Memorandum

TO: Keith Berkhout, Kane County Building & Zoning Division
CC: Mark VanKerkhoff, Director, Kane County Development and Community Services Department
Ken Anderson, Director, Kane County Environmental & Water Resources Division
FROM: Julie Wiegel, LEHP, Assistant Director of Environmental Health, Kane County Health Department
DATE: December 7, 2015
RE: Zoning Petition #4364 – 41W400 Silver Glen Road

The Kane County Health Department has reviewed the above petition and has the following comments.

Potable Water System

Provide a copy of the current Illinois Environmental Protection Agency (IEPA) permit to the County. In addition, please provide a copy of the most recent IEPA inspection report for the potable water system to the Health Department.

Wastewater System

Provide a copy of the current IEPA permit to the Health Department.

Food Service

A Food Service Establishment permit is required for any food service establishment where food is prepared and intended for, though not limited to, individual portion service, and includes the site at which individual portions are provided.

An onsite consultation with Kane County Health Department staff will be required to evaluate the current facilities and identify any necessary changes or
updates needed prior to permitting. A plan review is required for any food service area renovations.
LOG NUMBERS: 1163-10

FINAL PLANS, SPECIFICATIONS, APPLICATION
AND SUPPORTING DOCUMENTS
PREPARED BY: Foulkes Utility Resources, Inc.

SUBJECT: GLENWOOD SCHOOL- STP and Spray Irrigation

PERMITTEE TO OWN AND OPERATE

Glenwood School for Boys and Girls
500 West 187th Street
Glenwood, IL 60426

Permit is hereby granted to the above designated permittee to construct, own and operate water pollution control facilities described as follows:

A. Sewage Treatment Facility

A wastewater treatment facility consisting of a 2 cell mechanically aerated lagoon system with turbo-disc filter and chlorination followed by an irrigation system. The first cell contains 88,600 ft³ and the second cell has 255,833 ft³. The design PE is for 160 with a design average flow to the lagoons of 16,000 GPD.

B. Irrigation System

An irrigation system consisting of pop-up nozzles for land application of wastewater effluent on approximately 4.1 acres of landscaped areas around the administration and school buildings with average weekly application rate of approximately 1.5 inches per week. The irrigation system also includes four monitoring wells in order to sample groundwater quality.

This Permit is issued subject to the following Special Condition(s). If such Special Condition(s) require(s) additional or revised facilities, satisfactory engineering plan documents must be submitted to this Agency for review and approval for issuance of a Supplemental Permit.

This Permit renews and replaces Permit Number 2005-GO-5042 which was previously issued for the herein permitted facilities.

SPECIAL CONDITION 1: An irrigation area with drainage tile cannot be operated when the water table level is above the invert of the drainage tile unless the crown of the tile is at least 4 feet from the soil surface.

SPECIAL CONDITION 2: The operation of this slow rate land application system shall be under a certified operator as required under Title 35, Subtitle C, Chapter 1, Part 312-Treatment Plant Operator Certification. This facility, which includes the wastewater treatment plant, irrigation pumps, and land irrigation area(s) shall be under the exclusive control of the certified operator. Control of the irrigation system by anyone other than the certified operator shall be a violation of

THE STANDARD CONDITIONS OF ISSUANCE INDICATED ON THE REVERSE SIDE MUST BE COMPLIED WITH IN FULL. READ ALL CONDITIONS CAREFULLY.

cc: EPA-Des Plaines FOS
    Foulkes Utility Resources, Inc.
    Glenwood School for Boys and Girls
    Records - Municipal
    Binds

Alan Keller, P.E.
Manager, Permit Section
SPECIAL CONDITION 3: Storage of wastewater must be provided when groundwater or saturated soil conditions do not permit irrigation.

SPECIAL CONDITION 4: The land irrigation system shall be operated at an average weekly application rate of 1.60 inches with the following maximum rates depending upon climatic conditions:

- Maximum hour - 0.25 inches
- Maximum day - 1.00 inches
- Maximum week - 3.00 inches

Any precipitation received during the 24 hour period prior to irrigation shall be subtracted from the 1.0 inch maximum day rate to determine the maximum day application rate that can be applied.

SPECIAL CONDITION 5: The operational portion of this permit expires on February 28, 2016 and is subject to renewal at that time.

