwater runoff north from Timberview Farm

Permitted Feature # 021 – Deleted – Production Site Stormwater

Permitted Feature #022 - Farmer Automatic Building, 4 storage buildings and stormwater storage basin.

Legal Description: NW ¼, SW ¼, Sec 13, T24N, R32W, Newton County

UTM Coordinates: X = 380493, Y = 4074127

Receiving Stream: Tributary to Elm Spring Branch

First Classified Stream and ID: 8-20-13 MUDD V1.0 (C) (3960)

USGS Basin & sub-watershed No: 11070207-0802

Permitted Feature #023 – Deleted - Stream Monitoring

Permitted Feature #024 – Deleted - Stream Monitoring

Permitted Feature #025 – Deleted - Stream Monitoring

Permitted Feature #026 – Deleted - Stream Monitoring

Permitted Feature # SM1– Deleted – Stream Monitoring (previous outfall 014)

Permitted Feature #SM2– Deleted – Stream Monitoring (previous outfall 025)

A. STANDARD CONDITIONS

In addition to other conditions stated herein, this permit is subject to the attached Part I STANDARD CONDITIONS dated August 1, 2014, and hereby incorporated as though fully set forth herein.

B. GENERAL CONDITIONS

1. Emergency or Unauthorized Discharge. Wastewater shall be stored and land applied during suitable conditions so that there is no discharge from the storage structures or land application sites. An emergency discharge from wastewater storage structures may only occur in accordance with Special Condition #2 of this permit. **Discharges for any other reason from production or land application areas shall constitute a permit violation and shall be reported in accordance with Standard Conditions, Part I, Section B.2.b.** Monitoring shall take place once per day while discharging. Test results are due on the 28th day of the following month after the cessation of the discharge. Permittee shall monitor for the following constituents:

Constituent	Units
Flow	MGD
Biochemical Oxygen Demand ₅	mg/L
Ammonia as N	mg/L
pH – Units	SU
Dissolved Oxygen	mg/L
Duration	Hours

2. Reporting of Non-Detects:

- a. An analysis conducted by the permittee or their contracted laboratory shall be conducted in such a way that the precision and accuracy of the analyzed result can be enumerated.
- b. The permittee shall not report a sample result as “Non-Detect” without also reporting the detection limit of the test. Reporting as “Non-Detect” without also including the detection limit will be considered failure to report, which is a violation of this permit.
- c. The permittee shall report the “Non-Detect” result using the less than sign and the minimum detection limit (e.g. <10).
- d. Where the permit contains a Minimum Level (ML) and the permittee is granted authority in the permit to report zero in lieu of the < ML for a specified parameter (conventional, priority pollutants, metals, etc.), then zero (0) is to be reported for that parameter.
- e. See Standard Conditions Part I, Section A, #4 regarding proper detection limits used for sample analysis.
- f. When calculating monthly averages, one-half of the minimum detection limit (MDL) should be used instead of a zero. Where all data are below the MDL, the “<MDL” shall be reported as indicated in item (C).

3. It is a violation of the Missouri Clean Water Law to fail to pay fees associated with this permit (644.055 RSMo).

4. Definitions

Definitions are as listed in the “Missouri Concentrated Animal Feeding Operation Nutrient Management Technical Standard” and in State Regulations in 10 CSR 20 Chapter 2, Chapter 6.300, Chapter 8.300, and Chapter 14.

5. Construction Permit Requirements

- a. A construction permit is required for any point source that proposes to construct an earthen storage structure to hold, convey, contain, store or treat domestic, agricultural, or industrial process wastewater.
- b. Any point source system designed to hold, convey, contain, store or treat domestic, agricultural or industrial process waste shall be designed by a professional engineer registered in Missouri in accordance with 10 CSR 20-8.300 and constructed according to the design plans.

6. Water Quality Standards

- a. To the extent required by law, discharges to waters of the state shall not cause a violation of water quality standards rule under 10 CSR 20-7.031, including both specific and general criteria.
- b. General Criteria. The following general water quality criteria shall be applicable to all waters of the state at all times including mixing zones. No water contaminant, by itself or in combination with other substances, shall prevent the waters of the state from meeting the following conditions:

GENERAL CONDITIONS (continued)

- (1) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses;
- (2) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses;
- (3) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses;
- (4) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life;
- (5) There shall be no significant human health hazard from incidental contact with the water;
- (6) There shall be no acute toxicity to livestock or wildlife watering;
- (7) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community;
- (8) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247 RSMo.

7. Reopener Clause

This permit may be reopened and modified, or alternatively revoked and reissued, to:

- a. Comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a) (2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
 - (1) contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
 - (2) controls any pollutant not limited in the permit.
- b. Incorporate new or modified State of Missouri Statutes or Regulations.
- c. Incorporate new or modified effluent limitations or other conditions, if the result of a waste load allocation study, toxicity test or other information indicates changes are necessary to assure compliance with Missouri's Water Quality Standards.
- d. Incorporate new or modified effluent limitations or other conditions if, as the result of a watershed analysis, a Total Maximum Daily Load (TMDL) limitation is developed for the receiving waters which are currently included in Missouri's list of waters of the state not fully achieving the state's water quality standards, also called the 303(d) list.

The permit as modified or reissued under this paragraph shall also contain any other requirements of the Clean Water Act as applicable.

C. SPECIAL CONDITIONS

1. Effluent Limitations

The permittee is authorized to discharge process wastewater and storm water in accordance with the effluent limitations in this permit and 40 CFR 412. The effluent limitations shall become effective upon issuance and remain in effect until such time this permit is no longer effective. Such discharges shall be managed, controlled, limited and monitored by the permittee as specified below.

2. CAFO Production Area Requirements

Requirements applicable to all CAFO production area(s) as defined in 10 CSR 20-6.300:

- a. There shall be no discharge of manure, litter, or process wastewater into waters of the state from production area point sources except as provided in subsection e. below.
- b. A chronic weather event is a series of wet weather events and conditions that can delay planting, harvesting, and prevent land application and dewatering practices at wastewater storage structures. When wastewater storage structures are in danger of an overflow due to a chronic weather event, CAFO owners shall take reasonable steps to lower the liquid level in the structure through land application, or other suitable means, to prevent overflow from the storage structure. Reasonable steps may include, but are not limited to; following the Department's current guidance (PUB2422) entitled "Wet Weather Management Practices for CAFOs." The chronic weather determination will be based upon an evaluation of the 1 in 10 year return rainfall frequency over a 10-day, 90-day, 180-day, and 365-day operating period.
- c. Manure, litter or wastewater management activities occurring outside the production area but upon land controlled by the permittee shall be addressed in the permittee's Nutrient Management Plan (NMP). Activities that should be addressed include, but are not limited to, stockpiling of raw materials, manure, or litter or other animal feeding related items that have the potential to contribute pollutants to waters of the state. As necessary, the NMP shall identify controls, measures or BMPs to manage stormwater runoff and meet applicable water quality standards. This paragraph applies only to activities on land that is under the control of the CAFO owner or operator, whether it is owned, rented, or leased.

SPECIAL CONDITIONS (continued)

- d. Stockpiling of uncovered dry process waste within the production area without runoff collection is not allowed.

3. **CAFO Land Application Areas**

These requirements are applicable to all land application areas as defined in 10 CSR 20-6.300:

- a. There shall be no discharge of manure, litter, process wastewater, or mortality by-products to surface waters of the state or that crosses property boundaries from a CAFO as a result of the land application of manure, litter, process wastewater, or mortality-by-products to land application areas, except where it is an agricultural storm water discharge. When manure, litter, process wastewater, or mortality by-products has been land applied in accordance with the CAFOs Nutrient Management Plan (NMP), and the *Missouri Concentrated Animal Feeding Operation Nutrient Management Technical Standard* (NMTS), a precipitation related discharge of manure, litter, process wastewater, or mortality-by-products from land application is considered to be an agricultural storm water discharge.
- b. The permittee is responsible for all land application areas. All land application areas must be included in the CAFO's nutrient management plan before any land application of manure, litter or process wastewater can occur. When manure litter or process wastewater generated by the permitted CAFO is sold, given away, or applied to agricultural lands that do not meet the land application area definition, the permittee shall comply with the requirement of Special Condition #6.
- c. Temporary stockpiling of dry process waste within the land application areas shall be in accordance with 10 CSR 20-8.300(10)B. No location shall be used for stockpiling for more than two weeks unless the stockpile is covered. Runoff from a stockpile shall not cause a violation of water quality standards.
- d. Land application shall only occur during daylight hours unless written authorization is obtained from the department.

4. **Nutrient Management Technical Standard**

The permittee shall follow Attachment A - *Missouri Concentrated Animal Feeding Operation Nutrient Management Technical Standard* (NMTS), except where otherwise stipulated in this permit. The NMTS, dated March 4, 2009, is hereby incorporated as though fully set forth herein.

5. **Nutrient Management Plan**

- a. In accordance with 10 CSR 20-6.300(3)(G), the permittee shall implement a Nutrient Management Plan (NMP) that at a minimum addresses the following.
 - (1) Ensures adequate storage of manure, litter and process wastewater, including procedures to ensure proper operation and maintenance of the storage facilities.
 - (2) Ensures proper management of mortalities.
 - (3) Ensures that clean water is diverted from the production area.
 - (4) Prevents direct contact of confined animals with waters of the state.
 - (5) Ensures that chemicals and other contaminants handled on site are not disposed of in any manure, litter, process wastewater, or storm water storage or treatment system unless specifically designed to treat such chemicals and other contaminants.
 - (6) Identifies appropriate site specific conservation practices to be implemented, including as appropriate buffers or equivalent practices, to control runoff of pollutants to waters of the state.
 - (7) Identifies protocols for appropriate testing of manure, litter, process wastewater, and soil.
 - (8) Establishes protocols to land apply manure, litter, or process wastewater in accordance with site specific nutrient management practices that ensure appropriate agricultural utilization of the nutrients in the manure, litter, or process wastewater.
 - (9) Identifies specific records that will be maintained.
- b. The permittee shall maintain the NMP in accordance with 10 CSR 20-6.300(3)(G)2. Revisions of the NMP made after the effective date of this permit must be submitted to the department for review and approval prior to implementing those revisions.

6. **Transfer of Manure, Litter, and Process Wastewater**

In cases where manure, litter, or process wastewater generated by the permitted CAFO is sold, given away, or applied on lands that do not meet the land application area definition, the permittee shall comply with the following conditions:

- a. Maintain records showing the date and amount of manure, litter, and/or process wastewater that leaves the permitted operation.
- b. Record the name and address of the recipient. (The recipient is the broker or end user, not merely the truck driver.)

- c. Provide the recipient(s) with representative information on the nutrient content of the manure, litter, and/or process wastewater.

SPECIAL CONDITIONS (continued)

- d. Provide the recipient(s) with a copy of the NMTS.
- e. These records must be retained on-site, for a period of five (5) years.

7. Mortality Management

- a. Mortalities must not be disposed of in any liquid manure or process wastewater system that is not specifically designed to treat animal mortalities. Animals shall be disposed of in a manner to prevent contamination of waters of the state or creation of a public health hazard. Class I operations may not use burial as their primary mortality management method to dispose of routine mortalities.
- b. There shall be no-discharge from dead animal collection areas or holding areas (dumpsters, holding tanks, stockpiles within livestock production buildings, refrigeration units, etc.).
- c. Operations shall first receive approval from the Department before burying significant numbers of unexpected mortalities and shall conduct the burial in accordance with the Missouri Department of Agriculture requirements. Rendering, composting, incineration, or landfilling, in accordance with Chapter 269.020 RSMo., shall be considered acceptable options and do not require prior approval.

8. Inspections

The following minimum visual inspections shall be conducted by the CAFO operator.

- a. Daily inspections must be conducted of water lines including wastewater, drinking water, and cooling water lines that can be visually observed within the production area. The inspection of the drinking water and cooling water lines shall be limited to the lines that possess the ability to leak or drain to wastewater storage structures or may come in contact with any process waste.
- b. Weekly inspections of all storm water diversion devices, runoff diversion structures, and devices channeling contaminated storm water to the process wastewater storage.
- c. Weekly inspections of the collection or holding areas for dead animals. Equipment and devices used for the transfer of dead animal for delivery and disposal off-site are not considered a collection or holding area, therefore, are not required to be part of the daily inspection requirement.

Any deficiencies found as a result of inspections shall be documented and corrected as soon as practicable.

9. Record Keeping

The following records shall be kept on-site by the CAFO operator. The records for inspections for Special Condition 8.a. shall be maintained for a period of three (3) years from the date they are created, all other records shall be maintained for a period of five (5) years from the date they are created. All records shall be made available to the department upon request:

- a. A copy of this permit including a current copy of the facility's Nutrient Management Plan and documentation of changes/modifications made to the Nutrient Management Plan.
- b. The daily and weekly visual inspections required in Special Condition #8, shall be recorded once per week. This includes the depth of the process wastewater in liquid impoundments as indicated by the depth marker. Report the liquid level as feet below the emergency overflow level.
- c. Records documenting any actions taken to correct deficiencies. Deficiencies not corrected within thirty (30) days shall be accompanied by an explanation of the factors preventing immediate correction.
- d. Records of mortalities management used by the operation.
- e. Records of the date, time, location, duration and estimated volume of any emergency or unauthorized process waste overflow from a lagoon or any spill exceeding 1000 gallons. Report flow as cubic feet per second (CFS) based on an instantaneous estimate of the flow at the time of sampling. $CFS = \text{flow width in feet} \times \text{flow depth in feet} \times \text{flow velocity in feet per second}$. Estimates of stream channel width and depth may be used and flow velocity can be measured by timing how many feet a floating object moves within a one-second interval. Small flows may also be estimated based on gallons per minute (GPM) measurement using a container and stop watch; 450 gpm = 1.0 CFS. Other similar means of estimating may also be used.
- f. Additional record keeping requirements are found in the NMTS that document implementation of appropriate Nutrient Management Plan protocols. In addition to the requirements found in the Nutrient Management Technical Standard, the CAFO shall also test and record the potassium levels in the soils while testing nitrogen and phosphorus.

- g. The inches of precipitation received at the production site with an uncovered liquid impoundment, recorded daily and reported for daily amounts, monthly totals, and cumulative total.

SPECIAL CONDITIONS (continued)

10. Reporting Requirements

- a. Any wastewater discharge into waters of the state or a release that crosses property boundaries shall be reported to the Department as soon as practicable but no later than 24 hours after the start of the discharge.
- b. Spills or leaks that are contained on the property shall also be reported to the Department within 24 hours, if the spill or leak exceeds 1,000 gallons per day. This includes leaks from sewer lines; recycle lines, flushing systems, lagoons, irrigation systems etc.
- c. The permittee shall notify the Water Protection Program as soon as practicable but no less than 24 hours in advance of implementing the department's "Wet Weather Management Practices for CAFOs" during a chronic weather event.
- d. An Annual Report shall be submitted by January 28 of each year for the previous growing season from October 1 through September 30 or an alternate 12 month period approved by the Department. The report shall include:
 - (1) The number and type of animals confined at the operation.
 - (2) The estimated amount of manure, litter, and process wastewater generated in the previous twelve months.
 - (3) The estimated amount of manure, litter, and process wastewater transferred to other persons in the previous twelve months.
 - (4) The total number of acres for land application covered by the Nutrient Management Plan.
 - (5) The total number of acres under control of the operation that were used for land application of manure, litter and process wastewater in the previous twelve months.
 - (6) A summary of all manure, litter, and process wastewater discharges from the production area that have occurred in the previous twelve months, including date, time, and approximate volume. Report as no-discharge, if a discharge did not occur during the monitoring period.
 - (7) A statement indicating whether the current Nutrient Management Plan was developed or approved by a certified nutrient management planner.
 - (8) The crops planted and expected yields, the amount and nutrient content of the manure, litter, and process wastewater applied to the land application area(s) and the results of any soil testing from the previous twelve months.
 - (9) The daily and weekly records of the wastewater depth in the liquid impoundments as required in Special Condition #8d.
 - (10) The actual operation numbers compared to the permitted design parameters described in Special Condition #11.
 - (11) All monitoring results from an emergency or unauthorized discharge as required in General Condition #1.
- h. The reports shall include a cover sheet with an original signature of a company representative. The reports may be printed or, saved as .pdf files or locked spreadsheets on compact disc (CDs) and shall be submitted to the Southwest Regional Office and the Water Protection Program, Industrial Permits Unit.

11. Design Parameters

The facility's design process waste in the Facility Description is an estimated parameter that is used to help predict nutrient generation and storage periods. The design process waste is based on the maximum annual generation and includes storm water flows during the one-in-ten year return frequency for annual or 365 day rainfall minus evaporation. The design process waste is based on the time period when the flows are generated at the production site and not when process wastes are land applied. Permittee may exceed the design process waste when precipitation in any 365 day period exceeds the one-in-ten year annual precipitation amount. Any proposed increases may require a permit modification prior to the proposed change. Portions of the design process waste may be stored and carried over into the following year for land application, as necessary.

12. Operating Capacity

This permit authorizes operation of the CAFO waste management system as described in the "FACILITY DESCRIPTION" along with the permit application and associated engineering plans. The Facility Description lists a total design capacity in animal units. The CAFOs animal unit operating level at any given time shall be based on a "rolling 12 month average". The rolling 12 month average is determined by averaging the weekly facility wide inventory for the last 12 months. The CAFO may change animal numbers and weights, and the rolling 12 month average may exceed the total design capacity in the Facility Description but shall not subsequently violate applicable effluent limitations in 10 CSR 20-6.300(4) or adversely impact the storage and handling capacities of the waste management system. If the waste management system is adversely impacted by increased animal units or animal weight, the facility shall increase storage capacity, increase land application, or reduce the animal unit operating level.

SPECIAL CONDITIONS (continued)

13. Sample Collection, Preservation and Testing Methods

Testing shall be in accordance with the most current version of *Standard Methods for the Examination of Waters and Wastewaters* or other approved methods listed in 10 CSR 20-7.015(9)(A).

14. Closure of Waste Storage Structures

Class I CAFOs which cease operation shall continue to maintain a valid operating permit until all lagoons and waste storage structures are properly closed according to a closure plan approved by the Department. CAFOs that plan to close a lagoon or other liquid waste storage structure shall submit for Department review and approval a closure plan that complies with the following minimum closure requirements:

- a. Lagoons and waste storage structures shall be closed by removal and land application of wastewater and sludge.
- b. The removed wastewater and sludge shall be land applied at agricultural rates for fertilizer not to exceed the maximum nutrient utilization of the land application site and vegetation grown and shall be applied at controlled rates so that there will be no discharge to waters of the state; and
- c. After removal and proper land application of wastewater and sludge, the earthen basins may be demolished by removing the berms, grading, and revegetation of the site so as to provide erosion control, or the basin may be left in place for future use as a farm pond or similar uses when water quality monitoring shows such uses are attainable.

MISSOURI DEPARTMENT OF NATURAL RESOURCES
FACT SHEET
FOR THE PURPOSE OF RENEWAL
OF
MO-0122840
OPAL FOODS NEOSHO FARMS

The Federal Water Pollution Control Act ("Clean Water Act" Section 402 Public Law 92-500 as amended) established the National Pollution Discharge Elimination System (NPDES) permit program. This program regulates the discharge of pollutants from point sources into the waters of the United States, and the release of storm water from certain point sources. All such discharges are unlawful without a permit (Section 301 of the "Clean Water Act"). After a permit is obtained, a discharge not in compliance with all permit terms and conditions is unlawful. Missouri State Operating Permits (MSOPs) are issued by the Director of the Missouri Department of Natural Resources (Department) under an approved program, operating in accordance with federal and state laws (Federal "Clean Water Act" and "Missouri Clean Water Law" Section 644 as amended). MSOPs are issued for a period of five (5) years unless otherwise specified.

As per [40 CFR Part 124.8(a)] and [10 CSR 20-6.020(1)2.] a Factsheet shall be prepared to give pertinent information regarding the applicable regulations, rationale for the development of effluent limitations and conditions, and the public participation process for the Missouri State Operating Permit (operating permit) listed below.

A Factsheet is not an enforceable part of an operating permit.

This Factsheet is for Industrial Land Application

Part I – Facility Information

Facility Type: No-discharge Concentrated Animal Feeding Operation/land application– SIC #0252

Facility Description:

This is a Class IA laying hen operation with 4,700,000 laying hens and 2,148,000 pullets. The operation consists of three farms, School Farm, Hathaway Farm, and Timberview Farm. Two other farms, Meadows Farm and Pullet Farm are no longer utilized. The Farmer Automatic Building (FAB) complex is a composting operation and provides additional storage. Manure is transported from the buildings to manure sheds. Manure is then loaded into trucks and taken to the FAB complex. Mortalities and taken to a landfill.

The buildings at the Meadows Farm (Permitted Feature #002) have been demolished and removed from the permit. New buildings constructed at this site are included with the Timberview Farm (Permitted Feature #001). The Pullet Farm (Permitted Feature #005) is no longer in production and has been removed from the permit.

Have any changes occurred at this facility or in the receiving water body that effects effluent limit derivation?

✓ No.

Application Date: 06/08/16

Expiration Date: 05/19/16

PERMITTED FEATURE(S) TABLE:

PERMITTED FEATURE	TREATMENT LEVEL	EFFLUENT TYPE
All	Land Application	Animal Manure and Litter

Facility Performance History:

This facility was last inspected on March 31, 2015 and was found to be in compliance.

Water Quality Monitoring:

Previous permits dating back to 1997 for the Opal Foods Neosho Farms have required stormwater, lake, and in-stream monitoring various sites. This monitoring was required by 10 CSR 20-6.300 and was used to help determine if the operation of the CAFO and land application of manure had any impacts on water quality. Technical staff from the Permits and Water Quality Monitoring Sections has reviewed the results of the past water quality monitoring data and generally conclude there is no indication that a reasonable potential exists for the Opal Foods Neosho Farms to violate water quality standards when it is managed and operated in accordance with permit requirements. As a result, the April 30, 2012 revision of 10 CSR 20-6.300 removed stormwater and stream monitoring requirements. As a result of this change the stormwater and stream permitted features #017, #018, #019, #020, #SM1, and #SM2 and associated monitoring requirements were removed with this permit renewal.

Nutrient Management:

The 2008 EPA CAFO regulation requires portions of the operations NMP be incorporated into the permit as terms of the NMP. The operation does have land application areas that have received manure application in the past. The operation does not intend to apply manure or litter to these fields therefore, no terms of the NMP are incorporated into this permit renewal. If the operation does wish to apply manure or litter to these fields, a permit modification would be required. In addition, any revisions to the operations' NMP must be submitted to the department for review.

Part II – Operator Certification Requirements

✓ This facility is required to have a certified operator.

Operators or supervisors of CAFO waste management systems shall be certified in accordance with 10 CSR 20-14.010. This facility currently requires a CAFO supervisor with an A Certification Level or a CAFO operator with a B Certification Level.

Operator's Name: Everett Johnson

Certification Number: 14376

Certification Level: CAFO A

The listing of the operator above only signifies that staff drafting this operating permit have reviewed appropriate Department records and determined that the name listed on the operating permit application has the correct and applicable Certification Level.

Part III – Receiving Stream Information

10 CSR 20-7.031 Missouri Water Quality Standards, the Department defines the Clean Water Commission water quality objectives in terms of "water uses to be maintained and the criteria to protect those uses." The receiving stream and/or 1st classified receiving stream's beneficial water uses to be maintained, are located in the Receiving Stream Table located below in accordance with [10 CSR 20-7.031(4)].

RECEIVING STREAM(S) TABLE:

WATERBODY NAME	CLASS	WBID	DESIGNATED USES*	DISTANCE TO CLASSIFIED SEGMENT	12-DIGIT HUC**
Tributary to Bullskin Creek	N/A	N/A	General Criteria		11070208-0305
8-20-13 MUDD V1.0	C	3960	AQL, IRR, LWW, SCR, WBCB, HHP		
Tributary to Elm Spring Branch	N/A	N/A	General Criteria		11070208-0305
8-20-13 MUDD V1.0	C	3960	AQL, IRR, LWW, SCR, WBCB, HHP		

n/a not applicable

WBID Waterbody ID: Missouri Use Designation Dataset 8-20-13 MUDD V1.0 data can be found as an ArcGIS shapefile on MSDIS at http://msdis.missouri.edu/pub/Inland_Water_Resources/MO_2014_WQS_Stream_Classifications_and_Use_shp.zip

* As per 10 CSR 20-7.031 Missouri Water Quality Standards, the department defines the Clean Water Commission's water quality objectives in terms of "water uses to be maintained and the criteria to protect those uses." The receiving stream and 1st classified receiving stream's beneficial water uses to be maintained are in the receiving stream table in accordance with [10 CSR 20-7.031(1)(C)].

Uses which may be found in the receiving streams table, above:

10 CSR 20-7.031(1)(C)1.:

AQL = Protection of aquatic life (Current narrative use(s) are defined to ensure the protection and propagation of fish shellfish and wildlife, which is further subcategorized as: WWH = Warm Water Habitat; CLH = Cool Water Habitat; CDH = Cold Water Habitat; EAH = Ephemeral Aquatic Habitat; MAH = Modified Aquatic Habitat; LAH = Limited Aquatic Habitat. This permit uses AQL effluent limitations in 10 CSR 20-7.031 Table A for all habitat designations unless otherwise specified.)

10 CSR 20-7.031(1)(C)2.: Recreation in and on the water

WBC = Whole Body Contact recreation where the entire body is capable of being submerged;

WBC-A = Whole body contact recreation that supports swimming uses and has public access;

WBC-B = Whole body contact recreation that supports swimming;

SCR = Secondary Contact Recreation (like fishing, wading, and boating).

10 CSR 20-7.031(1)(C)3. to 7.:

HHP (formerly HHF) = Human Health Protection as it relates to the consumption of fish;

IRR = Irrigation for use on crops utilized for human or livestock consumption;

LWW = Livestock and wildlife watering (Current narrative use is defined as LWP = Livestock and Wildlife Protection);

DWS = Drinking Water Supply;

IND = Industrial water supply

10 CSR 20-7.031(1)(C)8-11.: Wetlands (10 CSR 20-7.031 Table A currently does not have corresponding habitat use criteria for these defined uses)

WSA = Storm- and flood-water storage and attenuation; **WHP** = Habitat for resident and migratory wildlife species;

WRC = Recreational, cultural, educational, scientific, and natural aesthetic values and uses; **WHC** = Hydrologic cycle maintenance.

10 CSR 20-7.031(6): **GRW** = Groundwater

303(d) List:

Section 303(d) of the federal Clean Water Act requires that each state identify waters that are not meeting water quality standards and for which adequate water pollution controls have not been required. Water quality standards protect such beneficial uses of water as whole body contact (such as swimming), maintaining fish and other aquatic life, and providing drinking water for people, livestock and wildlife. The 303(d) list helps state and federal agencies keep track of waters that are impaired but not addressed by normal water pollution control programs.

- ✓ Applicable. Indian Creek is listed on the 1998 Missouri 303(d) List for E. coli.
- ✓ This facility is not considered to be a source of the above listed pollutant(s) or considered to contribute to the impairment of Indian Creek.

Total Maximum Daily Load (TMDL):

A TMDL is a calculation of the maximum amount of a given pollutant that a body of water can absorb before its water quality is affected; hence, the purpose of a TMDL is to determine the pollutant loading a specific waterbody can assimilate without exceeding water quality standards. If a water body is determined to be impaired as listed on the 303(d) list, then a watershed management plan will be developed that shall include the TMDL calculation.

- ✓ Applicable. Indian Creek is associated with the Elk River Basin 2004 EPA Approved TMDL for total nitrogen and phosphorous.
- ✓ This facility is not considered to be a source of the above listed pollutant(s) or considered to contribute to the impairment of Indian Creek.

Part IV – Rationale and Derivation of Effluent Limitations & Permit Conditions

ALTERNATIVE EVALUATIONS FOR NEW FACILITIES:

As per [10 CSR 20-7.015(4)(A)], discharges to losing streams shall be permitted only after other alternatives including land application, discharges to a gaining stream and connection to a regional wastewater treatment facility have been evaluated and determined to be unacceptable for environmental and/or economic reasons.

- ✓ Not Applicable; The facility does not discharge to a Losing Stream as defined by [10 CSR 20-2.010(36)] & [10 CSR 20-7.031(1)(N)], or is an existing facility.

ANTI-BACKSLIDING:

A provision in the Federal Regulations [CWA §303(d)(4); CWA §402(c); 40 CFR Part 122.44(I)] that requires a reissued permit to be as stringent as the previous permit with some exceptions.

- ✓ Limitations in this operating permit for the reissuance of this permit conform to the anti-backsliding provisions of Section 402(o) of the Clean Water Act, and 40 CFR Part 122.44.

- ✓ The Department determines that technical mistakes or mistaken interpretations of law were made in issuing the permit under section 402(a)(1)(b). The requirements for stormwater and in-stream monitoring were removed from state regulations in 2012 and therefore not included with this permit renewal. Stormwater runoff and in-stream monitoring conducted by the facility from 1997 to 2012 was reviewed and shows no indication that a reasonable potential exists for the Opal Foods Neosho Farms to violate water quality standards when it is managed and operated in accordance with permit requirements.

ANTIDegradation:

In accordance with Missouri's Water Quality Standard [10 CSR 20-7.031(2)], the Department is to document by means of Antidegradation Review that the use of a water body's available assimilative capacity is justified. Degradation is justified by documenting the socio-economic importance of a discharging activity after determining the necessity of the discharge.

- ✓ No degradation proposed and no further review necessary. Facility did not apply for authorization to increase pollutant loading or to add additional pollutants to their discharge.

AREA-WIDE WASTE TREATMENT MANAGEMENT & CONTINUING AUTHORITY:

As per [10 CSR 20-6.010(3)(B)], ...An applicant may utilize a lower preference continuing authority by submitting, as part of the application, a statement waiving preferential status from each existing higher preference authority, providing the waiver does not conflict with any area-wide management plan approved under section 208 of the Federal Clean Water Act or any other regional sewage service and treatment plan approved for higher preference authority by the Department.

BIOSOLIDS & SEWAGE SLUDGE:

Biosolids are solid materials resulting from domestic wastewater treatment that meet federal and state criteria for beneficial uses (i.e. fertilizer). Sewage sludge is solids, semi-solids, or liquid residue generated during the treatment of domestic sewage in a treatment works; including but not limited to, domestic septage; scum or solids removed in primary, secondary, or advanced wastewater treatment process; and a material derived from sewage sludge. Sewage sludge does not include ash generated during the firing of sewage sludge in a sewage sludge incinerator or grit and screening generated during preliminary treatment of domestic sewage in a treatment works. Additional information regarding biosolids and sludge is located at the following web address:

<http://extension.missouri.edu/main/DisplayCategory.aspx?C=74>, items WQ422 through WQ449.

- ✓ Not applicable; this condition is not applicable to the permittee for this facility.

COMPLIANCE AND ENFORCEMENT:

Enforcement is the action taken by the Water Protection Program (WPP) to bring an entity into compliance with the Missouri Clean Water Law, its implementing regulations, and/or any terms and conditions of an operating permit. The primary purpose of the enforcement activity in the WPP is to resolve violations and return the entity to compliance.

- ✓ Not Applicable; The permittee/facility is not currently under Water Protection Program enforcement action.

SCHEDULE OF COMPLIANCE (SOC):

Per 644.051.4 RSMo, a permit may be issued with a Schedule of Compliance (SOC) to provide time for a facility to come into compliance with new state or federal effluent regulations, water quality standards, or other requirements. Such a schedule is not allowed if the facility is already in compliance with the new requirement, or if prohibited by other statute or regulation. A SOC includes an enforceable sequence of interim requirements (actions, operations, or milestone events) leading to compliance with the Missouri Clean Water Law, its implementing regulations, and/or the terms and conditions of an operating permit. *See also* Section 502(17) of the Clean Water Act, and 40 CFR §122.2. For new effluent limitations, the permit includes interim monitoring for the specific parameter to demonstrate the facility is not already in compliance with the new requirement. Per 40 CFR § 122.47(a)(1) and 10 CSR 20-7.031(10), compliance must occur as soon as possible. If the permit provides a schedule for meeting new water quality based effluent limits, a SOC must include an enforceable, final effluent limitation in the permit even if the SOC extends beyond the life of the permit.

A SOC is not allowed:

- For effluent limitations based on technology-based standards established in accordance with federal requirements, if the deadline for compliance established in federal regulations has passed. 40 CFR § 125.3.
- For a newly constructed facility in most cases. Newly constructed facilities must meet applicable effluent limitations when discharge begins, because the facility has installed the appropriate control technology as specified in a permit or antidegradation review. A SOC is allowed for a new water quality based effluent limit that was not included in a previously public noticed permit or antidegradation review, which may occur if a regulation changes during construction.
- To develop a TMDL, UAA, or other study associated with development of a site specific criterion. A facility is not prohibited from conducting these activities, but a SOC may not be granted for conducting these activities.

In order to provide guidance to Permit Writers in developing SOCs, and attain a greater level of consistency, on October 25, 2012 the department issued a policy on development of SOCs. This policy provides guidance to Permit Writers on the standard time frames for schedules for common activities, and guidance on factors that may modify the length of the schedule such as an affordability analysis.

✓ Not Applicable; This permit does not contain a SOC.

SPILL REPORTING:

Per 10 CSR 24-3.010, any emergency involving a hazardous substance must be reported to the department's 24 hour Environmental Emergency Response hotline at (573) 634-2436 at the earliest practicable moment after discovery. The department may require the submittal of a written report detailing measures taken to clean up a spill. These reporting requirements apply whether or not the spill results in chemicals or materials leaving the permitted property or reaching waters of the state. This requirement is in addition to the Noncompliance Reporting requirement found in Standard Conditions Part I.

STORM WATER POLLUTION PREVENTION PLAN (SWPPP):

In accordance with 40 CFR 122.44(k) *Best Management Practices (BMPs)* to control or abate the discharge of pollutants when: (1) Authorized under section 304(e) of the Clean Water Act (CWA) for the control of toxic pollutants and hazardous substances from ancillary industrial activities; (2) Authorized under section 402(p) of the CWA for the control of storm water discharges; (3) Numeric effluent limitations are infeasible; or (4) the practices are reasonably necessary to achieve effluent limitations and standards or to carry out the purposes and intent of the CWA.

In accordance with the EPA's *Developing Your Stormwater Pollution Prevention Plan, A Guide for Industrial Operators*, (Document number EPA 833-B-09-002) [published by the United States Environmental Protection Agency (USEPA) in February 2009], BMPs are measures or practices used to reduce the amount of pollution entering (regarding this operating permit) waters of the state. BMPs may take the form of a process, activity, or physical structure.

Additionally in accordance with the Storm Water Management, a SWPPP is a series of steps and activities to (1) identify sources of pollution or contamination, and (2) select and carry out actions which prevent or control the pollution of storm water discharges.

✓ Not Applicable; At this time, the permittee is not required to develop and implement a SWPPP.

VARIANCE:

As per the Missouri Clean Water Law § 644.061.4, variances shall be granted for such period of time and under such terms and conditions as shall be specified by the commission in its order. The variance may be extended by affirmative action of the commission. In no event shall the variance be granted for a period of time greater than is reasonably necessary for complying with the Missouri Clean Water Law §§644.006 to 644.141 or any standard, rule or regulation promulgated pursuant to Missouri Clean Water Law §§644.006 to 644.141.

✓ Not Applicable; This operating permit is not drafted under premises of a petition for variance.

WATER QUALITY STANDARDS:

Per [10 CSR 20-7.031(3)], General Criteria shall be applicable to all waters of the state at all times including mixing zones. Additionally, [40 CFR 122.44(d)(1)] directs the Department to establish in each NPDES permit to include conditions to achieve water quality established under Section 303 of the Clean Water Act, including State narrative criteria for water quality.

40 CFR 122.41(M) - BYPASSES:

The federal Clean Water Act (CWA), Section 402 prohibits wastewater dischargers from "bypassing" untreated or partially treated sewage (wastewater) beyond the headworks. A bypass is defined as an intentional diversion of waste streams from any portion of a treatment facility, [40 CFR 122.41(m)(1)(i)]. Additionally, Missouri regulation 10 CSR 20-2.010(11) defines a bypass as the diversion of wastewater from any portion of wastewater treatment facility or sewer system to waters of the state. Only under exceptional and specified limitations do the federal regulations allow for a facility to bypass some or all of the flow from its treatment process. Bypasses are prohibited by the CWA unless a permittee can meet all of the criteria listed in 40 CFR 122.41(m)(4)(i)(A), (B), & (C). Any bypasses from this facility are subject to the reporting required in 40 CFR 122.41(l)(6) and per Missouri's Standard Conditions I, Section B, part 2.b. Additionally, Anticipated Bypasses include bypasses from peak flow basins or similar devices designed for peak wet weather flows.

✓ Not Applicable; This facility does not anticipate bypassing.

Part V – Permit Limits Determination

All Permitted Features and Land Application Areas – Emergency Discharge

There are no effluent limits associated with all Permitted Features and land application areas for the no-discharge facility. However, the following is required for an emergency discharge. Monitoring requirement only based on best professional judgment.

EMERGENCY DISCHARGE TABLE:

PARAMETER	UNIT	DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MODIFIED	PREVIOUS PERMIT LIMITATIONS
Flow	MGD	*			NO	*
Biochemical Oxygen Demand ₅	mg/L	*			NO	*
Ammonia as N	mg/L	*			NO	*
pH	SU	*			NO	≥ 6
Dissolved Oxygen	mg/L	*			NO	*
Duration	hours	*			NO	*
Temperature	°C	removed			YES	*
Monitoring Frequency	Please see Minimum Sampling and Reporting Frequency Requirements in the Derivation and Discussion Section below.					

* - Monitoring requirement only

** - # of colonies/100mL; the Monthly Average for E. coli is a geometric mean.

*** - Parameter not established in previous state operating permit.

- **Minimum Sampling and Reporting Frequency Requirements.**

PARAMETER	SAMPLING FREQUENCY	REPORTING FREQUENCY
Flow	once/day while discharging	Test results are due on the 28 th day of the month after the cessation of the discharge
Biochemical Oxygen Demand ₅	once/day while discharging	
Ammonia as N	once/day while discharging	
pH	once/day while discharging	
Dissolved Oxygen	once/day while discharging	
Duration	once/day while discharging	

Part VI – Administrative Requirements

On the basis of preliminary staff review and the application of applicable standards and regulations, the Department, as administrative agent for the Missouri Clean Water Commission, proposes to issue a permit(s) subject to certain effluent limitations, schedules, and special conditions contained herein and within the operating permit. The proposed determinations are tentative pending public comment.

PERMIT SYNCHRONIZATION:

The Department of Natural Resources is currently undergoing a synchronization process for operating permits. Permits are normally issued on a five-year term, but to achieve synchronization many permits will need to be issued for less than the full five years allowed by regulation. The intent is that all permits within a watershed will move through the Watershed Based Management (WBM) cycle together will all expire in the same fiscal year. This will allow further streamlining by placing multiple permits within a smaller geographic area on public notice simultaneously, thereby reducing repeated administrative efforts. This will also allow the department to explore a watershed based permitting effort at some point in the future. Renewal applications must continue to be submitted within 180 days of expiration, however, in instances where effluent data from the previous renewal is less than 4 years old, that data may be re-submitted to meet the requirements of the renewal application. If the permit provides a schedule of compliance for meeting new water quality based effluent limits beyond the expiration date of the permit, the time remaining in the schedule of compliance will be allotted in the renewed permit.

PUBLIC NOTICE:

The Department shall give public notice that a draft permit has been prepared and its issuance is pending. Additionally, public notice will be issued if a public hearing is to be held because of a significant degree of interest in and water quality concerns related to a draft permit. No public notice is required when a request for a permit modification or termination is denied; however, the requester and permittee must be notified of the denial in writing.

The Department must issue public notice of a pending operating permit or of a new or reissued statewide general permit. The public comment period is the length of time not less than 30 days following the date of the public notice which interested persons may submit written comments about the proposed permit.

For persons wanting to submit comments regarding this proposed operating permit, then please refer to the Public Notice page located at the front of this draft operating permit. The Public Notice page gives direction on how and where to submit appropriate comments.

