Date: October 2, 2019

Re: Madison County, Paige Township
Application No. 4MP00027*AM
Land Application Management Plan Permit for Procter Camp & Conference Center,
11235 State Route 38 SE, London, OH 43140
Plans Received: September 19, 2019

Issue Date: October 2, 2019
Effective Date: November 1, 2019
Expiration Date: October 31, 2024

The Church Foundation of the Diocese of Southern Ohio
Attn: Amy Boyd
412 Sycamore Street
Cincinnati, OH 45202

Ladies and Gentlemen:

The Ohio Environmental Protection Agency has reviewed the land application management plan submitted pursuant to Ohio Revised Code Section 6111.44 and rule 3745-42-13 of the Ohio Administrative Code. The plan is approved subject to the condition of compliance with all applicable laws, rules, regulations and all the conditions below and in Part I, II and III of this permit.

The entity shall perform the proposed land application in strict accordance with the conditions in this permit and with the method of operation outlined in the land application management plan submitted to the Ohio Environmental Protection Agency. Approval of the land application management plan does not constitute assurance that the proposed operation will be in compliance with all Ohio laws and regulations.

This permit is not an authorization for a discharging land application system. Pursuant to rule 3745-42-13 of the Ohio Administrative Code and rule 3744-42-02 of the Ohio Administrative Code, a discharging land application system requires a permit to discharge (NPDES permit) and a permit to install, in accordance with Chapter 6111 of the Ohio Revised Code. The applicant shall apply for an NPDES permit 180 days prior to operating a discharging land application system and a permit to install prior to installing the land application system.

Any unauthorized discharges to waters of the state must be reported to Ohio EPA (toll free) by calling 1-800-282-9378 within 2 hours of discovery. The director shall be notified in writing within seven days of any person discovering noncompliance with a land application management plan or an NPDES permit.

The applicant is required to submit a revised land application management plan application, if the Director of the Ohio EPA deems it necessary.
The director may add, delete, or change any conditions to a land application management plan permit to protect human health or the environment.

Any expansion of the operation or modification of the treatment works or the expansion or modification of any land application area must be approved by the Ohio EPA.

The director of the Ohio Environmental Protection Agency, or his authorized representative(s), may enter upon the premises of the land application system during its construction or its operation at any reasonable time for the purpose of making inspections, conducting tests, examining records, or reports pertaining to the installation, modification, or operation of the land application system.

Issuance of this permit does not relieve you of the duty of complying with all applicable federal, state, and local laws, ordinances, and regulations.

This permit shall expire at midnight on the expiration date shown above. In order to receive authorization to continue to land apply beyond the date of expiration, you shall submit such information and forms as are required by the Ohio EPA no later than 180 days prior to the above date of expiration.

You are hereby notified that this action of the Director is final and may be appealed to the Environmental Review Appeals Commission pursuant to Section 3745.04 of the Ohio Revised Code. The appeal must be in writing and set forth the action complained of and the grounds upon which the appeal is based. The appeal must be filed with the Commission within thirty (30) days after notice of the Director's action. The appeal must be accompanied by a filing fee of $70.00, made payable to "Ohio Treasurer Josh Mandel", which the Commission, in its discretion, may reduce if by affidavit you demonstrate that payment of the full amount of the fee would cause extreme hardship. Notice of the filing of the appeal shall be filed with the Director within three (3) days of filing with the Commission. Ohio EPA requests that a copy of the appeal be served upon the Ohio Attorney General's Office, Environmental Enforcement Section. An appeal may be filed with the Environmental Review Appeals Commission at the following address:

Environmental Review Appeals Commission  
30 East Broad Street, 4th Floor  
Columbus, Ohio 43215

Sincerely,

Lorie A. Stevenson  
Director

cc: Central District Office  
Madison General Health District  
Mark Stump, DSW, CO
Part I, A. - FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning on the effective date of this permit and lasting until the expiration date, the permittee shall monitor the wastewater treatment plant effluent in accordance with the following limitations and monitoring requirements from outfall 4MP00027601.