SPECIAL CONDITION 6: The following monitoring is required:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Data</th>
<th>Sample Frequency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Influent Flow</td>
<td>Monthly Avg., Daily Max. (mgd)</td>
<td>Continuous</td>
</tr>
<tr>
<td>Lagoons</td>
<td>Water Level</td>
<td>Weekly</td>
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<tr>
<td>Groundwater</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1. Nitrate</td>
<td>Conc. (mg/L)</td>
<td>Quarterly</td>
</tr>
<tr>
<td>2. Nitrite</td>
<td>Conc. (mg/L)</td>
<td>Quarterly</td>
</tr>
<tr>
<td>3. NH₃</td>
<td>Conc. (mg/L)</td>
<td>Quarterly</td>
</tr>
<tr>
<td>4. Chloride</td>
<td>Conc. (mg/L)</td>
<td>Quarterly</td>
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<tr>
<td>5. Sulfates</td>
<td>Conc. (mg/L)</td>
<td>Quarterly</td>
</tr>
<tr>
<td>6. pH</td>
<td>Units</td>
<td>Quarterly</td>
</tr>
<tr>
<td>7. Total Dissolved Solids</td>
<td>Conc. (mg/L)</td>
<td>Quarterly</td>
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<tr>
<td>8. Phosphate</td>
<td>Conc. (mg/L)</td>
<td>Quarterly</td>
</tr>
<tr>
<td>9. Fecal Coliform</td>
<td>#/ 100 mL</td>
<td>Quarterly</td>
</tr>
</tbody>
</table>
LOG NUMBERS: 1163-10

FINAL PLANS, SPECIFICATIONS, APPLICATION
AND SUPPORTING DOCUMENTS
PREPARED BY: Poulke Utility Resources, Inc.

SUBJECT: GLENWOOD SCHOOL- STP and Spray Irrigation

Chlorine: Residual of Wastewater Effluent
Applied to Land

<table>
<thead>
<tr>
<th>Conc. (mg/L)</th>
<th>Dally</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wastewater Effluent Applied to Land</td>
<td>Inches/day</td>
</tr>
</tbody>
</table>

Quarterly reports shall be submitted to:

Manager, Region 2
Field Operations Section DWPC
Illinois Environmental-Protection Agency
9511 West Harrison Street
Des Plaines, Illinois 60016

These reports should be received on January 15, April 15, July 15, and October 15 each year.

A copy shall also be submitted to:

Illinois Environmental Protection Agency
Division of Water Pollution Control
Permit Section
1021 North Grand Avenue East
P.O. Box 19278
Springfield, IL 62794-9278
(217) 782-0810

SPECIAL CONDITION 7: The spray irrigation system shall not be operated when the water table in the irrigation area is within 4 feet of the soil surface. A 4 feet layer of soil or more must be maintained in an aerobic condition prior to spray irrigation. The monitoring wells must be monitored for ground water level at the beginning of each irrigation week and the groundwater levels recorded.

SPECIAL CONDITION 8:

A. Treated wastewater shall be applied to sites within the following guidelines:

1. It shall not be applied to sites during precipitation.
2. It shall not be applied to sites which are saturated or with ponded water.
3. It shall not be applied to ice or snow covered sites or when the ground is frozen.
4. It shall not be applied when winds exceed 15 mph.

B. It is recommended that treated wastewater not be applied to the site when precipitation is imminent.

C. Treated wastewater shall not be applied to land which lies within 200 feet from surface waters, intermittent streams, wells or other water supplies.
LOG NUMBERS: 1163-10

FINAL PLANS, SPECIFICATIONS, APPLICATION AND SUPPORTING DOCUMENTS
PREPARED BY: Foulkes Utility Resources, Inc.

SUBJECT: GLENWOOD SCHOOL- STP and Spray Irrigation

SPECIAL CONDITION 9: The outer edge of the area watered by the spray-mist shall not be closer than 200 feet from any existing or proposed potable water supply well.

SPECIAL CONDITION 10: This permit is issued with the expressed understanding that there shall be no surface discharge from these facilities. Should any such discharge be anticipated, the permittee shall apply for an NPDES permit at least 180 days prior to such discharge.
December 14, 2015

Keith Berkhout
Kane County Building & Zoning Division
719 Batavia Avenue
Geneva, IL 60134

Re: Zoning Petition #4364
40W400 Silver Glen Road (Glenwood Academy)
Campton Township

Dear Mr. Berkhout:

We have received the Memorandum dated December 7, 2015 in regards to the above referenced project from Julie Wiegel, LEHP, Assistant Director of Environmental Health, Kane County Health Department. We have listed below the comments along with our responses on the Potable Water System and the Wastewater System.

Potable Water System

Comment 1: Provide a copy of the current Illinois Environmental Protection Agency (IEPA) permit to the county. In addition, please provide a copy of the most recent IEPA inspection report for the potable water system to the Health Department.

Response: The water supply, Facility ID IL0890080 is currently on the inactive list due to low population served. Sheaffer & Roland continues to follow routine sample requirements and independent lab testing of the water supply. Discussions with the IEPA indicate that a change of ownership notification will put the facility back on active status. At that time the local IEPA field office will conduct any necessary inspections of the facility.

Wastewater System

Comment 1: Provide a copy of the current IEPA permit to the Health Department.

Response: A copy of the current permit is attached.
Keith Berkhout  
December 14, 2015  
Page 2 of 2

Should you have any questions, please contact us.

Sincerely,
SHEAFFER & ROLAND, INC.

Jason C. Fowler, P.E.  
Vice President

Enclosure

Cc:   Mark VanKerkhoff, Director, Kane County Development & Community Services Dept.  
     Ken Anderson, Director, Kane County Environmental & Water Resources Division  
     Julie Wiegel, LEHP, Asst. Director of Environmental Health, Kane County Health Dept.