- ✓ The Public Notice period for this operating permit was from October 7, 2016 to November 7, 2016 were responses received.

DATE OF FACT SHEET: NOVEMBER 18, 2016

COMPLETED BY: GREG CALDWELL

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MISSOURI DEPARTMENT OF NATURAL RESOURCES
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STANDARD CONDITIONS FOR NPDES PERMITS
ISSUED BY
THE MISSOURI DEPARTMENT OF NATURAL RESOURCES
MISSOURI CLEAN WATER COMMISSION
REVISED
AUGUST 1, 2014

These Standard Conditions incorporate permit conditions as required by 40 CFR 122.41 or other applicable state statutes or regulations. These minimum conditions apply unless superseded by requirements specified in the permit.

Part I – General Conditions

Section A – Sampling, Monitoring, and Recording

1. **Sampling Requirements.**
 - a. Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.
 - b. All samples shall be taken at the outfall(s) or Missouri Department of Natural Resources (Department) approved sampling location(s), and unless specified, before the effluent joins or is diluted by any other body of water or substance.
2. **Monitoring Requirements.**
 - a. Records of monitoring information shall include:
 - i. The date, exact place, and time of sampling or measurements;
 - ii. The individual(s) who performed the sampling or measurements;
 - iii. The date(s) analyses were performed;
 - iv. The individual(s) who performed the analyses;
 - v. The analytical techniques or methods used; and
 - vi. The results of such analyses.
 - b. If the permittee monitors any pollutant more frequently than required by the permit at the location specified in the permit using test procedures approved under 40 CFR Part 136, or another method required for an industry-specific waste stream under 40 CFR subchapters N or O, the results of such monitoring shall be included in the calculation and reported to the Department with the discharge monitoring report data (DMR) submitted to the Department pursuant to Section B, paragraph 7.
3. **Sample and Monitoring Calculations.** Calculations for all sample and monitoring results which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in the permit.
4. **Test Procedures.** The analytical and sampling methods used shall conform to the reference methods listed in 10 CSR 20-7.015 unless alternates are approved by the Department. The facility shall use sufficiently sensitive analytical methods for detecting, identifying, and measuring the concentrations of pollutants. The facility shall ensure that the selected methods are able to quantify the presence of pollutants in a given discharge at concentrations that are low enough to determine compliance with Water Quality Standards in 10 CSR 20-7.031 or effluent limitations unless provisions in the permit allow for other alternatives. A method is “sufficiently sensitive” when; 1) the method minimum level is at or below the level of the applicable water quality criterion for the pollutant or, 2) the method minimum level is above the applicable water quality criterion, but the amount of pollutant in a facility’s discharge is high enough that the method detects and quantifies the level of pollutant in the discharge, or 3) the method has the lowest minimum level of the analytical methods approved under 10 CSR 20-7.015. These methods are also required for parameters that are listed as monitoring only, as the data collected may be used to determine if limitations need to be established. A permittee is responsible for working with their contractors to ensure that the analysis performed is sufficiently sensitive.
5. **Record Retention.** Except for records of monitoring information required by the permit related to the permittee’s sewage sludge use and disposal activities, which shall be retained for a period of at least five (5) years (or longer as required by 40 CFR part 503), the permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by the permit, and records of all data used to complete the application for the permit, for a period of at least three (3) years from the date of the sample, measurement, report or application. This period may be extended by request of the Department at any time.

6. **Illegal Activities.**
 - a. The Federal Clean Water Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under the permit shall, upon conviction, be punished by a fine of not more than \$10,000, or by imprisonment for not more than two (2) years, or both. If a conviction of a person is for a violation committed after a first conviction of such person under this paragraph, punishment is a fine of not more than \$20,000 per day of violation, or by imprisonment of not more than four (4) years, or both.
 - b. The Missouri Clean Water Law provides that any person or who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained pursuant to sections 644.006 to 644.141 shall, upon conviction, be punished by a fine of not more than \$10,000, or by imprisonment for not more than six (6) months, or by both. Second and successive convictions for violation under this paragraph by any person shall be punished by a fine of not more than \$50,000 per day of violation, or by imprisonment for not more than two (2) years, or both.

Section B – Reporting Requirements

1. **Planned Changes.**
 - a. The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility when:
 - i. The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in 40 CFR 122.29(b); or
 - ii. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements under 40 CFR 122.42;
 - iii. The alteration or addition results in a significant change in the permittee’s sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan;
 - iv. Any facility expansions, production increases, or process modifications which will result in a new or substantially different discharge or sludge characteristics must be reported to the Department 60 days before the facility or process modification begins. Notification may be accomplished by application for a new permit. If the discharge does not violate effluent limitations specified in the permit, the facility is to submit a notice to the Department of the changed discharge at least 30 days before such changes. The Department may require a construction permit and/or permit modification as a result of the proposed changes at the facility.
2. **Non-compliance Reporting.**
 - a. The permittee shall report any noncompliance which may endanger health or the environment. Relevant information shall be provided orally or via the current electronic method approved by the Department, within 24 hours from the time the permittee becomes aware of the circumstances, and shall be reported to the appropriate Regional Office during normal business hours or the Environmental Emergency Response hotline at 573-634-2436 outside of normal business hours. A written submission shall also be provided within five (5) business days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.



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- b. The following shall be included as information which must be reported within 24 hours under this paragraph.
 - i. Any unanticipated bypass which exceeds any effluent limitation in the permit.
 - ii. Any upset which exceeds any effluent limitation in the permit.
 - iii. Violation of a maximum daily discharge limitation for any of the pollutants listed by the Department in the permit required to be reported within 24 hours.
 - c. The Department may waive the written report on a case-by-case basis for reports under paragraph 2. b. of this section if the oral report has been received within 24 hours.
3. **Anticipated Noncompliance.** The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements. The notice shall be submitted to the Department 60 days prior to such changes or activity.
 4. **Compliance Schedules.** Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of the permit shall be submitted no later than 14 days following each schedule date. The report shall provide an explanation for the instance of noncompliance and a proposed schedule or anticipated date, for achieving compliance with the compliance schedule requirement.
 5. **Other Noncompliance.** The permittee shall report all instances of noncompliance not reported under paragraphs 2, 3, and 6 of this section, at the time monitoring reports are submitted. The reports shall contain the information listed in paragraph 2. a. of this section.
 6. **Other Information.** Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Department, it shall promptly submit such facts or information.
 7. **Discharge Monitoring Reports.**
 - a. Monitoring results shall be reported at the intervals specified in the permit.
 - b. Monitoring results must be reported to the Department via the current method approved by the Department, unless the permittee has been granted a waiver from using the method. If the permittee has been granted a waiver, the permittee must use forms provided by the Department.
 - c. Monitoring results shall be reported to the Department no later than the 28th day of the month following the end of the reporting period.
- b. Notice.
 - i. Anticipated bypass. If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least 10 days before the date of the bypass.
 - ii. Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in Section B – Reporting Requirements, paragraph 5 (24-hour notice).
 - c. Prohibition of bypass.
 - i. Bypass is prohibited, and the Department may take enforcement action against a permittee for bypass, unless:
 1. Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
 2. There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
 3. The permittee submitted notices as required under paragraph 2. b. of this section.
 - ii. The Department may approve an anticipated bypass, after considering its adverse effects, if the Department determines that it will meet the three (3) conditions listed above in paragraph 2. c. i. of this section.
3. **Upset Requirements.**
 - a. Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with such technology based permit effluent limitations if the requirements of paragraph 3. b. of this section are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.
 - b. Conditions necessary for a demonstration of upset. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
 - i. An upset occurred and that the permittee can identify the cause(s) of the upset;
 - ii. The permitted facility was at the time being properly operated; and
 - iii. The permittee submitted notice of the upset as required in Section B – Reporting Requirements, paragraph 2. b. ii. (24-hour notice).
 - iv. The permittee complied with any remedial measures required under Section D – Administrative Requirements, paragraph 4.
 - c. Burden of proof. In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.

Section C – Bypass/Upset Requirements

1. **Definitions.**
 - a. *Bypass*: the intentional diversion of waste streams from any portion of a treatment facility, except in the case of blending.
 - b. *Severe Property Damage*: substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.
 - c. *Upset*: an exceptional incident in which there is unintentional and temporary noncompliance with technology based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.
2. **Bypass Requirements.**
 - a. Bypass not exceeding limitations. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of paragraphs 2. b. and 2. c. of this section.

Section D – Administrative Requirements

1. **Duty to Comply.** The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Missouri Clean Water Law and Federal Clean Water Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application.
 - a. The permittee shall comply with effluent standards or prohibitions established under section 307(a) of the Federal Clean Water Act for toxic pollutants and with standards for sewage sludge use or disposal established under section 405(d) of the CWA within the time provided in the regulations that establish these standards or prohibitions or standards for sewage sludge use or disposal, even if the permit has not yet been modified to incorporate the requirement.
 - b. The Federal Clean Water Act provides that any person who violates section 301, 302, 306, 307, 308, 318 or 405 of the Act, or any permit condition or limitation implementing any such sections in a permit issued under section 402, or any requirement imposed in a pretreatment program approved under sections 402(a)(3) or 402(b)(8) of the Act, is subject to a civil penalty not to exceed \$25,000 per day for each violation. The Federal Clean Water Act provides that any person who negligently violates sections 301, 302, 306, 307, 308, 318, or 405 of the Act, or any condition or limitation implementing any of such sections in a permit issued under section 402 of the Act, or any requirement



STANDARD CONDITIONS FOR NPDES PERMITS
ISSUED BY
THE MISSOURI DEPARTMENT OF NATURAL RESOURCES
MISSOURI CLEAN WATER COMMISSION
REVISED
AUGUST 1, 2014

- imposed in a pretreatment program approved under section 402(a)(3) or 402(b)(8) of the Act, is subject to criminal penalties of \$2,500 to \$25,000 per day of violation, or imprisonment of not more than one (1) year, or both. In the case of a second or subsequent conviction for a negligent violation, a person shall be subject to criminal penalties of not more than \$50,000 per day of violation, or by imprisonment of not more than two (2) years, or both. Any person who knowingly violates such sections, or such conditions or limitations is subject to criminal penalties of \$5,000 to \$50,000 per day of violation, or imprisonment for not more than three (3) years, or both. In the case of a second or subsequent conviction for a knowing violation, a person shall be subject to criminal penalties of not more than \$100,000 per day of violation, or imprisonment of not more than six (6) years, or both. Any person who knowingly violates section 301, 302, 303, 306, 307, 308, 318 or 405 of the Act, or any permit condition or limitation implementing any of such sections in a permit issued under section 402 of the Act, and who knows at that time that he thereby places another person in imminent danger of death or serious bodily injury, shall, upon conviction, be subject to a fine of not more than \$250,000 or imprisonment of not more than 15 years, or both. In the case of a second or subsequent conviction for a knowing endangerment violation, a person shall be subject to a fine of not more than \$500,000 or by imprisonment of not more than 30 years, or both. An organization, as defined in section 309(c)(3)(B)(iii) of the CWA, shall, upon conviction of violating the imminent danger provision, be subject to a fine of not more than \$1,000,000 and can be fined up to \$2,000,000 for second or subsequent convictions.
- c. Any person may be assessed an administrative penalty by the EPA Director for violating section 301, 302, 306, 307, 308, 318 or 405 of this Act, or any permit condition or limitation implementing any of such sections in a permit issued under section 402 of this Act. Administrative penalties for Class I violations are not to exceed \$10,000 per violation, with the maximum amount of any Class I penalty assessed not to exceed \$25,000. Penalties for Class II violations are not to exceed \$10,000 per day for each day during which the violation continues, with the maximum amount of any Class II penalty not to exceed \$125,000.
- d. It is unlawful for any person to cause or permit any discharge of water contaminants from any water contaminant or point source located in Missouri in violation of sections 644.006 to 644.141 of the Missouri Clean Water Law, or any standard, rule or regulation promulgated by the commission. In the event the commission or the director determines that any provision of sections 644.006 to 644.141 of the Missouri Clean Water Law or standard, rules, limitations or regulations promulgated pursuant thereto, or permits issued by, or any final abatement order, other order, or determination made by the commission or the director, or any filing requirement pursuant to sections 644.006 to 644.141 of the Missouri Clean Water Law or any other provision which this state is required to enforce pursuant to any federal water pollution control act, is being, was, or is in imminent danger of being violated, the commission or director may cause to have instituted a civil action in any court of competent jurisdiction for the injunctive relief to prevent any such violation or further violation or for the assessment of a penalty not to exceed \$10,000 per day for each day, or part thereof, the violation occurred and continues to occur, or both, as the court deems proper. Any person who willfully or negligently commits any violation in this paragraph shall, upon conviction, be punished by a fine of not less than \$2,500 nor more than \$25,000 per day of violation, or by imprisonment for not more than one year, or both. Second and successive convictions for violation of the same provision of this paragraph by any person shall be punished by a fine of not more than \$50,000 per day of violation, or by imprisonment for not more than two (2) years, or both.
2. **Duty to Reapply.**
- a. If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit.
- b. A permittee with a currently effective site-specific permit shall submit an application for renewal at least 180 days before the expiration date of the existing permit, unless permission for a later date has been granted by the Department. (The Department shall not grant permission for applications to be submitted later than the expiration date of the existing permit.)
- c. A permittees with currently effective general permit shall submit an application for renewal at least 30 days before the existing permit expires, unless the permittee has been notified by the Department that an earlier application must be made. The Department may grant permission for a later submission date. (The Department shall not grant permission for applications to be submitted later than the expiration date of the existing permit.)
3. **Need to Halt or Reduce Activity Not a Defense.** It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
4. **Duty to Mitigate.** The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.
5. **Proper Operation and Maintenance.** The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of the permit.
6. **Permit Actions.**
- a. Subject to compliance with statutory requirements of the Law and Regulations and applicable Court Order, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to, the following:
- i. Violations of any terms or conditions of this permit or the law;
- ii. Having obtained this permit by misrepresentation or failure to disclose fully any relevant facts;
- iii. A change in any circumstances or conditions that requires either a temporary or permanent reduction or elimination of the authorized discharge; or
- iv. Any reason set forth in the Law or Regulations.
- b. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.
7. **Permit Transfer.**
- a. Subject to 10 CSR 20-6.010, an operating permit may be transferred upon submission to the Department of an application to transfer signed by the existing owner and the new owner, unless prohibited by the terms of the permit. Until such time the permit is officially transferred, the original permittee remains responsible for complying with the terms and conditions of the existing permit.
- b. The Department may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary under the Missouri Clean Water Law or the Federal Clean Water Act.
- c. The Department, within 30 days of receipt of the application, shall notify the new permittee of its intent to revoke or reissue or transfer the permit.
8. **Toxic Pollutants.** The permittee shall comply with effluent standards or prohibitions established under section 307(a) of the Federal Clean Water Act for toxic pollutants and with standards for sewage sludge use or disposal established under section 405(d) of the Federal Clean Water Act within the time provided in the regulations that establish these standards or prohibitions or standards for sewage sludge use or disposal, even if the permit has not yet been modified to incorporate the requirement.
9. **Property Rights.** This permit does not convey any property rights of any sort, or any exclusive privilege.



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10. **Duty to Provide Information.** The permittee shall furnish to the Department, within a reasonable time, any information which the Department may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The permittee shall also furnish to the Department upon request, copies of records required to be kept by this permit.
11. **Inspection and Entry.** The permittee shall allow the Department, or an authorized representative (including an authorized contractor acting as a representative of the Department), upon presentation of credentials and other documents as may be required by law, to:
 - a. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of the permit;
 - b. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
 - c. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
 - d. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Federal Clean Water Act or Missouri Clean Water Law, any substances or parameters at any location.
12. **Closure of Treatment Facilities.**
 - a. Persons who cease operation or plan to cease operation of waste, wastewater, and sludge handling and treatment facilities shall close the facilities in accordance with a closure plan approved by the Department.
 - b. Operating Permits under 10 CSR 20-6.010 or under 10 CSR 20-6.015 are required until all waste, wastewater, and sludges have been disposed of in accordance with the closure plan approved by the Department and any disturbed areas have been properly stabilized. Disturbed areas will be considered stabilized when perennial vegetation, pavement, or structures using permanent materials cover all areas that have been disturbed. Vegetative cover, if used, shall be at least 70% plant density over 100% of the disturbed area.
13. **Signatory Requirement.**
 - a. All permit applications, reports required by the permit, or information requested by the Department shall be signed and certified. (See 40 CFR 122.22 and 10 CSR 20-6.010)
 - b. The Federal Clean Water Act provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or non-compliance shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than six (6) months per violation, or by both.
 - c. The Missouri Clean Water Law provides that any person who knowingly makes any false statement, representation or certification in any application, record, report, plan, or other document filed or required to be maintained pursuant to sections 644.006 to 644.141 shall, upon conviction, be punished by a fine of not more than ten thousand dollars, or by imprisonment for not more than six months, or by both.
14. **Severability.** The provisions of the permit are severable, and if any provision of the permit, or the application of any provision of the permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of the permit, shall not be affected thereby.

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MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER PROTECTION PROGRAM

**FORM W - CONCENTRATED ANIMAL FEEDING OPERATION
(CAFO) OPERATING PERMIT APPLICATION**

Water Protection Program

FOR OFFICE USE ONLY

CHECK NUMBER:

DATE RECEIVED

FEE SUBMITTED

Complete all applicable sections for type of permit being applied for. Instructions for completing the form are located at the end of the form. Sign, date and return the form and all requested documents along with a check for \$150 payable to the Missouri Department of Natural Resources. Make a copy of this completed form and keep it with your Nutrient Management Plan.

PART 1 – PERMIT OWNERSHIP/CONTACT INFORMATION

1.1 OPERATION NAME Opal Foods, LLC - Neosho Farms		CURRENT PERMIT NUMBER MO-0122840	COUNTY Newton
PHYSICAL ADDRESS School Farm: 17684 Hwy D; Hathaway Farm: 17331 Hwy D; Timberview Farm: 19242 Mallard Dr.			TELEPHONE NUMBER WITH AREA CODE
CITY Neosho	STATE MO	ZIP CODE 64850	
1.2 OWNER (PROVIDE LEGAL NAME) Opal Foods, LLC		EMAIL ADDRESS info@opal-foods.com	
MAILING ADDRESS 1100 Blair Avenue			TELEPHONE NUMBER WITH AREA CODE (417) 455-5000
CITY Neosho	STATE MO	ZIP CODE 64850	
1.3 CONTINUING AUTHORITY (IF DIFFERENT THAN THE OWNER) Same As Above			
MAILING ADDRESS			TELEPHONE NUMBER WITH AREA CODE
CITY	STATE	ZIP CODE	

PART 2 – PERMIT TYPE, ACTION, AND NUTRIENT MANAGEMENT PLAN OR NMP

<p>2.1 PERMIT TYPE</p> <p><input checked="" type="checkbox"/> NPDES Permit NMP is required to be submitted with application. (Must also complete Land Application Information page)</p> <p><input type="checkbox"/> State No-Discharge Permit NMP is not required to be submitted. The date soil tests were taken that was used in development of the NMP. (Month/Year)</p>	<p>2.2 Permit Action</p> <p><input type="checkbox"/> New Permit <input checked="" type="checkbox"/> Renewal</p> <p><input type="checkbox"/> Modification (including Ownership Transfer)</p> <p>Previous Owner _____ Name _____ Address _____ City, State, Zip Code _____ Previous Owner's Signature _____ Date _____</p>
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PART 3 – DESIGN CAPACITY FOR MANURE STORAGE AND ANIMALS OF EACH CAFO FEATURE

(All information to complete this section is in your current operating or construction permit. Attach additional sheets if necessary)

3.1 STORAGE STRUCTURE TYPES, AMOUNT OF STORAGE, AND AMOUNT OF MANURE GENERATED PER YEAR.

CAFO Feature	List All Manure Storage Structures at each CAFO Feature Storage Structure Type(s)	Dry Manure Handling System		Wet Manure Handling System			
		Design Dry Process Waste (tons/yr.)	Days of Storage	Total Storage Capacity (gal)	Design Wastewater per Year (gal./yr.)	Days of Storage	Design Flow MGD
001	(F) - 14 Buildings - See Attached Table in NMP	132,768	112	N/A	N/A	N/A	N/A
002							
003							
004							
005							

3.2 LIST EACH TYPE OF ANIMAL IN CONFINEMENT AND THE NUMBER OF EACH ANIMAL TYPE.

CAFO Feature	Animal Category #1	Animal Numbers	Animal Category #2	Animal Numbers	Animal Category #3	Animal Numbers
001	(8) Layer Chickens	4,700,000				
002	(10) Pullet Chickens	1,500,000				
003						
004						
005						

PART 4 – OPERATIONAL INFORMATION

4.1 OPERATIONAL INFORMATION (SEE INSTRUCTIONS) SIC Code(s) 0251 & 252	CAFO Class Size IA
4.2 Is this an "Export Only" operation?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
4.3 Are spreading agreements current?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable

PARTS 5 through 11 meet the NMP requirements for an export only operation.

PART 5- MANURE STORAGE

State regulations require CAFOs to ensure adequate storage of manure, litter, or process wastewater, including the proper operation and maintenance of each storage facility.

5.1 Does each storage structure have adequate storage, properly operated and maintained so as not to discharge? Yes No

PART 6 - ANIMAL MORTALITY

State regulations require proper management of animal mortalities be in place at all CAFOs. There should be no discharge from dead animal collection, holding, or disposal areas at the CAFO's production areas. In addition, the Missouri Department of Agriculture requires the collection or disposal of dead animals in accordance with the Dead Animal Disposal Law under Chapter 269 RSMo.

6.1 PERMANENT METHOD OF ANIMAL MORTALITY HANDLING OR DISPOSAL; CHOOSE APPLICABLE METHOD(S)

Composting Rendering Send to a Landfill Incineration Other (Describe)

6.2 DESCRIBE METHOD OF MORTALITY HANDLING AND STORAGE THROUGH ALL PHASES TO FINAL DISPOSAL. (EXAMPLE: MORTALITIES ARE COMPOSTED WITHIN 24 HOURS OF DEATH AND FINISHED COMPOST PRODUCT IS STORED UNDER ROOF UNTIL LAND APPLIED). ALSO DESCRIBE THE TYPE OF COMPOST STRUCTURE USED, IF APPLICABLE.

Stored onsite in dumpster until picked up and taken to landfill. Pick up occurs 3 times a week. No discharge from stored mortalities.

PART 7 - DIVERSION OF CLEAN WATER

State regulations require CAFOs to divert clean stormwater, as appropriate, around the production area.

7.1 Is clean stormwater diverted from the production area? Yes No

7.2 If yes, describe controls and measures used to divert stormwater.

All areas containing animals or waste are covered by roof or completely enclosed. Grading is such that rainwater is diverted away from the buildings.

7.3 IF NO, INCLUDE DESIGN CALCULATIONS (IF NOT INCLUDED IN THE ORIGINAL DESIGN) FOR DETERMINING THE TOTAL STORAGE CAPACITY NEEDED TO CONTAIN ALL CLEAN STORMWATER RUNOFF THAT HAS NOT BEEN DIVERTED FROM THE PRODUCTION AREA. NOTE: THE DEPARTMENT HIGHLY DISCOURAGES THIS PRACTICE.

PART 8 - PREVENT DIRECT CONTACT OF ANIMALS WITH SURFACE WATERS

State regulations require that CAFOs prevent the direct contact of confined animals with waters of the state.

8.1 Do the animals have access to waters of the state within the production area? Yes No

8.2 LIST MEASURES USED TO PREVENT ANIMALS FROM HAVING DIRECT CONTACT WITH WATERS OF THE STATE WITHIN THE PRODUCTION AREA.

Animals are confined to buildings at all times.

PART 9 - CHEMICAL HANDLING

State regulations require chemicals and other contaminants handled on-site not be disposed of in any manure, litter, process wastewater, storm water storage or treatment system unless specifically designed to treat such chemicals and other contaminants

9.1 CHECK THE APPROPRIATE BOXES BELOW TO INDICATE THE MEASURES TAKEN TO PREVENT CHEMICALS (INCLUDING PESTICIDES, COMMERCIAL FERTILIZERS, HAZARDOUS AND TOXIC CHEMICALS AND PETROLEUM BY-PRODUCTS) FROM CONTAMINATING MANURE STORAGE STRUCTURES, PROCESS WASTEWATER OR STORM WATER STORAGE AND TREATMENT SYSTEMS:

- Chemicals are stored in proper containers. (Describe)
See maintenance plan.
- Chemicals that are no longer used or expired are properly disposed of. (Describe)
See maintenance plan.
- Chemical storage and handling areas are protected from precipitation and runoff, and any spillage is contained within these areas. (Describe)
See maintenance plan.
- Emergency procedures and equipment are in place to contain and clean up chemical spills. (Describe)
See maintenance plan.
- Equipment wash areas are designed and constructed to prevent contamination of surface waters and wastewater and storm water storage and treatment systems. (Describe)
See maintenance plan.
- Chemicals are handled and used according to the label. (Describe)
See maintenance plan.
- No chemicals are stored or handled in the production area.

PART 10 - MANURE ANALYSIS TESTING

State regulations require that each unique source of manure be tested annually for nutrient content.

10.1 LIST EACH TYPE OF MANURE SOURCE. (i. e. MANURE, LITTER, COMPOST, WASTE WATER.)

All

10.2 DESCRIBE THE PROCEDURES TO ENSURE EACH UNIQUE SOURCE IS TESTED ANNUALLY.

Manure /Litter / Compost is tested prior to being land applied. Wastewater is sent to the Neosho WWTP.

PART 11 - RECORD KEEPING

State regulations require specific records to be maintained and kept for five years.

11.1 Are records of all inspections, manure transfers, discharges and land application maintained? Yes No

PART 12 - SIGNATURE

NAME VERNON FREELAND	TITLE PRODUCTION MANAGER
SIGNATURE <i>Vernon Freeland</i>	DATE 1-11-16

LAND APPLICATION INFORMATION (NPDES Permits only)

Operation Name:		Class Size:				Permit #:				County:				
Field Name	Legal Description	Spreadable Acres	P Loss Risk ²	N or P Based Application	Crop #1		Crop #2		Crop #3 ¹		Crop #4 ¹		Crop #5 ¹	
					Crop	Yield Goal ³	Crop	Yield Goal ³	Crop	Yield Goal ³	Crop	Yield Goal ³	Crop	Yield Goal ³
	Sec. Twp. Rng.													
	Sec. Twp. Rng.													
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SEE NUTRIENT MANAGEMENT PLAN

¹ If more than five planned or alternative crops per field continue on next line.
² Soil Test P Rating or P Index Rating may be used.
³ Express yield in Bu=Bushels or T=Tons per acre.

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Water Protection Program

NUTRIENT MANAGEMENT PLAN
for
OPAL FOODS
SCHOOL – HATHAWAY – TIMBERVIEW

January 2016

Prepared by
ALLGEIER, MARTIN & ASSOCIATES, INC.
Consulting Engineers
Joplin, Missouri

GENERAL INFORMATION

Background:

The Opal Foods Neosho, Missouri facilities are located in Newton County southeast of Neosho, Missouri. The production areas consist of three farms, School Farm, Hathaway Farm, and Timberview Farm. Opal Foods, LLC, is the owner and operator of the farms consisting of twenty 26 layer houses (12 at School Farm and 14 at Hathaway Farm) and 14 pullet houses (4 at School Farm and 10 at Timberview Farm) with the capacity to house approximately 4,700,000 laying hens and 1,500,000 pullets, respectively.

The facility operates under the Missouri Operating Permit Number MO-0122840 (See Appendix A). As stated in the permit, a Nutrient Management Plan (NMP) was required to be submitted by November 20, 2011. The implemented NMP at minimum must address the following, as stated in Missouri 10 CSR 20-6 (5):

- Ensures adequate storage of manure, litter and process wastewater, including procedures to ensure proper operation and maintenance of the storage facilities.
- Ensures proper management of mortalities.
- Ensures clean water is diverted from the production area.
- Prevents direct contact of confined animals with waters of the state.
- Ensures that chemicals and other contaminants handled on the site are not disposed of in any manure, litter, process wastewater, or storm water storage or treatment system unless specifically designed to treat such chemicals and other contaminants.
- Identifies appropriate site specific conservation practices to be implemented, including as appropriate buffers or equivalent practices, to control runoff of pollutants to waters of the state.
- Identifies protocols for appropriate testing of manure, litter, or process wastewater in accordance with site specific nutrient management practices.

- Establishes protocols to land apply manure, litter, or process wastewater in accordance with site specific nutrient management practices that ensure appropriate agricultural utilization of nutrients in the manure, litter, or process wastewater.
- Identifies specific records that will be maintained.

Production:

School Farm

The farm will consist of twelve (12) layer houses with capacity for 100,000 layers each, four (4) pullet houses with capacity for 50,000 pullets each, for a total of 1,200,000 layers and 200,000 pullets, and an egg processing facility. Average daily manure production for a layer at Opal Foods is approximately 0.14 LBS/Day of manure at approximately 45 LBS/CF. Consequently, for a bird population of 1,200,000 layers, daily manure production is estimated to be 168,000 LBS/Day or 3,733 CF/Day (1,363,478 CF/Year). Average manure production for a pullet is approximately 0.046 LBS/Day at 45 LBS/CF. Thus, for a bird population of 200,000 pullets, daily manure production is estimated to be 9,200 LBS/Day or 204 CF/Day (74,511 CF/Year). The combined total of manure production for the layer and pullets is 1,437,989 CF/Year. Mortalities are collected three times per week and properly disposed of at the landfill. No chemicals come in direct contact with the manure. A list of chemicals stored at the sites can be found in the facilities operation and maintenance plan.

Hathaway Farm

The farm will consist of 7 layer houses with capacity for 300,000 layers each, and 7 layer houses with capacity for 200,000 layers each, for a total of 3,500,000 layers, and an egg processing facility. Based on records at the Hathaway Farm, average daily manure production for a layer at Opal Foods is approximately 0.14 LBS/Day of manure at approximately 45 LBS/CF. Consequently, for a bird population of 3,500,000 layers, daily manure production is estimated to be 490,000 LBS/Day or 10,889 CF/Day (3,977,207 CF/Year). Mortalities are collected three times per week and properly disposed of at the landfill. No chemicals come in direct contact with the manure. A list of chemicals stored at the sites can be found in the facilities operation and maintenance plan.

Timberview Farm

The farm will consist of 4 pullet houses with a capacity of 200,000 pullets each, 4 pullet houses with a capacity of 100,000 pullets each, and 2 pullet houses with a capacity of 50,000 pullets each for a total of 1,300,000 pullets. Average manure production for a pullet is approximately 0.046 LBS/Day at 45 LBS/CF. Consequently, for a bird population of 1,300,000 pullets, daily manure production is estimated to be 59,800 LBS/Day or 1,329 CF/Day (485,417 CF/Year). Mortalities are collected three times per week and properly disposed of at the landfill. No chemicals come in direct contact with the manure. A list of chemicals stored at the sites can be found in the facilities operation and maintenance plan.

NUTRIENT MANAGEMENT PLAN

Operations:

The pullets and layers at the Hathaway and Timberview locations are confined in cages at all times. The birds at the School Farm have some freedom to move about around the house, but are still confined to the house. At all locations, the birds receive feed from on-site bins. Water is delivered to each cage by PVC pipes, where a low-pressure system is available to deliver water to the birds. Excess water leaking from the water system is intended to be caught by grooves in the manure drying system. Water that is caught in the grooves has air blowing over it to promote evaporation. If the grooves become full and overflow, the excess water will be dropped onto the manure belt. All structures are constructed watertight to prevent water from entering or leaving the structures and no manure is stored outside of houses where exposure to rainfall might occur. This is important to help insure clean water does not come into contact with the production facilities, which would allow an opportunity for the water to become contaminated.

Ventilation for the birds occurs when the exhaust fans turn on and pull fresh air in through inlet baffles. Outside air is also blown in through the aforementioned pipes located along the cage backs to aid in manure drying and fresh air access directly to each cage. Feathers and materials exhausted by the ventilation system will be contained on-site by either being caught between houses or caught in the baffle/screen located just beyond the ventilation exhaust location.

Mortalities are handled, and must continue to be handled in a manner that prevents them from comingling with liquid manure, storm water, and any other treatment system not specifically designed to treat mortalities.

The processing plants at both the Hathaway and School Farms collect their wastewater and discharge it to the City of Neosho's sanitary sewer system.

Manure Collection:

School Farm

The School Farm is a "Cage-Free" operation, thus, the birds are generally able to come and go from their cage, as they please, but are confined to the house at all time. Typically, even though the birds can exit the cages, they tend to stay within them. This allows the manure from each cage to fall onto a manure belt. Outside air blows through pipes down between the cage backs. Holes in the pipes direct air over the top of the manure belts to aid in drying and to bring fresh air directly to each cage. Periodically, the manure belts will be rotated, moving the waste toward the end of the building. At the end of the building the manure falls onto a secondary conveyor belt in the end of each pullet house. These secondary conveyors move the manure from inside the building to just outside the building and onto a third inclined conveyor belt. From that point the manure travels up the inclined belt for loading onto trucks to be transported to another approved manure storage location.

Manure deposited outside of the cages will typically remain in the house, protected from the elements until the house is vacated (approximately every 84 weeks). During clean out of the houses, the scattered manure will be gathered, and placed on the conveyer belt system, and moved out of the houses, as previously described.

The entire manure handling process, including the truck loading, must take place over the concrete pad provided at each loading location to insure manure does not escape and become a source of potential contamination. This loading process must also take place during dry weather to insure water is not allowed to wash through the manure or wash manure away from the site. Any spills during the process described in the preceding paragraph should be cleaned up immediately, and placed with the manure being hauled off to the approved storage or spreading location. Under no circumstances should spills be left on the loading pad overnight.

The manure will be stored at these approved locations until it is ready to be given to a local farming operation for application at agronomic rates or it is ready to be spread on the land owned and permitted through Opal Foods. At this time Opal Foods has not utilized their

permitted land for spreading, nor do they have an intention of utilizing this land in the near future.

Hathaway Farm

The manure from each cage of layers falls onto a manure belt. Outside air blows through pipes down between the cage backs. Holes in the pipes direct air over the top of the manure belts to aid in drying and to bring fresh air directly to each cage. Periodically, the manure belts will be rotated, moving the waste toward the end of the building. At the end of the building the manure falls onto a main conveyor belt in the tunnel that connects a series of houses together. From that point the manure travels down the tunnel on the conveyor belt to a third conveyer belt that raises the manure to the upper level of the manure holding building. Here the manure will be directly loaded onto trucks to be transported to another approved manure storage location or may be stored until being hauled off to an approved manure storage location. The manure will be stored at these approved locations until it is ready to be given to a local farming operation to be applied at agronomic rates or it is ready to be spread on the land owned and permitted through Opal Foods. At this time Opal Foods has not utilized their permitted land for spreading, nor do they have an intention of utilizing this land in the near future.

Timberview Farm

The manure from each cage of pullets falls onto a manure belt. Outside air blows through pipes down between the cage backs. Holes in the pipes direct air over the top of the manure belts to aid in drying and to bring fresh air directly to each cage. Periodically, the manure belts will be rotated, moving the waste toward the end of the building. At the end of the building the manure falls onto a secondary conveyor belt in the end of each pullet house. These secondary conveyors move the manure from inside the building to just outside the building and onto a third inclined conveyor belt. From that point the manure travels up the inclined belt for loading onto trucks to be transported to another approved manure storage location. This process, including the truck loading, must take place over the concrete pad provided at each loading location to insure manure does not escape and become a source of potential contamination. This loading process must also take place during dry weather to insure water is not allowed to wash through the manure or wash manure away from the site. Any spills during the process



described in the preceding paragraph should be cleaned up immediately, and placed with the manure being hauled off to the approved storage or spreading location. Under no circumstances should spills be left on the loading pad overnight. To prevent rainfall on the pads and truck loading area drive through roof structures are constructed over the pads.

The manure will be stored at these approved locations until it is ready to be given to a local farming operation for application at agronomic rates or it is ready to be spread on the land owned and permitted through Opal Foods. At this time Opal Foods has not utilized their permitted land for spreading, nor do they have an intention of utilizing this land in the near future.

Transport/Utilization:

As previously described, trucks loaded at the confinement houses shall transport the manure to land application sites either at the farm or one of the approved manure storage buildings. Care shall be taken during the hauling procedure to insure waste is contained during loading, transport and the final transfer from the truck.

Storage of the manure should be managed in a manner that insures adequate storage is always available. Currently, the following storage facilities are available for the Opal Foods – School – Hathaway – Timberview facilities.

<u>Storage Location</u>	<u>Approximate Storage Volume</u>
Ex. Farmer Automatic Building (FAB)	2 buildings 70' x 280' x 8' manure depth = 313,600 ft ³
Existing CBO Building	64' x 396' X 8' manure depth = 202,752 ft ³
Existing Covered Roof Area	196' x 396' x 8' manure depth = 620,928 ft ³
Existing School Farm	70' x 300' x 8' manure depth = 168,000 ft ³
Existing School Farm	50' x 150' x 8' manure depth = 60,000 ft ³
Proposed School Farm	50' x 210' x 8' manure depth = 84,000 ft ³
Existing Hathaway Storage	70' x 280' x 8' manure depth = 156,800 ft ³
Existing Hathaway Storage	78' x 280' x 8' manure depth = 174,720 ft ³
Existing Timberview Storage	4 buildings 20' x 40' x 6' manure depth = 19,200 ft ³
Proposed Timberview Storage	20' x 40' x 6' manure depth = 4,800 ft ³
TOTAL EXISITNG & PROPSOED MANURE STORAGE	1,804,800 ft ³

Manure production is anticipated as previously outlined, and as shown below.

School Farm	3,938 ft ³ /day
Hathaway Farm	10,889 ft ³ /day
Timberview Farm	1,329 ft ³ /day
TOTAL ANTICIPATED DAILY MANURE PRODUCTION	16,156 ft ³ /day

Based on the preceding, the existing and proposed manure storage is adequate, and provides approximately 112 days of storage. The actual number of day's storage, however, is likely to be higher. The calculations presented do not account for compaction of manure and it is feasible to stack the manure higher than the estimate assumes. The figures presented in the calculation are conservative estimates based on typical practices, but if required, the facilities could hold additional manure.

Manure stored at an approved location, shall either be sold or given to individuals requesting the manure or shall be land applied at agronomic rates at the sites owned by Opal Foods and permitted by MDNR. If the manure is transferred to a land owner, the land owner will be given a current Missouri Concentrated Animal Feeding Operation Nutrient Management Technical Standard, and representative information on the nutrient content of the manure, litter, and/or process wastewater as stated in the Opal Foods Permit.

For proper utilization of the nutrients contained in manure, it must be tested for nutrient content and applied according to soil test recommendations for the crops to be grown. Phosphorus levels in the soils will likely increase with several years of litter application, if using a nitrogen based approach. When phosphorus levels test high on standard soil tests, litter should only be applied to meet crop removal needs for phosphorus, as no further buildup is recommended. If phosphorus tests "very high" or "excess", no manure or commercial phosphate fertilizer should be applied. Current soil tests for the land application owned and permitted at the Opal Foods site are shown in Appendix B. The land currently owned by Opal Foods has tested "very high" for phosphorus; therefore no manure has been applied and will not be applied until the phosphorus levels are detected in the soil at lower concentrations. Opal Foods will continue to transfer manure to individuals for disposal.

Any manure land applied shall not be spread on slopes steeper than 20%; within 50 feet of any public road, intermittent flowing streams, property lines, or inhabited dwelling; within 100 feet of lakes, permanent flowing streams, privately owned impoundments not used as a water supply; or within 300 feet of any sinkholes, losing streams, caves, abandoned wells, water supply wells, or impoundments. Litter will not be applied on flooded, saturated, ice covered or frozen soil. It may be applied when soils are in daily freeze/ thaw cycles in the spring. Manure shall not be applied if precipitation, likely to create runoff, is forecasted to occur within 24 hours of the planned application.