Table - Internal Monitoring Station - 601 - Final

<table>
<thead>
<tr>
<th>Effluent Characteristic</th>
<th>Concentration Specified Units</th>
<th>Discharge Limitations</th>
<th>Loading* kg/day</th>
<th>Monitoring Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>00056 - Flow Rate - GPD</td>
<td>- - - - -</td>
<td>1/Day 24hr Total</td>
<td>All</td>
<td></td>
</tr>
<tr>
<td>00400 - pH - S.U.</td>
<td>9.0 6.0 - - - -</td>
<td>1/Quarter Grab</td>
<td>Quarterly</td>
<td></td>
</tr>
<tr>
<td>00530 - Total Suspended Solids - mg/l</td>
<td>- - - 45 - - -</td>
<td>1/Quarter Grab</td>
<td>Quarterly</td>
<td></td>
</tr>
<tr>
<td>00552 - Oil and Grease, Hexane Extr Method - mg/l</td>
<td>10 - - - -</td>
<td>1/Year Grab</td>
<td>August</td>
<td></td>
</tr>
<tr>
<td>00640 - Nitrogen, Inorganic, Total - mg/l</td>
<td>- - - 10 - - -</td>
<td>1/Quarter Grab</td>
<td>Quarterly</td>
<td></td>
</tr>
<tr>
<td>31648 - E. coli - #/100 ml</td>
<td>298 - - - -</td>
<td>1/Quarter Grab</td>
<td>Quarterly</td>
<td></td>
</tr>
<tr>
<td>50045 - Application Rate-Wastewater, Spray - inches/day</td>
<td>- - - - -</td>
<td>When Disch. Calculated</td>
<td>All</td>
<td></td>
</tr>
<tr>
<td>80082 - CBOD 5 day - mg/l</td>
<td>- - - 40 - - -</td>
<td>1/Quarter Grab</td>
<td>Quarterly</td>
<td></td>
</tr>
</tbody>
</table>

Notes for station 4MP00027601:

1. SAMPLING STATION - effluent samples shall be collected at the end of the storage pond prior to discharge into the pump station.

2. "1/Quarter sampling frequency" means the sampling shall be done in the months of March, June, August, and December.
Part II, OTHER REQUIREMENTS

A. The owner, The Church Foundation of the Diocese of Southern Ohio, shall be responsible for proper operation and maintenance of the treated sewage land application system at Procter Camp & Conference Center.

B. Any person land applying treated sewage shall comply with the effluent and monitoring requirements in paragraph (K) of rule 3745-42-13 of the Administrative Code.

C. This permit applies to land application of treated sewage from the Procter Camp & Conference Center wastewater treatment plant, that has been designed to treat an average daily flow of 3925 gpd.

D. Any new site proposed for land application shall be approved by the Director of Ohio EPA prior to the land application of treated sewage. A revised land application management plan, including the information specified in paragraphs (F), (M) and (N) of Rule 3745-42-13 of the Ohio Administrative Code for the new site, shall be submitted to the appropriate Ohio EPA district office, and a new LAMP approval received before the new site is used for land application of treated sewage.

E. Land application of treated sewage shall only occur at times identified in the approved land application management plan.

F. Treated sewage shall be land applied so as to minimize direct human contact, and the potential for creating aerosols and mist.

G. Signs shall be installed at the entrance to each land application area, to inform the public that the land is used for land application of treated sewage. At least one sign shall be posted at each area. Each sign shall include notification that:
   (i) All above ground sewage distribution pipes contain "Non-potable Water that is Not Suitable for Human Consumption"; and
   (ii) If applicable, all nozzles distribute "Non-potable Water that is Not Suitable for Human Consumption".

H. The Ohio EPA shall be notified at least six months prior to the expiration date of any land application contract. Notification shall be sent to Ohio EPA, Division of Surface Water, Central District Office.

I. Records shall be kept in accordance with the approved land application management plan and paragraph (O) of rule 3745-42-13 of the Ohio Administrative Code.
Plan Approval
Treated Sewage Land Application Management Plan

**FOR AGENCY USE ONLY**

<table>
<thead>
<tr>
<th>Application Number:</th>
<th>Date Received: / /</th>
</tr>
</thead>
<tbody>
<tr>
<td>District office: Please check which applies:</td>
<td>District office: Please check which applies:</td>
</tr>
<tr>
<td>☐ Design flow less than 10,000 gpd</td>
<td>☐ Land application rate less than or equal to 12 inches/acre/year</td>
</tr>
<tr>
<td>☐ Design flow greater than or equal to 10,000 gpd</td>
<td>☐ Land Application rate greater than 12 inches/acre/year</td>
</tr>
<tr>
<td>District office: please check which applies:</td>
<td>District office: please indicate recommended term of plan approval (based on compliance record):</td>
</tr>
<tr>
<td>The land application system is:</td>
<td>☐ 5 years</td>
</tr>
<tr>
<td>☐ A discharging land application system; or</td>
<td></td>
</tr>
<tr>
<td>☐ A non-discharging land application system.</td>
<td></td>
</tr>
</tbody>
</table>

