

**STATE OF MISSOURI**  
**DEPARTMENT OF NATURAL RESOURCES**

MISSOURI CLEAN WATER COMMISSION



**CONSTRUCTION PERMIT**

The Missouri Department of Natural Resources hereby issues a permit to:

Conception Abbey  
37174 Hwy, VV  
Conception, MO 64433

for the construction of (described facilities):

See attached.

Permit Conditions:

See attached.

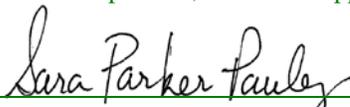
Construction of such proposed facilities shall be in accordance with the provisions of the Missouri Clean Water Law, Chapter 644, RSMo, and regulation promulgated thereunder, or this permit may be revoked by the Department of Natural Resources (Department).

As the department does not examine structural features of design or the efficiency of mechanical equipment, the issuance of this permit does not include approval of these features.

A representative of the department may inspect the work covered by this permit during construction. Issuance of a permit to operate by the department will be contingent on the work substantially adhering to the approved plans and specifications.

This permit applies only to the construction of water pollution control components; it does not apply to other environmentally regulated areas.

September 26, 2016  
Effective Date

  
Sara Parker Pauley, Director, Department of Natural Resources

September 25, 2018  
Expiration Date

  
John Madros, Director, Water Protection Program

## **CONSTRUCTION PERMIT**

### **I. CONSTRUCTION DESCRIPTION**

#### Treatment Plant:

Conversion of an existing single cell lagoon to a no-discharge wastewater treatment system. Lagoon improvements to include new influent sewer line, approximately 800 feet of 8-inch pvc and ductile iron pipe, 3 manholes, grading and reshaping berms, emergency spillway. Lift station from lagoon to absorption field, 4-foot diameter wet well with top matching elevation of lagoon berms, two 1.0 HP pumps (Orenco Model PF 7510, or equal) each with a capacity of 80 GPM at a TDH of 41 feet, filtered pump vaults, controls located in receiving dosing tank.

#### Soil Absorption Field:

A drainfield dosing tank with a nominal volume of 20,000 gallons, four 3.0 HP pumps (Orenco Model PF 5030, or equal) each with a capacity of 41 GPM at a TDH of 185 feet, dual disc filters, 1.5-inch PVC supply line, a soil absorption field with a nominal area of 210,000 square feet (4.8 acres), separated into 12 zones, 6 upper zones each with approximately 7450 lineal feet of drip irrigation pipe, 6 lower zones each with approximately 9950 lineal feet of drip irrigation pipe, 1.5-inch PVC return line, irrigation pipe is Wasteflow PC (0.53 gph) dripline with an emitter rate of 0.53 gallons per hour per dripper, and all the necessary appurtenances to make the facilities complete and usable to treat the waste from a population equivalent of 336, with an average daily dry weather flow of 33,600 gallons, and wet weather flow of 35,830 gpd. This is a non-discharging facility to be located in the SE 1/4, of the NE 1/4, of Section 25, T63N, R34W, Nodaway County, Missouri.

Drainfield approximate location: UTM (zone 15) X=357770, Y=4455400

### **II. COST ANALYSIS FOR COMPLIANCE**

Pursuant to Section 644.145, RSMo, when issuing permits under this chapter that incorporate a new requirement for discharges from publicly owned combined or separate sanitary or storm sewer systems or publicly owned treatment works, or when enforcing provisions of this chapter or the Federal Water Pollution Control Act, 33 U.S.C. 1251 et seq., pertaining to any portion of a publicly owned combined or separate sanitary or storm sewer system or [publicly owned] treatment works, the Department of Natural Resources shall make a “finding of affordability” on the costs to be incurred and the impact of any rate changes on ratepayers upon which to base such permits and decisions, to the extent allowable under this chapter and the Federal Water Pollution Control Act. This process is completed through a cost analysis for compliance. Permits that do not include new requirements may be deemed affordable.

The department is not required to complete a cost analysis for compliance because the facility is not a combined or separate sanitary sewer system for a publically-owned treatment works.