Any Manure stored or land applied shall also strictly adhere to the setback distance presented in the "Missouri CAFO Nutrient Management Standard." These setbacks are as follows:

Setback Feature	Application Conditions	Setback Distance (feet)
Public or Private Drinking Water Well or other wells including un-plugged abandoned wells	All application methods	300
Public or private drinking water impoundment	All application methods	300
Public or private drinking water intake structure	All application methods	300
Classified waters of the state not used as a water supply as defined in 10 CSR 20-7.031(1)F	No or insufficient vegetated buffer	35 100
Other public or privately owned lakes or impoundments not used as a water supply including impoundments with no outlet	Permanently vegetated buffer Up-gradient, no or insufficient vegetated buffer Down-gradient, no or insufficient vegetated buffer	35 100 35
Other perennial streams, other intermittent streams, canals, drainage ditches and wetlands	Permanently vegetated buffer Up-gradient, no or insufficient vegetated buffer Down-gradient, no or insufficient vegetated buffer	35 100 35
Tile line inlet (if left un-plugged during manure application)	Up-gradient, permanently vegetated buffer Up-gradient, no or insufficient vegetated buffer Down-gradient	35 100 0
Losing Stream	All application methods	300
Cave Entrance	All application methods	300
Spring	All application methods	300
Active Sink Hole	All application methods	300
Non-owned occupied residence	Spray Irrigation Only	150
Public use area including non-owned businesses	Spray Irrigation Only	150
Public Road	All application methods	50
Property boundary	All application methods	50

Note: A "vegetated buffer" is defined as a permanent strip of dense perennial vegetation established parallel to the contour of and perpendicular to the dominant slope of the field for the purposes of effectively slowing water runoff, enhancing water infiltration, and minimizing the risk of any potential nutrient or pollutants from leaving the field and reaching surface waters.

Operation and Maintenance of Nutrient Management

The owner of the CAFO is responsible for safe operation and maintenance of this nutrient management system. Concerns that should be mitigated by adherence to this plan include health of the birds as well as safety in the environment. The CAFO is responsible for safe management and application of the litter produced by their operation, even though some or all of it may be sold and applied on land not under the CAFO's direct control. It is essential that records be kept of all litter applied and litter sold. Records will include storage source of manure transferred, name of person sold to, date of transfer, application field number, volume of manure transferred and tons or gallons/acre, acres, and type of cover or forage crop. Adequate testing of soil and manure nutrient content shall be performed. These records must be kept at the facility.

Storm Water

The owner shall take all measures necessary to divert fresh storm water, as appropriate, for all of the production facilities. Measures to insure this is accomplished shall primarily include grading to allow water to flow away from all confinement building, processing facilities, and waste holding structures, and maintenance of such drainage provisions.

The owner shall also take measures to insure all birds and any chemicals used at the facility are restricted from direct contact with waters of the state.

APPENDIX A

Operating Permit

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES
MISSOURI CLEAN WATER COMMISSION



MISSOURI STATE OPERATING PERMIT

In compliance with the Missouri Clean Water Law, (Chapter 644 R.S. Mo. as amended, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92nd Congress) as amended,

Permit No. MO-0122840

Owner Name: Opal Foods, LLC
Owner Address: 1100 Blair Avenue; Neosho, MO 64850

Continuing Authority: Same as above
Address: Same as above

Facility Name: Opal Foods, - Hathaway Farms
Facility Address: 17331 Hwy. D, Neosho, MO 64850

Legal Description: See Operation Description
Latitude/Longitude: See Operation Description

Receiving Stream: Tributary to Bullskin Creek
First Classified Stream and ID: Bullskin Creek (P)(03264)
USGS Basin & Sub-watershed No.: 11070208-060004

is authorized to discharge from the facility described herein, in accordance with the effluent limitations and monitoring requirements as set forth herein:

Water quality standards do not have to be exceeded to determine the unauthorized discharge of processed waste as defined in special condition 2(b). Operation of this site shall not cause a violation of water quality standards. Land application fields include all company owned land where land application occurs and all non-company owned land where spreading agreements allow land application. These provisions apply to all the company's regulated activities.

OPERATION DESCRIPTION

Outfall #001-#027 – Concentrated Animal Feeding Operation – SIC #0252 – No Discharge of Process Waste – Class 1A
Ten concrete storage pits/manure storage buildings/one truck wash pit/land application of process waste/storm water runoff.
Design number of animals is 2,310,538 layer hens and 218,700 pullets. (80,662 animal units). Design liquid flow is 24,468 gallons/day and dry design process waste is 35,896 tons per year.
Proposed - {Design number of animals is 2,624,928 layer hens and 1,400,000 pullets. (110,831 animal units). Design process waste is 78,309 tons per year.}

This permit authorizes only wastewater discharges under the Missouri Clean Water Law and the National Pollutant Discharge Elimination System; it does not apply to other regulated areas. This permit may be appealed in accordance with Section 644.051.6 of the Law.

May 20, 2011 April 22, 2014
Effective Date Modification Date

Sara Parker Pauley, Director, Department of Natural Resources

May 19, 2016
Expiration Date
MO 780-0041 (10-93)

John Madros, Director of Staff, Clean Water Commission

OPERATION DESCRIPTION (continued)

Proposed – {This operation has two farms. All birds are caged at these facilities. Manure is dried on conveyor belts. Mortalities are sent to the landfill.

Timberview Farm site has nine dry pullet houses with a total of 1,400,000 birds. Manure is conveyed from the houses to roofed conveyors and loading pads. Manure is hauled to two FAB buildings, the CBO building, or to a roofed storage area at the composting facility. These buildings and sheds are at the composting area (Outfall #22).

Hathaway Farm site has eleven layer houses with a total of 2,624,928 layers and two roofed manure storage sheds. If needed, outfall #22 is used for additional storage.}

Total Number of Acres of Land Application area in the Nutrient Management Plan:

<u>Percent Slope</u>	<u>Land Owned by Permittee</u>
0-10%	474
10-20%	0
TOTAL	474

Design Storm Events:

25-yr, 24-hr = 7 inches

Outfall # 001 - Timberview Farm System Type: nine (9) poultry buildings/ two (2) covered concrete pits: Manure Storage Locations and Quantities - Buildings #1, 2, 3, and 5 have 8,175 cu. ft. each; buildings 4,6,7,8, and 9 have no indoor storage; pit #1 has 25,493 cu. ft.; pit #2 has 20,153 cu. ft.

Pit #1 serves building 1, 2, 3, and 4

Pit #2 serves building 5, 6, 7, 8, and 9

Legal Description: NW ¼, SE ¼, Sec 23, T24N, R32W, Newton County

UTM Coordinates X= 379558 Y= 4072874

Lat/Long: +36 47 38.5/-094 20 59.9

Receiving Stream: Tributary to Bullskin Creek

First Classified Stream and ID: Bullskin Cr. (P) 03264

USGS Basin & sub-watershed No: 11070208-060004

Design Number of Animals: 440,050 Laying Hens (14,668 Animal Units).

Design Process Waste: 10,408 gallons per day.

Design Storage: pit #1 and buildings 50,018 cu. ft or 88 days; pit #2 and buildings 28,328 cu. ft. or 34 days.

Maximum Operating Level (Safety Volume Depth): one foot below overflow level.

Proposed – {Outfall #001 – Timberview Farm Site

Feature Description: Nine pullet houses, four with 100,000, and five with 200,000 average birds per house

Legal Description: SW ¼, NE ¼ and NW ¼, SE ¼, Sec 23, T24N, R32W, Newton County

UTM Coordinate: X = 379558 Y = 4072874

Receiving Water: Tributary to Bullskin Creek

First Classified Stream and ID: Bullskin Creek 3264 (P)

USGS Basin & Sub-Watershed No: 11070208-060004

Number and Type of Animals: 1,400,000 other – chicken, pullets

Animal Units: 23,333

Storage Structure Type: Roofed storage shed

Design Process Waste (tons/yr.): 11,753

Design storage (days): 162 }

OPERATION DESCRIPTION (continued)

Outfall # 002 - Meadows Farm System Type: six (6) poultry buildings/ two (2) covered concrete pits and truckwash with covered concrete pit: Manure Storage Locations and Quantities - Buildings no storage; pit #1 has 8,842 cu. ft.; pit #2 has 16,384 cu. ft.; truckwash pit has 3,000 gallon.

Pit #1 serves building 1 and 2

Pit #2 serves building 3, 4, 5, and 6

Truckwash pit serves truckwash pad

Legal Description: NE ¼, NW ¼, and NW ¼, NE ¼, Sec 23, T24N, R32W, Newton County

UTM Coordinates: X=379434, Y=4073411

Receiving Stream: Tributary to Bullskin Creek

First Classified Stream and ID: Bullskin Cr. (P) 03264

USGS Basin & sub-watershed No: 11070208-060004

Design Number of Animals: 244,540 Laying Hens (8,151 Animal Units).

Design Process Waste: Chicken Manure 5,784 gallons per day. Truckwash 720 gal. per day.

Design Storage: pit #1 has 8,842 cu. ft. or 34 days; pit #2 has 16,384 cu. ft. or 32 days; truckwash pit has 3,000 gallons or 4 days.

Maximum Operating Level (Safety Volume Depth): one foot below overflow level.

Outfall # 003 - School Farm System Type: seven (7) poultry buildings/four (4) covered concrete pits: Manure Storage Locations and Quantities - Buildings #1 and #4 have 6,000 cu. ft. each; buildings #2 and #3 have 1,648 cu. ft. each; building #5 has 7,293 cu. ft.; building #6 has 13,738 cu. ft.; building #7 has 12,682 cu. ft.; pit #1 has 8,105 cu. ft.; pit #2 has 11,837 cu. ft.; pit #3 has 10,197 cu. ft.; pit #4 has 11,512 cu. ft.

Pit #1 serves building 1 and 2

Pit #2 serves building 3 and 4

Pit #3 serves building 5 and 6

Pit #4 serves building 7

Legal Description: SE ¼, Sec 13, T24N, R32W, Newton County

UTM Coordinates X= 381396, Y= 4073855

Receiving Stream: Tributary to Bullskin Creek

First Classified Stream and ID: Elm Spring Br. (P) 03227

USGS Basin & sub-watershed No: 11070207-170001

Design Number of Animals: 221,020 Laying Hens (7,367 Animal Units).

Design Process Waste: 5,228 gallons per day.

Design Storage: pit #1 and buildings 15,753 cu. ft. or 112 days; pit #2 and buildings 19,485 cu. ft. or 138 days; pit #3 and buildings 31,228 cu. ft. or 120 days; pit #4 and building 24,194 cu. ft. or 155 days.

Maximum Operating Level (Safety Volume Depth): one foot below overflow level.

OPERATION DESCRIPTION (continued)

Outfall # 004 – Deleted - Sawmill Farm

Outfall # 005 - MOARK Pullet Farm System Type: three (3) poultry buildings/two (2) covered concrete pits:
Manure Storage Locations and Quantities - Building #1 no storage; building #2 has 7,274 cu. ft.; building #3 has 10,250 cu. ft.; pit #1 has 14,175 cu. ft.; pit #2 has 22,883 cu. ft.

Pit #1 serves building 1 and 2

Pit #2 serves building 3

Legal Description: NW ¼, NW ¼, Sec 23, T24N, R32W, Newton County

UTM Coordinates X= 378760, Y= 4073433

Receiving Stream: Tributary to Bullskin Creek

First Classified Stream and ID: Bullskin Cr. (P) 03264

USGS Basin & sub-watershed No: 11070208-060004

Design Number of Animals: 218,700 Pullets (3,645 Animal Units).

Design Process Waste: 2,328 gallons per day.

Design Storage: pit #1 and buildings 21,449 cu. ft. or 107 days; pit #2 and building 33,133 cu. ft. or 298 days.

Maximum Operating Level (Safety Volume Depth): one foot below overflow level.

Outfall # 006 – Deleted - Hathaway Farm (North) System

Outfall # 007 - Hathaway Farm (South) System Type: seven (7) poultry houses/one (1) manure storage building:
Manure will be transported 2 to 3 times per week to storage sheds via enclosed conveyor belts. Air will be blown on manure conveyor belt to reduce its moisture.

Legal description: SW ¼, NW ¼, Sec. 24, T24N, R32W Newton County

UTM Coordinates: X=380592, Y=4073071

Receiving Stream: Tributary to Bullskin Creek

First Classified Stream and ID: Bullskin Creek (P) 03264

USGS Basin & sub-watershed No: 11070208-060004

Design Number of Animals: 1,404,928 laying hens (46,831 Animal Units)

Design Process Waste: 35,896 tons/year

Design Storage: one (1) 70' x 280' x 12' building to store approximately 188,160 cu. ft. Trucks will be loaded inside the buildings.

Proposed - {Outfall # 007 – Hathaway Farm Site

Feature Description: Four layer houses with 305,000 and seven layer houses with 200,704 average birds per house

Legal Description: NW ¼, NW ¼, Sec 24, T24N, R32W, Newton County

UTM Coordinate: X = 380525 Y = 4073295

Receiving Stream: Tributary to Bullskin Creek

First Classified Stream and ID: Bullskin Creek 3264 (P)

USGS Basin & Sub-Watershed No: 11070208-060004

Number and Type of Animals: 2,624,928 chicken, layers

Animal Units: 87,438

Storage Structure Type: Roofed storage shed

Design Process Waste (tons/yr.): 66,556

Design storage (days): 162 }

OPERATION DESCRIPTION (continued)

Outfall # 008 – Deleted - Domestic Wastewater at Timber View Farm

Outfall # 009 – Deleted - Domestic Wastewater at Meadows Farm

Outfall # 010 – Deleted - Domestic Wastewater at School Farm

Outfall # 011 – Deleted - Domestic Wastewater at Sawmill Farm

Outfall # 012 – Deleted - Domestic Wastewater at MOARK Pullet Farm

OPERATION DESCRIPTION (continued)

Outfall # 013 – Deleted - Spring Monitoring

Outfall # 014 – Deleted - Stream Monitoring

Outfall # 015 – Deleted - Production Site Stormwater

Outfall # 016 – Deleted - Production Site Stormwater

Outfall # 017 - Production Site

Legal Description: NW ¼, NW ¼, Sec 24, T24N, R32W, Newton County

UTM Coordinates: X=380653, Y=4073215

Receiving Stream: Tributary to Bullskin Creek

First Classified Stream and ID: Bullskin Cr. (P) 03264

USGS Basin & sub-watershed No: 11070208-060004

Storm water runoff north from Hathway Farm

Outfall # 018 - Production Site

Legal Description: SE ¼, NW ¼, Sec 24, T24N, R32W, Newton County

UTM Coordinates: X=380626, Y=4072815

Receiving Stream: Tributary to Bullskin Creek

First Classified Stream and ID: Bullskin Cr. (P) 03264

USGS Basin & sub-watershed No: 11070208-060004

Storm water runoff south from Hathway Farm

Outfall # 019 - Production Site

Legal Description: SE ¼, SW ¼, Sec 23, T24N, R32W, Newton County,

UTM Coordinates: X=379452, Y=4072412

Receiving Stream: Tributary to Bullskin Creek

First Classified Stream and ID: Bullskin Cr. (P) 03264

USGS Basin & sub-watershed No: 11070208-060004

Storm water runoff from Timberview and Sawmill farms

Outfall # 020 - Production Site

Legal Description: SE ¼, NE ¼, Sec 23, T24N, R32W, Newton County

UTM Coordinates: X=379717, Y=4073111

Receiving Stream: Tributary to Bullskin Creek

First Classified Stream and ID: Bullskin Cr. (P) 03264

USGS Basin & sub-watershed No: 11070208-060004

Storm water runoff north from Timberview Farm

Outfall # 021 – Deleted - Production Site Stormwater

OPERATION DESCRIPTION (continued)

Outfall #022 - Composting operation consisting of a Farmer Automatic Building, two (2) covered composting/storage buildings and stormwater storage basin.

Legal Description: NW ¼, SW ¼, Sec 13, T24N, R32W, Newton County

UTM Coordinates: X=380493, Y=4074127

Receiving Stream: Tributary to Elm Spring Branch (U)

First Classified Stream and ID: Elm Spring Branch (CP) 03227

USGS Basin & sub-watershed No: 11070207-170001

Storm water runoff from composting site

Outfall #023 – Deleted - Stream Monitoring

Outfall #024 – Deleted - Stream Monitoring

Outfall #025 – Deleted - Stream Monitoring

Outfall #026 – Deleted - Stream Monitoring

Outfall # S1 - Stream Monitoring (previous outfall 014)

Legal Description: SE ¼, NW ¼, NW ¼, Sec 35, T24N, R32W, Newton County,

Bullskin Creek at property line Class P

UTM Coordinates: X=378708, Y= 4070081

Receiving Stream: Bullskin Creek

First Classified Stream and ID: Bullskin Cr. (P) 03264

USGS Basin & sub-watershed No: 11070208-060004

Outfall #S2 - Stream Monitoring (previous outfall 025)

Legal Description: SW ¼, SW ¼, Sec 7, T24N, R31W, Newton County

UTM Coordinates: X=382015, Y=4075206

Receiving Stream: Tributary to Elm Spring Branch (U)

First Classified Stream and ID: Elm Spring Branch (CP) 03227

USGS Basin & sub-watershed No: 11070207-170001

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS			PAGE NUMBER 8 of 17	
			PERMIT NUMBER MO-0122840	
OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	MONITORING REQUIREMENTS		
		REQUIREMENTS	MEASUREMENT FREQUENCY	SAMPLE TYPE
Outfalls # 001, 002, 003, 005, 006, 007, and 022 - Unauthorized Discharge Monitoring				
Flow	MGD	Comply with Water Quality Standards.	once/day during discharge	24 hr. estimate
Dissolved Oxygen	mg/L		once/day during discharge	grab
Ammonia Nitrogen as N	mg/L		once/day during discharge	grab
BOD	mg/L		once/day during discharge	grab
pH – Units	SU		once/day during discharge	grab
Temperature	°C		once/day during discharge	grab

**A. EFFLUENT LIMITATIONS AND MONITORING
REQUIREMENTS**

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PERMIT NUMBER MO-0122840

OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	MONITORING REQUIREMENTS			
		DISCHARGE MAXIMUM	REQUIREMENTS	MEASUREMENT FREQUENCY	SAMPLE TYPE
Outfalls # 017 - 020 - Production Sites - Storm Water Runoff Limits from Production Sites					
Flow	MGD			4/Year	24 hr. estimate
pH - Units	SU		No discharge of process waste.	4/Year	grab
Ammonia Nitrogen as N	mg/L	2.5		4/Year	grab
Nitrate/nitrite as N	mg/L			4/Year	grab
Total Phosphorus as P	mg/L			4/Year	grab
Total Suspended Solids	mg/L			4/Year	grab
Temperature	°C			4/year	grab

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

PAGE NUMBER 10 of 17

PERMIT NUMBER MO-0122840

OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	MONITORING REQUIREMENTS		
		REQUIREMENTS	MEASUREMENT FREQUENCY	SAMPLE TYPE
<u>Outfalls # S1 and S2</u>				
Stream Monitoring				
Flow	MGD	Samples shall be only collected from flowing water. Samples from riffles are preferred. Do not collect a sample from pools that do not have water flowing into or out of the pool.	4/year	24 hr. estimate
pH – Units	SU		4/year	grab
Ammonia Nitrogen as N	mg/L		4/year	grab
Nitrate + Nitrite as N	mg/L		4/year	grab
Total Phosphorus as P	mg/L		4/year	grab
Temperature	°C		4/year	grab
Dissolved Oxygen	mg/L		4/year	grab

B. GENERAL CONDITIONS

1. **Standard Conditions**

In addition to other conditions stated herein, this permit is subject to the attached Part I STANDARD CONDITIONS dated October 1, 1980, and hereby incorporated as though fully set forth herein.

2. **Definitions**

Definitions are as listed in the "Missouri Concentrated Animal Feeding Operation Nutrient Management Technical Standard" and in State Regulations under 10 CSR 20 Chapter 2 and Chapter 6.300.

3. **Permit Exemptions**

- (a) All wastewater systems and major system modifications shall be constructed in accordance with a construction permit. As allowed in state regulations under 10 CSR 20-6.300 (2)(B), certain minor modifications and piping changes are exempted from the requirement for a construction permit. Minor modifications would include small sections of buried pipelines, normal repair or replacement of existing wastewater lines, installation of manholes, wet wells, and any other minor change that does not significantly impact the normal operation of the waste management system.
- (b) In accordance with 10 CSR 20-6.300(2)(B)4, permits are not required for storage buildings for dry litter, compost, or similar materials, if the storage structure is roofed and has impermeable floors.

4. **Effluent Limitations**

The permittee is authorized to discharge process wastewater and storm water in accordance with the effluent limitations in this permit. The effluent limitations shall become effective upon issuance and remain in effect until such time this permit is no longer effective. Such discharges shall be managed, controlled, limited and monitored by the permittee as specified below.

(a) **CAFO Production Area**

(1) Requirements applicable to all CAFO production area(s):

The Production Area is that part of an operation which includes the animal confinement area, the manure storage area, the raw materials storage area, and the waste containment areas. Also included is any area used in the storage or treatment of animal mortalities or material containing mortality products.

There shall be no discharge of manure, litter, or process wastewater into waters of the state from production area point sources except as provided in subsection b. below.

A chronic weather event is a series of wet weather conditions that can delay planting, harvesting, and prevent land application and dewatering practices at wastewater storage structures. When wastewater storage structures are in danger of an overflow due to a chronic weather event, CAFO owners shall take reasonable steps to lower the liquid level in the structure through land application, or other suitable means, to prevent overflow from the storage structure. Reasonable steps may include, but are not limited to, following the department's current guidance on "Wet Weather Management Practices for CAFOs". These practices shall be designed by the department to specifically help minimize or eliminate water quality impacts from CAFOs during extreme wet weather periods. The Missouri Climate Center will determine, within a reasonable timeframe, when a chronic weather event is occurring for any given county in Missouri. The Climate Center's determination will be based upon an evaluation of the 1 in 10 year return rainfall frequency over a 10-day, 180-day and 365-day operating period.

B. GENERAL CONDITIONS (continued)

Manure, litter or wastewater management activities occurring outside of the discrete point sources structures, barns or areas but upon land controlled by the permittee shall be identified in the permittee's Nutrient Management Plan (NMP). Activities that should be addressed include, but are not limited to, winter feeding areas, stockpiling of raw materials, manure, or litter or other animal feeding related items that have the potential to contribute pollutants to waters of the state. As necessary, the NMP shall identify controls, measures or BMPs to manage stormwater runoff and meet applicable water quality standards. This paragraph applies only to activities on land that is under the control of the CAFO owner or operator, whether it is owned, rented, or leased.

(b) CAFO Land Application Areas

The Land Application Area is agricultural land which is under the control of the CAFO owner or operator, whether it is owned, rented, or leased, to which manure, litter or process wastewater from the production area is or may be applied.

There shall be no discharge of manure, litter, or process wastewater to waters of the state from a CAFO as a result of the land application of manure, litter or process wastewater to land application areas under the direct control of the CAFO, except where it is an agricultural storm water discharge. When manure, litter, or process wastewater has been land applied in accordance with this permit, a precipitation related discharge of manure, litter or process wastewater from land areas under the control of the CAFO is considered to be an agricultural storm water discharge.

5. Nutrient Management Plan

In accordance with 10 CSR 20-6.300(3)(G), the permittee shall implement a Nutrient Management Plan that at a minimum addresses the following.

- (a) Ensures adequate storage of manure, litter and process wastewater, including procedures to ensure proper operation and maintenance of the storage facilities.
- (b) Ensures proper management of mortalities.
- (c) Ensures that clean water is diverted from the production area.
- (d) Prevents direct contact of confined animals with waters of the state.
- (e) Ensures that chemicals and other contaminants handled on site are not disposed of in any manure, litter, process wastewater, or storm water storage or treatment system unless specifically designed to treat such chemicals and other contaminants.
- (f) Identifies appropriate site specific conservation practices to be implemented, including as appropriate buffers or equivalent practices, to control runoff of pollutants to waters of the state.
- (g) Identifies protocols for appropriate testing of manure, litter, process wastewater, and soil.
- (h) Establishes protocols to land apply manure, litter, or process wastewater in accordance with site specific nutrient management practices that ensure appropriate agricultural utilization of the nutrients in the manure, litter, or process wastewater.
- (i) Identifies specific records that will be maintained.

6. Nutrient Management Technical Standard

The permittee shall follow Attachment A - "Missouri Concentrated Animal Feeding Operation Nutrient Management Technical Standard" (NMTS), on CAFO land application areas as identified in the Nutrient Management Plan. The NMTS, dated March 4, 2009, is hereby incorporated as though fully set forth herein.

7. Transfer of Manure, Litter, and Process Wastewater to Other Persons

In cases where CAFO-generated manure, litter, or process wastewater is sold, given away, or applied on land not under the direct control of the CAFO, the permittee must comply with the following conditions:

- (a) Maintain records showing the date and amount of manure, litter, and/or process wastewater that leaves the permitted operation.
- (b) Record the name and address of the recipient. (The recipient is the broker or end user, not merely the truck driver.)
- (c) Provide the recipient(s) with representative information on the nutrient content of the manure, litter, and/or process wastewater.
- (d) These records must be retained on-site, for a period of five (5) years.
- (e) Provide the recipient with a copy of the NMTS.

8. Mortality Management

There shall be no-discharge from dead animal collection areas or holding areas. Animals shall be disposed of in a manner to prevent contamination of waters of the state or creation of a public health hazard. Management of mortalities will be as described in the nutrient management plan.

9. Water Quality Standards

Any discharges to waters of the state, including those discharges allowed for within this permit, shall not cause a violation of the state water quality standards rule under 10 CSR 20-7.031, including both specific and general criteria.

General Criteria. The following general water quality criteria shall be applicable to all waters of the state at all times including mixing zones. No water contaminant, by itself or in combination with other substances, shall prevent the waters of the state from meeting the following conditions:

- (a) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses;
- (b) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses;
- (c) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses;
- (d) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life;
- (e) There shall be no significant human health hazard from incidental contact with the water;
- (f) There shall be no acute toxicity to livestock or wildlife watering;
- (g) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community;
- (h) Waters shall be free from scrap tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247.

B. GENERAL CONDITIONS (continued)

10. Reopener Clause

This permit may be reopened and modified, or alternatively revoked and reissued, to:

- (a) Comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a) (2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
 - (1) contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
 - (2) controls any pollutant not limited in the permit.
- (b) Incorporate new or modified State of Missouri Statutes or Regulations.
- (c) Incorporate new or modified effluent limitations or other conditions, if the result of a waste load allocation study, toxicity test or other information indicates changes are necessary to assure compliance with Missouri's Water Quality Standards.
- (d) Incorporate new or modified effluent limitations or other conditions if, as the result of a watershed analysis, a Total Maximum Daily Load (TMDL) limitation is developed for the receiving waters which are currently included in Missouri's list of waters of the state not fully achieving the state's water quality standards, also called the 303(d) list.

The permit as modified or reissued under this paragraph shall also contain any other requirements of the Clean Water Act then applicable.

C. SPECIAL CONDITIONS

1. Nutrient Management Plan

The permittee shall submit an updated nutrient management plan (NMP) that complies with the requirements listed in this permit within six months of the effective date of this permit. The NMP shall include operation and maintenance procedures for waste handling systems as necessary to maintain compliance with the terms and conditions of this permit. As operational changes are made to site's waste handling systems, the permittee shall amend applicable portions of the NMP within three months of said changes. Upon receipt of the plan, the department will conduct a review and, if needed, will submit a comment letter regarding any deficiencies within the nutrient management plan. All comments shall be responded to within 30 days of receipt of a letter. The updated NMP shall be followed beginning on the effective date of the permit.

2. Inspections

The following minimum visual inspections shall be conducted by the CAFO operator.

- (a) Daily inspections must be conducted of water lines including wastewater, drinking water, and cooling water lines that can be visually observed within the production area. The inspection of the drinking water and cooling water lines shall be limited to the lines that possess the ability to leak or drain to wastewater storage structures or may come in contact with any process waste.
- (b) Daily inspections of the collection or holding areas for dead animals.
- (c) Weekly inspections of all storm water diversion devices, runoff diversion structures, and devices channeling contaminated storm water to the process wastewater storage.
- (d) Weekly inspections of the manure, litter, and process wastewater impoundments.
- (e) Quarterly inspections, prior to use, of equipment used for land application of manure or process wastewater.
- (f) Inspections during land application shall include monitoring of the perimeter of the application fields to insure that applied wastewater does not run off the fields where applied.

Any deficiencies found as a result of inspections shall be documented and corrected as soon as practicable.

3. Record Keeping

The following records shall be maintained by the CAFO operator for a period of five (5) years from the date they are created and be made available to the department upon request:

- (a) A copy of this permit including a current copy of the facility's Nutrient Management Plan and documentation of changes/modifications made to the Nutrient Management Plan.
- (b) The daily visual inspections required in Special Condition #2, shall be logged/recorded once per week.
- (c) Records documenting any actions taken to correct deficiencies. Deficiencies not corrected within thirty (30) days shall be accompanied by an explanation of the factors preventing immediate correction.
- (d) Records of mortalities management used by the operation.
- (e) Records of the date, time, location, duration and estimated volume of any emergency or unauthorized process waste discharge. Note: Monitor the discharge at the point immediately prior to the receiving stream or at the property boundary, whichever occurs first. Report flow as cubic feet per second (CFS) based on an instantaneous estimate of the flow at the time of sampling. $CFS = \text{flow width in feet} \times \text{flow depth in feet} \times \text{flow velocity in feet per second}$. Estimates of stream channel width and depth may be used and flow velocity can be measured by timing how many feet a floating object moves within a one-second interval. Small flows may also be estimated based on gallons per minute (GPM) measurement using a container and stop watch; 450 gpm = 1.0 CFS. Other similar means of estimating may also be used.
- (f) Additional record keeping requirements are found in Attachment B, "Nutrient Management Technical Standard" that document implementation of appropriate Nutrient Management Plan protocols. In addition to the requirements found in the Nutrient Management Technical Standard, the CAFO shall also test and record the potassium levels in the soils while testing nitrogen and phosphorus.

4. Reporting Requirements

- (a) Any wastewater discharge into waters of the state shall be reported to the Department as soon as practicable but no later than 24 hours after the start of the discharge.
- (b) An Annual Report shall be submitted by January 28 of each year for the previous growing season from October 1 through September 30 or an alternate 12 month period approved by the Department. The report shall include:
 - (1) The number and type of animals confined at the operation.
 - (2) The estimated amount of manure, litter, and process wastewater generated in the previous twelve months.
 - (3) The estimated amount of manure, litter, and process wastewater transferred to other persons in the previous twelve months.
 - (4) The total number of acres for land application covered by the Nutrient Management Plan.
 - (5) The total number of acres under control of the operation that were used for land application of manure, litter and process wastewater in the previous twelve months.
 - (6) A summary of all manure, litter, and process wastewater discharges from the production area that have occurred in the previous twelve months, including date, time, and approximate volume. Report as no-discharge, if a discharge did not occur during the monitoring period.
 - (7) A statement indicating whether the current Nutrient Management Plan was developed or approved by a certified nutrient management planner.

C. SPECIAL CONDITIONS (continued)

- (8) The crops planted and expected yields, the amount and nutrient content of the manure, litter, and process wastewater applied to the land application area(s) and the results of any soil testing from the previous twelve months.
- (9) The actual operation numbers compared to the permitted design parameters described in Special Condition #6.
- (10) All monitoring results from Section A. Effluent Limitations and Monitoring Requirements.
- (c) The reports shall include a cover sheet with an original signature of a company representative. The reports may be printed or alternatively, may be saved as pdf files or locked spreadsheets and burned onto two compact discs (CDs). The CDs may be sent via mail with the cover sheet to the Southwest Regional and the Jefferson City offices.

5. Design Parameters

The facility's design flow in the Facility Description is an estimated parameter that is used to help predict nutrient generation and storage periods. The design flow is based on the maximum annual flows including storm water flows during the one-in-ten year return frequency for annual or 365 day rainfall minus evaporation. The design flow is based on the time period when the flows are generated at the production site and not when flows are land applied. Permittee may exceed the design flow when precipitation in any 365 day period exceeds the one-in-ten year annual precipitation amount. Any proposed increases may require a permit modification prior to the proposed change. Portions of the design flow may be stored and carried over into the following year for land application, as necessary.

6. Land Application Site Locations

The permittee is responsible for all land application area(s) that are owned, rented, leased, or otherwise directly controlled by the permittee. All land application area(s), that fall under the definition of "land application area" as defined in 10 CSR 20-6.300, must be included in the facility's nutrient management plan. The addition of land application area(s) into the facility's nutrient management plan (except for those already in a nutrient management plan) must follow permit modification procedures prior to land application unless otherwise approved by the department.

7. Land Application Limitations on CAFO land application areas

- (a) Process wastes should be land applied as close as practicable to when plants will utilize nutrients. Fall application for the spring crop season may be used where appropriate, but should not be the primary application period. Land application of process wastes shall be utilized as a nutrient resource.
- (b) Avoid surface application when there is a local, applicable weather forecast or observation by permittee of an imminent or impending storm event that is likely to produce runoff.
- (c) Land application equipment shall be operated in such a manner that wastes do not reach an adjoining property line, public use area or into waters of the state. There shall be no visual spray drifts across public roads or property boundaries or into waters of the state. If the employee detects wind blown mist within 100 feet of an adjoining property line or public use area or waters of the state the application equipment shall be either moved farther away or shut down.
- (d) The NMP shall include, when following the NMTS, site specific conservation practices, including as appropriate buffers or equivalent practices, to control runoff of pollutants to waters of the state.

C. SPECIAL CONDITIONS (continued)

- (e) Implementation procedures for these limitations shall be detailed in the Nutrient Management Plan.

8. Design Operating Capacity

This permit authorizes operation of the CAFO waste management system as described in the "OPERATION DESCRIPTION" along with the permit application and associated engineering plans. The Facility Description describes a design animal unit operating capacity (i.e., number of animals) for this facility. For purposes of this permit, the animal unit operating level at any given time shall be based on averaging the weekly facility wide inventory on a rolling 12 month average (i.e., the animal unit operating level will be determined using a "rolling 12 month average" of the "weekly facility-wide average inventory"). The rolling 12 month average should not exceed, the listed facility-wide design animal unit capacity in the Facility Description. The CAFO may change animal numbers and weights as necessary; however, such changes must not adversely impact the storage and handling capacities of the waste management system.

9. Sample Collection, Preservation and Testing Methods

Testing shall be in accordance with the most current version of *Standard Methods for the Examination of Waters and Wastewaters* or other approved methods listed in 10 CSR 20-7.015(9)(A).

**Missouri Department of Natural Resources
Concentrated Animal Feeding Operation
NPDES Site Specific Permit Factsheet**

The Federal Water Pollution Control Act ("Clean Water Act" Section 402 Public Law 92-500 as amended) established the National Pollution Discharge Elimination System (NPDES) permit program. This program regulates the discharge of pollutants from point sources into the waters of the United States, and the release of storm water from certain point sources. All such discharges are unlawful without a permit (Section 301 of the "Clean Water Act"). After a permit is obtained, a discharge not in compliance with all permit terms and conditions is unlawful. Permits in Missouri are issued by the Missouri Department of Natural Resources (department), as the administrative agent for the Missouri Clean Water Commission, under an approved program, operating in accordance with federal and state laws (Federal "Clean Water Act" and "Missouri Clean Water Law" Section 644 as amended). NPDES operating permits are issued for a period of five (5) years unless otherwise specified.

A Factsheet gives pertinent information regarding the applicable regulations, rational for the development of the NPDES Missouri State Operating Permit (operating permit), and the public participation process for operating permit listed below.

A Factsheet is not an enforceable part of an operating permit.

This Factsheet is for a Permit Renewal ; Permit Modification ; and/or permit with widespread public interest .

Facility Information

NPDES Permit No.:	MO-0122840
Owner:	Opal Foods, LLC
Owner Address:	1100 Blair Avenue, Neosho, MO 64850
Facility Name:	Opal Foods, - Hathaway Farms
Facility Address:	17331 Hwy. D, Neosho, MO 64850
MDNR Region:	Southwest Regional Office
Facility County:	Newton
Facility Type:	Class IA-Concentrated Animal Feeding Operation (CAFO)
Facility SIC Code:	0252

Facility Description:

The Meadows Farm, School Farm, and Pullet Farm have no birds in them at this time. The Sawmill Farm has been depopulated and razed.

The Timberview Farm has 9 poultry buildings and 2 covered concrete manure pits with a capacity of 440,050. A construction permit application to replace the existing Timberview Farm buildings with 9 new buildings has been received. A proposed outfall is shown in this permit to reflect the as-built change to this outfall.

The Hathaway Farm has 7 houses with a capacity of 200,704 each for a total of 1,404,928. A construction permit application to build 4 new houses has been received. A proposed outfall is shown in this permit to reflect the as-built change to this outfall.

Outfalls 017, 018, 019 and 020 are stormwater runoff from the production site. Outfalls #S1 (previous outfall 014) and #S2 (previous outfall 025) are stream monitoring locations.

Effected Outfalls and other Modifications

Note: All outfalls are detailed in the operating permit starting on page 2.

This permit modification does not include an increase in animal numbers or animal capacity at this site.

The department is modifying, a Missouri State Operating Permit for an ownership transfer from MOARK 7 Farms to Opal Foods – Hathaway Farms located in Newton County. This facility is a Missouri Class IA Concentrated Animal Feeding Operation (CAFO) which, due to its classification and size has been required by the department to retain a site-specific operating permit.

Water Quality Monitoring -

The MOARK 7 Farms permit has, in the previous permit, required varying amounts of water quality monitoring. The monitoring requirements in the previous permit at this site have included sampling locations for stormwater, and in-stream monitoring with a sampling frequency of quarterly, and monthly respectfully. The purpose behind the department's monitoring requirements was to help aid in ascertaining any water quality related impacts from the CAFO's operation and land application of manure. Technical staff in the Permits Section have reviewed the results of the past monitoring and generally conclude that further extensive monitoring is unnecessary as there is no indication from past water quality data that a reasonable potential exists for the MOARK 7 Farms CAFO to violate water quality standards when it is managed and operated in accordance with permit requirements.

With this in mind, the department has reduced some of the complexity of the monitoring requirements within the MOARK 7 Farms permit. Storm water monitoring will be addressed by requiring sampling of the stormwater monitoring sites four times per year.

In-stream monitoring requirements have been retained and will include two monitoring points on the primary receiving stream for this site and will be sampled four times per year.

Inspections, Record Keeping, and Reporting Requirements -

On February 28, 2009, the department finalized changes to department's CAFO regulation at 10 CSR 20-6.300. In response to the new regulations, the department made several additions and changes to the inspections, record keeping, and reporting requirements to address the new state requirements.

Prior permits have included submittal of a quarterly report and an annual report in paper format. The annual report contained essentially the same information that was found in the quarterly report. Department staff rarely has the time or the need to regularly review the quarterly reports and the sheer volumes of documents and paper generated by the submittal of these reports fill up file room space in both the regional and central offices. The department plans to reduce the reporting requirement down to an annual report only and will provide MOARK Anderson Farm an option of submitting the annual reports electronically on a CD-ROM. This permit requires that all records required by the permit be made available, upon request, for department review and if deemed necessary can be reviewed by the department during inspections.

Nutrient Management -

Proper management and utilization of farm generated manure nutrients at a CAFO is key to its ability to operate in a safe and protective manner. State regulations pertaining to nutrient management at CAFOs have significantly changed since the last permit cycle. In particular, the requirements pertaining to development of application rates, including soil test phosphorus limitations, have become more prescriptive. The following are additions and/or changes that have been proposed for this permit which are direct result from recent updates in the state regulation.

This permit has been updated to reflect new nutrient management requirements. Most notably, new permit conditions have been included that require the CAFO to develop and implement a site-specific Nutrient Management Plan (NMP) that complies with nine specific criteria. The proposed permit stipulates a 6 month compliance schedule, which will begin on the date of issuance, for the development and submittal of this NMP. One of the key reasons the department is allowing the six month compliance date is that the CAFO must have the final permit requirements in order to fully develop a site specific NMP for this site. The permit also now requires MOARK to complete a phosphorus risk assessment on the land application fields that they own or control. This assessment will identify fields that have a high susceptibility to phosphorus loss and will place application rate restrictions on high risk fields. This protocol provides for a more predictable and systematic approach to phosphorus management as compared to the phosphorus assessments and limitations used in previous permits.