**General Information**

<table>
<thead>
<tr>
<th>Applicant:</th>
<th>Procter Camp and Conference Center</th>
</tr>
</thead>
<tbody>
<tr>
<td>Project Name:</td>
<td>Procter Land Application System</td>
</tr>
<tr>
<td>County (ies) that Project is Located in:</td>
<td>Madison</td>
</tr>
<tr>
<td>Treatment Works</td>
<td>Madison</td>
</tr>
<tr>
<td>Land Application Area</td>
<td></td>
</tr>
<tr>
<td>Source(s) of Treated Sewage:</td>
<td>Procter Camp and Conference Center (Treatment Works name)</td>
</tr>
</tbody>
</table>

Operator Certification Class required for the WWTP (check one): [ ] A [ ] B [ ] C [ ] D [ ] E [ ] F

*See Rule 3745-7 of the Ohio Administrative Code for Operator Certification Requirements*

How many hours per week is the operator present at the Treatment Works? ___________________________ hours/week

Check appropriate response:

☑ Initial management plan application ☐ Renewal management plan application ☐ Transfer Application

Is a NPDES permit required for this project? ☐ Yes ☑ No
If yes, state NPDES permit number: ___________________________

If this is a management plan application for a system installed prior to July 1, 2007, skip to Item V.

*(Note: If no NPDES permit is required, this form shall be submitted with a PTI/Plan Approval Application Form A and plan approval fee; if a NPDES permit is required, this form shall be submitted with the NPDES permit application form and NPDES permit application fee – no separate plan approval fee is required. Refer to Rule 3745-42-13 (E) of the Administrative Code for NPDES permit requirements for land application systems.)*

Is Applicant for the Land Application Management Plan the Operator/Owner of the Treatment Plant? ☑ Yes ☐ No
If not, please explain and state who is responsible for monitoring the treatment plant effluent quality: .
At a minimum, the following items shall be included in the land application management plan required by Rule 3745-42-13 of the Administrative Code. Any additional unique features must be described on separate pages and attached to this plan.

### A. Treatment and Storage Information

<table>
<thead>
<tr>
<th>Average Daily Design Flow to the Treatment Works:</th>
<th>3,925 gpd</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average Actual Flow to the treatment works (if existing treatment works):</td>
<td>1,780 gpd</td>
</tr>
</tbody>
</table>

Sewage Treatment Class That Will Be Attained:

- [ ] Class A
- [X] Class B
- [X] Class C (only an option for Land Application Systems with a design flow less than 10,000 gpd)

> Attach a sheet indicating the effluent limits and minimum monitoring frequencies that must be followed in accordance with table (K)(1) of Rule 3745-42-13 of the Administrative Code.

### B. Describe the method or methods used for the storage and land application of treated sewage (including detailed information about the distribution system):

The system consists of 1 storage pond with a capacity of 640,000 gallons with a design surface water depth of 10 feet. The distribution system consists of a pump station and 4 fixed sprinkler heads with application radius of 84 feet covering 0.41 acres per head for a total application zone of 2.01 acres located directly southwest of the treatment works.

### C. Describe the experience of the operator of the land application system in operating a land application system, and state how many hours per week the operator will be working at the land application system location:

Harry White is the maintenance director of the facility and works on sight 40 hours per week with daily time spent on calibration and maintenance of several points on sight. Time will be dedicated as needed to treatment works.

### D. Describe the additional storage volume provided for the treated sewage that will be available for times when land application is not practical or allowable (indicate units):

1 pond containing a capacity of 640,000 gallons of treated sewage or 139 days at maximum flow. The pond is of earthen construction.

### E. Describe the minimum freeboard to be provided in the storage facility (ies) (refer to Table H-3 of Rule 3745-42-13 of the Administrative Code for minimum freeboard requirement, and the design plans – enter most stringent) and how it will be measured and maintained:

Minimum freeboard is set at 3 feet (for an earthen or partially earthen impoundment of more than 10,000 gallons) and will be maintained by planning land application events far in advance of the application based upon the average daily use to avoid possible high water levels. will be measured by a depth gauge clearly indicating 3 feet freeboard.
F. Equipment calibration & maintenance schedule (add more rows as needed):

<table>
<thead>
<tr>
<th>Type of Equipment</th>
<th>Frequency of Calibration</th>
<th>Frequency of Maintenance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lift Station Grinder Pump</td>
<td>Weekly</td>
<td>Yearly</td>
</tr>
<tr>
<td>Force Main Air Relief Valves</td>
<td>N/A</td>
<td>Quarterly</td>
</tr>
<tr>
<td>Irrigation Pump</td>
<td>Monthly</td>
<td>As Needed</td>
</tr>
</tbody>
</table>

Land Application/Irrigation Management

G. Indicate how much treated sewage will be land applied (*check all that apply*) in inches per acre for each month (if zero, enter zero) for each land application area. Attach an additional sheet for each land application area.