### **III. CONSTRUCTION PERMIT CONDITIONS**

The permittee is authorized to construct subject to the following conditions:

1. This construction permit does not authorize discharge.
2. All construction shall be in accordance with the plans and specifications submitted by Brock Pfost, P.E., White Cloud Engineering & Construction on May 27, 2016; and supplemental information received July 20, 2016 and August 25, 2016.
3. The department must be contacted in writing prior to making any changes to the approved plans and specifications that would directly or indirectly have an impact on the capacity, flow, system layout, or reliability of the proposed wastewater treatment facilities or any design parameter that is addressed by 10 CSR 20-8, in accordance with 10 CSR 20-8.110(8).
4. State and federal law does not permit bypassing of raw wastewater, therefore steps must be taken to ensure that raw wastewater does not discharge during construction. If a sanitary sewer overflow or bypass occurs, report the appropriate information to the department's Kansas City Regional Office per 10 CSR 20-7.015(9)(E)2.
5. This construction permit is invalid for projects required to comply with the requirements contained in 10 CSR 20-4, "Grants and Loans"
6. Protection of drinking water supplies shall be in accordance with 10 CSR 20-8.120(10). "There shall be no physical connections between a public or private potable water supply system and a sewer, or appurtenance thereto which would permit the passage of any wastewater or polluted water into the potable supply. No water pipe shall pass through or come in contact with any part of a sewer manhole."
7. Sewers in relation to water works structures shall meet the requirements of 10 CSR 23-3.010 with respect to minimum distances from public water supply wells or other water supply sources and structures.
  - A. Sewer mains shall be laid at least 10 feet horizontally from any existing or proposed water main. The distances shall be measured edge-to-edge. In cases where it is not practical to maintain a 10 foot separation, the department may allow a deviation on a case-by-case basis, if supported by data from the design engineer. Such a deviation may allow installation of the sewer closer to a water main, provided that the water main is in a separate trench or on an undisturbed earth shelf located on either side of the sewer and at an elevation so the bottom of the water main is at least 18 inches above the top of the sewer. If it is impossible to obtain proper horizontal and vertical separation as described above for sewers, the sewer must be constructed of slip-on or mechanical joint pipe or continuously encased and be pressure tested to 150 pounds per square inch to assure water tightness.
  - B. Manholes should be located at least 10 feet horizontally from any existing or proposed water main.
  - C. Manholes shall be located with the top access at or above grade level.

- D. Sewers crossing water mains shall be laid to provide a minimum vertical distance of 18 inches between the outside of the water main and the outside of the sewer. This shall be the case where the water main is either above or below the sewer. The crossing shall be arranged so that the sewer joints will be equidistant and as far as possible from the water main joints. Where a water main crosses under a sewer, adequate structural support shall be provided for the sewer to maintain line and grade. When it is impossible to obtain proper vertical separation as stipulated above, one of the following methods must be specified:
- a. The sewer shall be designed and constructed equal to the water pipe and shall be pressure tested to assure water tightness prior to backfilling; or
  - b. Either the water main or sewer line may be continuously encased or enclosed in a watertight carrier pipe which extends 10 feet on both sides of the crossing, measured perpendicular to the water main. The carrier pipe shall be of materials approved by the department for use in water main construction.
8. In addition to the requirements for a construction permit, 10 CSR 20-6.200 requires land disturbance activities of one acre or more to obtain a Missouri state operating permit to discharge stormwater. The permit requires best management practices sufficient to control runoff and sedimentation to protect waters of the state. Land disturbance permits will only be obtained by means of the department's ePermitting system available online at [www.dnr.mo.gov/env/wpp/epermit/help.htm](http://www.dnr.mo.gov/env/wpp/epermit/help.htm). See [www.dnr.mo.gov/env/wpp/stormwater/sw-land-disturb-permits.htm](http://www.dnr.mo.gov/env/wpp/stormwater/sw-land-disturb-permits.htm) for more information.
9. A United States (U.S.) Army Corps of Engineers (COE) permit (404) and a Water Quality Certification (401) issued by the department or permit waiver may be required for the activities described in this permit. This permit is not valid until these requirements are satisfied. If construction activity will disturb any land below the ordinary high water mark of jurisdictional waters of the U.S. then a 404/401 will be required. Since the COE makes determinations on what is jurisdictional, you must contact the COE to determine permitting requirements. You may call the department's Water Protection Program at 573-751-1300 for more information. See [www.dnr.mo.gov/env/wpp/401/](http://www.dnr.mo.gov/env/wpp/401/) for more information.