The permit now incorporates by reference the department's "Nutrient Management Technical Standards" (NMTS). This standard was developed to provide a framework for the protocol(s) and method(s) that CAFOs should utilize when determining the form, source, amount, timing, and method of application on individual land application fields. The NMTS represents the department's best professional judgment regarding how to satisfy and/or implement the specific NMP criteria G, H and I within 10 CSR 20-6.300(5)(A). The framework seeks to achieve realistic production goals while ensuring appropriate agricultural utilization of the nutrients in the manure, litter, or process wastewater while also minimizing movement of nitrogen, phosphorus, and other potential water contaminants into surface and/or ground water.

Land Application Areas -

The permit requires the permittee be responsible for all land application area(s) that are owned, rented, leased, or otherwise directly controlled by the permittee. All lands that fall under the definition of "land application area" as defined in 10 CSR 20-6.300, must be included in the facility's nutrient management plan.

When the permittee proposes to include additional land application area into the facility's nutrient management plan (except when such land is already in a nutrient management plan), the permittee must follow permit modification procedures prior to land application unless otherwise approved by the department.

When the permittee conducts land application activities to agricultural lands that are not owned, rented, leased or directly controlled, or when the permittee sells or gives away CAFO-generated manure, the permit requires the CAFO maintain certain records documenting the name of recipient, the date and amount of manure, litter, and process wastewater that leaves the permitted operation. It also requires the permittee provide the recipient with representative information on the nutrient content of the manure, litter, and/or process wastewater along with a copy of the Department's Nutrient Management Technical Standard.

Receiving Stream Information

Please mark the correct designated waters of the state categories of the receiving stream.

Missouri or Mississippi River [10 CSR 20-7.015(2)]:	Yes <input type="checkbox"/> ; No <input checked="" type="checkbox"/>
Lake or Reservoir [10 CSR 20-7.015(3)]:	Yes <input type="checkbox"/> ; No <input checked="" type="checkbox"/>
Losing [10 CSR 20-7.015(4)]:	Yes <input type="checkbox"/> ; No <input checked="" type="checkbox"/>
Metropolitan No-Discharge [10 CSR 20-7.015(5)]:	Yes <input type="checkbox"/> ; No <input checked="" type="checkbox"/>
Special Stream [10 CSR 20-7.015(6)]:	Yes <input type="checkbox"/> ; No <input checked="" type="checkbox"/>
Subsurface Water [10 CSR 20-7.015(7)]:	Yes <input type="checkbox"/> ; No <input checked="" type="checkbox"/>
All Other Waters [10 CSR 20-7.015(8)]:	Yes <input checked="" type="checkbox"/> ; No <input type="checkbox"/>

10 CSR 20-7.031 Missouri Water Quality Standards, the department defines the Clean Water Commission water quality objectives in terms of "water uses to be maintained and the criteria to protect those uses." The receiving stream and/or 1st classified receiving stream's beneficial water uses are to be maintained in accordance with 10 CSR 20-7.031(3)

Receiving Stream Monitoring Requirements:

Over five years of water quality stream data has been collected by Moark 7 Farm in order to analyze stream impacts from their facility. In analyzing data from the monitoring required previously by this permit, the department has found no obvious problems or differences in watersheds that house large CAFOs compared to those that do not. Water quality data generally show that the effects on water quality from agricultural non-point source activities, like unconfined livestock and commercial fertilizer use, appears to be similar to that of CAFOs that are reasonably well managed. With that said, the department has included two stream monitoring locations within the primary receiving stream be retained in this permit with a frequency of four times per year.

RATIONALE AND DERIVATION OF EFFLUENT LIMITATIONS & PERMIT CONDITIONS

PERMIT APPLICABILITY:

National Pollutant Discharge Elimination System (NPDES) permits are required for operations defined in 10 CSR 20-6.300 as a Concentrated Animal Feeding Operation (CAFO). Site-specific permits are required for CAFO operations that fall within the class IA category. Operations that fall under this category confine 7,000 or more animal units. The department, however, can require site specific permits to other class I operations if it is determined that the quality of the waters of the state would be better protected with one.

PERMIT COVERAGE

This site specific permit will cover all production areas, which include the confinement, storage, and handling areas, as well as the land application activities at sites that are under the ownership or control of the permitted CAFO owner/operator. This permit applies only to requirements of, and regulations promulgated under, the Missouri Clean Water Law and Federal Clean Water Act and does not apply to other environmental laws and regulations. This permit does not recognize, supersede nor remove liability from compliance with county and other local ordinances.

WHAT CONSTITUTES A DISCHARGE FROM A CAFO:

A discharge of process waste is the discharge of pollutants into surface or subsurface waters of the state from the animal confinement or storage and handling areas of a CAFO including in some circumstances the land application area(s) under the ownership or control of the CAFO operator.

Discharges prohibited by this permit include, but are not limited to, the following:

- Discharge from manure storage structures (lagoons, basins, pits, etc.), unless discharge was due to storm events exceeding the chronic or catastrophic storm events for the design storage period.*
- Discharge of contaminated runoff from non-vegetated feedlots, stockpiled manure, and other feedstock storage;
- Discharges associated with improper land application of manure and/or wastewater activities under the control of the CAFO operator;
- Discharges of manure and/or wastewater due to pipe breakage or equipment failure.

*Discharge is allowed due to overflow through the emergency spillway of the lagoon or other uncovered storage structure when the overflow is caused by storm events that exceed the defined design storm event. Only that portion of storm water flow, which exceeds the design storm event may be discharged.

Stormwater discharges from land application areas that have received manure as fertilizer are authorized under this permit. Stormwater that comes from land application sites is exempt from effluent limits. The reason stormwater discharges are not subject to discharge limits is because the federal definition of a point source contains a specific exclusion for agricultural stormwater. This exclusion was further clarified when the U.S. Environmental Protection Agency (USEPA) promulgated the revised CAFO Regulations on February 12, 2003. The clarification stated that if the process waste is applied at agronomic rates, the stormwater runoff from land application sites is not subject to effluent limitations. This determination by the USEPA was later upheld by the Second Circuit Court's ruling in *Waterkeeper Alliance, Inc. et. al. v. U.S. Environmental Protection Agency*, 399 F.3d 486 (2nd Cir. 2005). Since the State of Missouri has not enacted any laws that would differ from the EPA's determination or the subsequent court ruling, the stormwater runoff from land application sites is exempt from effluent limitations and is considered a non-point source not subject to permit requirements.

PROPOSED DISCHARGE LIMITATIONS, MONITORING, AND TREATMENT REQUIREMENTS

Please see Section A & B of this draft Permit attached to this fact sheet

RATIONALE FOR PROPOSED DISCHARGE LIMITATIONS, MONITORING AND TREATMENT REQUIREMENTS:

Effluent parameters and limitations contained in this Missouri State Operating Permits are obtained from Technology Based Effluent Limits (TBEL), Missouri's Effluent Regulations [10 CSR 20-7.015], Missouri's Water Quality Standards [10 CSR 20-7.031], previous Missouri State Operating Permits, and from Permit Applications. When CAFOs actively operate and maintain properly designed manure and wastewater storage structures they will prevent most, if not all overflows and discharges. Because of this, the department has established Best Management Practices (BMPs) to insure proper operation and maintenance of the production area and to prevent unauthorized discharges. Because of the uncertainty that is involved in determining if runoff or overflow of process waste has led to a discharge, as well as the substantial variation of the volume and nature of the pollutants of the discharge, numeric effluent limitation guidelines to control discharges are considered infeasible. Conversely, effluent limitations in the form of BMPs are particularly suited for the regulation of CAFOs. Controlling discharges to surface water is largely associated with controlling runoff and controlling overflows from manure storage structures. Runoff from CAFOs can be highly intermittent and is usually characterized by very high flows, due to precipitation, occurring over relatively short time intervals.

Along with BMPs, proper nutrient management planning and mandated recordkeeping requirements in dealing with the CAFOs manure storage structures and land application is required under this permit. These requirements will ensure that CAFOs apply manure, litter, and other process wastewaters at rates, and in a manner consistent with appropriate agricultural utilization of nutrients. Limits on the rate at which manure or litter can be applied and certain other constraints on application practices, such as setbacks, and application methods are widely demonstrated as achievable and are being imposed through this permit.

ANTIDegradation ISSUES:

As there shall be no-discharge of process wastewater during dry weather conditions the terms and conditions proposed in this draft permit will maintain and protect the designated uses of the various receiving stream(s) as well as the level of water quality necessary to protect said water uses. With proper implementation of Best Management Practices (BMPs) and the NMTS at both the CAFO production area(s) and land application site(s) as well as other minimum standards, protection of water quality will be provided for a particular water body where the water quality exceeds levels necessary to protect fish and wildlife propagation and recreation on and in the water. This also includes special protection of waters designated as outstanding natural resource waters. Antidegradation plans are adopted by each State to minimize adverse effects on water.

ANTI-BACKSLIDING:

A provision in the Federal Regulations [CWA §303(d)(4); CWA §402(c); CFR §122.44(I)] requires a reissued permit to be as stringent as the previous permit with some exceptions.

- All limits in this Factsheet are at least as protective as those previously established; therefore, backsliding does not apply.

- Backsliding proposed in this Factsheet for the reissuance of this permit conform to the anti-backsliding provisions of Section 402(o) of the Clean Water Act, and 40 § CFR 122.44.

COMPLIANCE AND ENFORCEMENT:

Action taken by the department to resolve violations of the Missouri Clean Water Law, its implementing regulations, and/or any terms and condition of an operating permit.

Applicable ;

Not Applicable ; The permittee/facility is not under enforcement action and is considered to be in compliance with the Missouri Clean Water Law, its implementing regulations, and/or any terms and condition of an operating permit.

Opal Foods, - Hathaway Farms
MO-0122840
FACT SHEET PAGE 7

The Public Notice period for this operating permit was from 3-15-2011 to 4-15-2011.

Date of Factsheet: 02-28-2011

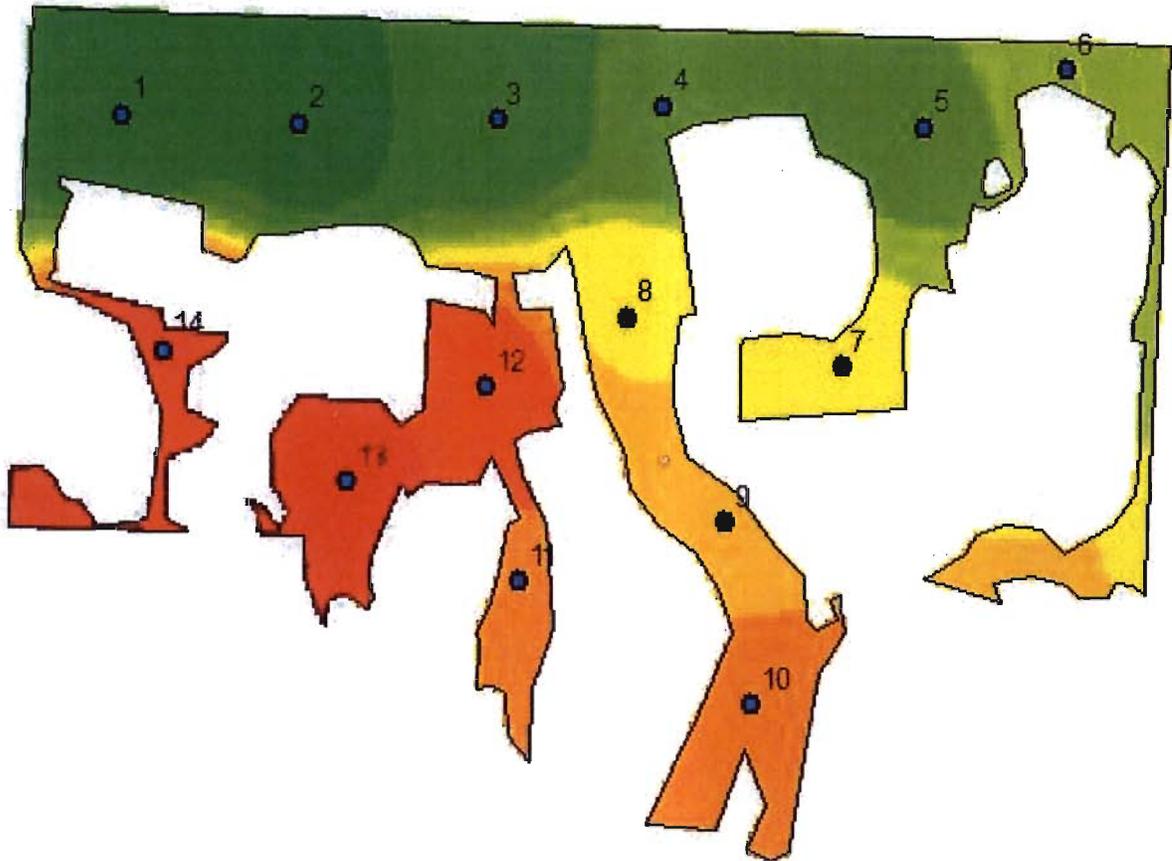


APPENDIX B

Land Application Site Soil Tests

Timberview - Timberview

Soil Test Sample Number



94.3605
36.7932



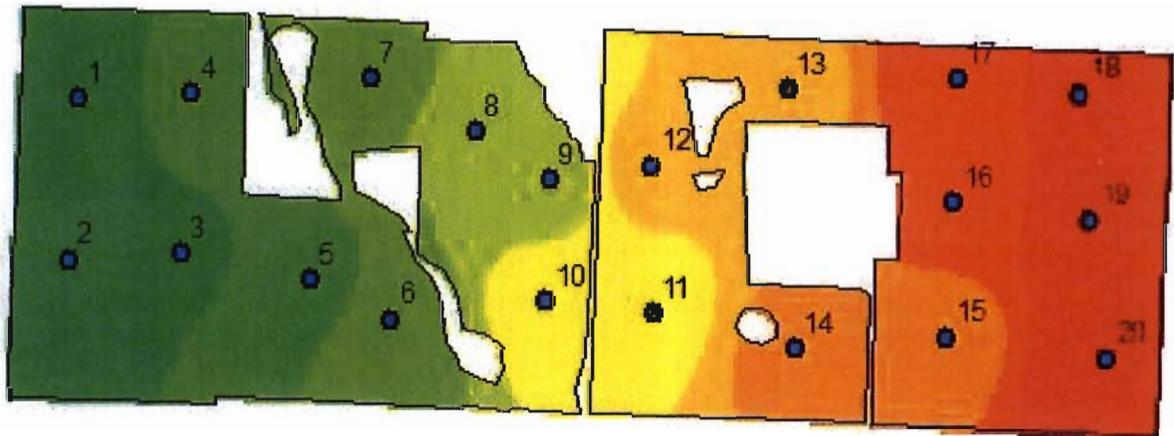
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 Neosho, Mo 64850
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2.300000 - 3.795000	12.14
3.795000 - 5.225000	16.89
5.225000 - 6.655000	8.89
6.655000 - 8.085000	11.14
8.085000 - 9.515000	8.76
9.515000 - 11.075000	11.17
11.075000 - 12.570000	5.95

- 12.570000 - 14
- Sample Number
- Field Boundary

FAB-School - FAB-School

Soil Test Sample Number



-94.3421
36.8002



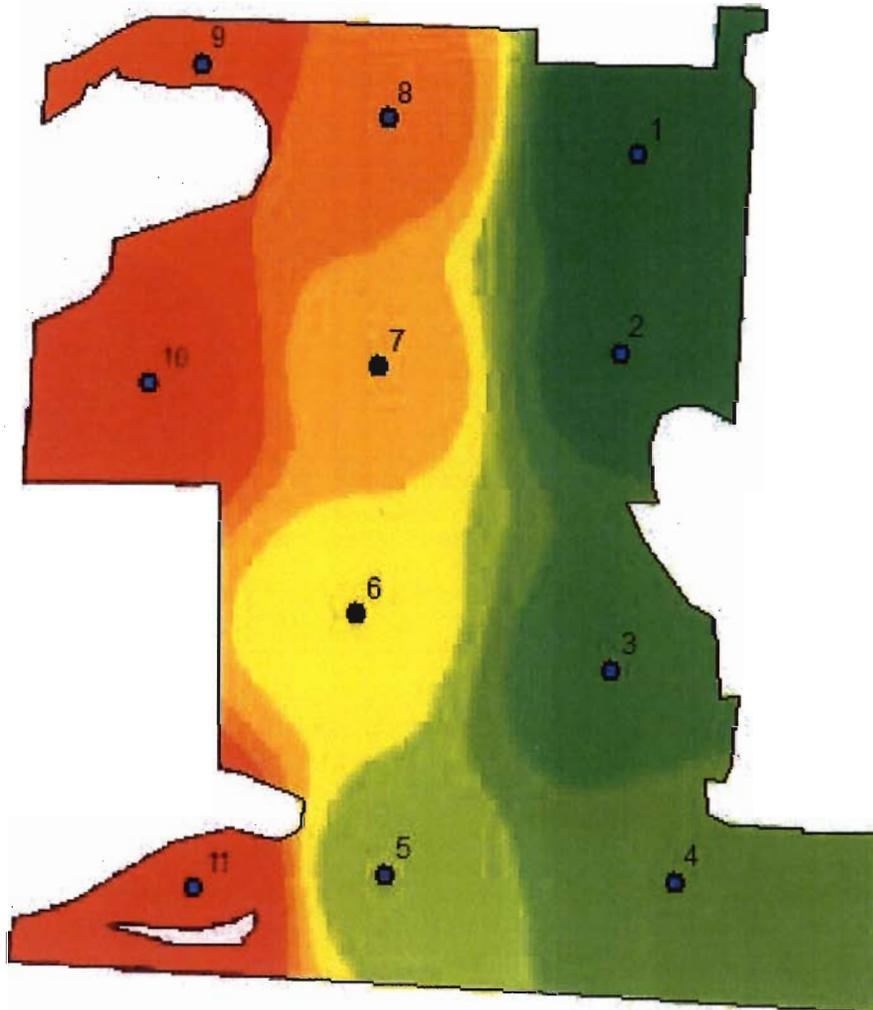
Customer: Moark Spreading
Address: 1100 Blair Ave
 Neosho, Mo 64850
Boundary Area: 178.44 (ac)
Min: 1.000000
Avg: 10.081517
Max: 20.000000
Std. Dev: 5.783783
Sample Depth: 0 (in) - 6 (in)
Start Date: 8/25/2011 1:05:34 PM
End Date: 8/25/2011 1:05:34 PM

val	ac
1.000000 - 3.090000	30.01
3.090000 - 5.275000	22.03
5.275000 - 7.365000	18.96
7.365000 - 9.455000	15.66
9.455000 - 11.450000	19.39
11.450000 - 13.445000	17.85
13.445000 - 15.535000	18.23
15.535000 - 17.625000	16.99

- 17.625000 - 20
- Sample Number
- Field Boundary

Hathaway - Hathaway

Soil Test Sample Number



-94.3470
36.7934



Customer: Moark Spreading
Address: 1100 Blair Ave
 Neosho, Mo 64850
Boundary Area: 89.07 (ac)
Min: 1.000000
Avg: 5.628783
Max: 11.000000
Std. Dev: 2.737438
Sample Depth: 0 (in) - 6 (in)
Start Date: 8/25/2011 1:25:34 PM
End Date: 8/25/2011 1:25:34 PM

val	ac
1.000000 - 2.300000	12.28
2.300000 - 3.500000	9.86
3.500000 - 4.500000	14.52
4.500000 - 5.500000	9.53
5.500000 - 6.450000	10.25
6.450000 - 7.450000	8.99
7.450000 - 8.500000	8.50
8.500000 - 9.650000	5.99

9.650000 - 11.000000
 Sample Number
 Field Boundary



REPORT NUMBER 11-231-0041
 ANALYSIS DATE AUG 23, 2011
 ACCOUNT NO. 8197

Midwest Laboratories

13811 "B" Street • Omaha, Nebraska 68144-3893
 (402) 334-7770 • FAX (402) 334-9121 • www.midwestlabs.com

PAGE 1/2
 REPORT DATE OCT 12, 2011
 COPY TO 2nd COPY TO

MOARK PRODUCTIONS INC
 HUGH VOGEL
 1100 BLAIR AVE
 NEOSHO MO
 64850-

GROWER
 HATHAWAY

SOIL ANALYSIS REPORT VIEW YOUR SUBMITTAL FORM

LAB NUMBER	SAMPLE IDENTIFICATION	ORGANIC MATTER		PHOSPHORUS					POTASSIUM		MAGNESIUM		CALCIUM		SODIUM		pH		CATION EXCHANGE CAPACITY C.E.C. meq/100g	PERCENT BASE SATURATION (COMPUTED)								
				L.O.I.	WEAK BRAY 1:7 PERCENT RATE	P ₁ ppm RATE	P ₂ STRONG BRAY 1:7 ppm RATE	BICARBONATE P OLSEN ppm RATE	K		Mg		Ca		Na		SOIL pH	BUFFER INDEX		K	Mg	Ca	H	Na				
									ppm	RATE	ppm	RATE	ppm	RATE	ppm	RATE									ppm	RATE	ppm	RATE
22805564	111	3.7	H	98	VH	129	VH			97	M	122	M	1999	VH			6.8		11.3	2.2	9.0	88.8					
22805565	112	7.9	VH	183	VH	184	VH			90	L	95	L	2419	VH			6.8		13.1	1.8	6.0	92.2					
22805566	113	5.1	VH	199	VH	200	VH			101	M	78	L	2140	VH			7.0		11.6	2.2	5.6	92.2					
22805567	114	3.0	M	133	VH	148	VH			156	H	99	L	2491	VH			7.5		13.7	2.9	6.0	91.1					
22805568	115	6.0	VH	159	VH	160	VH			172	VH	117	L	2329	VH			7.0		13.1	3.4	7.4	89.2					
22805569	116	4.9	VH	224	VH	225	VH			176	VH	108	M	1862	VH			6.9		10.7	4.2	8.4	87.4					
22805570	117	8.3	VH	157	VH	158	VH			305	VH	169	H	2217	VH			6.8		13.3	5.9	10.8	83.5					
22805571	118	4.6	VH	100	VH	120	VH			105	M	102	L	1912	H			6.5	6.9	11.6	2.3	7.3	82.4					
22805572	119	3.8	H	121	VH	149	VH			155	H	82	L	2062	VH			7.0		11.4	3.5	6.0	90.5					
22805573	120	8.8	VH	209	VH	210	VH			51	L	39	L	953	VH			7.1		5.2	2.5	6.2	91.3					

Sample ID	NITRATE-N (FIA)								SULFUR S ICAP ppm RATE	ZINC Zn ppm RATE	MANGANESE Mn ppm RATE	IRON Fe ppm RATE	COPPER Cu ppm RATE	BORON B ppm RATE	EXCESS LIME RATE	SOLUBLE SALTS 1:1 mmhos/ RATE cm	
	Surface			Sub 1		Sub 2											Total lbs/A
	ppm	lbs/A	depth IN	ppm	lbs/A	depth IN	ppm	lbs/A									
111	16	29	0-6						29								
112	20	36	0-6						36								
113	14	25	0-6						25								
114	46	83	0-6						83								
115	27	49	0-6						49								
116	18	32	0-6						32								
117	35	63	0-6						63								
118	17	31	0-6						31								
119	19	34	0-6						34								
120	26	47	0-6						47								



ALLGEIER, MARTIN and ASSOCIATES, INC.
Consulting Engineers

June 6, 2016

RECEIVED

JUN 08 2016

Water Protection Program

Missouri Dept. of Natural Resources
Water Protection Program
Attn: Greg Caldwell
P.O Box 176
Jefferson City, MO 65102-0176

Re: CAFO Operating Permit Application
Opal Foods, Timberview Farm Expansion 2016
Neosho, MO

Dear Mr. Caldwell:

Find enclosed the Opal Foods Expansion application packet and Form W for your review. Because the permit is being modified during the renewal process no additional fee is being sent per your instructions.

If you have any questions or require addition information to complete the review process please contact me at jared.nichols@amce.com or at 417-680-7356.

Sincerely,

ALLGEIER, MARTIN and ASSOCIATES, INC.

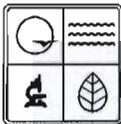
Jared Nichols, P.E.

Enclosure(s)

cc: w/enclosure(s): Jerry Welch

RECEIVED

JUN 08 2016



MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER PROTECTION PROGRAM

Water Protection Program

**FORM W - CONCENTRATED ANIMAL FEEDING OPERATION
(CAFO) OPERATING PERMIT APPLICATION**

FOR OFFICE USE ONLY	
CHECK NUMBER:	
DATE RECEIVED 6/8/16	FEE SUBMITTED -0- JS

Complete all applicable sections for type of permit being applied for. Instructions for completing the form are located at the end of the form. Sign, date and return the form and all requested documents along with a check for \$150 payable to the Missouri Department of Natural Resources. Make a copy of this completed form and keep it with your Nutrient Management Plan.

PART 1 – PERMIT OWNERSHIP/CONTACT INFORMATION

1.1 OPERATION NAME Opal Foods Neosho Farms		CURRENT PERMIT NUMBER MO-0122840	COUNTY Newton
PHYSICAL ADDRESS School:17684 Hwy D/Hathaway:17331 Hwy D/Timberview:19242 Mallard Dr.			TELEPHONE NUMBER WITH AREA CODE
CITY Neosho	STATE MO	ZIP CODE 64850	
1.2 OWNER (PROVIDE LEGAL NAME) Opal Foods LLC		EMAIL ADDRESS info@opal-foods.com	
MAILING ADDRESS 1100 Blair Avenue			TELEPHONE NUMBER WITH AREA CODE (417) 455-5000
CITY Neosho	STATE MO	ZIP CODE 64850	
1.3 CONTINUING AUTHORITY (IF DIFFERENT THAN THE OWNER) Same As Above			
MAILING ADDRESS			TELEPHONE NUMBER WITH AREA CODE
CITY	STATE	ZIP CODE	

PART 2 – PERMIT TYPE, ACTION, AND NUTRIENT MANAGEMENT PLAN OR NMP

<p>2.1 PERMIT TYPE</p> <p><input checked="" type="checkbox"/> NPDES Permit NMP is required to be submitted with application. (Must also complete Land Application Information page)</p> <p><input type="checkbox"/> State No-Discharge Permit NMP is not required to be submitted. The date soil tests were taken that was used in development of the NMP. (Month/Year)</p>	<p>2.2 Permit Action</p> <p><input type="checkbox"/> New Permit <input type="checkbox"/> Renewal</p> <p><input checked="" type="checkbox"/> Modification (including Ownership Transfer)</p> <p>Previous Owner _____ Name _____ Address _____ City, State, Zip Code _____ Previous Owner's Signature _____ Date _____</p>
---	--

PART 3 – DESIGN CAPACITY FOR MANURE STORAGE AND ANIMALS OF EACH CAFO FEATURE

(All information to complete this section is in your current operating or construction permit. Attach additional sheets if necessary)

3.1 STORAGE STRUCTURE TYPES, AMOUNT OF STORAGE, AND AMOUNT OF MANURE GENERATED PER YEAR.							
CAFO Feature	List All Manure Storage Structures at each CAFO Feature Storage Structure Type(s)	Dry Manure Handling System		Wet Manure Handling System			
		Design Dry Process Waste (tons/yr.)	Days of Storage	Total Storage Capacity (gal)	Design Wastewater per Year (gal./yr.)	Days of Storage	Design Flow MGD
001	(F) - 15 Buildings - See Attached Table 1	138,212	109	N/A	N/A	N/A	N/A
002							
003							
004							
005							

3.2 LIST EACH TYPE OF ANIMAL IN CONFINEMENT AND THE NUMBER OF EACH ANIMAL TYPE.

CAFO Feature	Animal Category #1	Animal Numbers	Animal Category #2	Animal Numbers	Animal Category #3	Animal Numbers
001	(8) Layer Chickens	4,700,000				
002	(10) Pullet Chickens	2,148,000				
003						
004						
005						

PART 4 – OPERATIONAL INFORMATION

4.1 OPERATIONAL INFORMATION (SEE INSTRUCTIONS) SIC Code(s) 0251 & 252	CAFO Class Size IA
4.2 Is this an "Export Only" operation?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
4.3 Are spreading agreements current?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable

PARTS 5 through 11 meet the NMP requirements for an export only operation.

PART 5- MANURE STORAGE

State regulations require CAFOs to ensure adequate storage of manure, litter, or process wastewater, including the proper operation and maintenance of each storage facility.

5.1 Does each storage structure have adequate storage, properly operated and maintained so as not to discharge? Yes No

PART 6 - ANIMAL MORTALITY

State regulations require proper management of animal mortalities be in place at all CAFOs. There should be no discharge from dead animal collection, holding, or disposal areas at the CAFO's production areas. In addition, the Missouri Department of Agriculture requires the collection or disposal of dead animals in accordance with the Dead Animal Disposal Law under Chapter 269 RSMo.

6.1 PERMANENT METHOD OF ANIMAL MORTALITY HANDLING OR DISPOSAL; CHOOSE APPLICABLE METHOD(S)

Composting Rendering Send to a Landfill Incineration Other (Describe)

6.2 DESCRIBE METHOD OF MORTALITY HANDLING AND STORAGE THROUGH ALL PHASES TO FINAL DISPOSAL. (EXAMPLE: MORTALITIES ARE COMPOSTED WITHIN 24 HOURS OF DEATH AND FINISHED COMPOST PRODUCT IS STORED UNDER ROOF UNTIL LAND APPLIED). ALSO DESCRIBE THE TYPE OF COMPOST STRUCTURE USED, IF APPLICABLE.

Stored onsite in dumpster until picked up and taken to landfill. Pick up occurs 3 times a week. No discharge from stored mortalities.

PART 7 - DIVERSION OF CLEAN WATER

State regulations require CAFOs to divert clean stormwater, as appropriate, around the production area.

7.1 Is clean stormwater diverted from the production area? Yes No

7.2 If yes, describe controls and measures used to divert stormwater.

All areas containing animals or waste are covered by roof or completely enclosed. Grading is such that rainwater is diverted away from the buildings.

7.3 IF NO, INCLUDE DESIGN CALCULATIONS (IF NOT INCLUDED IN THE ORIGINAL DESIGN) FOR DETERMINING THE TOTAL STORAGE CAPACITY NEEDED TO CONTAIN ALL CLEAN STORMWATER RUNOFF THAT HAS NOT BEEN DIVERTED FROM THE PRODUCTION AREA. NOTE: THE DEPARTMENT HIGHLY DISCOURAGES THIS PRACTICE.

PART 8 - PREVENT DIRECT CONTACT OF ANIMALS WITH SURFACE WATERS

State regulations require that CAFOs prevent the direct contact of confined animals with waters of the state.

8.1 Do the animals have access to waters of the state within the production area? Yes No

8.2 LIST MEASURES USED TO PREVENT ANIMALS FROM HAVING DIRECT CONTACT WITH WATERS OF THE STATE WITHIN THE PRODUCTION AREA.

Animals are confined to buildings at all times.

PART 9 - CHEMICAL HANDLING

State regulations require chemicals and other contaminants handled on-site not be disposed of in any manure, litter, process wastewater, storm water storage or treatment system unless specifically designed to treat such chemicals and other contaminants

9.1 CHECK THE APPROPRIATE BOXES BELOW TO INDICATE THE MEASURES TAKEN TO PREVENT CHEMICALS (INCLUDING PESTICIDES, COMMERCIAL FERTILIZERS, HAZARDOUS AND TOXIC CHEMICALS AND PETROLEUM BY-PRODUCTS) FROM CONTAMINATING MANURE STORAGE STRUCTURES, PROCESS WASTEWATER OR STORM WATER STORAGE AND TREATMENT SYSTEMS:

- Chemicals are stored in proper containers. (Describe)
See maintenance plan.
- Chemicals that are no longer used or expired are properly disposed of. (Describe)
See maintenance plan.
- Chemical storage and handling areas are protected from precipitation and runoff, and any spillage is contained within these areas. (Describe)
See maintenance plan.
- Emergency procedures and equipment are in place to contain and clean up chemical spills. (Describe)
See maintenance plan.
- Equipment wash areas are designed and constructed to prevent contamination of surface waters and wastewater and storm water storage and treatment systems. (Describe)
See maintenance plan.
- Chemicals are handled and used according to the label. (Describe)
See maintenance plan.
- No chemicals are stored or handled in the production area.

PART 10 - MANURE ANALYSIS TESTING

State regulations require that each unique source of manure be tested annually for nutrient content.

10.1 LIST EACH TYPE OF MANURE SOURCE. (i. e. MANURE, LITTER, COMPOST, WASTE WATER.)

All

10.2 DESCRIBE THE PROCEDURES TO ENSURE EACH UNIQUE SOURCE IS TESTED ANNUALLY.

Manure / Litter / Compost is tested prior to being land applied. Wastewater is sent to the Neosho WWTP.

PART 11 - RECORD KEEPING

State regulations require specific records to be maintained and kept for five years.

11.1 Are records of all inspections, manure transfers, discharges and land application maintained? Yes No

PART 12 - SIGNATURE

NAME <i>Jerry Walsh</i>	TITLE <i>Vice President GM</i>
SIGNATURE <i>Jerry Walsh</i>	DATE <i>6/2/2014</i>

RECEIVED

JUN 08 2016

Water Protection Program

OPERATING PERMIT APPLICATION
PROJECT DESIGN SUMMARY

OPAL FOODS
SCHOOL FARM, HATHAWAY FARM, AND
TIMBERVIEW FARM
2016 EXPANSION

PREPARED MAY 2016 IN ACCORDANCE WITH
10 CSR 20-8.300 and 10 CSR 20-6.300



Prepared by



ALLGEIER, MARTIN & ASSOCIATES, INC.
Consulting Engineers
Joplin, Missouri

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III.	WASTE LOAD CALCULATIONS	6-7
IV.	WASTE HANDLING PROCEDURES	8-9
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APPENDIX 1 – FORM W

APPENDIX 2 – TABLE 1 – SITE FACILITIES & MANURE PRODUCTION CALCULATIONS

APPENDIX 3 – LOCATION PLAN 1" = 2000' SCALE

APPENDIX 4 – NEIGHBOR NOTIFICATION BUFFER MAP AND MAILING LIST

APPENDIX 5 – GENERAL SITE PLANS

APPENDIX 6 – NUTRIENT MANAGEMENT PLAN

OPERATING PERMIT APPLICATION
PROJECT DESIGN SUMMARY

I. INTRODUCTION

The existing Opal Foods facilities are located in several sections of Newton County. The facilities at the School Farm, Hathaway Farm, and Timberview Farm locations in Sections 13, 24, and 23, respectively, of Township 24 North, Range 31 West in Newton County, Missouri. The farms are located southeast of Neosho, Missouri as depicted on the location map. Opal Foods is the owner and operator of the farms. The proposed improvements under this permit modification are located at the Timberview Farm only.

Opal Foods intends to make improvements that will expand the production capacity at Timberview Farm. The Timberview Farm improvements include the construction of 2 dry pullet buildings and 1 new dry manure storage building. The following design summary is intended to describe the project, waste handling procedures, and waste load projections for the proposed improvements.

II. DESCRIPTION OF EXSITING AND PROPOSED FACILITIES

Existing School Farm Structures (Currently Permitted):

- 8 dry layer buildings (some still under construction in the attached drawing aerial), each with dimensions of approximately 70 feet by 500 feet. Each house contains up to 100,000 layers for a total of 800,000 birds in the 8 houses.
- 1 manure shed for the 8 layer buildings with dimensions of approximately 70 feet by 300 feet. It is able to store and compost approximately 168,000 cubic feet of manure until it is transported to the manure storage operation north of Highway D or an approved stockpile location.
- 4 dry layer buildings (some still under construction in the attached drawing aerial), each with dimensions of approximately 70 feet by 500 feet. Each house contains up to 100,000 layers for a total of 400,000 birds in the 4 houses.
- 1 manure shed for the 4 layer buildings with dimensions of approximately 50 feet by 210 feet. It will be able to store and compost approximately 84,000 cubic feet of manure until it is transported to the manure storage operation north of Highway D or an approved stockpile location.
- 4 pullet buildings (some still under construction in the attached drawing aerial), each with dimensions of approximately 60 feet by 300 feet. Each house contains up to 50,000 pullets for a total of 200,000 birds in the 4 houses.
- 1 manure shed for the 4 pullet buildings with dimensions of approximately 50 feet by 150 feet. It is able to store and compost approximately 60,000 cubic feet of manure until it is transported to the manure storage operation north of Highway D or an approved stockpile location.
- 1 egg processing plant.
- 1 office and other small miscellaneous buildings for storage.

Existing Hathaway Farm Structures (Currently Permitted):

- 7 south dry layer buildings, each with dimensions of approximately 68 feet by 432 feet. Each house contains up to 200,000 layers for a total of 1,400,000 birds in the 7 houses.
- 1 manure shed for the 7 south layer buildings with dimensions of approximately 70 feet by 280 feet. It is able to store and compost approximately 156,800 cubic feet of manure until it is transported to the manure storage operation north of Highway D or an approved stockpile location.
- 1 south dry layer building with dimensions of approximately 92 feet by 528 feet. The house will be constructed to hold up to 300,000 layers.
- 1 manure storage shed for the 1 south layer building approximately 20 feet by 40 feet. It is able to store and compost approximately 19,200 cubic feet of manure until it is transported to the manure storage operation north of Highway D or an approved stockpile location.
- 4 north dry layer buildings, each with dimensions of approximately 94 feet by 432 feet. Each house contains up to up to 300,000 layers for a total of 1,200,000 birds in the 4 houses.
- 1 manure shed for the 4 north layer buildings with dimensions of approximately 78 feet by 280 feet. It is able to store and compost approximately 174,720 cubic feet of manure until it is transported to the manure storage operation north of Highway D or an approved stockpile location.
- 2 north dry layer buildings, each with dimensions of approximately 92 feet by 528 feet. Each house will be constructed to hold 300,000 layers for a total of 600,000 birds in the 2 houses.
- 1 manure storage shed for the 2 north layer buildings approximately 20 feet by 40 feet. It is able to store and compost approximately 4,800 cubic feet of manure until it is transported to the manure storage operation north of Highway D or an approved stockpile location.
- 1 egg processing plant.
- 1 office and other small miscellaneous buildings for storage.

Existing Timberview Farm Structures:

- 4 pullet buildings, each with dimensions of approximately 71 feet by 345 feet. Each house contains up to 200,000 pullets for a total of 800,000 birds in the 4 houses.
- 2 manure sheds for the 8 pullet buildings, each with dimensions of approximately 20 feet by 40 feet. They are able to store and compost approximately 9,600 cubic feet of manure until it is transported to the manure storage operation north of Highway D or an approved stockpile location.
- 4 pullet buildings, each with dimensions of approximately 55 feet by 352 feet. Each house contains up to 100,000 pullets for a total of 400,000 birds in the 4 houses.
- 2 manure sheds for the 8 pullet buildings, each with dimensions of approximately 20 feet by 40 feet. They are able to store and compost approximately 9,600 cubic feet of manure until it is transported to the manure storage operation north of Highway D or an approved stockpile location.
- 2 pullet buildings, each with dimensions of approximately 60 feet by 300 feet. Each house will be constructed to contain up to 50,000 pullets for a total of 100,000 birds in the 2 houses.
- 1 manure shed for the 2 pullet buildings with dimensions of approximately 20 feet by 40 feet. It will be able to store and compost approximately 4,800 cubic feet of manure until it is transported to the manure storage operation north of Highway D or an approved stockpile location.
- 1 office and other small miscellaneous buildings for storage.

Proposed Timberview Farm Structures:

- 2 pullet buildings, each with dimensions of approximately 107 feet by 580 feet. Each house contains up to 324,000 pullets for a total of 648,000 birds in the 2 houses.
- 1 manure shed for the 2 pullet buildings with dimensions of approximately 30 feet by 60 feet. It will be able to store and compost approximately 10,800 cubic feet of manure until it is transported to the manure storage operation north of Highway D or an approved stockpile location.