<table>
<thead>
<tr>
<th>Land application area location:</th>
<th>(Include County)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 January</td>
<td>0 February</td>
</tr>
<tr>
<td>1.5 July</td>
<td>1.5 August</td>
</tr>
<tr>
<td>1.5 September</td>
<td>1.5 October</td>
</tr>
<tr>
<td>1.5 November</td>
<td>0 December</td>
</tr>
</tbody>
</table>

Hours of the Day that land application may occur. (Please check a.m. or p.m.)

From: _______ a.m. _______ p.m. To: _______ a.m. _______ p.m.

Total Annual Application Rate for the land application area is:

☑ less than or equal to 12 inches/acre/year ☐ greater than 12 inches/acre/year

H. Please provide justification supporting the determination of the land application rate(s) and the total acres required and available for land application, in accordance with paragraphs (E) and (F) of Rule 3745-42-13 of the Administrative Code:

Average yearly water use according to grinder pump logs is 657,000 gallons or 24.19 inch acres. Spread over land application zone of 2.04 acres (four 0.51 acre area solid set sprinkler heads) yields 11.8 inches per acre per year. This is spread over 8 months assuming frozen ground from December to March.
I. Please describe the appropriate weather conditions required for the land application of treated sewage and how they will be determined:

Land application requires no current precipitation and a less than 50% chance of precipitation based on current meteorological forecasts. The ground may not be snow-covered or frozen. The air temp will be above 35 degrees Fahrenheit, and wind velocity below 20 miles per hour. Soil must be bare with no standing water or groundwater within one foot of grade. Conditions must be determined by forecast and visual inspection.

J. Check which land application restrictions are applicable and will be followed (if any of these will not be followed, attach a separate sheet explaining how the requirements of Rule 3745-42-13 of the Administrative Code will be met):

- No land application during precipitation events [x] Will be followed [ ] Allowed per NPDES Permit
- No land application on frozen or snow-covered ground [x] Will be followed [ ] Allowed per NPDES Permit
- No spray irrigation when instantaneous wind speeds exceed 20 miles per hour [x] Will be followed [ ] Will not be followed
- No land application within 10-year floodplain [x] Will be followed [ ] Will not be followed
- No land application in wetlands [x] Will be followed [ ] Will not be followed
- No land application where the land application contract is expired or void [x] Will be followed [ ] Will not be followed
- No land application when the ground is saturated at or near the surface [x] Will be followed [ ] Will not be followed
- Land application will only occur where there is at least 12 inches between final grade and bedrock, sand or gravel lenses, compacted glacial till, and/or normal ground water elevation [x] Will be followed [ ] Will not be followed
- No land application within the emergency management zone of a public water system using surface water or within 1,500 of any drinking water intake, whichever is greater unless the treated sewage meets the water quality standards established for the public water supply use designation under Chapter 3745-1 of the Administrative Code [x] Will be followed [ ] Will not be followed

K. Isolation Distances for Land Application Areas – please indicate the setbacks that will be provided in accordance with rule 3745-42-13(J):

<table>
<thead>
<tr>
<th>Siting Criteria</th>
<th>Minimum Isolation Distance Provided (feet)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Private potable water source not owned by the person applying sewage</td>
<td>300</td>
</tr>
<tr>
<td>Private potable water source owned by the person applying sewage</td>
<td>50</td>
</tr>
<tr>
<td>UIC Class V Injection Well</td>
<td>300</td>
</tr>
<tr>
<td>Sinkhole or Karst Feature</td>
<td>300</td>
</tr>
<tr>
<td>Property line</td>
<td>50</td>
</tr>
<tr>
<td>Human crops that may be eaten raw</td>
<td></td>
</tr>
</tbody>
</table>

L. Please explain how the additional siting criteria for Land Application of Class A Treated Sewage will be met per paragraph (J)(2) of Rule 3745-42-13 of the Administrative Code: [x] N/A
M. Please explain how the additional siting criteria for Land Application of Class B Treated Sewage will be met per paragraph (J)(3) of Rule 3745-42-13 of the Administrative Code:  

\[
\begin{array}{ll}
\times \quad \text{N/A} \\
\end{array}
\]

N. Will Class C treated sewage be land applied in accordance with paragraph (J)(4) of Rule 3745-42-13 of the Administrative Code?  

\[
\begin{array}{ll}
\times \quad \text{Yes} & \quad \square \quad \text{No} \\
\end{array}
\]

* Refer to Paragraph (C), Table J-1 and Paragraphs (J)(2) to (J)(4) of Rule 3745-42-13 of the Administrative Code for minimum required isolation distances for land application areas.