10. Upon completion of construction;

- A. Submit the enclosed form, Statement of Work Completed, to the department in accordance with 10 CSR 20-6.010(5)(D).
- B. Submit an electronic copy of the as-builts. The as-builts shall show the exact location of all constructed features including final location and exact layout of all drip fields and drip lines, air release valves, and pressure sustaining valves.
- C. Submit Form B - Application for an Operating Permit for Domestic or Municipal Wastewater ( $\leq 100,000$  gallons per day) for a general operating permit MOG823xxx. Submit the form to Water Protection Program, P.O. Box 176, Jefferson City, MO 65102.

**IV. REVIEW SUMMARY**

**1. AMMONIA**

The Water Protection Program is providing this notice to inform permittees that EPA's published ammonia criteria for aquatic life protection is lower than the current Missouri criteria. The department has initiated stakeholder discussions on this topic and at this time, there is no firm target date for starting the rulemaking to adopt new standards. More information can be found at <http://dnr.mo.gov/pubs/pub2481.pdf>.

Since this is a no-discharge treatment facility, ammonia limitations are not applicable.

**2. CONSTRUCTION PURPOSE**

This project replaces an existing discharging sewage treatment facility. The new facility will be a no-discharge, soil absorption, drip system.

**3. FACILITY DESCRIPTION**

The existing treatment facility is a discharging lagoon, single cell, with a curtain to form two cells. The design flow of the system is 33,600 GPD. The new treatment facility will use the existing lagoon and send all effluent to a soil absorption drip system. This will be a complete no-discharge system with a dry weather design flow of 33,600 GPD; and a wet-weather design flow of 35,830 GPD. The wet weather design takes into account precipitation that falls onto the lagoon surface (rainfall minus evaporation for the wettest 1 in 10 years).

#### **4. COMPLIANCE PARAMETERS**

The proposed wastewater treatment plant will be a complete no-discharge treatment facility. All liquid waste will be treated and disposed on-site. Periodic removal of waste sludges will be necessary. A Missouri State Operating Permit is required to be maintained. Monitoring of the facility will be required along with keeping records of maintenance activities. There are currently no sampling requirements.

#### **5. REVIEW of MAJOR TREATMENT DESIGN CRITERIA**

Treatment:

The existing single cell lagoon has a curtain installed creating two cells with the second cell being approximately 20% of the total surface area. The total surface area at the 3 foot depth is estimated to be approximately 104,500 square feet. There is an appropriate amount of surface area (for treatment considerations) for the design population equivalent (PE) of 336. The lagoon has an overall depth from the floor to the top of the berm of 8 feet. The minimum water level will be 2 feet above the bottom. The elevation of the emergency spillway will be 1 foot below the top of the berm. There will be 4 feet of working volume from the minimum level (2 feet above bottom) to 2 feet below the top of the berm. The 1 foot between maximum water level and the spill way elevation must remain available to hold precipitation from catastrophic storm events.

A lift station will pump lagoon effluent to the drip system located adjacent to the lagoon but on the other side of a small tributary. Pumps will be controlled by floats in the receiving tank which is the distribution tank for the drip system. Only the amount of water designed to be land applied through the drip system will be pumped from the lagoon. The lagoon will hold any excess water until it can be appropriately land applied. Water below the 2 foot depth in the lagoon will not be pumped. The 1.0 HP pumps have a capacity of 80 GPM and will sit inside effluent filters that have nominal mesh openings of 3 mm.

The design of the soil absorption system includes capacity for wet weather flow resulting from the wettest 1 in 10 year rainfall amount (48") minus evaporation (36"). The additional wet weather flow volume was based on an accumulated precipitation of 12 inches/year. Considering the 12 inches over the surface area of the lagoon (2.5 acres) results in approximately 814,600gallons/year, or 2230 gallons per day.