The number of birds being added to the Opal Foods system in Neosho, Missouri for the proposed improvements and population of the buildings stated above will be 648,000 pullets. The total number of layers is 4,700,000 and the total number of pullets, including the proposed addition, is 2,148,000 which brings the total number of birds to 6,848,000

The proposed structures are being designed by others. The proposed pullet houses will have a waste handling system nearly identical to the other houses at the Timberview Farm, and will be operated nearly identical to the existing houses. The confinement buildings will be constructed on a concrete slab with concrete stem walls and will be framed above the stem walls with wood, metal, or a combination of the two. The structures will be finished with a wood or metal truss roof and painted metal roofing. The manure storage area will be constructed in a similar manner. All structures will be constructed watertight to prevent water from entering or leaving the structures.

The layers and pullets will receive feed from on-site bins. Water is delivered to each aviary space by PVC pipes, where a low-pressure system is available to deliver water to the birds. Excess water leaking from the water system is intended to be caught by grooves in the manure drying system. The air handling system will create air bellowing over the water that is caught in the grooves and promotes evaporation. If the grooves become full and overflow the excess water will be dropped onto the manure belt and removed.

Ventilation to the birds occurs when the exhaust fans turn on and pull fresh air in through inlet baffles. Outside air is also blown in through the pipes located along the back of the aviary spaces to aid in manure drying and fresh air access directly to each space. Feathers and materials exhausted by the ventilation system will be contained on-site by entrapment in the baffle screen located just beyond the ventilation exhaust locations.

Mortalities from the facilities will be collected 3 times per week at a minimum and properly disposed of at the landfill.

III. WASTE LOAD CALCULATIONS

Layer manure production – Based on current data from the Hathaway Farm, average daily manure production is approximately 0.14 lbs/day. This is reasonably consistent with what is cited in literature. The “Agricultural Waste Management Field Handbook” reports an “as excreted” weight of 60.50 lb/d/1000#, which equates to 0.18 – 0.24 lbs/day based on a bird weight of 3 – 4 pounds respectively. The “Livestock Waste Facilities Handbook” indicates a manure production rate of 0.21 lb/day for layers. The weight of 0.14 lbs/day is slightly lower than literature, but is not an “as excreted” weight, it is more representative of what is entering the storage building after a period of drying.

The unit weight of the layer manure ranges from 30 – 60 lbs/ft³ at the Hathaway Farm, but is typically around 45 lbs/ft³. Again, this is not far from what is cited in literature. The same sources as stated above were consulted and they provide an as excreted unit weight of 60 – 65 lbs/ft³, but again, this is “as excreted, and we are discussing the unit weight as it enters the manure building, which is after some drying has occurred. For the purposes of this project it is estimated that the layer manure entering the storage building will be produced at a rate of approximately 0.14 lbs/day and have a unit weight of 45 lbs/ ft³.

Pullet manure production – Based on records from similar pullet houses owned by Opal Foods at another location, it is estimated that the pullets will produce approximately 8 lbs/year at 24.5 lbs/ ft³. The “Agricultural Waste Management Field Handbook” reports “as excreted” waste for pullets at 45.6 lbs/day/1000# with a unit weight of 62.5 lbs/ ft³. In order to be conservative, the typical numbers from the “Agricultural Waste Management Field Handbook” will be utilized. If we assume that pullets up to 20 weeks old have an average weight of 1.5 lbs, as can be found in the North Carolina Cooperative Extension Service’s publication, “Poultry Layer Production Facility Manure Management: High Rise, Deep Pit,” it can be estimated that waste production per pullet is approximately 0.068 lbs/day “as excreted.” If we also assume that drying similar to the layers occurs to reduce the weight by approximately 33% then waste is produced at 0.046 lbs/day and the unit weight of the waste is assumed to be approximately 45 lbs/ ft³.

Based on past operation Opal Foods estimates significantly less waste will be generated by the pullets. This is probably because of the varying rate of manure production based on the age and size of the bird. For the purposes of this project it is estimated that the pullet manure entering the storage buildings will be produced at a rate of approximately 0.046 lbs/day and have a unit weight of 45 lbs/ ft³. This is utilized to ensure a conservative design approach.

Consequently, for a layer bird population of 4,700,000 birds the daily manure production is estimated at 14,622 cubic feet per day, or 5,340,685, cubic feet per year. For a pullet bird population of 2,148,000 birds the daily manure production is estimated at 2,196 cubic feet per day, or 802,089 cubic feet per year.

For the production rates stated at full capacity for all the Farms there is approximately 109 days of storage available. At each farm there is less than 90 days but all the farms are able to utilize the additional storage at the FAB complex. The amount of storage calculated is based on an estimated average depth over the entire storage building. In reality, the stored manure will be heaped in the center because of the conveyor system and will be shorter against the concrete stem wall along the sides. Based on site visits the average depths used in this calculation are low to keep the design conservative. If necessary the manure could be stacked much higher in the center because the buildings are tall. Opal Foods chooses to keep the storage buildings at the farms almost empty typically for ease of loading and in case they are not able to load for an unforeseen reason.

See Table 1 in appendix 2 for a detailed breakdown of the existing and proposed site facilities and of the manure production calculations at each farm.

IV. WASTE HANDLING PROCEDURES

The waste handling systems for the proposed buildings shall be designed to manage waste from all of the new birds and will operate exactly like the existing systems. The layers will have air drying tube to aid evaporation while the pullet houses will not have that feature. All the houses will have the manure from the birds fall onto manure belts. Periodically, the manure belts will be rotated, moving the waste toward the end of the building. At the end of the building the manure falls onto a main conveyor belt in the connecting tunnel. From that point the manure travels down the tunnel on the conveyor belt to the manure holding / loading building (manure shed). Periodically when the buildings are vacated the excess manure will be pushed onto the conveyor system and carried out at that time to the respective manure shed. Here the manure will be stored until being loaded for transfer to the FAB site or to be land applied based upon whichever option is favorable. Trucks will be loading inside of the manure storage buildings. Care will be taken during the hauling procedure to ensure waste is contained during the transfer. Waste taken to the Farmer Automatic Building (FAB) site is handled per permit requirements for that facility. The FAB complex is capable of storing 1,137,280 cubic feet of manure if necessary.

More information pertaining to manure storage and disposal can be found in the nutrient management plan in appendix 6. Individuals requesting the manure must first sign the MDNR approved agreement to spread the manure in accordance with Best Management Practices stated in Opal Foods permit before it is sold to them and spread on their property.

Manure generated can be temporarily stored in the onsite manure sheds prior to loading it onto trucks with a large loader and then transporting it to the FAB complex. The amount stored in each storage building varies but it is typically a small fraction of the storage capacity of the building. The preferred method most often used is for manure generated to be loaded directly into trucks and transported to the FAB complex. The manure conveyor belts are operated to load manure onto trucks and are off the rest of the time. Thus there is no manure stored in the sheds typically.

Opal foods has a number of trucks which allows them to use this more efficient means of operation and eliminate the need to store and load the manure.

Waste generated at the egg processing plants and from the office restrooms is collected in an existing sanitary sewer system with an onsite lift station operated and maintained by Opal Foods. The sewer is sent to the City of Neosho's sewer collection system. The City of Neosho is aware of the proposed project and the City's approval is required prior to acceptance of the additional sewer flow generated by the development.

V. OTHER CONSIDERATIONS

A land disturbance permit will be obtained prior to any construction for the proposed facilities. This permit will be obtained online using the citizen gateway interactive browser available on MDNRs website. A copy of the permit will be sent to the department at that time. The stormwater pollution prevention plan will be incorporated into the construction drawings and the appropriate documents will be included in the SWPPP.

The operation and maintenance manual has been updated to include the house numbers of the new buildings with the same operation and maintenance procedure that is currently performed. An updated operation and maintenance manual can be provided upon request.

APPENDIX 1

FORM W

SIGNED ORIGINAL COPIES OF FORM W ARE INCLUDED UNBOUND WITH THIS APPLICATION

PARTS 5 through 11 meet the NMP requirements for an export only operation.

PART 5- MANURE STORAGE

State regulations require CAFOs to ensure adequate storage of manure, litter, or process wastewater, including the proper operation and maintenance of each storage facility.

5.1 Does each storage structure have adequate storage, properly operated and maintained so as not to discharge? Yes No

PART 6 - ANIMAL MORTALITY

State regulations require proper management of animal mortalities be in place at all CAFOs. There should be no discharge from dead animal collection, holding, or disposal areas at the CAFO's production areas. In addition, the Missouri Department of Agriculture requires the collection or disposal of dead animals in accordance with the Dead Animal Disposal Law under Chapter 269 RSMo.

6.1 PERMANENT METHOD OF ANIMAL MORTALITY HANDLING OR DISPOSAL; CHOOSE APPLICABLE METHOD(S)

Composting Rendering Send to a Landfill Incineration Other (Describe)

6.2 DESCRIBE METHOD OF MORTALITY HANDLING AND STORAGE THROUGH ALL PHASES TO FINAL DISPOSAL. (EXAMPLE: MORTALITIES ARE COMPOSTED WITHIN 24 HOURS OF DEATH AND FINISHED COMPOST PRODUCT IS STORED UNDER ROOF UNTIL LAND APPLIED). ALSO DESCRIBE THE TYPE OF COMPOST STRUCTURE USED, IF APPLICABLE.

Stored onsite in dumpster until picked up and taken to landfill. Pick up occurs 3 times a week. No discharge from stored mortalities.

PART 7 - DIVERSION OF CLEAN WATER

State regulations require CAFOs to divert clean stormwater, as appropriate, around the production area.

7.1 Is clean stormwater diverted from the production area? Yes No

7.2 If yes, describe controls and measures used to divert stormwater.

All areas containing animals or waste are covered by roof or completely enclosed. Grading is such that rainwater is diverted away from the buildings.

7.3 IF NO, INCLUDE DESIGN CALCULATIONS (IF NOT INCLUDED IN THE ORIGINAL DESIGN) FOR DETERMINING THE TOTAL STORAGE CAPACITY NEEDED TO CONTAIN ALL CLEAN STORMWATER RUNOFF THAT HAS NOT BEEN DIVERTED FROM THE PRODUCTION AREA. NOTE: THE DEPARTMENT HIGHLY DISCOURAGES THIS PRACTICE.

PART 8 - PREVENT DIRECT CONTACT OF ANIMALS WITH SURFACE WATERS

State regulations require that CAFOs prevent the direct contact of confined animals with waters of the state.

8.1 Do the animals have access to waters of the state within the production area? Yes No

8.2 LIST MEASURES USED TO PREVENT ANIMALS FROM HAVING DIRECT CONTACT WITH WATERS OF THE STATE WITHIN THE PRODUCTION AREA.

Animals are confined to buildings at all times.

PART 9 - CHEMICAL HANDLING

State regulations require chemicals and other contaminants handled on-site not be disposed of in any manure, litter, process wastewater, storm water storage or treatment system unless specifically designed to treat such chemicals and other contaminants

9.1 CHECK THE APPROPRIATE BOXES BELOW TO INDICATE THE MEASURES TAKEN TO PREVENT CHEMICALS (INCLUDING PESTICIDES, COMMERCIAL FERTILIZERS, HAZARDOUS AND TOXIC CHEMICALS AND PETROLEUM BY-PRODUCTS) FROM CONTAMINATING MANURE STORAGE STRUCTURES, PROCESS WASTEWATER OR STORM WATER STORAGE AND TREATMENT SYSTEMS:

Chemicals are stored in proper containers. (Describe)

See maintenance plan.

Chemicals that are no longer used or expired are properly disposed of. (Describe)

See maintenance plan.

Chemical storage and handling areas are protected from precipitation and runoff, and any spillage is contained within these areas. (Describe)

See maintenance plan.

Emergency procedures and equipment are in place to contain and clean up chemical spills. (Describe)

See maintenance plan.

Equipment wash areas are designed and constructed to prevent contamination of surface waters and wastewater and storm water storage and treatment systems. (Describe)

See maintenance plan.

Chemicals are handled and used according to the label. (Describe)

See maintenance plan.

No chemicals are stored or handled in the production area.

PART 10 - MANURE ANALYSIS TESTING

State regulations require that each unique source of manure be tested annually for nutrient content.

10.1 LIST EACH TYPE OF MANURE SOURCE. (i. e. MANURE, LITTER, COMPOST, WASTE WATER.)

All

10.2 DESCRIBE THE PROCEDURES TO ENSURE EACH UNIQUE SOURCE IS TESTED ANNUALLY.

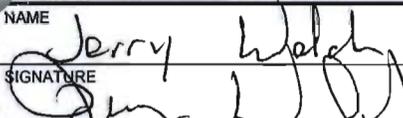
Manure / Litter / Compost is tested prior to being land applied. Wastewater is sent to the Neosho WWTP.

PART 11 - RECORD KEEPING

State regulations require specific records to be maintained and kept for five years.

11.1 Are records of all inspections, manure transfers, discharges and land application maintained? Yes No

PART 12 - SIGNATURE

NAME Jerry Walsh	TITLE Vice President GM
SIGNATURE 	DATE 6/2/2014

LAND APPLICATION INFORMATION (NPDES Permits only)

Operation Name:		Class Size:		Permit #:		County:		Crop #3 ¹		Crop #4 ¹		Crop #5 ¹	
		Field Name	Legal Description	Spreadable Acres	P Loss Risk ²	N or P Based Application	Crop	Yield Goal ³	Crop	Yield Goal ³	Crop	Yield Goal ³	Crop
	Sec.												
	Twp.												
	Rng.												
	Sec.												
	Twp.												
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	Rng.												
	Sec.												
	Twp.												
	Rng.												

¹ If more than five planned or alternative crops per field continue on next line.
² Soil Test P Rating or P Index Rating may be used.
³ Express yield in Bu=Bushels or T=Tons per acre.

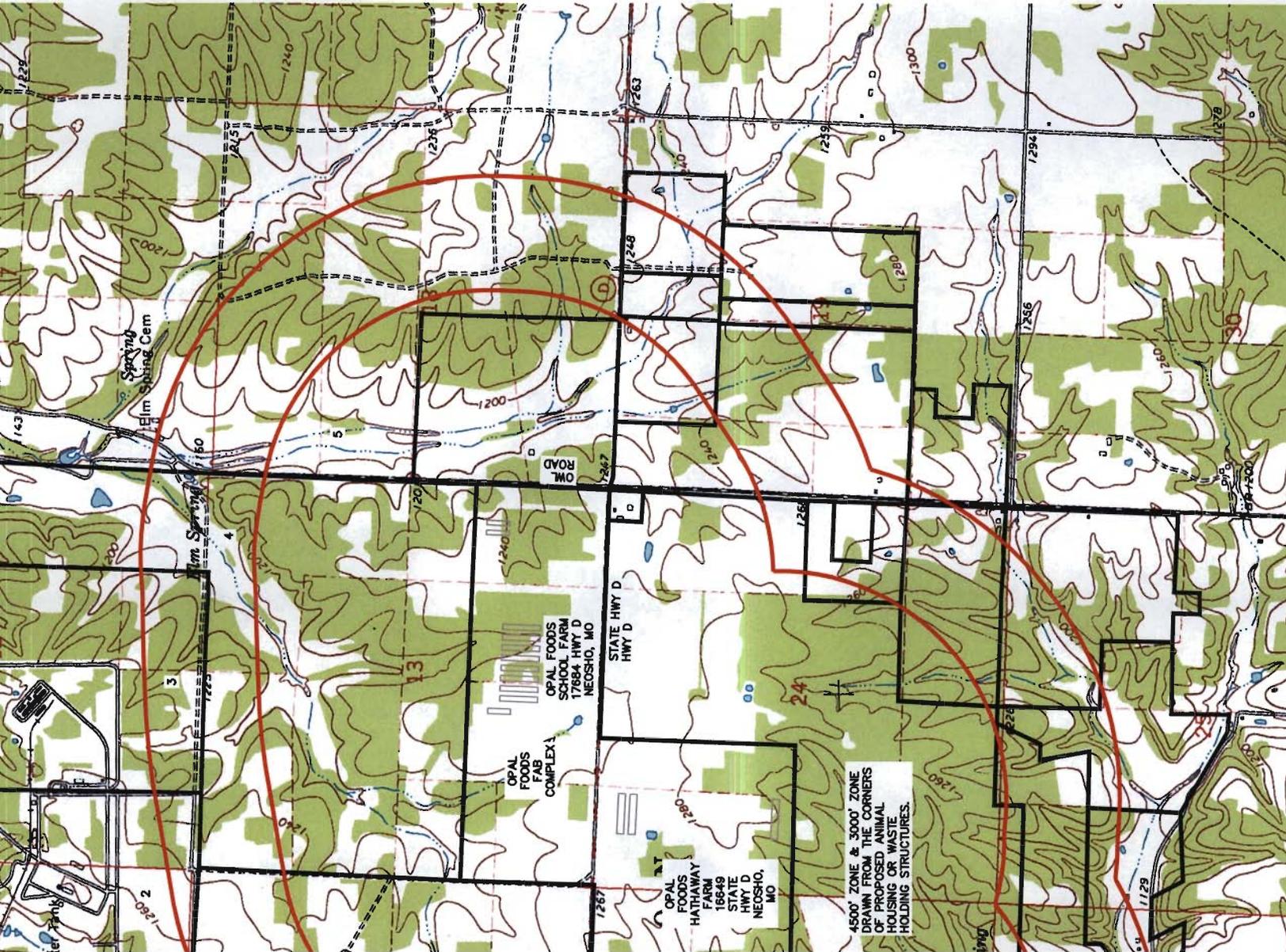
APPENDIX 2

TABLE 1 – SITE FACILITIES AND MANURE PRODUCTION CALCULATIONS

Birds	Total No. & Type of Birds	lbs/day per Bird	lbs/day Produced	Density lbs/ft ³	ft ³ Produced Daily	Avg. Storage Depth in ft	Storage Capacity in ft ³	Approx. Days of Storage
Layers each	800,000 Layers	0.14	112000	45	2489	8	168000	68
Layers each	400,000 Layers	0.14	56000	45	1244	8	84000	68
Pullets each	200,000 Pullets	0.046	9200	45	204	8	60000	293
Layers each	1,400,000 Layers	0.14	196000	45	4356	8	156800	36
Layers each	300,000 Layers	0.14	42000	45	933	6	4800	5
Layers each	1,200,000 Layers	0.14	168000	45	3733	8	174720	47
Layers each	600,000 Layers	0.14	84000	45	1867	6	4800	3
Pullets each	800,000 Pullets	0.046	36800	45	818	6	9600	12
Pullets each	400,000 Pullets	0.046	18400	45	409	6	9600	23
Pullets each	100,000 Pullets	0.046	4600	45	102	6	4800	47
Pullets each	648,000 Pullets	0.046	29808	45	662	6	10800	16
Layers each	4,700,000 Layers	0.14	658000	45	14622	8	313600	
Pullets each	2,148,000 Pullets	0.046	98808	45	2196	8	202752	
Birds	6,848,000 Birds				16818	8	620928	109

APPENDIX 3

LOCATION PLAN 1" = 2000' SCALE



GRAPHIC SCALE



(IN FEET)
1" = 2000'

APPENDIX 4

NEIGHBOR NOTIFICATION BUFFER MAP & MAILING LIST

1	OPAL FOODS	1100 BLAIR AVE, NEOSHO, MO 64850
2	MISSOURI NATIONAL GUARD	2302 MILITIA DRIVE, JEFFERSON CITY MO 65101
3	WATER & WASTEWATER TECHNICAL SCHOOL	601 LACLEDE, NEOSHO MO 64850
4	NEOSHO SCHOOL DISTRICT	511 S NEOSHO BLVD NEOSHO MO 64850
5	STATE OF MISSOURI	PO BOX 180 JEFFERSON CITY MO 65102
6	SOERSENSEN 1000 OAKS RANCH, LLC	PO BOX 1 EXETER, MO 65647
7	VANOTTTERLOO, DONNA M. TRUST	5687 IMPALA DRIVE JOPLIN MO 64804
8	MCCLEARY, J. ALLEN & CARL	17815 WOOD THRUSS LN SOUTH BEND IN 46635-1329
9	MCCLEARY, CARL M & DORIS E TRUST	17450 QUIETZEL DRIVE NEOSHO MO 64850
10	DAVIDIAN SEVENTH-DAY ADVENTIST	20412 FARM ROAD 1025 EXETER MO 65647
11	SCOTT, BRIAN D. & KIRSTEN K.	18417 HIGHWAY D NEOSHO MO 64850
12	BUSHNELL, DAWN O. & LAVALIN TRUST	18493 HIGHWAY D NEOSHO MO 64850
13	SKIVER, BERRY & STACEY	13328 STATE HIGHWAY T GAINESVILLE MO 65655
14	TOP NOTCH FARMS PRODUCTIONS, INC.	5335 S. GARRISON AVENUE CARTHAGE MO 64836
15	COLASANTI, VICTOR S. & CAROLINE R.	19664 OWL ROAD NEOSHO MO 64850
16	SHEELEY, DAN R. & MONICA A.	19624 OWL ROAD NEOSHO MO 64850
17	BUSSEY, ERVIN R. & SHIRLEY N.	20771 MINK DRIVE NEOSHO MO 64850
18	CAMPBELL, WILLIAM D. TRUST	2803 NEOSHO HEIGHTS AVENUE NEOSHO MO 64850
19	MOYER, TODD M. & JANET K	19862 OWL ROAD NEOSHO MO 64850
20	LYNCH, TERESA TRUST	1916 SHERRY LEA DRIVE NEOSHO MO 64850
21	FREUND, CHARLES SCOTT & SHEILA LOIS	20202 MALLARD DRIVE NEOSHO MO 64850
22	BRADLEY, ROBERT L. & SHAWN D.	20203 MALLARD DRIVE NEOSHO MO 64850
23	FREUND, JOE R. & TERESA	20431 MINK DRIVE NEOSHO MO 64850
24	GOODMAN, GARRY T.	20319 MINK DRIVE NEOSHO MO 64850
25	SULLIVAN, JEREMY W. & RHONDA Y.	20193 MINK DRIVE NEOSHO MO 64850
26	NEWLIFE RESOURCES LLC	5335 S GARRISON CARTHAGE MO 64836
27	SMITH, RICHARD REIGH	P.O. BOX 668 NEOSHO MO 64850
28	BROADY, JAMES & COSSETTE	19385 MINK DRIVE NEOSHO MO 64850
29	MCKEE, MICHAEL A.	16438 HIGHWAY D NEOSHO MO 64850
30	MORRIS, DAVID B.	16748 HIGHWAY D NEOSHO MO 64850
31	BOTTS, GREGORY L.	19064 MINK ROAD NEOSHO MO 64850
32	U.S. CORPS OF ENGINEERS MISSOURI	221 BOLIVAR ST JEFFERSON CITY MO 65101
33	CROWDER COLLEGE	601 LACLEDE, NEOSHO MO 64850
*	NEWTON COUNTY COMMISSIONERS	101 S WOOD ST #201 NEOSHO MO 64850
*	WATER POLLUTION CONTROL PROGRAM MDNR	PO BOX 176 JEFFERSON CITY MO 65102-0176
*	TO BE SENT IN ADDITION TO PROPERTY OWNERS	



SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Opal Foods
1100 Blair Ave.
Neosho, MO 64850



9590 9403 0214 5146 8494 12

2. Article Number (Transfer from service label)

7012 0470 0000 6044 4447

PS Form 3811, April 2015 PSN 7530-02-000-9053

Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature
 Don Wood Agent
 Addressee

B. Received by (Printed Name)
Don Wood

C. Date of Delivery

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type

Adult Signature Priority Mail Express®
 Adult Signature Restricted Delivery Registered Mail™
 Certified Mail® Registered Mail Restricted Delivery
 Certified Mail Restricted Delivery Return Receipt for Merchandise
 Collect on Delivery Signature Confirmation™
 Collect on Delivery Restricted Delivery Signature Confirmation Restricted Delivery

Mail Restricted Delivery

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Missouri National Guard
2302 Militia Drive
Jefferson City, MO 65101



9590 9403 0214 5146 8494 05

2. Article Number (Transfer from service label)

7012 0470 0000 6044 4454

PS Form 3811, April 2015 PSN 7530-02-000-9053

Domestic Return Receipt

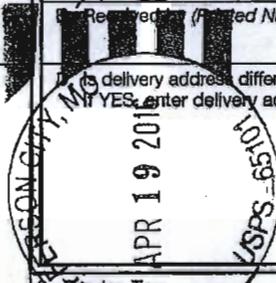
COMPLETE THIS SECTION ON DELIVERY

A. Signature
 [Signature] Agent
 Addressee

B. Received by (Printed Name)
 [Redacted]

C. Date of Delivery

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No



3. Service Type

Adult Signature Priority Mail Express®
 Adult Signature Restricted Delivery Registered Mail™
 Certified Mail® Registered Mail Restricted Delivery
 Certified Mail Restricted Delivery Return Receipt for Merchandise
 Collect on Delivery Signature Confirmation™
 Collect on Delivery Restricted Delivery Signature Confirmation Restricted Delivery

Mail Restricted Delivery

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Water & Wastewater Tech. School
LeOl Laclede
Neosho, MO 64850



9590 9403 0214 5146 8494 29

2. Article Number (Transfer from service label)

7012 0470 0000 6044 4461

PS Form 3811, April 2015 PSN 7530-02-000-9053

Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature
 [Signature] Agent
 Addressee

B. Received by (Printed Name)
RICHARD COJL

C. Date of Delivery
 4/18

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type

Adult Signature Priority Mail Express®
 Adult Signature Restricted Delivery Registered Mail™
 Certified Mail® Registered Mail Restricted Delivery
 Certified Mail Restricted Delivery Return Receipt for Merchandise
 Collect on Delivery Signature Confirmation™
 Collect on Delivery Restricted Delivery Signature Confirmation Restricted Delivery

Mail Restricted Delivery

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 		<p>A. Signature <input checked="" type="checkbox"/> <i>[Signature]</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p>	
1. Article Addressed to:		B. Received by (Printed Name)	
Neosho School District 511 S. Neosho Blvd. Neosho, MO 64850		C. Date of Delivery Tommy Fugate 4/16/16	
2. Article Number (Transfer from service label) 7012 0470 0000 6044 4478		D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input checked="" type="checkbox"/> No	
 9590 9403 0687 5196 4662 72		3. Service Type <input checked="" type="checkbox"/> Adult Signature <input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Registered Mail™ <input type="checkbox"/> Certified Mail® <input type="checkbox"/> Registered Mail Restricted Delivery <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Signature Confirmation™ <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Signature Confirmation Restricted Delivery <input type="checkbox"/> Insured Mail <input type="checkbox"/> Mail Restricted Delivery (0)	
PS Form 3811, April 2015 PSN 7530-02-000-9053		Domestic Return Receipt	

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 		<p>A. Signature <input checked="" type="checkbox"/> <i>[Signature]</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p>	
1. Article Addressed to:		B. Received by (Printed Name)	
State of Missouri P.O. Box 180 Jefferson City, MO 65102		C. Date of Delivery Jennifer L. Leary	
2. Article Number (Transfer from service label) 7012 0470 0000 6044 4485		D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No	
 9590 9403 0687 5196 4662 65		3. Service Type <input checked="" type="checkbox"/> Adult Signature <input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Registered Mail™ <input type="checkbox"/> Certified Mail® <input type="checkbox"/> Registered Mail Restricted Delivery <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Signature Confirmation™ <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Signature Confirmation Restricted Delivery <input type="checkbox"/> Insured Mail <input type="checkbox"/> Mail Restricted Delivery (0)	
PS Form 3811, April 2015 PSN 7530-02-000-9053		Domestic Return Receipt	

SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 		<p>A. Signature <input checked="" type="checkbox"/> <i>[Signature]</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p>	
1. Article Addressed to:		B. Received by (Printed Name)	
Sorensen 1000 Oaks Ranch, LLC P.O. Box 1 Exeter, MO 65647		C. Date of Delivery 4-19-16	
2. Article Number (Transfer from service label) 7012 0470 0000 6044 4492		D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No	
 9590 9403 0687 5196 4662 58		3. Service Type <input checked="" type="checkbox"/> Adult Signature <input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Registered Mail™ <input type="checkbox"/> Certified Mail® <input type="checkbox"/> Registered Mail Restricted Delivery <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Signature Confirmation™ <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Signature Confirmation Restricted Delivery <input type="checkbox"/> Insured Mail <input type="checkbox"/> Mail Restricted Delivery (0)	
PS Form 3811, April 2015 PSN 7530-02-000-9053		Domestic Return Receipt	

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- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Donna M. Vanotterloo Trust
5687 Impala Drive
Joplin, MO 64804



9590 9403 0687 5196 4662 41

2. Article Number (Transfer from service label)

7012 0470 0000 6044 4508

PS Form 3811, April 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

Donna Van Otterloo

- Agent
- Addressee

B. Received by (Printed Name)

Donna Van Otterloo

C. Date of Delivery

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Mail Restricted Delivery (D)
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Return Receipt for Merchandise
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

Domestic Return Receipt

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- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

J. Allen and Carl McCleary
17815 Wood Thrush Lane
South Bend, IN 46635-1329



9590 9403 0687 5196 4663 40

2. Article Number (Transfer from service label)

7009 1680 0000 1352 1490

PS Form 3811, April 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

J. McCleary

- Agent
- Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Mail Restricted Delivery (D)
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Return Receipt for Merchandise
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

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SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Carl M. & Doris E. McCleary Trust
17450 Quetzal Drive
Neosho, MO 64890



9590 9403 0687 5196 4662 27

2. Article Number (Transfer from service label)

7012 0470 0000 6044 4522

PS Form 3811, April 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

Carl McCleary

- Agent
- Addressee

B. Received by (Printed Name)

Carl McCleary

C. Date of Delivery

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Mail Restricted Delivery (D)
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Return Receipt for Merchandise
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Dairidian Seventh-Day Adventist
20412 Farm Road 1025
Exeter, MO 65647



9590 9403 0214 5146 8493 99

2. Article Number (Transfer from service label)

7012 0470 0000 6044 4539

PS Form 3811, April 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Greta Alleyne* Agent
 Addressee

B. Received by (Printed Name)

GRETA ALLEYNE

C. Date of Delivery

4-18-16

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Return Receipt for Merchandise
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Brian D. & Kirsten K. Scott
18417 Highway D
Neosho, MO 64850



9590 9403 0687 5196 4659 78

2. Article Number (Transfer from service label)

7012 0470 0000 6044 4546

PS Form 3811, April 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Brian Scott* Agent
 Addressee

B. Received by (Printed Name)

Brian Scott

C. Date of Delivery

5-14-16

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Return Receipt for Merchandise
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Dawn O. & Lavaun Bushnell Trust
18493 Highway D.
Neosho, MO 64850



9590 9403 0687 5196 4660 12

2. Article Number (Transfer from service label)

7012 0470 0000 6044 4553

PS Form 3811, April 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Dawn Bushnell* Agent
 Addressee

B. Received by (Printed Name)

Dawn Bushnell

C. Date of Delivery

4-18-16

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Return Receipt for Merchandise
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

Article Addressed to:

Berry & Stacey Skiver
13328 State Highway T
Gainesville, MO 65055



9590 9403 0576 5183 9224 89

2. Article Number (Transfer from service label)

7012 0470 0000 6044 4560

PS Form 3811, April 2015 PSN 7530-02-000-9053

Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature

x *Stacey Skiver* Agent Addressee

B. Received by (Printed Name)

Stacey Skiver

C. Date of Delivery

4-18-16

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Mail Restricted Delivery (M)
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Return Receipt for Merchandise
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Top Notch Farms Productions, Inc.
5335 S. Garrison Ave.
Carthage, MO 64836



9590 9403 0576 5183 9224 72

2. Article Number (Transfer from service label)

7012 0470 0000 6044 4577

PS Form 3811, April 2015 PSN 7530-02-000-9053

Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature

x *Julie Black* Agent Addressee

B. Received by (Printed Name)

Julie Black

C. Date of Delivery

4-18

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type

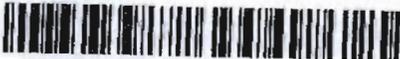
- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Mail Restricted Delivery (M)
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Return Receipt for Merchandise
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Victor S. & Caroline R. Colasanti
19564 Owl Road
Neosho, MO 64850



9590 9403 0576 5183 9224 65

2. Article Number (Transfer from service label)

7012 0470 0000 6044 4584

PS Form 3811, April 2015 PSN 7530-02-000-9053

Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature

x *Caroline Colasanti* Agent Addressee

B. Received by (Printed Name)

CAROLINE COLASANTI

C. Date of Delivery

4-18-16

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Mail Restricted Delivery (M)
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Return Receipt for Merchandise
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Dan R & Monica A. Sheeley
19624 Owl Road
Neosho, MO 64850



9590 9403 0576 5183 9224 58

2. Article Number (Transfer from service label)

7012 0470 0000 6044 4591

PS Form 3811, April 2015 PSN 7530-02-000-9053

Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature

Tara M. Johnson Agent
 Addressee

B. Received by (Printed Name)

Tara M. Johnson 4-18-16

C. Date of Delivery

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type

- | | |
|--|---|
| <input checked="" type="checkbox"/> Adult Signature | <input type="checkbox"/> Priority Mail Express® |
| <input type="checkbox"/> Adult Signature Restricted Delivery | <input type="checkbox"/> Registered Mail™ |
| <input type="checkbox"/> Certified Mail® | <input type="checkbox"/> Registered Mail Restricted Delivery |
| <input type="checkbox"/> Certified Mail Restricted Delivery | <input type="checkbox"/> Return Receipt for Merchandise |
| <input type="checkbox"/> Collect on Delivery | <input type="checkbox"/> Signature Confirmation™ |
| <input type="checkbox"/> Collect on Delivery Restricted Delivery | <input type="checkbox"/> Signature Confirmation Restricted Delivery |
| <input type="checkbox"/> Mail Restricted Delivery (0) | |

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Ervin R & Shirley N. Bussey
20771 Mink Drive
Neosho, MO 64850



9590 9403 0576 5183 9224 34

2. Article Number (Transfer from service label)

7012 0470 0000 6044 4607

PS Form 3811, April 2015 PSN 7530-02-000-9053

Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature

Ervin Bussey Agent
 Addressee

B. Received by (Printed Name)

Ervin Bussey 4-18-16

C. Date of Delivery

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type

- | | |
|--|---|
| <input checked="" type="checkbox"/> Adult Signature | <input type="checkbox"/> Priority Mail Express® |
| <input type="checkbox"/> Adult Signature Restricted Delivery | <input type="checkbox"/> Registered Mail™ |
| <input type="checkbox"/> Certified Mail® | <input type="checkbox"/> Registered Mail Restricted Delivery |
| <input type="checkbox"/> Certified Mail Restricted Delivery | <input type="checkbox"/> Return Receipt for Merchandise |
| <input type="checkbox"/> Collect on Delivery | <input type="checkbox"/> Signature Confirmation™ |
| <input type="checkbox"/> Collect on Delivery Restricted Delivery | <input type="checkbox"/> Signature Confirmation Restricted Delivery |
| <input type="checkbox"/> Mail Restricted Delivery (0) | |

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

William D. Campbell Trust
2803 Neosho Heights Avenue
Neosho, MO 64850



9590 9403 0576 5183 9224 27

2. Article Number (Transfer from service label)

7012 0470 0000 6044 4614

PS Form 3811, April 2015 PSN 7530-02-000-9053

Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature

William D. Campbell Agent
 Addressee

B. Received by (Printed Name)

William Campbell 4-16-16

C. Date of Delivery

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type

- | | |
|--|---|
| <input checked="" type="checkbox"/> Adult Signature | <input type="checkbox"/> Priority Mail Express® |
| <input type="checkbox"/> Adult Signature Restricted Delivery | <input type="checkbox"/> Registered Mail™ |
| <input type="checkbox"/> Certified Mail® | <input type="checkbox"/> Registered Mail Restricted Delivery |
| <input type="checkbox"/> Certified Mail Restricted Delivery | <input type="checkbox"/> Return Receipt for Merchandise |
| <input type="checkbox"/> Collect on Delivery | <input type="checkbox"/> Signature Confirmation™ |
| <input type="checkbox"/> Collect on Delivery Restricted Delivery | <input type="checkbox"/> Signature Confirmation Restricted Delivery |
| <input type="checkbox"/> Mail Restricted Delivery (0) | |

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

Article Addressed to:

Todd M. & Janet K. Moyer
19862 Owl Road
Neosho, MO 64862



9590 9403 0576 5183 9223 97

2. Article Number (Transfer from service label)

7012 0470 0000 6044 4621

PS Form 3811, April 2015 PSN 7530-02-000-9053

Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

- Agent
- Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Mail Restricted Delivery
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Return Receipt for Merchandise
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Teresa Lynch Trust
1916 Sherry Lea Drive
Neosho, MO 64860



9590 9403 0576 5183 9224 41

2. Article Number (Transfer from service label)

7012 0470 0000 6044 4638

PS Form 3811, April 2015 PSN 7530-02-000-9053

Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X Teresa Lynch

- Agent
- Addressee

B. Received by (Printed Name)

Teresa Lynch

C. Date of Delivery

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Mail Restricted Delivery
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Return Receipt for Merchandise
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Charles Scott & Sheila Lois Freund
20202 Mallard Drive
Neosho, MO 64860



9590 9403 0576 5183 9223 80

2. Article Number (Transfer from service label)

7012 0470 0000 6044 4645

PS Form 3811, April 2015 PSN 7530-02-000-9053

Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X Sheila Freund

- Agent
- Addressee

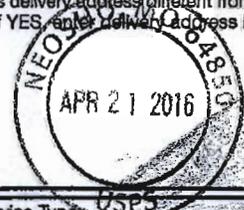
B. Received by (Printed Name)

Sheila Freund

C. Date of Delivery

APR 21 2016

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No



3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Mail Restricted Delivery
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Return Receipt for Merchandise
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY												
<ul style="list-style-type: none"> Complete Items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 	<p>A. Signature <input checked="" type="checkbox"/> <i>Shawn Bradley</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) _____ C. Date of Delivery <i>4/23/16</i></p>												
<p>1. Article Addressed to: <i>Robert L & Shawn D. Bradley 20203 Mallard Drive Neosho, MO 64860</i></p>	<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>												
 9590 9403 0576 5183 9224 10	<p>3. Service Type</p> <table border="0"> <tr> <td><input checked="" type="checkbox"/> Adult Signature</td> <td><input type="checkbox"/> Priority Mail Express®</td> </tr> <tr> <td><input type="checkbox"/> Adult Signature Restricted Delivery</td> <td><input type="checkbox"/> Registered Mail™</td> </tr> <tr> <td><input type="checkbox"/> Certified Mail®</td> <td><input type="checkbox"/> Registered Mail Restricted Delivery</td> </tr> <tr> <td><input type="checkbox"/> Certified Mail Restricted Delivery</td> <td><input type="checkbox"/> Return Receipt for Merchandise</td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery</td> <td><input type="checkbox"/> Signature Confirmation™</td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery Restricted Delivery</td> <td><input type="checkbox"/> Signature Confirmation Restricted Delivery</td> </tr> </table> <p><input type="checkbox"/> Mail Restricted Delivery (0)</p>	<input checked="" type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express®	<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail™	<input type="checkbox"/> Certified Mail®	<input type="checkbox"/> Registered Mail Restricted Delivery	<input type="checkbox"/> Certified Mail Restricted Delivery	<input type="checkbox"/> Return Receipt for Merchandise	<input type="checkbox"/> Collect on Delivery	<input type="checkbox"/> Signature Confirmation™	<input type="checkbox"/> Collect on Delivery Restricted Delivery	<input type="checkbox"/> Signature Confirmation Restricted Delivery
<input checked="" type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express®												
<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail™												
<input type="checkbox"/> Certified Mail®	<input type="checkbox"/> Registered Mail Restricted Delivery												
<input type="checkbox"/> Certified Mail Restricted Delivery	<input type="checkbox"/> Return Receipt for Merchandise												
<input type="checkbox"/> Collect on Delivery	<input type="checkbox"/> Signature Confirmation™												
<input type="checkbox"/> Collect on Delivery Restricted Delivery	<input type="checkbox"/> Signature Confirmation Restricted Delivery												
<p>2. Article Number (Transfer from service label) 7012 0470 0000 6044 4652</p>	<p>PS Form 3811, April 2015 PSN 7530-02-000-9053 Domestic Return Receipt</p>												

