June 2, 2021

Re: Shelby County, Salem Township
Application No. 1MP00029*BM
Land Application Management Plan Permit for the Shelby Oaks Golf Course
Plans Received March 22, 2016
From the Shelby Oaks Golf Course

Issue Date: June 2, 2021
Effective Date: July 1, 2021
Expiration Date: June 30, 2026

Shelby Oaks Golf Course
Attn: Robert Fridley
9900 Sidney-Freyburg Rd.
Sidney, Ohio 45365

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 and/or Part II 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 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  
77 South High Street, 17th Floor  
Columbus, Ohio 43215

Sincerely,

________________
Laurie A. Stevenson  
Director

cc: Southwest District Office  
Shelby County Health District
Part I, A. - FINAL EFFlUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning on the effective date and lasting until the expiration date of this permit, the permittee shall monitor the wastewater treatment plant effluent in accordance with the following limitations and monitoring requirements from outfall 1MP00029601:

Table - Internal Monitoring Station - 601 - Final

<table>
<thead>
<tr>
<th>Effluent Characteristic</th>
<th>Parameter</th>
<th>Concentration Specified Units</th>
<th>Discharge Limitations</th>
<th>Loading* kg/day</th>
<th>Measuring Frequency</th>
<th>Sampling Type</th>
<th>Monitoring Months</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Maximum Minimum Weekly Monthly Daily Weekly Monthly</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>00056 - Flow Rate - GPD</td>
<td></td>
<td>- - - - - -</td>
<td></td>
<td></td>
<td>1/Day</td>
<td>24hr Total Estimate</td>
<td>All</td>
</tr>
<tr>
<td>00530 - Total Suspended Solids - mg/l</td>
<td></td>
<td>- - - 45 - - - -</td>
<td></td>
<td></td>
<td>1/Month Grab</td>
<td>All</td>
<td></td>
</tr>
<tr>
<td>00552 - Oil and Grease, Hexane Extr Method - mg/l</td>
<td></td>
<td>10 - - - - - -</td>
<td></td>
<td></td>
<td>1/Year Grab</td>
<td>September</td>
<td></td>
</tr>
<tr>
<td>31648 - E. coli - #/100 ml</td>
<td></td>
<td>298 - - - - - -</td>
<td></td>
<td></td>
<td>1/Month Grab</td>
<td>Summer</td>
<td></td>
</tr>
<tr>
<td>50042 - Area Sprayed, Acres - Acres</td>
<td></td>
<td>- - - - - - -</td>
<td></td>
<td></td>
<td>When Disch. 24hr Total Estimate</td>
<td>March-Nov.</td>
<td></td>
</tr>
<tr>
<td>50045 - Application Rate-Wastewater, Spray - inches/day</td>
<td></td>
<td>- - - - - - -</td>
<td></td>
<td></td>
<td>When Disch. 24hr Total Estimate</td>
<td>March-Nov.</td>
<td></td>
</tr>
<tr>
<td>80082 - CBOD 5 day - mg/l</td>
<td></td>
<td>- - - 40 - - - -</td>
<td></td>
<td></td>
<td>1/Month Grab</td>
<td>All</td>
<td></td>
</tr>
</tbody>
</table>

Notes for station 1MP00029601:

a. Monitoring of flow, total suspended solids, oil and grease, E. coli and CBOD5 shall be of the wastewater treatment plant discharge into the irrigation pond.

b. The area irrigated with water from the storage pond (into which wastewater is discharged) is the acres irrigated on each day. If no irrigation occurs, no entry is required for that day.

c. The inches per day of water in the storage pond that is land applied is determined by using the following formula:

\[
\text{inches/day} = \frac{\text{gal/day irrigated} \times 0.00003683 \text{acre-inch/gal}}{\text{acres applied}}
\]

As an example where 150,000 gallons of water is applied to 20 acres of land:

\[
\text{inches/day} = \frac{150,000 \text{ gpd} \times 0.00003683 \text{ acre-inch/gal/day}}{20 \text{ acres}} = 0.276 \text{ inches/day}.
\]
d. If no waste water is discharged to the irrigation pond and no irrigation from the pond during the entire month, select the "No Discharge" check box on the eDMR form. PIN the eDMR.

e. In addition to flow from the wastewater treatment system, the approximately 5-acre irrigation pond receives surface water and well water.
Part II, LAND APPLICATION REQUIREMENTS

1. Robert Fridley, dba The Shelby Oaks Golf Course shall be responsible for proper operation and maintenance of the treated sewage land application system.

2. Any person land applying treated sewage shall comply with the effluent and monitoring requirements in paragraph (K)(4) of rule 3745-42-13 of the Administrative Code.

3. This permit applies to land application of treated sewage from the Shelby Oaks Golf Course wastewater treatment plant, that has been designed to treat an average daily flow of 2000 gpd.

4. 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.

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

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

7. 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".

8. 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 the Division of Surface Water, in the appropriate Ohio EPA district office.

9. 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

<table>
<thead>
<tr>
<th>FOR AGENCY USE ONLY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application Number:</td>
</tr>
<tr>
<td>District office: Please check which applies:</td>
</tr>
<tr>
<td>☐ Design flow less than 10,000 gpd</td>
</tr>
<tr>
<td>☐ Design flow greater than or equal to 10,000 gpd</td>
</tr>
</tbody>
</table>

| District office: please check which applies: |
| The land application system is: |
| ☐ A discharging land application system; or |
| ☐ A non-discharging land application system. |

<table>
<thead>
<tr>
<th>General Information</th>
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</thead>
<tbody>
<tr>
<td>Applicant:</td>
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<tr>
<td>Project Name:</td>
</tr>
<tr>
<td>County (ies) that Project is Located in:</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Source(s) of Treated Sewage:</td>
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<tr>
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</tbody>
</table>

Operator Certification Class required for the WWTP (check one): ☒ A ☐ I ☐ II ☐ III ☐ IV
(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? 1 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 PTII/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:

Average Daily Design Flow to the Treatment Works: ___________________________ gpd

Average Actual Flow to the treatment works (if existing treatment works): ___________________________ gpd

Sewage Treatment Class That Will be Attained:

[ ] Class A  [ ] Class B

[ ] 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):

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:

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):

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:
### 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>
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</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: ________________________________ (Include County)</th>
</tr>
</thead>
<tbody>
<tr>
<td>January</td>
</tr>
<tr>
<td>---------</td>
</tr>
<tr>
<td>July</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:
I. Please describe the appropriate weather conditions required for the land application of treated sewage and how they will be determined:

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  
No land application on frozen or snow covered ground
No spray irrigation when instantaneous wind speeds exceed 20 miles per hour
No land application within 10-year floodplain
No land application in wetlands
No land application where the land application contract is expired or void
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.
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.

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 land applying sewage</td>
<td></td>
</tr>
<tr>
<td>Private potable water source owned by the person land applying sewage</td>
<td></td>
</tr>
<tr>
<td>UIC Class V Injection Well</td>
<td></td>
</tr>
<tr>
<td>Sinkhole or Karst Feature</td>
<td></td>
</tr>
<tr>
<td>Property line</td>
<td></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:  
  
  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: ☐ N/A

N. Will Class C treated sewage be land applied in accordance with paragraph (J)(4) of Rule 3745-42-13 of the Administrative Code? ☐ Yes ☐ No

* 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:

P. Describe or list any other practices that will be used to minimize pollutant discharges or nuisances:
Q. Will ground water monitoring exemptions for the storage facility or land application site(s) apply?
If so, please list which one(s):

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:

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 (O) 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: 02/04/2021 Signed: [Signature]

Plan prepared by: Choice One Engineering