**Soil Absorption System:**

A drainfield dosing tank with an adjustable working volume of approximately 5200 gallons, four 3.0 HP, effluent pumps, each with a capacity of 41 GPM at a TDH of 185 feet, disc filters located on the discharge line of each pump, Netafim 120 mesh, 2" dual HP manual filters, soil absorption field with a total nominal area of 210,000 square feet (4.8 Acres), separated into 12 zones, with approximately 7450 lineal feet of drip irrigation line in half of the zones and approximately 9950 lineal feet in the other half, the number of lines in each zone varies from 25 to 50; the length of the lines in each zone varies from 200 feet to 300 feet; all lines to be placed 2 feet on center and follow contours, irrigation pipe is Wasteflow PC (0.53 gph) dripline with an emitter rate of 0.53 gallons per hour per dripper, emitters are located every 2 feet, nominal diameter of dripline is 0.5 inch, excess water is returned to the distribution tank through 1.5-inch PVC return lines. Drip lines are designed to be flushed manually on a regular basis. Disc filters are manually cleaned. Absorption field sizes are based on a loading rate of either 0.15 or 0.20 gallons per square foot per day. Detailed soil analysis was performed by Mr. Chris Stiens, Soil Scientist, Advanced Aquatics, Steins Soil Evaluations Inc. The loading rates are in accordance with the recommended rates in the soil report.

**6. OPERATING PERMIT MODIFICATION**

Operating permit MO-0048771 will be replaced with a general permit for land application of wastewater less than 50,000 GPD after the completion of construction. Upon construction completion submit Form B - Application for Operating Permit to Water Protection Program.

Andrew Appelbaum, P.E.  
Engineering Section  
[andy.appelbaum@dnr.mo.gov](mailto:andy.appelbaum@dnr.mo.gov)

MO-0048771

CP0001825

AP22995

C15785



MISSOURI DEPARTMENT OF NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
APPLICATION FOR CONSTRUCTION PERMIT -  
WASTEWATER FACILITY

APP NO.	CP NO.										
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The Application for Construction Permit - Wastewater Facility form is for construction pertaining to domestic wastewater treatment facilities, agrichemical facilities, and components thereof. This form has been developed in a modular format and consists of Part A and B. All applicants must complete Part A. Part B should be completed for applicants who currently land-apply wastewater or propose land application for wastewater treatment. Please read the accompanying instructions before completing this form. Submittal of an incomplete application may result in the application being returned.

- 1.1 Is this a Federal/State funded project?  YES  N/A Funding Agency: SELF Project #: \_\_\_\_\_
  - 1.2 Is this an application for an agrichemical?  YES (See instructions.)  N/A
  - 1.3 Has the Missouri Department of Natural Resources approved the proposed project's antidegradation review?  
 YES Date of Approval: N/A - ZERO DISCHARGE DRIP IRRIGATION.
  - 1.4 Has the department approved the proposed project's facility plan\*?  
 YES Date of Approval: 2/13/16  NO  N/A (If Not Applicable, complete No. 1.4.)
  - 1.5 [Complete only if answered Not Applicable on No. 1.3.] Is a copy of the engineering report\* for wastewater treatment facilities with a design flow less than 22,500 gpd included with this application?  
 YES  NO
  - 1.6 Is a copy of the appropriate plans\* and specifications\* included with this application?  
 YES Denote which form is submitted:  Hard copy  Electronic copy (See instructions.)  NO
  - 1.7 Is a summary of design\* included with this application?  YES  NO
  - 1.8 Is a general operating permit applicable?  
 YES Submit the appropriate operating permit application to the Regional Office at least 60 days prior to operation.  
 NO Enclose the appropriate operating permit application and fee submittal. Denote which form:  B  B2
  - 1.9 Is the facility currently under enforcement with the department or the Environmental Protection Agency?  YES  NO
  - 1.10 Is the appropriate fee included with this application?  YES  NO (See instructions for appropriate fee.)
- \* Must be affixed with a Missouri registered professional engineer's seal, signature and date. ✓

2.1 NAME OF PROJECT CONCEPTION ABBEY SANITARY SEWER IMPV. - 2016

2.2 PROJECT DESCRIPTION MODIFY WWTFF TO ZERO-DISCHARGE DRIP IRRIGATION.

2.3 SLUDGE HANDLING, USE AND DISPOSAL DESCRIPTION  
TO BE RETAINED IN EXISTING LAGOON

2.4 DESIGN INFORMATION  
A. Current population: 220; Design population: 336  
B. Actual Flow: 3000 gpd; Design Average Flow: 33600 gpd;  
Actual Peak Daily Flow: \_\_\_\_\_ gpd; Design Maximum Daily Flow: \_\_\_\_\_ gpd; Design Wet Weather Event: \_\_\_\_\_