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY												
<ul style="list-style-type: none"> Complete Items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 	<p>A. Signature <input checked="" type="checkbox"/> <i>Joe Freund</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) _____ C. Date of Delivery <i>4-18-16</i></p>												
<p>1. Article Addressed to: <i>Joe R. & Teresa Freund 20431 Mink Drive Neosho, MO 64860</i></p>	<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>												
 9590 9403 0576 5183 9224 03	<p>3. Service Type</p> <table border="0"> <tr> <td><input checked="" type="checkbox"/> Adult Signature</td> <td><input type="checkbox"/> Priority Mail Express®</td> </tr> <tr> <td><input type="checkbox"/> Adult Signature Restricted Delivery</td> <td><input type="checkbox"/> Registered Mail™</td> </tr> <tr> <td><input type="checkbox"/> Certified Mail®</td> <td><input type="checkbox"/> Registered Mail Restricted Delivery</td> </tr> <tr> <td><input type="checkbox"/> Certified Mail Restricted Delivery</td> <td><input type="checkbox"/> Return Receipt for Merchandise</td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery</td> <td><input type="checkbox"/> Signature Confirmation™</td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery Restricted Delivery</td> <td><input type="checkbox"/> Signature Confirmation Restricted Delivery</td> </tr> </table> <p><input type="checkbox"/> Mail Restricted Delivery (0)</p>	<input checked="" type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express®	<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail™	<input type="checkbox"/> Certified Mail®	<input type="checkbox"/> Registered Mail Restricted Delivery	<input type="checkbox"/> Certified Mail Restricted Delivery	<input type="checkbox"/> Return Receipt for Merchandise	<input type="checkbox"/> Collect on Delivery	<input type="checkbox"/> Signature Confirmation™	<input type="checkbox"/> Collect on Delivery Restricted Delivery	<input type="checkbox"/> Signature Confirmation Restricted Delivery
<input checked="" type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express®												
<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail™												
<input type="checkbox"/> Certified Mail®	<input type="checkbox"/> Registered Mail Restricted Delivery												
<input type="checkbox"/> Certified Mail Restricted Delivery	<input type="checkbox"/> Return Receipt for Merchandise												
<input type="checkbox"/> Collect on Delivery	<input type="checkbox"/> Signature Confirmation™												
<input type="checkbox"/> Collect on Delivery Restricted Delivery	<input type="checkbox"/> Signature Confirmation Restricted Delivery												
<p>2. Article Number (Transfer from service label) 7012 0470 0000 6044 4669</p>	<p>PS Form 3811, April 2015 PSN 7530-02-000-9053 Domestic Return Receipt</p>												

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY												
<ul style="list-style-type: none"> Complete items 1, 2, and 3. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits. 	<p>A. Signature <input checked="" type="checkbox"/> <i>Garry Goodman</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) _____ C. Date of Delivery <i>GARRY GOODMAN 4-18-16</i></p>												
<p>1. Article Addressed to: <i>Garry T. Goodman 20319 Mink Drive Neosho, MO 64860</i></p>	<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>												
 9590 9403 0576 5183 9223 66	<p>3. Service Type</p> <table border="0"> <tr> <td><input checked="" type="checkbox"/> Adult Signature</td> <td><input type="checkbox"/> Priority Mail Express®</td> </tr> <tr> <td><input type="checkbox"/> Adult Signature Restricted Delivery</td> <td><input type="checkbox"/> Registered Mail™</td> </tr> <tr> <td><input type="checkbox"/> Certified Mail®</td> <td><input type="checkbox"/> Registered Mail Restricted Delivery</td> </tr> <tr> <td><input type="checkbox"/> Certified Mail Restricted Delivery</td> <td><input type="checkbox"/> Return Receipt for Merchandise</td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery</td> <td><input type="checkbox"/> Signature Confirmation™</td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery Restricted Delivery</td> <td><input type="checkbox"/> Signature Confirmation Restricted Delivery</td> </tr> </table> <p><input type="checkbox"/> Mail Restricted Delivery (0)</p>	<input checked="" type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express®	<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail™	<input type="checkbox"/> Certified Mail®	<input type="checkbox"/> Registered Mail Restricted Delivery	<input type="checkbox"/> Certified Mail Restricted Delivery	<input type="checkbox"/> Return Receipt for Merchandise	<input type="checkbox"/> Collect on Delivery	<input type="checkbox"/> Signature Confirmation™	<input type="checkbox"/> Collect on Delivery Restricted Delivery	<input type="checkbox"/> Signature Confirmation Restricted Delivery
<input checked="" type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express®												
<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail™												
<input type="checkbox"/> Certified Mail®	<input type="checkbox"/> Registered Mail Restricted Delivery												
<input type="checkbox"/> Certified Mail Restricted Delivery	<input type="checkbox"/> Return Receipt for Merchandise												
<input type="checkbox"/> Collect on Delivery	<input type="checkbox"/> Signature Confirmation™												
<input type="checkbox"/> Collect on Delivery Restricted Delivery	<input type="checkbox"/> Signature Confirmation Restricted Delivery												
<p>2. Article Number (Transfer from service label) 7012 0470 0000 6044 4676</p>	<p>PS Form 3811, April 2015 PSN 7530-02-000-9053 Domestic Return Receipt</p>												

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:
 Jeremy W. & Rhonda Y. Sullivan
 20193 Mink Drive
 Neosho, MO 64860



9590 9403 0687 5196 4667 39

2. Article Number (Transfer from service label)
 7012 0470 0000 6044 4683

PS Form 3811, April 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature Agent Addressee
 X

B. Received by (Printed Name) C. Date of Delivery

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type
- Adult Signature
 - Adult Signature Restricted Delivery
 - Certified Mail®
 - Certified Mail Restricted Delivery
 - Collect on Delivery
 - Collect on Delivery Restricted Delivery
 - Mail Restricted Delivery (0)
 - Priority Mail Express®
 - Registered Mail™
 - Registered Mail Restricted Delivery
 - Return Receipt for Merchandise
 - Signature Confirmation™
 - Signature Confirmation Restricted Delivery

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:
 NewLife Resources, LLC
 5335 S. Garrison
 Carthage, MO 64836



9590 9403 0576 5183 9223 42

2. Article Number (Transfer from service label)
 7012 0470 0000 6044 4690

PS Form 3811, April 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature Agent Addressee
 X Julie Beck

B. Received by (Printed Name) C. Date of Delivery
 4-18

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type
- Adult Signature
 - Adult Signature Restricted Delivery
 - Certified Mail®
 - Certified Mail Restricted Delivery
 - Collect on Delivery
 - Collect on Delivery Restricted Delivery
 - Mail Restricted Delivery (0)
 - Priority Mail Express®
 - Registered Mail™
 - Registered Mail Restricted Delivery
 - Return Receipt for Merchandise
 - Signature Confirmation™
 - Signature Confirmation Restricted Delivery

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:
 Richard Reigh Smith
 P.O. Box 1666
 Neosho, MO 64850



9590 9403 0576 5183 9223 35

2. Article Number (Transfer from service label)
 7012 0470 0000 6044 4706

PS Form 3811, April 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature Agent Addressee
 X R. Smith

B. Received by (Printed Name) C. Date of Delivery
 RICHARD SMITH APR 20 2016

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

USPS

3. Service Type
- Adult Signature
 - Adult Signature Restricted Delivery
 - Certified Mail®
 - Certified Mail Restricted Delivery
 - Collect on Delivery
 - Collect on Delivery Restricted Delivery
 - Mail Restricted Delivery (0)
 - Priority Mail Express®
 - Registered Mail™
 - Registered Mail Restricted Delivery
 - Return Receipt for Merchandise
 - Signature Confirmation™
 - Signature Confirmation Restricted Delivery

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

James J. Cossette Broady,
19385 Mink Drive
Neosho, MO 64850



9590 9403 0576 5183 9223 28

2. Article Number (Transfer from service label)

7012 0470 0000 6044 4713

PS Form 3811, April 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X JAMES BROADY Agent Addressee

B. Received by (Printed Name)

JAMES BROADY

C. Date of Delivery

4-18-16

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
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- Collect on Delivery Restricted Delivery
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- Registered Mail™
- Registered Mail Restricted Delivery
- Return Receipt for Merchandise
- Signature Confirmation™
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1. Article Addressed to:

Michael A. McKee
16438 Highway D
Neosho, MO 64850



9590 9403 0576 5183 9223 11

2. Article Number (Transfer from service label)

0226 6609 0000 0260 2702

PS Form 3811, April 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X Michael McKee Agent Addressee

B. Received by (Printed Name)

Michael McKee

C. Date of Delivery

4/16/16

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
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- Certified Mail Restricted Delivery
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- Collect on Delivery Restricted Delivery
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1. Article Addressed to:

David B. Morris
16748 Highway D
Neosho, MO 64850



9590 9403 0576 5183 9223 04

2. Article Number (Transfer from service label)

7012 0470 0000 6044 4737

PS Form 3811, April 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X David B. Morris Agent Addressee

B. Received by (Printed Name)

David B. Morris

C. Date of Delivery

4-18-16

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
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- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Return Receipt for Merchandise
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

SENDER: COMPLETE THIS SECTION

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- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Gregory L. Botts
19064 Mink Road
Neosho, MO 64850



9590 9403 0576 5183 9222 98

2. Article Number (Transfer from service label)

7012 0470 0000 6044 4744

PS Form 3811, April 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Halley Botts* Agent
 Addressee

B. Received by (Printed Name)

Halley Botts

C. Date of Delivery

4/20/16

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Mail Restricted Delivery
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Return Receipt for Merchandise
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

U.S. Corps of Engineers Missouri
221 Bolivar Street
Jefferson City, MO 65101



9590 9403 0576 5183 9222 81

2. Article Number (Transfer from service label)

7012 0470 0000 6044 4751

PS Form 3811, April 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *James P. Beach* Agent
 Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Mail Restricted Delivery
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Return Receipt for Merchandise
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

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- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Crowder College
601 Laclède
Neosho, MO 64850



9590 9403 0576 5183 9225 02

2. Article Number (Transfer from service label)

7012 0470 0000 6044 4768

PS Form 3811, April 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Richard Cagle* Agent
 Addressee

B. Received by (Printed Name)

Richard Cagle

C. Date of Delivery

4/18

D. Is delivery address different from item 1? Yes
If YES, enter delivery address below: No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
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- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Mail Restricted Delivery
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- Registered Mail Restricted Delivery
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- Signature Confirmation Restricted Delivery

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

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- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Newton County Commissioners
 101 S. Wood St. #201
 Neosho, MO 64850



9590 9403 0576 5183 9224 96

2. Article Number (Transfer from service label)

7011 1570 0003 5111 7958

PS Form 3811, April 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Dasha Schneier*

- Agent
- Addressee

B. Received by (Printed Name)

C. Date of Delivery

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type

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- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Return Receipt for Merchandise
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

Mall Restricted Delivery (0)

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Water Pollution Control Program
 MDNR
 P.O. Box 176
 Jefferson City, MO 65102



9590 9403 0576 5183 9223 73

2. Article Number (Transfer from service label)

7012 0470 0000 6044 4782

PS Form 3811, April 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Lynn Borne*

- Agent
- Addressee

B. Received by (Printed Name)

C. Date of Delivery

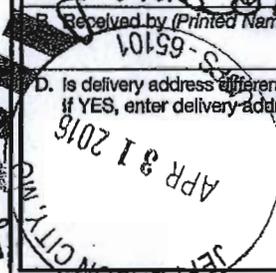
D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

3. Service Type

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- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Return Receipt for Merchandise
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

Mall Restricted Delivery (0)

Domestic Return Receipt

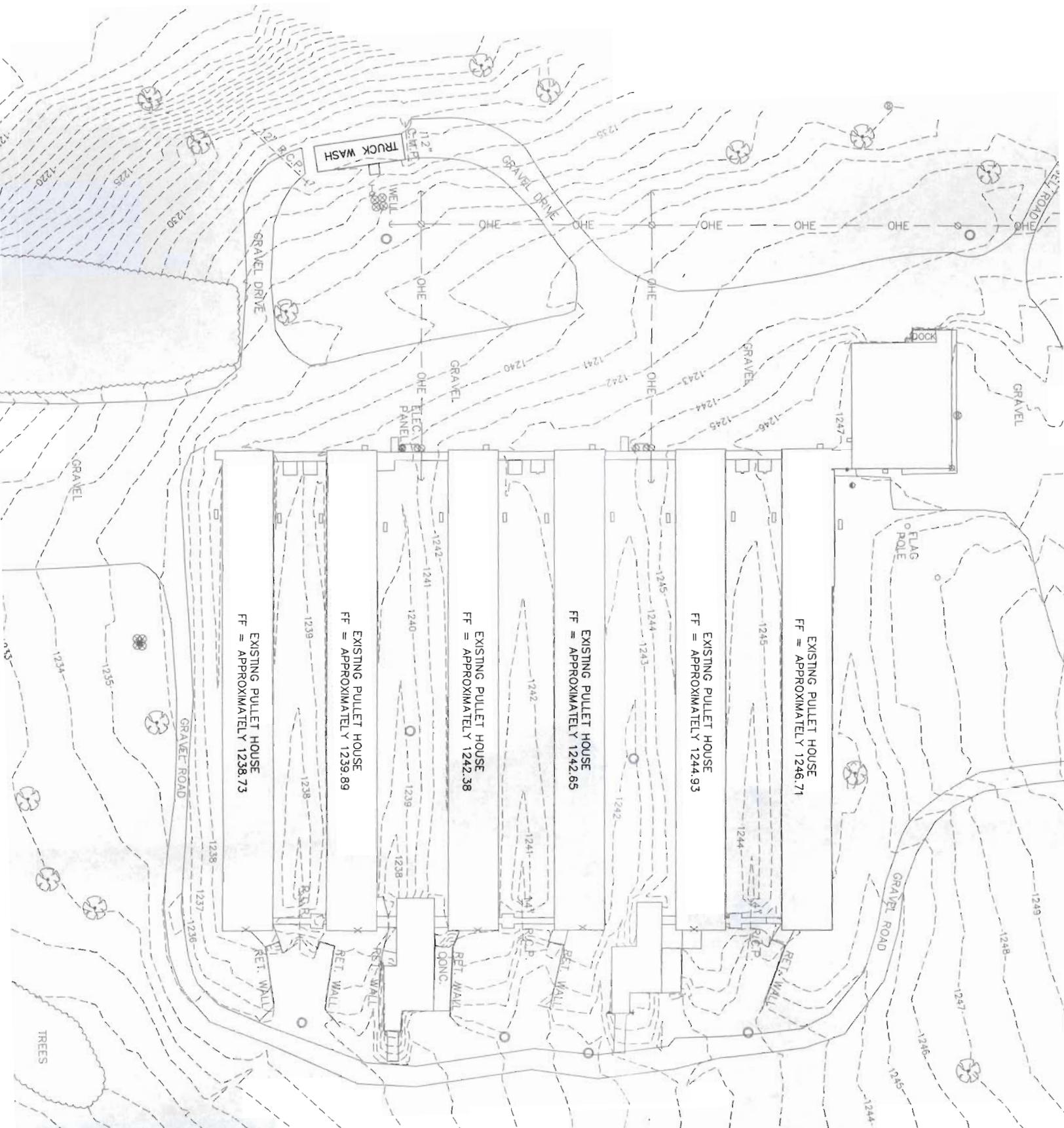


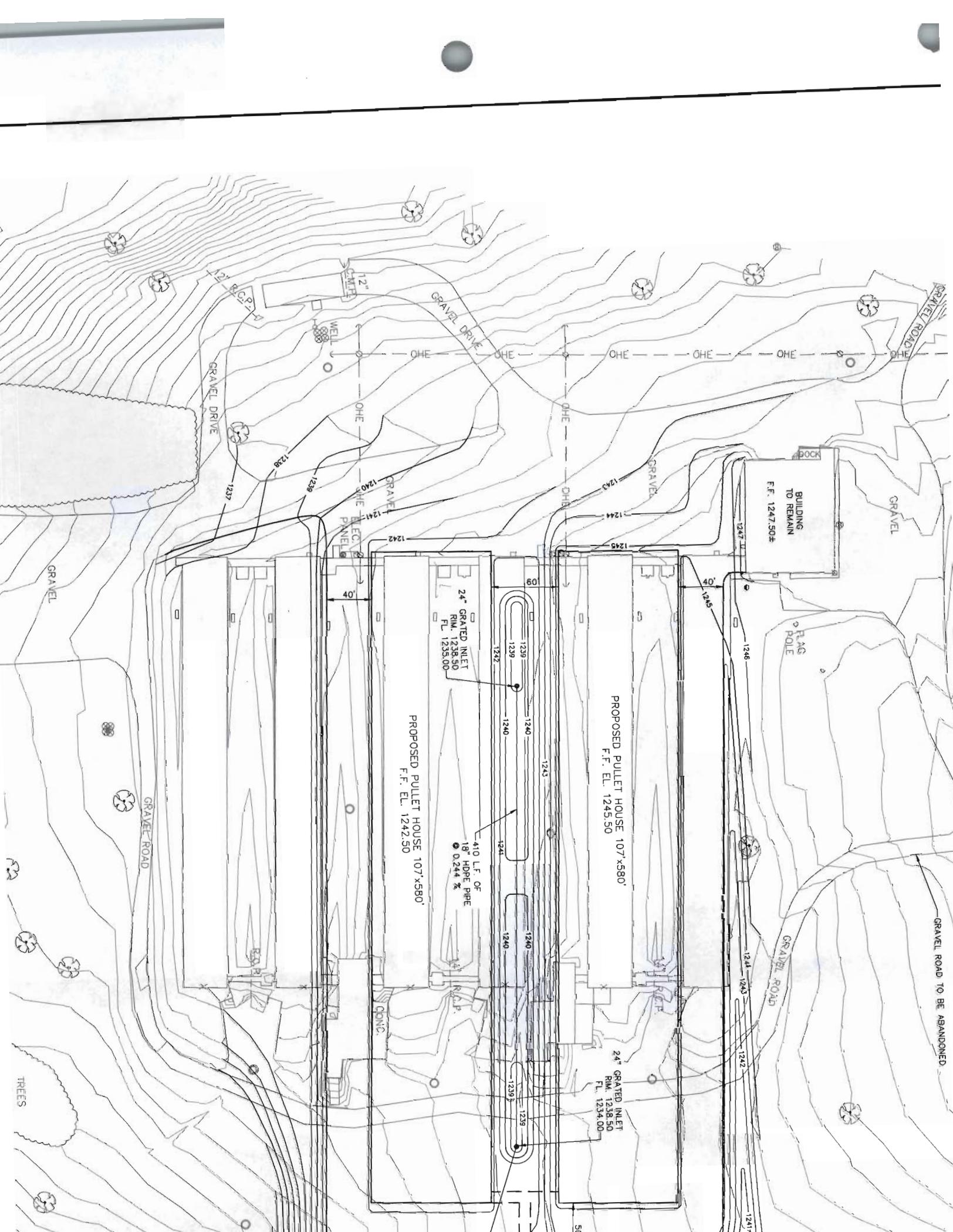
APPENDIX 5
GENERAL SITE PLANS

EXISTING SITE PLAN	2
GRADING PLAN	3
STAKING PLAN	4
STORM WATER POLLUTION PREVENTION PLAN	5

OPAL FOODS 2016 EXPAN TIMBERVIEW FARM PULLER







BUILDING TO REMAIN
F.F. 1247.50#

PROPOSED PULET HOUSE 107'x580'
F.F. EL. 1245.50

PROPOSED PULET HOUSE 107'x580'
F.F. EL. 1242.50

24" GRADED INLET
RIM. 1238.50
FL. 1235.00

410 LF. OF
18" HDPE PIPE
@ 0.244 %

24" GRADED INLET
RIM. 1238.50
FL. 1234.00

GRAVEL ROAD TO BE ABANDONED

TREES

GRAVEL

GRAVEL

GRAVEL ROAD

GRAVEL ROAD

GRAVEL DRIVE

GRAVEL DRIVE

GRAVEL ROAD

R.C.P.

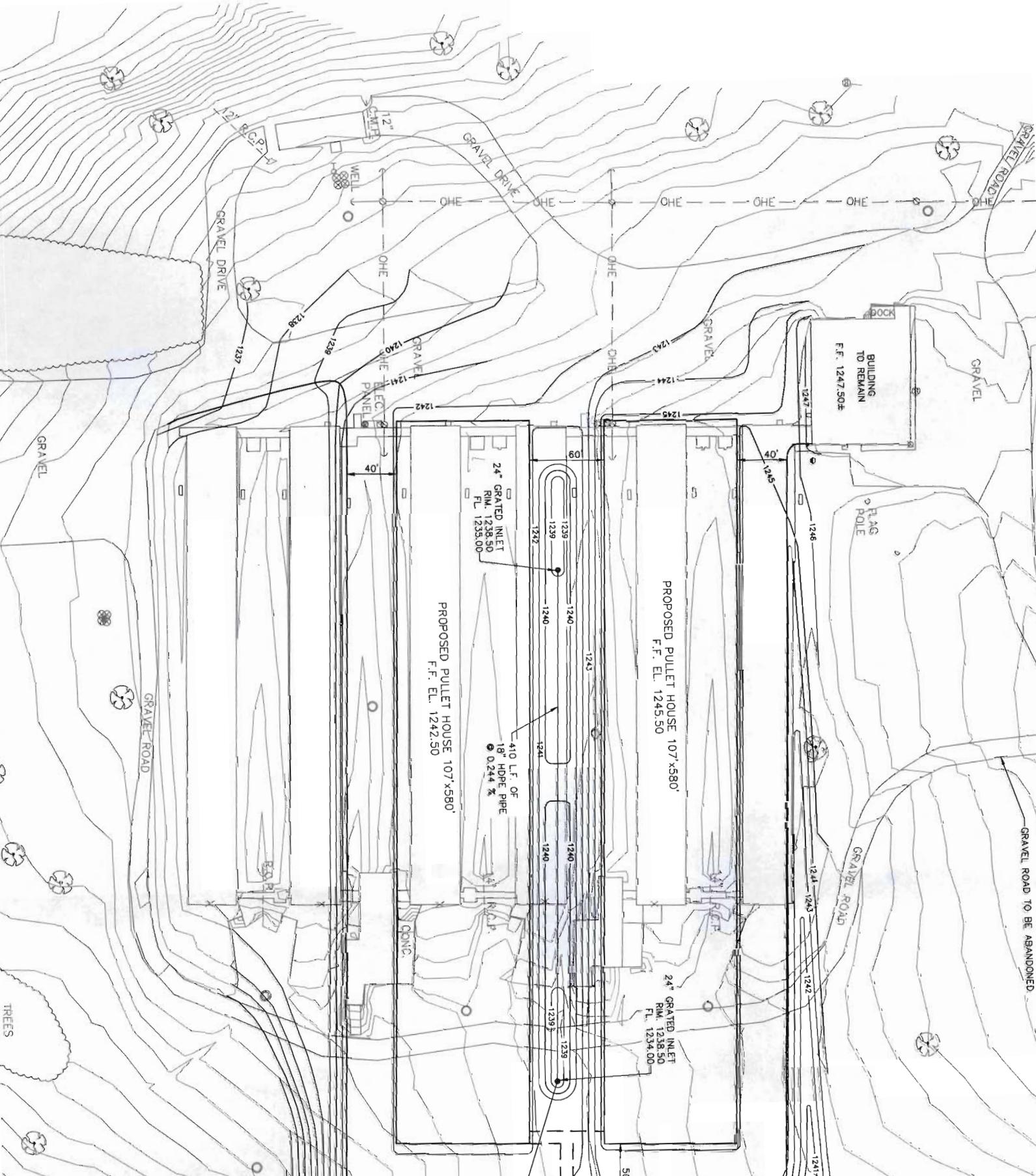
WELL

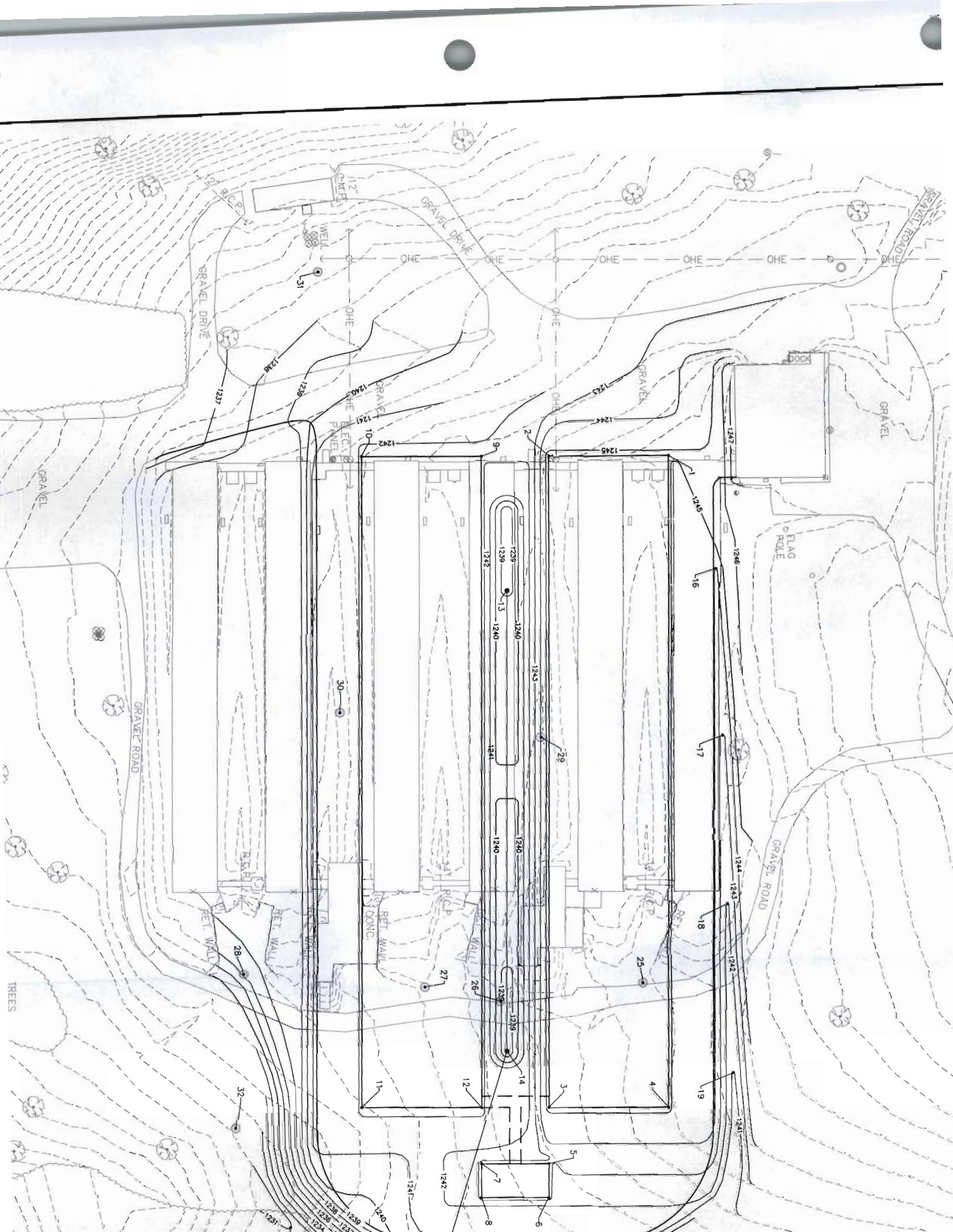
CONC.

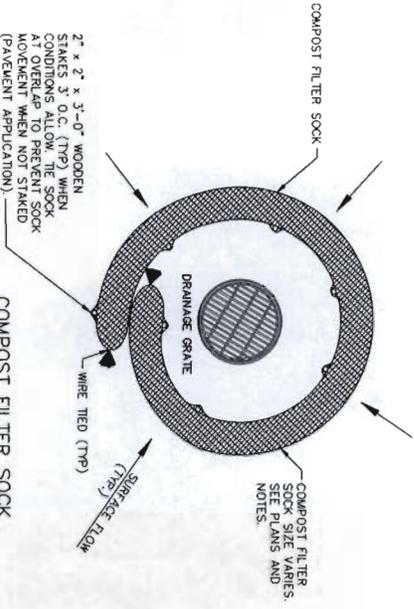
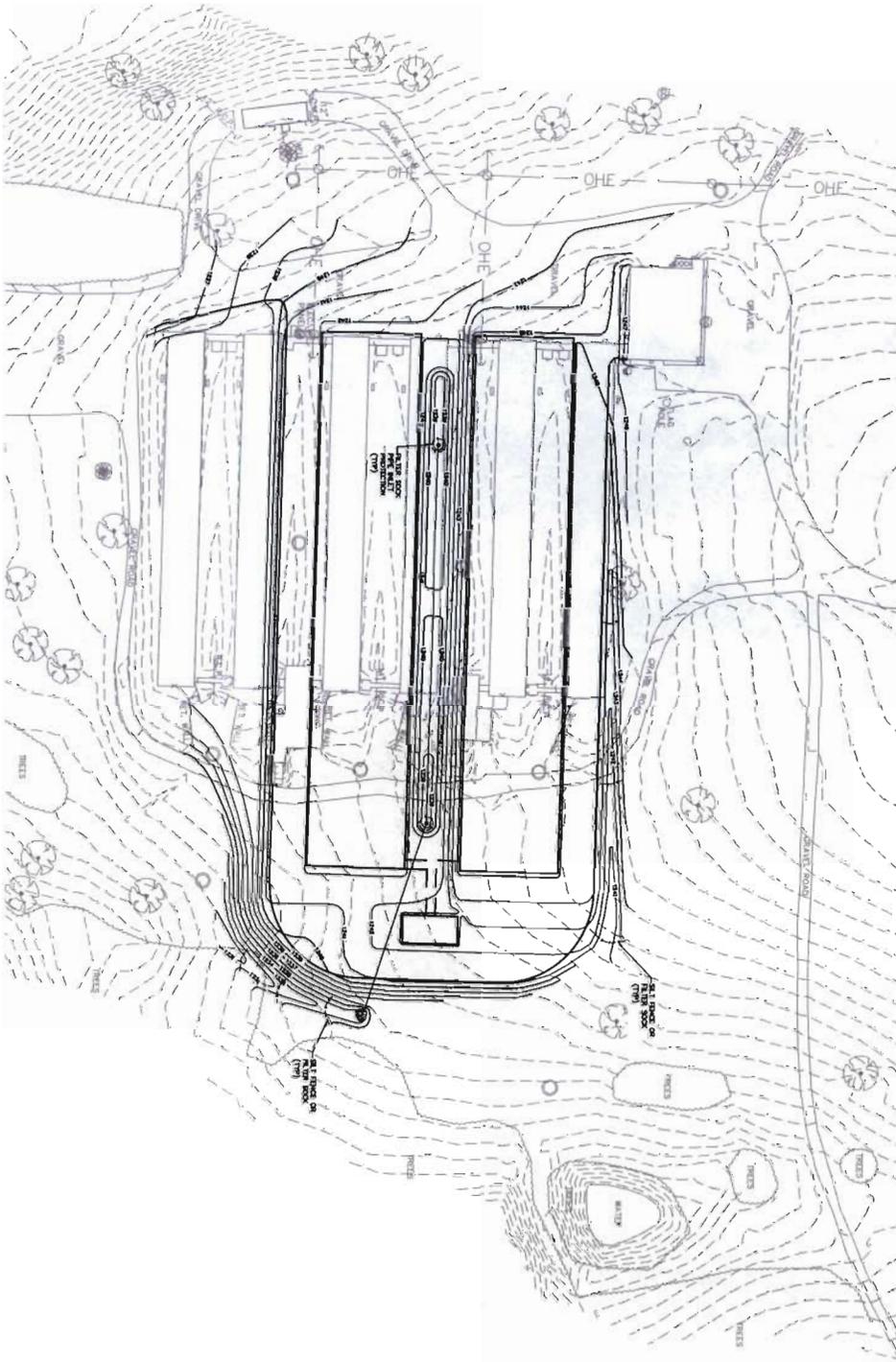
CONC.

DOCK

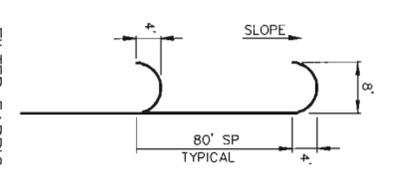
FLAG POLE







- NOTES:**
1. ANCHORING STAKES SHALL BE SIZED, SPACED, AND BE OF A MATERIAL THAT EFFECTIVELY SECURES THE FILTER SOCK. STAKE SPACING SHALL BE A MAXIMUM OF THREE FEET.
 2. OVERLAP ENDS OF SOCK PER MANUFACTURERS RECOMMENDATIONS. (1 MIN. 3' MAX.)
 3. USE 8" TO 12" DIA. SOCK ON CURBSIDE IN TRAFFIC AREAS.
 4. USE 12" - 18" DIA. SOCK IN NON-TRAFFIC AREAS OR AREAS WHERE SAFETY IS NOT A CONCERN.
 5. SOCK SHALL BE PHOTODEGRADABLE AND SHALL BE FILLED WITH COARSE COMPOST.



PIPE INLET FILTER PROTECTION &

N.T.S.

INSTALL AS NEEDED ON SLOPES WHERE SILT FENCE IS INSTALLED PARALLEL TO SLOPE.

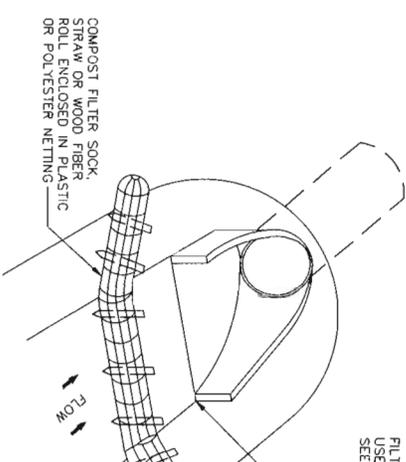
HOOKS SHOWN LARGER FOR CLARITY.

COMPOST FILTER SOCK, STRAW OR WOOD FIBER ROLL ENCLOSED IN PLASTIC OR POLYESTER NETTING

INSTALL AS NEEDED ON SLOPES WHERE SILT FENCE IS INSTALLED PARALLEL TO SLOPE.

HOOKS SHOWN LARGER FOR CLARITY.

THE CONTRACTOR SHALL PROVIDE ANY ADDITIONAL EROSION OR POLLUTION CONTROL DEVICES AS REQUIRED DURING THE DISCHARGING PHASE IN ORDER TO COMPLY WITH FEDERAL WATER POLLUTION REGULATIONS OF THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY AND ALL OTHER AGENCIES HAVING JURISDICTION.



FILTER FABRIC

INSTALL AS NEEDED ON SLOPES WHERE SILT FENCE IS INSTALLED PARALLEL TO SLOPE.

HOOKS SHOWN LARGER FOR CLARITY.

COMPOST FILTER SOCK, STRAW OR WOOD FIBER ROLL ENCLOSED IN PLASTIC OR POLYESTER NETTING

INSTALL AS NEEDED ON SLOPES WHERE SILT FENCE IS INSTALLED PARALLEL TO SLOPE.

HOOKS SHOWN LARGER FOR CLARITY.

THE CONTRACTOR SHALL PROVIDE ANY ADDITIONAL EROSION OR POLLUTION CONTROL DEVICES AS REQUIRED DURING THE DISCHARGING PHASE IN ORDER TO COMPLY WITH FEDERAL WATER POLLUTION REGULATIONS OF THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY AND ALL OTHER AGENCIES HAVING JURISDICTION.

APPENDIX 6
NUTRIENT MANAGEMENT PLAN

NUTRIENT MANAGEMENT PLAN
for
OPAL FOODS
SCHOOL – HATHAWAY – TIMBERVIEW

May 2016

Prepared by
ALLGEIER, MARTIN & ASSOCIATES, INC.
Consulting Engineers
Joplin, Missouri

Background:

The Opal Foods Neosho, Missouri facilities are located in Newton County southeast of Neosho, Missouri. The production areas consist of three farms, School Farm, Hathaway Farm, and Timberview Farm. Opal Foods, LLC, is the owner and operator of the farms consisting of twenty 26 layer houses (12 at School Farm and 14 at Hathaway Farm) and 16 pullet houses (4 at School Farm, and 12 at Timberview Farm) with the capacity to house approximately 4,700,000 laying hens and 2,148,000 pullets, respectively.

The facility operates under the Missouri Operating Permit Number MO-0122840 (See Appendix A). As stated in the permit, a Nutrient Management Plan (NMP) was required to be submitted by November 20, 2011. The implemented NMP at minimum must address the following, as stated in Missouri 10 CSR 20-6 (5):

- Ensures adequate storage of manure, litter and process wastewater, including procedures to ensure proper operation and maintenance of the storage facilities.
- Ensures proper management of mortalities.
- Ensures clean water is diverted from the production area.
- Prevents direct contact of confined animals with waters of the state.
- Ensures that chemicals and other contaminants handled on the site are not disposed of in any manure, litter, process wastewater, or storm water storage or treatment system unless specifically designed to treat such chemicals and other contaminants.
- Identifies appropriate site specific conservation practices to be implemented, including appropriate buffers or equivalent practices, to control runoff of pollutants to waters of the state.
- Identifies protocols for appropriate testing of manure, litter, or process wastewater in accordance with site specific nutrient management practices.

- Establishes protocols to land apply manure, litter, or process wastewater in accordance with site specific nutrient management practices that ensure appropriate agricultural utilization of nutrients in the manure, litter, or process wastewater.
- Identifies specific records that will be maintained.

Production:

School Farm

The farm consists of twelve (12) layer houses with capacity for 100,000 layers each, four (4) pullet houses with capacity for 50,000 pullets each, for a total of 1,200,000 layers and 200,000 pullets, and an egg processing facility. Average daily manure production for a layer at Opal Foods is approximately 0.14 LBS/Day of manure at approximately 45 LBS/CF. Consequently, for a bird population of 1,200,000 layers, daily manure production is estimated to be 168,000 LBS/Day or 3,733 CF/Day (1,363,478 CF/Year). Average manure production for a pullet is approximately 0.046 LBS/Day at 45 LBS/CF. Thus, for a bird population of 200,000 pullets, daily manure production is estimated to be 9,200 LBS/Day or 204 CF/Day (74,511 CF/Year). The combined total of manure production for the layer and pullets is 1,437,989 CF/Year. Mortalities are collected three times per week and properly disposed of at the landfill. No chemicals come in direct contact with the manure. A list of chemicals stored at the sites can be found in the facility's operation and maintenance plan.

Hathaway Farm

The farm consists of 7 layer houses with capacity for 300,000 layers each, and 7 layer houses with capacity for 200,000 layers each, for a total of 3,500,000 layers, and an egg processing facility. Based on records at the Hathaway Farm, average daily manure production for a layer at Opal Foods is approximately 0.14 LBS/Day of manure at approximately 45 LBS/CF. Consequently, for a bird population of 3,500,00 layers, daily manure production is estimated to be 490,000 LBS/Day or 10,889 CF/Day (3,977,207 CF/Year). Mortalities are collected three times per week and properly disposed of at the landfill. No chemicals come in direct contact with the

manure. A list of chemicals stored at the site can be found in the facility's operation and maintenance plan.

Timberview Farm

The farm consists of 4 pullet houses with a capacity of 200,000 pullets each, 4 pullet houses with a capacity of 100,000 pullets each, 2 pullet houses with a capacity of 50,000 pullets each, and 2 pullet houses with a capacity of 324,000 each for a total of 1,948,000 pullets. Average manure production for a pullet is approximately 0.046 LBS/Day at 45 LBS/CF. Consequently, for a bird population of 1,948,000 pullets, daily manure production is estimated to be 89,608 LBS/Day or 1,991 CF/Day (727,213 CF/Year). Mortalities are collected three times per week and properly disposed of at the landfill. No chemicals come in direct contact with the manure. A list of chemicals stored at the site can be found in the facility's operation and maintenance plan.