O. Describe how treated sewage will be land applied so as to minimize direct human contact, and the potential for creating aerosols and mist:

Site will be labeled clearly that pipes and sprayer contain treated sewage not fit for human consumption. Application will not occur when wind speed exceeds 20mph or ground is not suitable due to water level, freezing, snow cover, or current precipitation events.

P. Describe or list any other practices that will be used to minimize pollutant discharges or nuisances:

Freeboard of at least 3 feet will be maintained at all times. Land application will follow maintenance plan and LAMP guidelines. Minimum isolation distances will be monitored and maintained. Treatment works will be labeled and secured. Water level and sludge will be monitored and maintained well in advance of potential nuisances.
Q. Will ground water monitoring exemptions for the storage facility or land application site(s) apply? 
   If so, please list which one(s):

   Rule 3745-42-13 paragraph L section 1. exemption for a land application area where less than or equal to 12 inches of class C treated sewage is land applied per acre per year.

If not, describe who is responsible for the ground water monitoring program and indicate when the program was approved by Ohio EPA (see paragraph (L) of Rule 3745-42-13 of the Administrative Code for ground water monitoring requirements):

R. Describe how operation and maintenance records for the land application system will be kept in accordance with Rule 3745-42-13 of the Administrative Code:

   Records shall be kept on forms provided by or approved by the Director of the Ohio EPA and made available upon request by the Director or by the Director's authorized representative. Pollutant sapling records, inflow and outflow monitoring records, and storage impoundment records for freeboard and and days remaining of storage will be kept on file by maintenance director.

S. A record keeping form showing how and where land application records will be kept shall be attached. Records shall be kept in accordance with paragraph (Q) of Rule 3745-42-13 of the Administrative Code.

   □ Ohio EPA's Land Application Record Form or □ Our Own Land Application Record Form is attached.

T. Will the land application system serve two or more homes or treat 10,000 gpd or greater and not be operated by a public entity?

   □ Yes    □ No

   If yes, then the additional information listed in Paragraph (D)(6)(f) of Rule 3745-42-13 of the Administrative Code must be attached with the initial land application management plan.
U. A map locating each land application site shall be attached. Each site shall be labeled “Restricted access site” or “Un-restricted access site”. The map(s) shall show the following items and are considered part of this plan:

- All present and known proposed occupied buildings within 300 feet of the land application area.
- All present and known proposed non occupied buildings within 300 feet of the land application area.
- Developments and Public access areas within 300 feet of the land application area.
- All public sewerage system(s) and their planning area(s) within 1,000 feet of the land application area.
- All drinking water supply intakes or emergency management zones within 1,000 feet of the land application area.
- Location of signs required in accordance with rule 3745-42-13(E)(1).

V. Land Application Systems installed prior to the effective date of Rule 3745-42-13 of the Administrative Code

This section references land application systems that have been installed/in operation prior to July 1, 2007.

Please check which applies:
No treated sewage shall be land applied within the emergency management zone of a public water system using surface water or within one thousand five hundred feet of any drinking water intake, whichever is greater unless the treated sewage meets the water quality standards established for the public water supply use designation under Chapter 3745-1 of the Administrative Code. □ Will be followed □ Will not be followed.

The following items shall be attached for existing land application systems:

- Effluent pollutant sampling and monitoring records for the past five years.
- Flow monitoring records for the past five years.
- A description of how the land application of treated sewage is managed including application rates, setbacks, and the practices that are used to comply with paragraph (E)(1) of Rule 3745-42-13 of the Administrative Code.

Miscellaneous Information:

The following items shall be included with this land application management plan:
- Two copies of the Permit-to-Install/Plan Approval Application Form A or the NPDES Permit Application.
- Two copies of the site and soil evaluation required in accordance with rule 3745-42-13(N).
  (For renewal applications, this is only needed if additional or different areas will be used for land application)
- One copy of the effluent pollutant sampling and flow monitoring records for the last five years. (Renewal Applications Only)
- Four copies of this management plan and any attachments.
- Fee check payable to “Treasurer, State of Ohio.”

The following additional information is included with this form:

Signature: The foregoing data is a true statement of facts pertaining to this proposed land application management plan.

Date: 03/18/2018 Signed: [Signature]

Plan prepared by: [Signature]