2.5 ADDITIONAL INFORMATION  
A. Is a topographic map attached?  YES  NO  
B. Is a process flow diagram attached?  YES  NO (PLANS)

2.6 ESTIMATED PROJECT CONSTRUCTION COST  
\$ 271,000

RECEIVED

FEB 25 2016

8.1 Type of wastewater to be irrigated:  Domestic  State/National Park  Seasonal business  
 Municipal  Municipal with a pretreatment program or significant industrial users  
 Other (explain)

8.2 Months when the business or enterprise will operate or generate wastewater:  
 12 months per year  Part of the year (list months):

8.3 This system is designed for:  
 No-discharge  Subsurface  
 Partial irrigation when feasible and discharge rest of time  
 Irrigation during recreational season, April - October, and discharge during November - March  
 Other (explain)

9.1 Number of storage basins: 1 (Use additional pages if greater than two basins.) EXISTING OPENABLE LAGOON

9.2 Type of basins:  Steel  Concrete  Fiberglass  Earthen  Earthen with membrane liner  
EXISTING

9.3 Storage basin dimensions at inside top of berm (feet). Report freeboard as feet from top of berm to emergency spillway or overflow pipe.  
Basin #1: Length 520' Width 160' Depth 8' Freeboard 3' Depth \_\_\_\_\_ Safety \_\_\_\_\_ % Slope 3/1  
Basin #2: Length \_\_\_\_\_ Width \_\_\_\_\_ Depth \_\_\_\_\_ Freeboard \_\_\_\_\_ Depth \_\_\_\_\_ Safety \_\_\_\_\_ % Slope \_\_\_\_\_

9.4 Storage Basin operating levels (report as feet below emergency overflow level).  
Basin #1: Maximum operating water level 6' ft Minimum operating water level 4' ft  
Basin #2: Maximum operating water level \_\_\_\_\_ ft Minimum operating water level \_\_\_\_\_ ft

9.5 Design depth of sludge in storage basins.  
Basin #1: 2 ft Basin #2: \_\_\_\_\_ ft

9.6 Existing sludge depth, if the basins are currently in operation.  
Basin #1: 1 ft Basin #2: \_\_\_\_\_ ft

9.7 Total design sludge storage: \_\_\_\_\_ dry tons and 169600 cubic feet (2' DESIGN DEPTH)

10.1 Type of land application:  Fixed Head Sprinklers  Center Pivot  Traveling Gun  Drip Dispersal  
 Subsurface Low Pressure Pipe  Other (describe) \_\_\_\_\_

10.2 Number of irrigation sites 1 Total Acres 10 Maximum % field slopes 5%  
Location: SE 1/4, NE 1/4, 1/4, 25 Sec. 03 T 34 R 1000000 County 10 Acres  
Location: \_\_\_\_\_ 1/4, \_\_\_\_\_ 1/4, \_\_\_\_\_ 1/4, \_\_\_\_\_ Sec. \_\_\_\_\_ T \_\_\_\_\_ R \_\_\_\_\_ County \_\_\_\_\_ Acres  
Location: \_\_\_\_\_ 1/4, \_\_\_\_\_ 1/4, \_\_\_\_\_ 1/4, \_\_\_\_\_ Sec. \_\_\_\_\_ T \_\_\_\_\_ R \_\_\_\_\_ County \_\_\_\_\_ Acres  
(Use additional pages if greater than three irrigation sites.)

10.3 Type of vegetation:  Grass hay  Pasture  Timber  Row crops  
 Other (describe) \_\_\_\_\_

10.4 Wastewater flow (dry weather) gallons per day: Average annual 30000 Seasonal \_\_\_\_\_ Off-season \_\_\_\_\_

10.5 Land application rate (design flow including 1-in-10 year storm water flows):  
Design: \_\_\_\_\_ inches/year \_\_\_\_\_ inches/hour \_\_\_\_\_ inches/day \_\_\_\_\_ inches/week  
Actual: \_\_\_\_\_ inches/year \_\_\_\_\_ inches/hour \_\_\_\_\_ inches/day \_\_\_\_\_ inches/week  
SOIL LOADING  
.159 gal/ft<sup>2</sup> + .20 gal/ft<sup>2</sup>