Operations:

The pullets at the Timberview location are confined in cages at all times except for the two 107' x 580' pullet houses, which are cage free. The birds at the School Farm have some freedom to move about around the house, but are still confined to the house. At Hathaway Farm, 2.1 million layers are cage free and 1.4 million layers are caged. At all locations, the birds receive feed from on-site bins. Water is delivered to each cage by PVC pipes, where a low-pressure system is available to deliver water to the birds. Excess water leaking from the water system is intended to be caught by grooves in the manure drying system. Water that is caught in the grooves has air blowing over it to promote evaporation. If the grooves become full and overflow, the excess water will be dropped onto the manure belt. All structures are constructed watertight to prevent water from entering or leaving the structures and no manure is stored outside of houses where exposure to rainfall might occur. This is important to help ensure clean water does not come into contact with the production facilities, which would allow an opportunity for the water to become contaminated.

Ventilation for the birds occurs when the exhaust fans turn on and pull fresh air in through inlet baffles. Outside air is also blown in through the aforementioned pipes located along the aviary areas to aid in manure drying and fresh air access directly to each area. Feathers and materials exhausted by the ventilation system will be contained on-site by either being caught between houses or caught in the baffle/screen located just beyond the ventilation exhaust location.

Mortalities are handled, and must continue to be handled, in a manner that prevents them from comingling with liquid manure, storm water, and any other treatment system not specifically designed to treat mortalities. Mortalities are taken to a landfill three times per week at a minimum.

The processing plants at both the Hathaway and School Farms collect their wastewater and discharge it to the City of Neosho's sanitary sewer system.

Manure Collection:

School Farm

The School Farm is a "Cage-Free" operation, thus, the birds are generally able to come and go from their aviary area, as they please, but are confined to the house at all time. Typically, even though the birds can roam the building, they tend to stay within the aviary area. This allows the manure from each area to fall onto a manure belt. Outside air blows through pipes down between the back of the aviary areas. Holes in the pipes direct air over the top of the manure belts to aid in drying and to bring fresh air directly to each area. Periodically, the manure belts will be rotated, moving the waste toward the end of the building. At the end of the building the manure falls onto a secondary conveyor belt in the end of each pullet house. These secondary conveyors move the manure from inside the building to just outside the building and onto a third inclined conveyor belt. From that point the manure travels up the inclined belt for loading onto trucks to be transported to another approved manure storage location.

Manure deposited outside of the cages will typically remain in the house, protected from the elements until the house is vacated (approximately every 84 weeks). During clean out of the houses, the scattered manure will be gathered, and placed on the conveyer belt system, and moved out of the houses, as previously described.

The entire manure handling process, including the truck loading, must take place over the concrete pad provided at each loading location to ensure manure does not escape and become a source of potential contamination. This loading process must also take place during dry weather to ensure water is not allowed to wash through the manure or wash manure away from the site. Any spills during the process described in the preceding paragraph should be cleaned

up immediately, and placed with the manure being hauled off to the approved storage or spreading location. Under no circumstances should spills be left on the loading pad overnight.

The manure will be stored at these approved locations until it is ready to be given to a local farming operation for application at agronomic rates or it is ready to be spread on the land owned and permitted through Opal Foods. At this time Opal Foods has not utilized their permitted land for spreading, nor do they have an intention of utilizing this land in the near future.

Hathaway Farm

Some of the confinement structures are operated as cage free facilities. These are essentially operated identically to School Farm. The rest are operated as caged facilities. In these, the manure from each cage of layers falls onto a manure belt. Outside air blows through pipes down between the cage backs. Holes in the pipes direct air over the top of the manure belts to aid in drying and to bring fresh air directly to each cage. Periodically, the manure belts will be rotated, moving the waste toward the end of the building. At the end of the building the manure falls onto a main conveyor belt in the tunnel that connects a series of houses together. From that point the manure travels down the tunnel on the conveyor belt to a third conveyer belt that raises the manure to the upper level of the manure holding building. Here the manure will be directly loaded onto trucks to be transported to another approved manure storage location or may be stored until being hauled off to an approved manure storage location. The manure will be stored at these approved locations until it is ready to be given to a local farming operation to be applied at agronomic rates or it is ready to be spread on the land owned and permitted through Opal Foods. At this time Opal Foods has not utilized their permitted land for spreading, nor do they have an intention of utilizing this land in the near future.

Timberview Farm

Some of the confinement structures are operated as cage free facilities. These are essentially operated identically to School Farm. The rest are operated as caged facilities. In these, the

manure from each cage of pullets falls onto a manure belt. Outside air blows through pipes down between the cage backs. Holes in the pipes direct air over the top of the manure belts to aid in drying and to bring fresh air directly to each cage. Periodically, the manure belts will be rotated, moving the waste toward the end of the building. At the end of the building the manure falls onto a secondary conveyor belt in the end of each pullet house. These secondary conveyors move the manure from inside the building to just outside the building and onto a third inclined conveyor belt. From that point the manure travels up the inclined belt for loading onto trucks to be transported to another approved manure storage location. This process, including the truck loading, must take place over the concrete pad provided at each loading location to ensure manure does not escape and become a source of potential contamination. This loading process must also take place during dry weather to ensure water is not allowed to wash through the manure or wash manure away from the site. Any spills during the process described in the preceding paragraph should be cleaned up immediately, and placed with the manure being hauled off to the approved storage or spreading location. Under no circumstances should spills be left on the loading pad overnight. To prevent rainfall on the pads and truck loading area, drive through roof structures are constructed over the pads.

The manure will be stored at these approved locations until it is ready to be given to a local farming operation for application at agronomic rates or it is ready to be spread on the land owned and permitted through Opal Foods. At this time Opal Foods has not utilized their permitted land for spreading, nor do they have an intention of utilizing this land in the near future.

Transport/Utilization:

As previously described, trucks loaded at the confinement houses shall transport the manure to land application sites either at the farm or one of the approved manure storage buildings. Care shall be taken during the hauling procedure to ensure waste is contained during loading, transport and the final transfer from the truck.

Storage of the manure should be managed in a manner that ensures adequate storage is always available. Currently, the following storage facilities are available for the Opal Foods – School – Hathaway – Timberview facilities.

<u>Storage Location</u>	<u>Approximate Storage Volume</u>
Existing FAB	2 buildings 70' x 280' x 8' manure depth = 313,600 ft ³
Existing CBO Building	64' x 396' X 8' manure depth = 202,752 ft ³
Existing Covered Roof Area	196' x 396' x 8' manure depth = 620,928 ft ³
Existing School Farm	70' x 300' x 8' manure depth = 168,000 ft ³
Existing School Farm	50' x 150' x 8' manure depth = 60,000 ft ³
Existing School Farm	50' x 210' x 8' manure depth = 84,000 ft ³
Existing Hathaway Storage	70' x 280' x 8' manure depth = 156,800 ft ³
Existing Hathaway Storage	2 buildings 20' x 40' x 6' manure depth = 9,600 ft ³
Existing Hathaway Storage	78' x 280' x 8' manure depth = 174,720 ft ³
Existing Timberview Storage	5 buildings 20' x 40' x 6' manure depth = 24,000 ft ³
Proposed Timberview Storage	30' x 60' x 6' manure depth = <u>10,800 ft³</u>
TOTAL EXISITNG & PROPSOED MANURE STORAGE	1,825,200 ft ³

Manure production is anticipated as previously outlined, and as shown below.

School Farm	3,938 ft ³ /day
Hathaway Farm	10,889 ft ³ /day
Timberview Farm	<u>1,991 ft³/day</u>
TOTAL ANTICIPATED DAILY MANURE PRODUCTION	16,818 ft ³ /day

Based on the preceding, the existing and proposed manure storage is adequate, and provides approximately 109 days of storage. The actual number of day's storage, however, is likely to be higher. The calculations presented do not account for compaction of manure and it is feasible to stack the manure higher than the estimate assumes. The figures presented in the calculation

are conservative estimates based on typical practices, but if required, the facilities could hold additional manure.

Manure stored at an approved location, shall either be sold or given to individuals requesting the manure or shall be land applied at agronomic rates at the sites owned by Opal Foods and permitted by MDNR. If the manure is transferred to a land owner, the land owner will be given a current Missouri Concentrated Animal Feeding Operation Nutrient Management Technical Standard, and representative information on the nutrient content of the manure, litter, and/or process wastewater as stated in the Opal Foods Permit.

For proper utilization of the nutrients contained in manure, it must be tested for nutrient content and applied according to soil test recommendations for the crops to be grown. Phosphorus levels in the soils will likely increase with several years of litter application, if using a nitrogen based approach. When phosphorus levels test high on standard soil tests, litter should only be applied to meet crop removal needs for phosphorus, as no further buildup is recommended. If phosphorus tests "very high" or "excess", no manure or commercial phosphate fertilizer should be applied. Current soil tests for the land application owned and permitted at the Opal Foods site are shown in Appendix B. The land currently owned by Opal Foods has tested "very high" for phosphorus; therefore no manure has been applied and will not be applied until the phosphorus levels are detected in the soil at lower concentrations. Opal Foods will continue to transfer manure to individuals for disposal.

Any manure land applied shall not be spread on slopes steeper than 20%; within 50 feet of any public road, intermittent flowing streams, property lines, or inhabited dwelling; within 100 feet of lakes, permanent flowing streams, privately owned impoundments not used as a water supply; or within 300 feet of any sinkholes, losing streams, caves, abandoned wells, water supply wells, or impoundments. Litter will not be applied on flooded, saturated, ice covered or frozen soil. It may be applied when soils are in daily freeze/ thaw cycles in the spring. Manure shall not

be applied if precipitation, likely to create runoff, is forecasted to occur within 24 hours of the planned application.

Any Manure stored or land applied shall also strictly adhere to the setback distance presented in the "Missouri CAFO Nutrient Management Standard." These setbacks are as follows:

Setback Feature	Application Conditions	Setback Distance (feet)
Public or Private Drinking Water Well or other wells including un-plugged abandoned wells	All application methods	300
Public or private drinking water impoundment	All application methods	300
Public or private drinking water intake structure	All application methods	300
Classified waters of the state not used as a water supply as defined in 10 CSR 20-7.031(1)F	No or insufficient vegetated buffer	35
		100
Other public or privately owned lakes or impoundments not used as a water supply including impoundments with no outlet	Permanently vegetated buffer	35
	Up-gradient, no or insufficient vegetated buffer	100
	Down-gradient, no or insufficient vegetated buffer	35
Other perennial streams, other intermittent streams, canals, drainage ditches and wetlands	Permanently vegetated buffer	35
	Up-gradient, no or insufficient vegetated buffer	100
	Down-gradient, no or insufficient vegetated buffer	35
Tile line inlet (if left un-plugged during manure application)	Up-gradient, permanently vegetated buffer	35
	Up-gradient, no or insufficient vegetated buffer	100
	Down-gradient	0
Losing Stream	All application methods	300
Cave Entrance	All application methods	300
Spring	All application methods	300
Active Sink Hole	All application methods	300
Non-owned occupied residence	Spray Irrigation Only	150
Public use area including non-owned businesses	Spray Irrigation Only	150
Public Road	All application methods	50
Property boundary	All application methods	50

Note: A "vegetated buffer" is defined as a permanent strip of dense perennial vegetation established parallel to the contour of and perpendicular to the dominant slope of the field for the purposes of effectively slowing water runoff, enhancing water infiltration, and minimizing the risk of any potential nutrient or pollutants from leaving the field and reaching surface waters.

Operation and Maintenance of Nutrient Management

The owner of the CAFO is responsible for safe operation and maintenance of this nutrient management system. Concerns that should be mitigated by adherence to this plan include health of the birds as well as safety in the environment. The CAFO is responsible for safe management and application of the litter produced by their operation, even though some or all of it may be sold and applied on land not under the CAFO's direct control. It is essential that records be kept of all litter applied and litter sold. Records will include storage source of manure transferred, name of person sold to, date of transfer, application field number, volume of manure transferred and tons or gallons/acre, acres, and type of cover or forage crop. Adequate testing of soil and manure nutrient content shall be performed. These records must be kept at the facility.

Storm Water

The owner shall take all measures necessary to divert fresh storm water, as appropriate, for all of the production facilities. Measures to ensure this is accomplished shall primarily include grading to allow water to flow away from all confinement building, processing facilities, and waste holding structures, and maintenance of such drainage provisions.

The owner shall also take measures to ensure all birds and any chemicals used at the facility are restricted from direct contact with waters of the state.

APPENDIX A

Operating Permit

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES
MISSOURI CLEAN WATER COMMISSION



MISSOURI STATE OPERATING PERMIT

In compliance with the Missouri Clean Water Law, (Chapter 644 R.S. Mo. as amended, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92nd Congress) as amended,

Permit No.	MO-0122840
Owner Name:	Opal Foods, LLC
Owner Address:	1100 Blair Avenue; Neosho, MO 64850
Continuing Authority:	Same as above
Address:	Same as above
Facility Name:	Opal Foods Neosho Farms
Facility Address:	17331 Hwy. D, Neosho, MO 64850
Legal Description:	See Pages 2-4
Latitude/Longitude:	See Pages 2-4
Receiving Stream:	See Pages 2-4
First Classified Stream and ID:	See Pages 2-4
USGS Basin & Sub-watershed No.:	See Pages 2-4

is authorized to discharge from the facility described herein, in accordance with the effluent limitations and monitoring requirements as set forth herein:

Water quality standards do not have to be exceeded to determine the unauthorized discharge of processed waste as defined in special condition 2(b). Operation of this site shall not cause a violation of water quality standards. Land application fields include all company owned land where land application occurs and all non-company owned land where spreading agreements allow land application. These provisions apply to all the company's regulated activities.

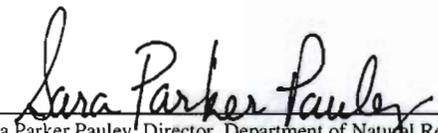
OPERATION DESCRIPTION

Outfall #001-#027 –Concentrated Animal Feeding Operation-SIC #0252 – No Discharge of Process Waste – Class IA, 69,317 Animal Units

This permit authorizes only wastewater discharges under the Missouri Clean Water Law and the National Pollutant Discharge Elimination System; it does not apply to other regulated areas. This permit may be appealed in accordance with Section 644.051.6 of the Law.

May 20, 2011
Effective Date

October 28, 2015
Modification Date


Sara Parker Pauley, Director, Department of Natural Resources

May 19, 2016
Expiration Date
MO 780-0041 (10-93)


John Madras, Director of Staff, Clean Water Commission

OPERATION DESCRIPTION (continued)

Design Storm Events: 25-yr, 24-hr. = 7 inches

Outfall #001 – Timberview Farm Site - Consists of 8 existing and 2 proposed pullet confinement buildings and 4 existing and 1 proposed manure storage sheds.

Legal Description: SW ¼, NE ¼, Sec 23, T24N, R32W, Newton County

UTM Coordinate: X = 379558 Y = 4072874

Receiving Water: Tributary to Bullskin Creek

First Classified Stream and ID: 8-20-13 MUDD V1.0 (C) (3960)

USGS Basin & Sub-Watershed No: (11070208- 0305)

Number and Type of Animals: 1,300,000 chickens

Animal Units: 10,400

Storage Structure Type: Roofed storage shed

Design Process Waste (tons/yr.): 10,914

Design storage (days): 365

Outfall # 002 - Meadows Farm Site - Consists of 6 poultry buildings and 2 covered concrete pits and truckwash with covered concrete pit. This site is no longer in production and the truck wash is not used.

Legal Description: NW ¼, NE ¼, Sec 23, T24N, R32W, Newton County

UTM Coordinates: X = 379434, Y = 4073411

Receiving Stream: Tributary to Bullskin Creek

First Classified Stream and ID: 8-20-13 MUDD V1.0 (C) (3960)

USGS Basin & sub-watershed No: (11070208- 0305)

Design Number of Animals: 0

Animal Units: 0

Design Process Waste (gal./day): Manure pits – 0, truck wash - 0

Design Storage (days): pit #1 - 34; pit #2 - 32; truck wash - 4

Maximum Operating Level (Safety Volume Depth): one foot below overflow level.

Outfall # 003 - School Farm Site - Consists of 8 existing and 4 proposed laying hen confinement buildings and 4 pullet confinement buildings and 2 existing and 1 proposed manure storage sheds.

Legal Description: S ½, SE ¼, Sec 13, T24N, R32W, Newton County

UTM Coordinates X = 381396, Y = 4073855

Receiving Stream: Tributary to Elm Spring Branch

First Classified Stream and ID: 8-20-13 MUDD V1.0 (C) (3960)

USGS Basin & sub-watershed No: (11070207-0802)

Design Number of Animals: 1,200,000 laying hens and 200,000 chickens

Animal Units: 16,235

Storage Structure Type: Roofed storage shed

Design Process Waste (tons/yr.): 32339

Design Storage (days): 365

Outfall # 004 – Deleted - Sawmill Farm

Outfall # 005 - MOARK Pullet Farm Site - Consists of 3 poultry buildings and two 2 covered concrete pits. This site is no longer in production.

Legal Description: NW ¼, NW ¼, Sec 23, T24N, R32W, Newton County

UTM Coordinates X = 378760, Y = 4073433

Receiving Stream: Tributary to Bullskin Creek

First Classified Stream and ID: 8-20-13 MUDD V1.0 (C) (3960)

USGS Basin & sub-watershed No: (11070208- 0305)

Design Number of Animals: 0 Pullets

Animal Units: 0

Design Process Waste (gal./day): 0

Design Storage (days): pit #1 and buildings 107; pit #2 and building 298.

Maximum Operating Level (Safety Volume Depth): one foot below overflow level.

Outfall # 006 – Deleted - Hathaway Farm (North) System

Outfall # 007 - Hathaway Farm Site (Formerly Hathaway South) - Consists of 11 existing and 3 proposed layer confinement buildings, two manure storage sheds.

Legal description: W ½, NW ¼, Sec. 24, T24N, R32W Newton County

UTM Coordinates: X = 380592, Y = 4073071

Receiving Stream: Tributary to Bullskin Creek

First Classified Stream and ID: 8-20-13 MUDD V1.0 (C) (3960)

USGS Basin & sub-watershed No: (11070208- 0305)

Design Number of Animals: 3,500,000 laying hens

Animal Units : 42,683

Storage Structure Type: Roofed storage shed

Design Process Waste (tons/yr.): 89,425 tons/year

Design Storage (days): 365

Outfall # 008 – Deleted - Domestic Wastewater at Timber View Farm

Outfall # 009 – Deleted - Domestic Wastewater at Meadows Farm

Outfall # 010 – Deleted - Domestic Wastewater at School Farm

Outfall # 011 – Deleted - Domestic Wastewater at Sawmill Farm

Outfall # 012 – Deleted - Domestic Wastewater at MOARK Pullet Farm

Outfall # 013 – Deleted - Spring Monitoring

Outfall # 014 – Deleted - Stream Monitoring

Outfall # 015 – Deleted - Production Site Stormwater

Outfall # 016 – Deleted - Production Site Stormwater

Outfall # 017 - Stormwater runoff north from Hathaway Farm

Legal Description: NW ¼, NW ¼, Sec 24, T24N, R32W, Newton County

UTM Coordinates: X = 380653, Y = 4073215

Receiving Stream: Tributary to Elm Spring Branch

First Classified Stream and ID: 8-20-13 MUDD V1.0 (C) (3960)

USGS Basin & sub-watershed No: (11070207-0802)

Outfall # 018 - Stormwater runoff south from Hathaway Farm

Legal Description: SE ¼, NW ¼, Sec 24, T24N, R32W, Newton County

UTM Coordinates: X = 380626, Y = 4072815

Receiving Stream: Tributary to Bullskin Creek

First Classified Stream and ID: 8-20-13 MUDD V1.0 (C) (3960)

USGS Basin & sub-watershed No: (11070208- 0305)

Outfall # 019 - Stormwater runoff from Timberview Farm

Legal Description: SE, ¼, SW ¼, Sec 23, T24N, R32W, Newton County,

UTM Coordinates: X = 379452, Y = 4072412

Receiving Stream: Tributary to Bullskin Creek

First Classified Stream and ID: 8-20-13 MUDD V1.0 (C) (3960)

USGS Basin & sub-watershed No: (11070208- 0305)

Outfall # 020 - Stormwater runoff north from Timberview Farm
Legal Description: SE ¼, NE ¼, Sec 23, T24N, R32W, Newton County
UTM Coordinates: X = 379717, Y = 4073111
Receiving Stream: Tributary to Bullskin Creek (C)
First Classified Stream and ID: 8-20-13 MUDD V1.0 (C) (3960)
USGS Basin & sub-watershed No: (11070208-0305)

Outfall # 021 – Deleted - Production Site Stormwater

Outfall #022 - Composting operation consisting of a Farmer Automatic Building, 2 covered composting/storage buildings and stormwater storage basin.
Legal Description: NW ¼, SW ¼, Sec 13, T24N, R32W, Newton County
UTM Coordinates: X = 380493, Y = 4074127
Receiving Stream: Tributary to Elm Spring Branch
First Classified Stream and ID: 8-20-13 MUDD V1.0 (C) (3960)
USGS Basin & sub-watershed No: (11070207-0802)
Storm water runoff from composting site

Outfall #023 – Deleted - Stream Monitoring

Outfall #024 – Deleted - Stream Monitoring

Outfall #025 – Deleted - Stream Monitoring

Outfall #026 – Deleted - Stream Monitoring

Outfall # SM1 - Stream Monitoring (previous outfall 014)
Legal Description: NW ¼, NW ¼, Sec 35, T24N, R32W, Newton County,
UTM Coordinates: X = 378708, Y = 4070081
Receiving Stream: Bullskin Creek (P)
First Classified Stream and ID: Bullskin Creek (P) (3264)
USGS Basin & sub-watershed No: (11070208-0305)

Outfall #SM2 - Stream Monitoring (previous outfall 025)
Legal Description: SW ¼, SW ¼, Sec 7, T24N, R31W, Newton County
UTM Coordinates: X = 382015, Y = 4075206
Receiving Stream: Elm Spring Branch (C)
First Classified Stream and ID: 8-20-13 MUDD V1.0 (C) (3960)
USGS Basin & sub-watershed No: (11070207-0802)

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS				PERMIT NUMBER MO-0122840	
OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	MONITORING REQUIREMENTS			
		REQUIREMENTS	MEASUREMENT FREQUENCY	SAMPLETYPE	
Outfalls # 001, 002, 003, 005, 006, 007, and 022 - Unauthorized Discharge Monitoring					
Flow	MGD	Comply with Water Quality Standards.	once/day during discharge	24 hr. estimate	
Dissolved Oxygen	mg/L		once/day during discharge	grab	
Ammonia Nitrogen as N	mg/L		once/day during discharge	grab	
BOD	mg/L		once/day during discharge	grab	
pH - Units	SU		once/day during discharge	grab	
Temperature	°C		once/day during discharge	grab	

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS				PERMIT NUMBER MO-0122840	
OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	MONITORING REQUIREMENTS			
		DISCHARGE MAXIMUM	REQUIREMENTS	MEASUREMENT FREQUENCY	SAMPLE TYPE
Outfalls # 017 - 020 - Production Sites - Storm Water Runoff Limits from Production Sites					
Flow	MGD	2.5	No discharge of process waste.	4/Year	24 hr. estimate
pH - Units	SU			4/Year	grab
Ammonia Nitrogen as N	mg/L			4/Year	grab
Nitrate/nitrite as N	mg/L			4/Year	grab
Total Phosphorus as P	mg/L			4/Year	grab
Total Suspended Solids	mg/L			4/Year	grab
Temperature	°C			4/year	grab

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS			PERMIT NUMBER MO-0122840	
OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	MONITORING REQUIREMENTS		
		REQUIREMENTS	MEASUREMENT FREQUENCY	SAMPLE TYPE
<u>Outfalls # S1 and S2</u>				
Stream Monitoring				
Flow	MGD	Samples shall be only collected from flowing water. Samples from riffles are preferred. Do not collect a sample from pools that do not have water flowing into or out of the pool.	4/year	24 hr. estimate
pH - Units	SU		4/year	grab
Ammonia Nitrogen as N	mg/L		4/year	grab
Nitrate + Nitrite as N	mg/L		4/year	grab
Total Phosphorus as P	mg/L		4/year	grab
Temperature	°C		4/year	grab
Dissolved Oxygen	mg/L		4/year	grab

B. GENERAL CONDITIONS

1. Standard Conditions

In addition to other conditions stated herein, this permit is subject to the attached Part I STANDARD CONDITIONS dated October 1, 1980, and hereby incorporated as though fully set forth herein.

2. Definitions

Definitions are as listed in the "Missouri Concentrated Animal Feeding Operation Nutrient Management Technical Standard" and in State Regulations under 10 CSR 20 Chapter 2 and Chapter 6.300.

3. Permit Exemptions

- (a) All wastewater systems and major system modifications shall be constructed in accordance with a construction permit. As allowed in state regulations under 10 CSR 20-6.300 (2)(B), certain minor modifications and piping changes are exempted from the requirement for a construction permit. Minor modifications would include small sections of buried pipelines, normal repair or replacement of existing wastewater lines, installation of manholes, wet wells, and any other minor change that does not significantly impact the normal operation of the waste management system.
- (b) In accordance with 10 CSR 20-6.300(2)(B)4, permits are not required for storage buildings for dry litter, compost, or similar materials, if the storage structure is roofed and has impermeable floors.

4. Effluent Limitations

The permittee is authorized to discharge process wastewater and storm water in accordance with the effluent limitations in this permit. The effluent limitations shall become effective upon issuance and remain in effect until such time this permit is no longer effective. Such discharges shall be managed, controlled, limited and monitored by the permittee as specified below.

(a) CAFO Production Area

- (1) Requirements applicable to all CAFO production area(s):

The Production Area is that part of an operation which includes the animal confinement area, the manure storage area, the raw materials storage area, and the waste containment areas. Also included is any area used in the storage or treatment of animal mortalities or material containing mortality products.

There shall be no discharge of manure, litter, or process wastewater into waters of the state from production area point sources except as provided in subsection b. below.

A chronic weather event is a series of wet weather conditions that can delay planting, harvesting, and prevent land application and dewatering practices at wastewater storage structures. When wastewater storage structures are in danger of an overflow due to a chronic weather event, CAFO owners shall take reasonable steps to lower the liquid level in the structure through land application, or other suitable means, to prevent overflow from the storage structure. Reasonable steps may include, but are not limited to, following the department's current guidance on "Wet Weather Management Practices for CAFOs". These practices shall be designed by the department to specifically help minimize or eliminate water quality impacts from CAFOs during extreme wet weather periods. The Missouri Climate Center will determine, within a reasonable timeframe, when a chronic weather event is occurring for any given county in Missouri. The Climate Center's determination will be based upon an evaluation of the 1 in 10 year return rainfall frequency over a 10-day, 180-day and 365-day operating period.

Manure, litter or wastewater management activities occurring outside of the discrete point

sources structures, barns or areas but upon land controlled by the permittee shall be identified in the permittee's Nutrient Management Plan (NMP). Activities that should be addressed include, but are not limited to, winter feeding areas, stockpiling of raw materials, manure, or litter or other animal feeding related items that have the potential to contribute pollutants to waters of the state. As necessary, the NMP shall identify controls, measures or BMPs to manage stormwater runoff and meet applicable water quality standards. This paragraph applies only to activities on land that is under the control of the CAFO owner or operator, whether it is owned, rented, or leased.

(b) CAFO Land Application Areas

The Land Application Area is agricultural land which is under the control of the CAFO owner or operator, whether it is owned, rented, or leased, to which manure, litter or process wastewater from the production area is or may be applied.

There shall be no discharge of manure, litter, or process wastewater to waters of the state from a CAFO as a result of the land application of manure, litter or process wastewater to land application areas under the direct control of the CAFO, except where it is an agricultural storm water discharge. When manure, litter, or process wastewater has been land applied in accordance with this permit, a precipitation related discharge of manure, litter or process wastewater from land areas under the control of the CAFO is considered to be an agricultural storm water discharge.

5. Nutrient Management Plan

In accordance with 10 CSR 20-6.300(3)(G), the permittee shall implement a Nutrient Management Plan that at a minimum addresses the following.

- (a) Ensures adequate storage of manure, litter and process wastewater, including procedures to ensure proper operation and maintenance of the storage facilities.
- (b) Ensures proper management of mortalities.
- (c) Ensures that clean water is diverted from the production area.
- (d) Prevents direct contact of confined animals with waters of the state.
- (e) Ensures that chemicals and other contaminants handled on site are not disposed of in any manure, litter, process wastewater, or storm water storage or treatment system unless specifically designed to treat such chemicals and other contaminants.
- (f) Identifies appropriate site specific conservation practices to be implemented, including as appropriate buffers or equivalent practices, to control runoff of pollutants to waters of the state.
- (g) Identifies protocols for appropriate testing of manure, litter, process wastewater, and soil.
- (h) Establishes protocols to land apply manure, litter, or process wastewater in accordance with site specific nutrient management practices that ensure appropriate agricultural utilization of the nutrients in the manure, litter, or process wastewater.
- (i) Identifies specific records that will be maintained.

6. Nutrient Management Technical Standard

The permittee shall follow Attachment A - "Missouri Concentrated Animal Feeding Operation Nutrient Management Technical Standard" (NMTS), on CAFO land application areas as identified in the Nutrient Management Plan. The NMTS, dated March 4, 2009, is hereby incorporated as though fully set forth herein.

7. Transfer of Manure, Litter, and Process Wastewater to Other Persons

In cases where CAFO-generated manure, litter, or process wastewater is sold, given away, or applied on land not under the direct control of the CAFO, the permittee must comply with the following conditions:

- (a) Maintain records showing the date and amount of manure, litter, and/or process wastewater that leaves the permitted operation.

- (b) Record the name and address of the recipient. (The recipient is the broker or end user, not merely the truck driver.)
- (c) Provide the recipient(s) with representative information on the nutrient content of the manure, litter, and/or process wastewater.
- (d) These records must be retained on-site, for a period of five (5) years.
- (e) Provide the recipient with a copy of the NMTS.

8. Mortality Management

There shall be no-discharge from dead animal collection areas or holding areas. Animals shall be disposed of in a manner to prevent contamination of waters of the state or creation of a public health hazard. Management of mortalities will be as described in the nutrient management plan.

9. Water Quality Standards

Any discharges to waters of the state, including those discharges allowed for within this permit, shall not cause a violation of the state water quality standards rule under 10 CSR 20-7.031, including both specific and general criteria.

General Criteria. The following general water quality criteria shall be applicable to all waters of the state at all times including mixing zones. No water contaminant, by itself or in combination with other substances, shall prevent the waters of the state from meeting the following conditions:

- (a) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses;
- (b) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses;
- (c) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses;
- (d) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life;
- (e) There shall be no significant human health hazard from incidental contact with the water;
- (f) There shall be no acute toxicity to livestock or wildlife watering;
- (g) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community;
- (h) Waters shall be free from scrap tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247.

10. Reopener Clause

This permit may be reopened and modified, or alternatively revoked and reissued, to:

- (a) Comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a) (2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
 - (1) contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
 - (2) controls any pollutant not limited in the permit.
- (b) Incorporate new or modified State of Missouri Statutes or Regulations.
- (c) Incorporate new or modified effluent limitations or other conditions, if the result of a waste load allocation study, toxicity test or other information indicates changes are necessary to assure compliance with Missouri's Water Quality Standards.
- (d) Incorporate new or modified effluent limitations or other conditions if, as the result of a watershed analysis, a Total Maximum Daily Load (TMDL) limitation is developed for the receiving waters which are currently included in Missouri's list of waters of the state not fully achieving the state's water quality standards, also called the 303(d) list.

The permit as modified or reissued under this paragraph shall also contain any other requirements

of the Clean Water Act then applicable.

C. SPECIAL CONDITIONS

1. Nutrient Management Plan

The permittee shall submit an updated nutrient management plan (NMP) that complies with the requirements listed in this permit within six months of the effective date of this permit. The NMP shall include operation and maintenance procedures for waste handling systems as necessary to maintain compliance with the terms and conditions of this permit. As operational changes are made to site's waste handling systems, the permittee shall amend applicable portions of the NMP within three months of said changes. Upon receipt of the plan, the department will conduct a review and, if needed, will submit a comment letter regarding any deficiencies within the nutrient management plan. All comments shall be responded to within 30 days of receipt of a letter. The updated NMP shall be followed beginning on the effective date of the permit.

2. Inspections

The following minimum visual inspections shall be conducted by the CAFO operator.

- (a) Daily inspections must be conducted of water lines including wastewater, drinking water, and cooling water lines that can be visually observed within the production area. The inspection of the drinking water and cooling water lines shall be limited to the lines that possess the ability to leak or drain to wastewater storage structures or may come in contact with any process waste.
- (b) Daily inspections of the collection or holding areas for dead animals.
- (c) Weekly inspections of all storm water diversion devices, runoff diversion structures, and devices channeling contaminated storm water to the process wastewater storage.
- (d) Weekly inspections of the manure, litter, and process wastewater impoundments.
- (e) Quarterly inspections, prior to use, of equipment used for land application of manure or process wastewater.
- (f) Inspections during land application shall include monitoring of the perimeter of the application fields to insure that applied wastewater does not run off the fields where applied.

Any deficiencies found as a result of inspections shall be documented and corrected as soon as practicable.

3. Record Keeping

The following records shall be maintained by the CAFO operator for a period of five (5) years from the date they are created and be made available to the department upon request:

- (a) A copy of this permit including a current copy of the facility's Nutrient Management Plan and documentation of changes/modifications made to the Nutrient Management Plan.
- (b) The daily visual inspections required in Special Condition #2, shall be logged/recorded once per week.
- (c) Records documenting any actions taken to correct deficiencies. Deficiencies not corrected within thirty (30) days shall be accompanied by an explanation of the factors preventing immediate correction.
- (d) Records of mortalities management used by the operation.
- (e) Records of the date, time, location, duration and estimated volume of any emergency or unauthorized process waste discharge. Note: Monitor the discharge at the point immediately prior to the receiving stream or at the property boundary, whichever occurs first. Report flow as cubic feet per second (CFS) based on an instantaneous estimate of the flow at the time of sampling. $CFS = \text{flow width in feet} \times \text{flow depth in feet} \times \text{flow velocity in feet per second}$. Estimates of stream channel width and depth may be used and flow velocity can be measured by timing how many feet a floating object moves within a one-second interval. Small flows may also be estimated based on gallons per minute (GPM) measurement using a container and stop watch; $450 \text{ gpm} = 1.0 \text{ CFS}$. Other similar means of estimating may also be used.
- (f) Additional record keeping requirements are found in Attachment B, "Nutrient Management Technical Standard" that document implementation of appropriate Nutrient Management Plan protocols. In addition to the requirements found in the Nutrient Management Technical Standard, the CAFO shall also test and record the potassium levels in the soils while testing nitrogen and phosphorus.

4. Reporting Requirements

- (a) Any wastewater discharge into waters of the state shall be reported to the Department as soon as practicable but no later than 24 hours after the start of the discharge.
- (b) An Annual Report shall be submitted by January 28 of each year for the previous growing season from October 1 through September 30 or an alternate 12 month period approved by the Department. The report shall include:
 - (1) The number and type of animals confined at the operation.
 - (2) The estimated amount of manure, litter, and process wastewater generated in the previous twelve months.
 - (3) The estimated amount of manure, litter, and process wastewater transferred to other persons in the previous twelve months.
 - (4) The total number of acres for land application covered by the Nutrient Management Plan.
 - (5) The total number of acres under control of the operation that were used for land application of manure, litter and process wastewater in the previous twelve months.
 - (6) A summary of all manure, litter, and process wastewater discharges from the production area that have occurred in the previous twelve months, including date, time, and approximate volume. Report as no-discharge, if a discharge did not occur during the monitoring period.
 - (7) A statement indicating whether the current Nutrient Management Plan was developed or approved by a certified nutrient management planner.
 - (8) The crops planted and expected yields, the amount and nutrient content of the manure, litter, and process wastewater applied to the land application area(s) and the results of any soil testing from the previous twelve months.
 - (9) The actual operation numbers compared to the permitted design parameters described in Special Condition #6.
 - (10) All monitoring results from Section A. Effluent Limitations and Monitoring Requirements.
- (c) The reports shall include a cover sheet with an original signature of a company representative. The reports may be printed or alternatively, may be saved as pdf files or locked spreadsheets and burned onto two compact discs (CDs). The CDs may be sent via mail with the cover sheet to the Southwest Regional and the Jefferson City offices.

5. Design Parameters

The facility's design flow in the Facility Description is an estimated parameter that is used to help predict nutrient generation and storage periods. The design flow is based on the maximum annual flows including storm water flows during the one-in-ten year return frequency for annual or 365 day rainfall minus evaporation. The design flow is based on the time period when the flows are generated at the production site and not when flows are land applied. Permittee may exceed the design flow when precipitation in any 365 day period exceeds the one-in-ten year annual precipitation amount. Any proposed increases may require a permit modification prior to the proposed change. Portions of the design flow may be stored and carried over into the following year for land application, as necessary.

6. Land Application Site Locations

The permittee is responsible for all land application area(s) that are owned, rented, leased, or otherwise directly controlled by the permittee. All land application area(s), that fall under the definition of "land application area" as defined in 10 CSR 20-6.300, must be included in the facility's nutrient management plan. The addition of land application area(s) into the facility's nutrient management plan (except for those already in a nutrient management plan) must follow permit modification procedures prior to land application unless otherwise approved by the department.

7. Land Application Limitations on CAFO land application areas

- (a) Process wastes should be land applied as close as practicable to when plants will utilize nutrients. Fall application for the spring crop season may be used where appropriate, but should not be the primary application period. Land application of process wastes shall be utilized as a nutrient resource.

- (b) Avoid surface application when there is a local, applicable weather forecast or observation by permittee of an imminent or impending storm event that is likely to produce runoff.
- (c) Land application equipment shall be operated in such a manner that wastes do not reach an adjoining property line, public use area or into waters of the state. There shall be no visual spray drifts across public roads or property boundaries or into waters of the state. If the employee detects wind blown mist within 100 feet of an adjoining property line or public use area or waters of the state the application equipment shall be either moved farther away or shut down.
- (d) The NMP shall include, when following the NMTS, site specific conservation practices, including as appropriate buffers or equivalent practices, to control runoff of pollutants to waters of the state.
- (e) Implementation procedures for these limitations shall be detailed in the Nutrient Management Plan.

8. Design Operating Capacity

This permit authorizes operation of the CAFO waste management system as described in the "OPERATION DESCRIPTION" along with the permit application and associated engineering plans. The Facility Description describes a design animal unit operating capacity (i.e., number of animals) for this facility. For purposes of this permit, the animal unit operating level at any given time shall be based on averaging the weekly facility wide inventory on a rolling 12 month average (i.e., the animal unit operating level will be determined using a "rolling 12 month average" of the "weekly facility-wide average inventory"). The rolling 12 month average should not exceed, the listed facility-wide design animal unit capacity in the Facility Description. The CAFO may change animal numbers and weights as necessary; however, such changes must not adversely impact the storage and handling capacities of the waste management system.

9. Sample Collection, Preservation and Testing Methods

Testing shall be in accordance with the most current version of *Standard Methods for the Examination of Waters and Wastewaters* or other approved methods listed in 10 CSR 20-7.015(9)(A).

Missouri Department of Natural Resources Concentrated Animal Feeding Operation NPDES Site Specific Permit Factsheet

The Federal Water Pollution Control Act ("Clean Water Act" Section 402 Public Law 92-500 as amended) established the National Pollution Discharge Elimination System (NPDES) permit program. This program regulates the discharge of pollutants from point sources into the waters of the United States, and the release of storm water from certain point sources. All such discharges are unlawful without a permit (Section 301 of the "Clean Water Act"). After a permit is obtained, a discharge not in compliance with all permit terms and conditions is unlawful. Permits in Missouri are issued by the Missouri Department of Natural Resources (department), as the administrative agent for the Missouri Clean Water Commission, under an approved program, operating in accordance with federal and state laws (Federal "Clean Water Act" and "Missouri Clean Water Law" Section 644 as amended). NPDES operating permits are issued for a period of five (5) years unless otherwise specified.