10.6 Total irrigation per year (gallons): Design 12.2M gal Actual: 10.6M gal

10.7 Actual months used for irrigation (check all that apply):  
 Jan  Feb  Mar  Apr  May  Jun  Jul  Aug  Sep  Oct  Nov  Dec

10.8 Land application rate is based on: SOIL MORPHOLOGY  
 Hydraulic Loading  Other (describe) \_\_\_\_\_  
 Nutrient Management Plan (N&P) If N&P is selected, is the plan included?  YES  NO

NAME <i>Conception Abbey</i>		TELEPHONE NUMBER WITH AREA CODE <i>660-582-1158</i>		EMAIL ADDRESS <i>N/A</i>	
ADDRESS (PHYSICAL) <i>37174 Hwy VV</i>		CITY <i>CONCEPTION</i>	STATE <i>MO</i>	ZIP CODE <i>64433</i>	COUNTY <i>Nodaway</i>
Wastewater Treatment Facility: <i>MO-0048771(Outfall 1 Of 1)</i>					
3.1 Legal Description: <i>SE 1/4, NE 1/4, 1/4, Sec. 25, T63, R34</i> (Use additional pages if construction of more than one outfall is proposed.)					
3.2 UTM Coordinates Easting (X):                      Northing (Y): For Universal Transverse Mercator (UTM), Zone 15 North referenced to North American Datum 1983 (NAD83)					
3.3 Name of receiving streams: <i>UNNAMED TRIS. TO WILDCAT CREEK</i>					

NAME <i>Conception Abbey Inc.</i>		TELEPHONE NUMBER WITH AREA CODE <i>660 582 1158</i>		EMAIL ADDRESS	
ADDRESS <i>37174 Hwy VV</i>		CITY <i>CONCEPTION</i>	STATE <i>MO</i>	ZIP CODE <i>64433</i>	

NAME <i>Same as owner</i>		TELEPHONE NUMBER WITH AREA CODE		EMAIL ADDRESS	
ADDRESS		CITY	STATE	ZIP CODE	

5.1 A letter from the continuing authority, if different than the owner, is included with this application.     YES     NO     N/A

5.2 COMPLETE THE FOLLOWING IF THE CONTINUING AUTHORITY IS A MISSOURI PUBLIC SERVICE COMMISSION REGULATED ENTITY.

A. Is a copy of the certificate of convenience and necessity included with this application?     YES     NO

5.3 COMPLETE THE FOLLOWING IF THE CONTINUING AUTHORITY IS A PROPERTY OWNERS ASSOCIATION.

A. Is a copy of the as-filed restrictions and covenants included with this application?     YES     NO

B. Is a copy of the as-filed warranty deed, quitclaim deed or other legal instrument which transfers ownership of the land for the wastewater treatment facility to the association included with this application?     YES     NO

C. Is a copy of the as-filed legal instrument (typically the plat) that provides the association with valid easements for all sewers included with this application?     YES     NO

D. Is a copy of the Missouri Secretary of State's nonprofit corporation certificate included with this application?     YES     NO

ENGINEER NAME / COMPANY NAME <i>Bruce Hoyt White Cloud Eng.</i>		TELEPHONE NUMBER WITH AREA CODE <i>660 582 4111</i>		EMAIL ADDRESS <i>whitecloud@unitedsky.net</i>	
ADDRESS <i>PO Box 468</i>		CITY <i>Maeyville</i>	STATE <i>MO</i>	ZIP CODE <i>64468</i>	

PROJECT OWNER SIGNATURE <i>F. Benedict Neenan</i>		
PRINTED NAME <i>FATHER BENEDET NEENAN</i>		DATE <i>2/16/16</i>
TITLE OR CORPORATE POSITION <i>Business Mgr</i>		TELEPHONE NUMBER WITH AREA CODE <i>660 582 1158</i>
EMAIL ADDRESS		

Mail completed copy to: MISSOURI DEPARTMENT OF NATURAL RESOURCES  
WATER PROTECTION PROGRAM  
P.O. BOX 176  
JEFFERSON CITY, MO 65102-0176