A Factsheet gives pertinent information regarding the applicable regulations, rational for the development of the NPDES Missouri State Operating Permit (operating permit), and the public participation process for operating permit listed below.

A Factsheet is not an enforceable part of an operating permit.

This Factsheet is for a Permit Renewal ; Permit Modification ; and/or permit with widespread public interest .

Facility Information

NPDES Permit No.:	MO-0122840
Owner:	Opal Foods, LLC
Owner Address:	1100 Blair Avenue, Neosho, MO 64850
Facility Name:	Opal Foods, - Hathaway Farms
Facility Address:	17331 Hwy. D, Neosho, MO 64850
MDNR Region:	Southwest Regional Office
Facility County:	Newton
Facility Type:	Class IA-Concentrated Animal Feeding Operation (CAFO)
Facility SIC Code:	0252

Facility Description:

The Meadows Farm, School Farm, and Pullet Farm have no birds in them at this time. The Sawmill Farm has been depopulated and razed.

The Timberview Farm has 9 poultry buildings and 2 covered concrete manure pits with a capacity of 440,050. A construction permit application to replace the existing Timberview Farm buildings with 9 new buildings has been received. A proposed outfall is shown in this permit to reflect the as-built change to this outfall.

The Hathaway Farm has 7 houses with a capacity of 200,704 each for a total of 1,404,928. A construction permit application to build 4 new houses has been received. A proposed outfall is shown in this permit to reflect the as-built change to this outfall.

Outfalls 017, 018, 019 and 020 are stormwater runoff from the production site. Outfalls #S1 (previous outfall 014) and #S2 (previous outfall 025) are stream monitoring locations.

2015 modification

Opal Foods is proposing the additions of 4 dry layer confinement buildings housing a total of 400,000 layers and a manure shed at the School Farm, 3 dry layer confinement buildings housing a total of 900,000 layers at the Hathaway Farm, and 2 dry pullet confinement buildings housing a total of 100,000 pullets and a manure shed at the Timberview Farm. This will bring the total number of animals in confinement to 3,500,000 layers and 1,500,000 pullets or 69,317 animal units at the operation. The Meadows Farm Site and truck wash, and MOARK Pullet Farm Site are no longer in production and the animal numbers at these farms have been changed to reflect the current operating conditions. These outfalls will be removed at the next renewal. This modification also includes a name change for the operation.

Effected Outfalls and other Modifications

Note: All outfalls are detailed in the operating permit starting on page 2.

This permit modification does not include an increase in animal numbers or animal capacity at this site.

The department is modifying, a Missouri State Operating Permit for an ownership transfer from MOARK 7 Farms to Opal Foods – Hathaway Farms located in Newton County. This facility is a Missouri Class IA Concentrated Animal Feeding Operation (CAFO) which, due to its classification and size has been required by the department to retain a site-specific operating permit.

Water Quality Monitoring -

The MOARK 7 Farms permit has, in the previous permit, required varying amounts of water quality monitoring. The monitoring requirements in the previous permit at this site have included sampling locations for stormwater, and in-stream monitoring with a sampling frequency of quarterly, and monthly respectfully. The purpose behind the department's monitoring requirements was to help aid in ascertaining any water quality related impacts from the CAFO's operation and land application of manure. Technical staff in the Permits Section have reviewed the results of the past monitoring and generally conclude that further extensive monitoring is unnecessary as there is no indication from past water quality data that a reasonable potential exists for the MOARK 7 Farms CAFO to violate water quality standards when it is managed and operated in accordance with permit requirements.

With this in mind, the department has reduced some of the complexity of the monitoring requirements within the MOARK 7 Farms permit. Storm water monitoring will be addressed by requiring sampling of the stormwater monitoring sites four times per year.

In-stream monitoring requirements have been retained and will include two monitoring points on the primary receiving stream for this site and will be sampled four times per year.

Inspections, Record Keeping, and Reporting Requirements -

On February 28, 2009, the department finalized changes to department's CAFO regulation at 10 CSR 20-6.300. In response to the new regulations, the department made several additions and changes to the inspections, record keeping, and reporting requirements to address the new state requirements.

Prior permits have included submittal of a quarterly report and an annual report in paper format. The annual report contained essentially the same information that was found in the quarterly report. Department staff rarely has the time or the need to regularly review the quarterly reports and the sheer volumes of documents and paper generated by the submittal of these reports fill up file room space in both the regional and central offices. The department plans to reduce the reporting requirement down to an annual report only and will provide MOARK Anderson Farm an option of submitting the annual reports electronically on a CD-ROM. This permit requires that all records required by the permit be made available, upon request, for department review and if deemed necessary can be reviewed by the

department during inspections.

Nutrient Management -

Proper management and utilization of farm generated manure nutrients at a CAFO is key to its ability to operate in a safe and protective manner. State regulations pertaining to nutrient management at CAFOs have significantly changed since the last permit cycle. In particular, the requirements pertaining to development of application rates, including soil test phosphorus limitations, have become more prescriptive. The following are additions and/or changes that have been proposed for this permit which are direct result from recent updates in the state regulation.

This permit has been updated to reflect new nutrient management requirements. Most notably, new permit conditions have been included that require the CAFO to develop and implement a site-specific Nutrient Management Plan (NMP) that complies with nine specific criteria. The proposed permit stipulates a 6 month compliance schedule, which will begin on the date of issuance, for the development and submittal of this NMP. One of the key reasons the department is allowing the six month compliance date is that the CAFO must have the final permit requirements in order to fully develop a site specific NMP for this site. The permit also now requires MOARK to complete a phosphorus risk assessment on the land application fields that they own or control. This assessment will identify fields that have a high susceptibility to phosphorus loss and will place application rate restrictions on high risk fields. This protocol provides for a more predictable and systematic approach to phosphorus management as compared to the phosphorus assessments and limitations used in previous permits.

The permit now incorporates by reference the department's "Nutrient Management Technical Standards" (NMTS). This standard was developed to provide a framework for the protocol(s) and method(s) that CAFOs should utilize when determining the form, source, amount, timing, and method of application on individual land application fields. The NMTS represents the department's best professional judgment regarding how to satisfy and/or implement the specific NMP criteria G, H and I within 10 CSR 20-6.300(5)(A). The framework seeks to achieve realistic production goals while ensuring appropriate agricultural utilization of the nutrients in the manure, litter, or process wastewater while also minimizing movement of nitrogen, phosphorus, and other potential water contaminants into surface and/or ground water.

Land Application Areas -

The permit requires the permittee be responsible for all land application area(s) that are owned, rented, leased, or otherwise directly controlled by the permittee. All lands that fall under the definition of "land application area" as defined in 10 CSR 20-6.300, must be included in the facility's nutrient management plan.

When the permittee proposes to include additional land application area into the facility's nutrient management plan (except when such land is already in a nutrient management plan), the permittee must follow permit modification procedures prior to land application unless otherwise approved by the department.

When the permittee conducts land application activities to agricultural lands that are not owned, rented, leased or directly controlled, or when the permittee sells or gives away CAFO-generated manure, the permit requires the CAFO maintain certain records documenting the name of recipient, the date and amount of manure, litter, and process wastewater that leaves the permitted operation. It also requires the permittee provide the recipient with representative information on the nutrient content of the manure, litter, and/or process wastewater along with a copy of the Department's Nutrient Management Technical Standard.

Receiving Stream Information

Please mark the correct designated waters of the state categories of the receiving stream.

Missouri or Mississippi River [10 CSR 20-7.015(2)]:	Yes <input type="checkbox"/> ; No <input checked="" type="checkbox"/>
Lake or Reservoir [10 CSR 20-7.015(3)]:	Yes <input type="checkbox"/> ; No <input checked="" type="checkbox"/>
Losing [10 CSR 20-7.015(4)]:	Yes <input type="checkbox"/> ; No <input checked="" type="checkbox"/>
Metropolitan No-Discharge [10 CSR 20-7.015(5)]:	Yes <input type="checkbox"/> ; No <input checked="" type="checkbox"/>
Special Stream [10 CSR 20-7.015(6)]:	Yes <input type="checkbox"/> ; No <input checked="" type="checkbox"/>
Subsurface Water [10 CSR 20-7.015(7)]:	Yes <input type="checkbox"/> ; No <input checked="" type="checkbox"/>
All Other Waters [10 CSR 20-7.015(8)]:	Yes <input checked="" type="checkbox"/> ; No <input type="checkbox"/>

10 CSR 20-7.031 Missouri Water Quality Standards, the department defines the Clean Water Commission water quality objectives in terms of "water uses to be maintained and the criteria to protect those uses." The receiving stream and/or 1st classified receiving stream's beneficial water uses are to be maintained in accordance with 10 CSR 20-7.031(3)

Receiving Stream Monitoring Requirements:

Over five years of water quality stream data has been collected by Moark 7 Farm in order to analyze stream impacts from their facility. In analyzing data from the monitoring required previously by this permit, the department has found no obvious problems or differences in watersheds that house large CAFOs compared to those that do not. Water quality data generally show that the effects on water quality from agricultural non-point source activities, like unconfined livestock and commercial fertilizer use, appears to be similar to that of CAFOs that are reasonably well managed. With that said, the department has included two stream monitoring locations within the primary receiving stream be retained in this permit with a frequency of four times per year.

RATIONALE AND DERIVATION OF EFFLUENT LIMITATIONS & PERMIT CONDITIONS

PERMIT APPLICABILITY:

National Pollutant Discharge Elimination System (NPDES) permits are required for operations defined in 10 CSR 20-6.300 as a Concentrated Animal Feeding Operation (CAFO). Site-specific permits are required for CAFO operations that fall within the class IA category. Operations that fall under this category confine 7,000 or more animal units. The department, however, can require site specific permits to other class I operations if it is determined that the quality of the waters of the state would be better protected with one.

PERMIT COVERAGE

This site specific permit will cover all production areas, which include the confinement, storage, and handling areas, as well as the land application activities at sites that are under the ownership or control of the permitted CAFO owner/operator. This permit applies only to requirements of, and regulations promulgated under, the Missouri Clean Water Law and Federal Clean Water Act and does not apply to other environmental laws and regulations. This permit does not recognize, supersede nor remove liability from compliance with county and other local ordinances.

WHAT CONSTITUTES A DISCHARGE FROM A CAFO:

A discharge of process waste is the discharge of pollutants into surface or subsurface waters of the state from the animal confinement or storage and handling areas of a CAFO including in some circumstances the land application area(s) under the ownership or control of the CAFO operator.

Discharges prohibited by this permit include, but are not limited to, the following:

- Discharge from manure storage structures (lagoons, basins, pits, etc.), unless discharge was due to storm events exceeding the chronic or catastrophic storm events for the design storage period.*
- Discharge of contaminated runoff from non-vegetated feedlots, stockpiled manure, and other feedstock storage;
- Discharges associated with improper land application of manure and/or wastewater activities under the control of the CAFO operator;
- Discharges of manure and/or wastewater due to pipe breakage or equipment failure.

*Discharge is allowed due to overflow through the emergency spillway of the lagoon or other uncovered storage structure when the overflow is caused by storm events that exceed the defined design storm event. Only that portion of storm water flow, which exceeds the design storm event may be discharged.

Stormwater discharges from land application areas that have received manure as fertilizer are authorized under this permit. Stormwater that comes from land application sites is exempt from effluent limits. The reason stormwater discharges are not subject to discharge limits is because the federal definition of a point source contains a specific exclusion for agricultural stormwater. This exclusion was further clarified when the U.S. Environmental Protection Agency (USEPA) promulgated the revised CAFO Regulations on February 12, 2003. The clarification stated that if the process waste is applied at agronomic rates, the stormwater runoff from land application sites is not subject to effluent limitations. This determination by the USEPA was later upheld by the Second Circuit Court's ruling in *Waterkeeper Alliance, Inc. et. al. v. U.S. Environmental Protection Agency*, 399 F.3d 486 (2nd Cir. 2005). Since the State of Missouri has not enacted any laws that would differ from the EPA's determination or the subsequent court ruling, the stormwater runoff from land application sites is exempt from effluent limitations and is considered a non-point source not subject to permit requirements.

PROPOSED DISCHARGE LIMITATIONS, MONITORING, AND TREATMENT REQUIREMENTS

Please see Section A & B of this draft Permit attached to this fact sheet.

RATIONALE FOR PROPOSED DISCHARGE LIMITATIONS, MONITORING AND TREATMENT REQUIREMENTS:

Effluent parameters and limitations contained in this Missouri State Operating Permits are obtained from Technology Based Effluent Limits (TBEL), Missouri's Effluent Regulations [10 CSR 20-7.015], Missouri's Water Quality Standards [10 CSR 20-7.031], previous Missouri State Operating Permits, and from Permit Applications. When CAFOs actively operate and maintain properly designed manure and wastewater storage structures they will prevent most, if not all overflows and discharges. Because of this, the department has established Best Management Practices (BMPs) to insure proper operation and maintenance of the production area and to prevent unauthorized discharges. Because of the uncertainty that is involved in determining if runoff or overflow of process waste has led to a discharge, as well as the substantial variation of the volume and nature of the pollutants of the discharge, numeric effluent limitation guidelines to control discharges are considered infeasible. Conversely, effluent limitations in the form of BMPs are particularly suited for the regulation of CAFOs. Controlling discharges to surface water is largely associated with controlling runoff and controlling overflows from manure storage structures. Runoff from CAFOs can be highly intermittent and is usually characterized by very high flows, due to precipitation, occurring over relatively short time intervals.

Along with BMPs, proper nutrient management planning and mandated recordkeeping requirements in dealing with the CAFOs manure storage structures and land application is required under this permit. These requirements will ensure that CAFOs apply manure, litter, and other process wastewaters at rates, and in a manner consistent with appropriate agricultural utilization of nutrients. Limits on the rate at which manure or litter can be applied and certain other constraints on application practices, such as setbacks, and application methods are widely demonstrated as achievable and are being imposed through this permit.

ANTIDegradation ISSUES:

As there shall be no-discharge of process wastewater during dry weather conditions the terms and conditions proposed in this draft permit will maintain and protect the designated uses of the various receiving stream(s) as well as the level of water quality necessary to protect said water uses. With proper implementation of Best Management Practices (BMPs) and the NMTS at both the CAFO production area(s) and land application site(s) as well as other minimum standards, protection of water quality will be provided for a particular water body where the water quality exceeds levels necessary to protect fish and wildlife propagation and recreation on and in the water. This also includes special protection of waters designated as outstanding natural resource waters. Antidegradation plans are adopted by each State to minimize adverse effects on water.

ANTI-BACKSLIDING:

A provision in the Federal Regulations [CWA §303(d)(4); CWA §402(c); CFR §122.44(I)] requires a reissued permit to be as stringent as the previous permit with some exceptions.

- All limits in this Factsheet are at least as protective as those previously established; therefore, backsliding does not apply.

- Backsliding proposed in this Factsheet for the reissuance of this permit conform to the anti-backsliding provisions of Section 402(o) of the Clean Water Act, and 40 § CFR 122.44.

COMPLIANCE AND ENFORCEMENT:

Action taken by the department to resolve violations of the Missouri Clean Water Law, its implementing regulations, and/or any terms and condition of an operating permit.

Applicable ;

Not Applicable ; The permittee/facility is not under enforcement action and is considered to be in compliance with the Missouri Clean Water Law, its implementing regulations, and/or any terms and condition of an operating permit.

The Public Notice period for this operating permit was from 3-15-2011 to 4-15-2011.

Date of Factsheet: 02-28-2011

STANDARD CONDITIONS FOR NPDES PERMITS
ISSUED BY
THE MISSOURI DEPARTMENT OF NATURAL RESOURCES
MISSOURI CLEAN WATER COMMISSION
Revised
October 1, 1980

PART I - GENERAL CONDITIONS
SECTION A - MONITORING AND REPORTING

1. **Representative Sampling**
 - a. Samples and measurements taken as required herein shall be representative of the nature and volume, respectively, of the monitored discharge. All samples shall be taken at the outfall(s), and unless specified, before the effluent joins or is diluted by any other body of water or substance.
 - b. Monitoring results shall be recorded and reported on forms provided by the Department, postmarked no later than the 28th day of the month following the completed reporting period. Signed copies of these, and all other reports required herein, shall be submitted to the respective Department Regional Office, the Regional Office address is indicated in the cover letter transmitting the permit.
2. **Schedule of Compliance**

No later than fourteen (14) calendar days following each date identified in the "Schedule of Compliance", the permittee shall submit to the respective Department Regional Office as required therein, either a report of progress or, in the case of specific actions being required by identified dates, a written notice of compliance or noncompliance. In the latter case, the notice shall include the cause of noncompliance, any remedial actions taken, and the probability of meeting the next scheduled requirements, or if there are no more scheduled requirements, when such noncompliance will be corrected. The Regional Office address is indicated in the cover letter transmitting the permit.
3. **Definitions**

Definitions as set forth in the Missouri Clean Water Law and Missouri Clean Water Commission Definition Regulation 10 CSR 20-2.010 shall apply to terms used herein.
4. **Test Procedures**

Test procedures for the analysis of pollutant shall be in accordance with the Missouri Clean Water Commission Effluent Regulation 10 CSR 20-7015.
5. **Recording of Results**
 - a. For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information:
 - (i) the date, exact place, and time of sampling or measurements;
 - (ii) the individual(s) who performed the sampling or measurements;
 - (iii) the date(s) analyses were performed;
 - (iv) the individual(s) who performed the analyses;
 - (v) the analytical techniques or methods used; and
 - (vi) the results of such analyses.
 - b. The Federal Clean Water Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than six (6) months per violation, or both.
 - c. Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified by the Director in the permit.
6. **Additional Monitoring by Permittee**

If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit, using approved analytical methods as specified above, the results of such monitoring shall be included in the calculation and reporting of the values required in the Monitoring Report Form. Such increased frequency shall also be indicated.

7. **Records Retention**

The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recording for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least three (3) years from the date of the sample, measurement, report or application. This period may be extended by request of the Department at any time.

SECTION B - MANAGEMENT REQUIREMENTS

1. **Change in Discharge**
 - a. All discharges authorized herein shall be consistent with the terms and conditions of this permit. The discharge of any pollutant not authorized by this permit or any pollutant identified in this permit more frequently than or at a level in excess of that authorized shall constitute a violation of the permit.
 - b. Any facility expansions, production increases, or process modifications which will result in new, different, or increased discharges of pollutants shall be reported by submission of a new NPDES application at least sixty (60) days before each such change, or, if they will not violate the effluent limitations specified in the permit, by notice to the Department at least thirty (30) days before such changes.
2. **Noncompliance Notification**
 - a. If, for any reason, the permittee does not comply with or will be unable to comply with any daily maximum effluent limitation specified in this permit, the permittee shall provide the Department with the following information, in writing within five (5) days of becoming aware of such conditions:
 - (i) a description of the discharge and cause of noncompliance, and
 - (ii) the period of noncompliance, including exact dates and times or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate and prevent recurrence of the noncomplying discharge.
 - b. Twenty-four hour reporting. The permittee shall report any noncompliance which may endanger health or the environment. Any information shall be provided orally with 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided with five (5) days of the time the permittee becomes aware of the circumstances. The Department may waive the written report on a case-by-case basis if the oral report has been received within 24 hours.
3. **Facilities Operation**

Permittees shall operate and maintain facilities to comply with the Missouri Clean Water Law and applicable permit conditions. Operators or supervisors of operations at publicly owned or publicly regulated wastewater treatment facilities shall be certified in accordance with 10 CSR 209.020(2) and any other applicable law or regulation. Operators of other wastewater treatment facilities, water contaminant source or point sources, shall, upon request by the Department, demonstrate that wastewater treatment equipment and facilities are effectively operated and maintained by competent personnel.
4. **Adverse Impact**

The permittee shall take all necessary steps to minimize any adverse impact to waters of the state resulting from noncompliance with any effluent limitations specified in this permit or set forth in the Missouri Clean Water Law and Regulations (hereinafter the Law and Regulations), including such accelerated or additional monitoring as necessary to determine the nature and impact of the noncomplying discharge.

- a. Any bypass or shut down of a wastewater treatment facility and tributary sewer system or any part of such a facility and sewer system that results in a violation of permit limits or conditions is prohibited except:
 - (i) where unavoidable to prevent loss of life, personal injury, or severe property damages; and
 - (ii) where unavoidable excessive storm drainage or runoff would catastrophically damage any facilities or processes necessary for compliance with the effluent limitations and conditions of this permit;
 - (iii) where maintenance is necessary to ensure efficient operation and alternative measures have been taken to maintain effluent quality during the period of maintenance.
 - b. The permittee shall notify the Department in writing of all bypasses or shut down that result in a violation of permit limits or conditions. This section does not excuse any person from liability, unless such relief is otherwise provided by the statute.
6. **Removed Substances**
Solids, sludges, filter backwash, or any other pollutants removed in the course of treatment or control of wastewaters shall be disposed of in a manner such as to prevent any pollutants from entering waters of the state unless permitted by the Law, and a permanent record of the date and time, volume and methods of removal and disposal of such substances shall be maintained by the permittee.
7. **Power Failures**
In order to maintain compliance with the effluent limitations and other provisions of this permit; the permittee shall either:
 - a. in accordance with the "Schedule of Compliance", provide an alternative power source sufficient to operate the wastewater control facilities; or,
 - b. if such alternative power source is not in existence, and a date for its implementation appears in the Compliance Schedule, halt or otherwise control production and all discharges upon the reduction, loss, or failure of the primary source of power to the wastewater control facilities.
8. **Right of Entry**
For the purpose of inspecting, monitoring, or sampling the point source, water contaminant source, or wastewater treatment facility for compliance with the Clean Water Law and these regulations, authorized representatives of the Department, shall be allowed by the permittee, upon presentation of credentials and at reasonable times;
 - a. to enter upon permittee's premises in which a point source, water contaminant source, or wastewater treatment facility is located or in which any records are required to be kept under terms and conditions of the permit;
 - b. to have access to, or copy, any records required to be kept under terms and conditions of the permit;
 - c. to inspect any monitoring equipment or method required in the permit;
 - d. to inspect any collection, treatment, or discharge facility covered under the permit; and
 - e. to sample any wastewater at any point in the collection system or treatment process.
9. **Permits Transferable**
 - a. Subject to Section (3) of 10 CSR 20-6.010 an operating permit may be transferred upon submission to the Department of an application to transfer signed by a new owner. Until such time as the permit is officially transferred, the original permittee remains responsible for complying with the terms and conditions of the existing permit.
 - b. The Department, within thirty (30) days of receipt of the application shall notify the new permittee of its intent to revoke and reissue or transfer the permit.
10. **Availability of Reports**
Except for data determined to be confidential under Section 308 of the Act, and the Law and Missouri Clean Water Commission Regulation for Public Participation, Hearings and Notice to Governmental Agencies 10 CSR 20-6.020, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Department. As required by statute, effluent data shall not be considered confidential. Knowingly making any false statement on any such report shall be subject to the imposition of criminal penalties as provided in Section 204.076 of the Law.
- a. Subject to compliance with statutory requirements of the Law and Regulations and applicable Court Order, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to, the following:
 - (i) violation of any terms or conditions of this permit or the Law;
 - (ii) having obtained this permit by misrepresentation or failure to disclose fully any relevant facts;
 - (iii) a change in any circumstances or conditions that requires either a temporary or permanent reduction or elimination of the authorized discharge; or
 - (iv) any reason set forth in the Law and Regulations.
 - b. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.
12. **Permit Modification - Less Stringent Requirements**
If any permit provisions are based on legal requirements which are lessened or removed, and should no other basis exist for such permit provisions, the permit shall be modified after notice and opportunity for a hearing.
13. **Civil and Criminal Liability**
Except as authorized by statute and provided in permit conditions on "Bypassing" (Standard Condition B-5) and "Power Failures" (Standard Condition B-7) nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance.
14. **Oil and Hazardous Substance Liability**
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Section 311 of the Act, and the Law and Regulations. Oil and hazardous materials discharges must be reported in compliance with the requirements of the Federal Clean Water Act.
15. **State Laws**
Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable state statute or regulations.
16. **Property Rights**
The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of or violation of federal, state or local laws or regulations.
17. **Duty to Reapply**
If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for a new permit 180 days prior to expiration of this permit.
18. **Toxic Pollutants**
If a toxic effluent standard, prohibition, or schedule of compliance is established, under Section 307(a) of the Federal Clean Water Act for a toxic pollutant in the discharge of permittee's facility and such standard is more stringent than the limitations in the permit, then the more stringent standard, prohibition, or schedule shall be incorporated into the permit as one of its conditions, upon notice to the permittee.
19. **Signatory Requirement**
All reports, or information submitted to the Director shall be signed (see 40 CFR-122.6).
20. **Rights Not Affected**
Nothing in this permit shall affect the permittee's right to appeal or seek a variance from applicable laws or regulations as allowed by law.
21. **Severability**
The provisions of this permit are severable, and if any provisions of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

ALLGEIER, MARTIN and ASSOCIATES, INC.

CONSULTING ENGINEERS and SURVEYORS
www.amce.com

RECEIVED

May 26, 2015

MAY 28 2015

Missouri Dept. of Natural Resources
Water Protection Program
Attn: Greg Caldwell
P.O Box 176
Jefferson City, MO 65102-0176

WATER PROTECTION PROGRAM

Re: CAFO Operating Permit Application
Opal Foods Expansion 2015
Neosho, MO

Mr. Caldwell:

Find enclosed the Opal Foods Expansion application packet for your review. Also enclosed are Form W and a check in the amount of \$1,250.00 for the CAFO permit modification. Opal Foods would like to permit the new items described in the packet and construct them in phases over the next year or two. They would also like to simplify their permit by having the inactive farms deleted from the permit. Anything other than School Farm, Hathaway Farm, Timberview Farm, and the FAB complex is depopulated and abandoned and should be deleted.

If you have any questions or require addition information to complete the review process please contact me by email at jared.nichols@amce.com or by phone at 417-680-7356.

Very truly yours,

ALLGEIER, MARTIN & ASSOCIATES, INC.



Jared Nichols, P.E.

Enclosures

Cc: Vernon Freeland, Opal Foods

RECEIVED

MAY 28 2015
AP21325



MISSOURI DEPARTMENT OF NATURAL RESOURCES
WATER PROTECTION PROGRAM

**FORM W - CONCENTRATED ANIMAL FEEDING OPERATION
(CAFO) OPERATING PERMIT APPLICATION**

FOR OFFICE USE ONLY	
CHECK NUMBER	1005040
DATE RECEIVED	5-28-15
FEE SUBMITTED	\$12.50 ⁰⁰

Complete all applicable sections for type of permit being applied for. Instructions for completing the form are located at the end of the form. Sign, date and return the form and all requested documents along with a check for \$150 payable to the Missouri Department of Natural Resources. Make a copy of this completed form and keep it with your Nutrient Management Plan.

PART 1 - PERMIT OWNERSHIP/CONTACT INFORMATION

1.1 OPERATION NAME Opal Foods Neosho Farms		CURRENT PERMIT NUMBER MO- 0122840	COUNTY Newton
PHYSICAL ADDRESS School Farm: 17684 Hwy D; Hathaway Farm: 17331 Hwy D; Timberview Farm: 19242 Mallard Dr.			TELEPHONE NUMBER WITH AREA CODE
CITY Neosho	STATE MO	ZIP CODE 64850	
1.2 OWNER (PROVIDE LEGAL NAME) Opal Foods LLC		EMAIL ADDRESS info@opal-foods.com	
MAILING ADDRESS 1100 Blair Avenue			TELEPHONE NUMBER WITH AREA CODE (417) 455-5000
CITY Neosho	STATE MO	ZIP CODE 64850	
1.3 CONTINUING AUTHORITY (IF DIFFERENT THAN THE OWNER) Same As Above			
MAILING ADDRESS			TELEPHONE NUMBER WITH AREA CODE
CITY	STATE	ZIP CODE	

PART 2 - PERMIT TYPE, ACTION, AND NUTRIENT MANAGEMENT PLAN OR NMP

<p>2.1 PERMIT TYPE</p> <p><input checked="" type="checkbox"/> NPDES Permit NMP is required to be submitted with application. (Must also complete Land Application Information page)</p> <p><input type="checkbox"/> State No-Discharge Permit NMP is not required to be submitted. The date soil tests were taken that was used in development of the NMP. (Month/Year)</p>	<p>2.2 Permit Action</p> <p><input type="checkbox"/> New Permit <input type="checkbox"/> Renewal</p> <p><input checked="" type="checkbox"/> Modification (including Ownership Transfer)</p> <p>Previous Owner _____</p> <p style="text-align: right;">Name _____</p> <p style="text-align: right;">Address _____</p> <p style="text-align: right;">City, State, Zip Code _____</p> <p style="text-align: right;">Previous Owner's Signature _____ Date _____</p>
---	--

PART 3 - DESIGN CAPACITY FOR MANURE STORAGE AND ANIMALS OF EACH CAFO FEATURE

(All information to complete this section is in your current operating or construction permit. Attach additional sheets if necessary)

3.1 STORAGE STRUCTURE TYPES, AMOUNT OF STORAGE, AND AMOUNT OF MANURE GENERATED PER YEAR.

CAFO Feature	List All Manure Storage Structures at each CAFO Feature Storage Structure Type(s)	Dry Manure Handling System		Wet Manure Handling System			
		Design Dry Process Waste (tons/yr.)	Days of Storage	Total Storage Capacity (gal)	Design Wastewater per Year (gal./yr.)	Days of Storage	Design Flow MGD
001	(F) - 14 Buildings - See Attached Table 1	132,768	112	N/A	N/A	N/A	N/A
002							
003							
004							
005							

3.2 LIST EACH TYPE OF ANIMAL IN CONFINEMENT AND THE NUMBER OF EACH ANIMAL TYPE.

CAFO Feature	Animal Category #1	Animal Numbers	Animal Category #2	Animal Numbers	Animal Category #3	Animal Numbers
001	(8) Layer Chickens	4,700,000				
002	(10) Pullet Chickens	1,500,000				
003						
004						
005						

PART 4 - OPERATIONAL INFORMATION

4.1 OPERATIONAL INFORMATION (SEE INSTRUCTIONS) SIC Code(s) 0251 & 252	CAFO Class Size IA
4.2 Is this an "Export Only" operation?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
4.3 Are spreading agreements current?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Applicable

SW Newton

PARTS 5 through 11 meet the NMP requirements for an export only operation.

PART 5- MANURE STORAGE

State regulations require CAFOs to ensure adequate storage of manure, litter, or process wastewater, including the proper operation and maintenance of each storage facility.

5.1 Does each storage structure have adequate storage, properly operated and maintained so as not to discharge? Yes No

PART 6 - ANIMAL MORTALITY

State regulations require proper management of animal mortalities be in place at all CAFOs. There should be no discharge from dead animal collection, holding, or disposal areas at the CAFO's production areas. In addition, the Missouri Department of Agriculture requires the collection or disposal of dead animals in accordance with the Dead Animal Disposal Law under Chapter 269 RSMo.

6.1 PERMANENT METHOD OF ANIMAL MORTALITY HANDLING OR DISPOSAL; CHOOSE APPLICABLE METHOD(S)

Composting Rendering Send to a Landfill Incineration Other (Describe)

6.2 DESCRIBE METHOD OF MORTALITY HANDLING AND STORAGE THROUGH ALL PHASES TO FINAL DISPOSAL. (EXAMPLE: MORTALITIES ARE COMPOSTED WITHIN 24 HOURS OF DEATH AND FINISHED COMPOST PRODUCT IS STORED UNDER ROOF UNTIL LAND APPLIED). ALSO DESCRIBE THE TYPE OF COMPOST STRUCTURE USED, IF APPLICABLE.

Stored onsite in dumpster until picked up and taken to landfill. Pick up occurs 3 times a week. No discharge from stored mortalities.

PART 7 - DIVERSION OF CLEAN WATER

State regulations require CAFOs to divert clean stormwater, as appropriate, around the production area.

7.1 Is clean stormwater diverted from the production area? Yes No

7.2 If yes, describe controls and measures used to divert stormwater.

All areas containing animals or waste are covered by roof or completely enclosed. Grading is such that rainwater is diverted away from the buildings.

7.3 IF NO, INCLUDE DESIGN CALCULATIONS (IF NOT INCLUDED IN THE ORIGINAL DESIGN) FOR DETERMINING THE TOTAL STORAGE CAPACITY NEEDED TO CONTAIN ALL CLEAN STORMWATER RUNOFF THAT HAS NOT BEEN DIVERTED FROM THE PRODUCTION AREA. NOTE: THE DEPARTMENT HIGHLY DISCOURAGES THIS PRACTICE.

PART 8 - PREVENT DIRECT CONTACT OF ANIMALS WITH SURFACE WATERS

State regulations require that CAFOs prevent the direct contact of confined animals with waters of the state.

8.1 Do the animals have access to waters of the state within the production area? Yes No

8.2 LIST MEASURES USED TO PREVENT ANIMALS FROM HAVING DIRECT CONTACT WITH WATERS OF THE STATE WITHIN THE PRODUCTION AREA.

Animals are confined to buildings at all times.

PART 9 - CHEMICAL HANDLING

State regulations require chemicals and other contaminants handled on-site not be disposed of in any manure, litter, process wastewater, storm water storage or treatment system unless specifically designed to treat such chemicals and other contaminants

9.1 CHECK THE APPROPRIATE BOXES BELOW TO INDICATE THE MEASURES TAKEN TO PREVENT CHEMICALS (INCLUDING PESTICIDES, COMMERCIAL FERTILIZERS, HAZARDOUS AND TOXIC CHEMICALS AND PETROLEUM BY-PRODUCTS) FROM CONTAMINATING MANURE STORAGE STRUCTURES, PROCESS WASTEWATER OR STORM WATER STORAGE AND TREATMENT SYSTEMS:

Chemicals are stored in proper containers. (Describe)

See maintenance plan.

Chemicals that are no longer used or expired are properly disposed of. (Describe)

See maintenance plan.

Chemical storage and handling areas are protected from precipitation and runoff, and any spillage is contained within these areas. (Describe)

See maintenance plan.

Emergency procedures and equipment are in place to contain and clean up chemical spills. (Describe)

See maintenance plan.

Equipment wash areas are designed and constructed to prevent contamination of surface waters and wastewater and storm water storage and treatment systems. (Describe)

See maintenance plan.

Chemicals are handled and used according to the label. (Describe)

See maintenance plan.

No chemicals are stored or handled in the production area.

PART 10 - MANURE ANALYSIS TESTING

State regulations require that each unique source of manure be tested annually for nutrient content.

10.1 LIST EACH TYPE OF MANURE SOURCE. (i. e. MANURE, LITTER, COMPOST, WASTE WATER.)

All

10.2 DESCRIBE THE PROCEDURES TO ENSURE EACH UNIQUE SOURCE IS TESTED ANNUALLY.

Manure / Litter / Compost is tested prior to being land applied. Wastewater is sent to the Neosho WWTP.

PART 11 - RECORD KEEPING

State regulations require specific records to be maintained and kept for five years.

11.1 Are records of all inspections, manure transfers, discharges and land application maintained? Yes No

PART 12 - SIGNATURE

NAME	Jerry Welch	TITLE	Vice President / General Manager
SIGNATURE	<i>Jerry Welch</i>	DATE	5-18-2015

APPENDIX B

Land Application Site Soil Tests

REPORT NUMBER
16-110-0399
 ACCOUNT
8197
 COMPLETED DATE
Apr 21, 2016
 RECEIVED DATE
Apr 19, 2016



13611 "B" Street • Omaha, Nebraska 68144-3693 • (402) 334-7770 • FAX (402) 334-9121
 www.midwestlabs.com

OPAL FOODS LLC- SOIL & COMPOST TIMBERVIEW FARM
BI PRODUCTS
1100 BLAIR AVE
NEOSHO MO 64850-

PAGE 2/2
 TODAY'S DATE
Apr 21, 2016

SOIL ANALYSIS REPORT

INFO SHEET: 805175

LAB NUMBER	SAMPLE IDENTIFICATION	ORGANIC MATTER L.O.I. percent RATE	PHOSPHORUS			NEUTRAL AMMONIUM ACETATE (EXCHANGEABLE)			pH	SOIL pH 1:1	BUFFER INDEX	CATION EXCHANGE CAPACITY CEC meq/100g	PERCENT BASE SATURATION (COMPUTED)				
			P ₁ (WEAK BRAY) 1:7 ppm RATE	P ₂ (STRONG BRAY) 1:7 ppm RATE	OLSEN BICARBONATE P ppm RATE	POTASSIUM K ppm RATE	MAGNESIUM Mg ppm RATE	CALCIUM Ca ppm RATE					SODIUM Na ppm RATE	% K	% Mg	% Ca	% H
82567	11	10.9 VH	100 VH	145 VH		65 L	116 L	2321 VH	6.9			12.7	1.3	7.6	91.1	0.0	
82568	12	5.4 VH	605 VH	606 VH		62 L	66 VL	2119 VH	7.4			11.3	1.4	4.9	93.7	0.0	
82569	13	8.7 VH	146 VH	147 VH		52 VL	83 L	1828 H	6.3	6.8		11.2	1.2	6.2	81.6	11.0	

LAB NUMBER	NITRATE-N (FIA)						SULFUR S ICAP ppm RATE	ZINC Zn DTPA ppm RATE	MANGANESE Mn DTPA ppm RATE	IRON Fe DTPA ppm RATE	COPPER Cu DTPA ppm RATE	BORON B SOORB. DTPA ppm RATE	EXCESS LIME RATE	SOLUBLE SALTS 1:1 mmhos/cm RATE
	SUBSOIL 1			SUBSOIL 2										
	ppm	lbs/A	depth (in)	ppm	lbs/A	depth (in)								
296	2	4	0-6				4							
82567	2	4	0-6				4							
82568	5	9	0-6				9							

REV. 12/03

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REPORT NUMBER

16-1110-0411

ACCOUNT

8197

COMPLETED DATE

Apr 21, 2016

RECEIVED DATE

Apr 19, 2016



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www.midwestlabs.com

IDENTIFICATION

OPAL FOODS LLC- SOIL & COMPOST HATHAWAY NEOSHO

BI PRODUCTS
1100 BLAIR AVE
NEOSHO MO 64850-

PAGE 2/2
TODAY'S DATE
Apr 21, 2016

SOIL ANALYSIS REPORT

LAB NUMBER	SAMPLE IDENTIFICATION	ORGANIC MATTER L.O.I. percent RATE	PHOSPHORUS			POTASSIUM		MAGNESIUM		CALCIUM		SODIUM		pH	CATION EXCHANGE CAPACITY C.E.C. meq/100g	PERCENT BASE SATURATION (COMPUTED)			
			P ₁ (WEAK BRAY) 1:7 ppm RATE	P ₂ (STRONG BRAY) 1:7 ppm RATE	OLSEN BICARBONATE P ppm RATE	K ppm RATE	Mg ppm RATE	Ca ppm RATE	Na ppm RATE	% P ₁	% P ₂	% K	% Mg			% Ca	% Na		
296		4.8 VH	119 VH	137 VH		134 H	103 M	1574 VH					6.8	9.1	3.8	9.4	86.8	0.0	
82624 11																			

LAB NUMBER	SURFACE		NITRATE-N (FIA)				SULFUR S ICAP		ZINC Zn DTPA		MANGANESE Mn DTPA		IRON Fe DTPA		COPPER Cu DTPA		BORON B SORB. DTPA		EXCESS LIME RATE		SOLUBLE SALTS mmhos/cm		
	ppm	lbs/A	depth (in)	ppm	depth (in)	ppm	depth (in)	ppm	depth (in)	ppm	depth (in)	ppm	depth (in)	ppm	depth (in)	ppm	depth (in)	ppm	depth (in)	ppm	depth (in)		
296	7	13	0-6																				
82624																							

INFO SHEET: 805185

REV. 12/03

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