

**Environmental
Protection Agency**

Commissioner, Governor
Deputy Commissioner, Lt. Governor
District Administrator, Director

April 20, 2010

RE: TRUMBULL COUNTY
VIENNA TWP.
AVALON COUNTRY CLUB-SQUAW CREEK
761 YOUNGSTOWN-KINGSVILLE RD.
PERMIT NO. 3PZ00076

Mr. Ron Klinge, CEO
Avalon Country Club – Squaw Creek
761 Youngstown-Kingsville Road
Vienna, OH 44473

Dear Mr. Klinge:

On April 14, 2010, this writer conducted a compliance inspection on the wastewater treatment plant (WWTP) serving the Avalon Country Club-Squaw Creek, located at 761 Youngstown-Kingsville Road, Vienna Township, Trumbull County. The purpose of the inspection was to evaluate the operation and maintenance of the facility prior to renewal of the NPDES permit to discharge. The last compliance inspection was conducted on September 29, 2009.

At the time of the April 14th inspection, the following observations were made:

- 1) The trash trap was in use and its contents were typical.
- 2) The 30,000 gallon aeration tank was being well aerated, and its contents were medium brown in color. The return sludge line was operating and returning brown water. Suspended solids in the aeration tank appeared to be at an acceptable operational concentration.
- 3) The settling tank contents were clear, and the skimmer line was operating and returning clear water. There was a large buildup of solids behind the inlet baffle, and the effluent trough in the settling tank contained some moss and algal growth.
- 4) The pumps in the sand filter dosing station were set in 'AUTO' mode, and were operational when tested manually. The pump station control panel contained a recording flow meter, but no recording paper was present.
- 7) The surface sand filter east cell was in use, and contained some solids and vegetative growth. The west filter cell was not in use, and contained dried solids which had been raked into piles for subsequent removal.
- 8) The chlorination / dechlorination units were not in use, as disinfection is not required from November 1st through April 30th. It is noted that one cap on a tube in the tablet dechlorinator was missing.

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- 9) The aerated sludge holding tank was in use, and was ½ full of medium brown, well aerated sludge.
- 10) The sludge drying beds were clean, and the sand was level.
- 10) Effluent from the WWTP was clear and visually free of solids.

A review of the WWTP operating data for the period of September 1, 2009, through April 1, 2010, was conducted prior to the inspection. The electronic Discharge Monitoring Report (eDMR) data for that period found no NPDES Permit numeric effluent violations.

A review of the data for the same period did find the following reporting frequency or reporting code violations:

**Squaw Creek Country Club
 NPDES Permit No. 3PZ00076
 Frequency Violations
 (Sept. 1, 2009 – April 1, 2010)**

| Reporting Period | Reporting Code | Parameter | Sample Frequency | Expected | Reported | Violation Date |
|------------------|----------------|--------------------------|------------------|----------|----------|----------------|
| October 2009 | 50060 | Chlorine, Total Residual | 1/Day | 1 | 0 | 10/01/2009 |
| October 2009 | 50060 | Chlorine, Total Residual | 1/Day | 1 | 0 | 10/02/2009 |
| October 2009 | 50060 | Chlorine, Total Residual | 1/Day | 1 | 0 | 10/03/2009 |
| October 2009 | 50060 | Chlorine, Total Residual | 1/Day | 1 | 0 | 10/04/2009 |
| October 2009 | 50060 | Chlorine, Total Residual | 1/Day | 1 | 0 | 10/05/2009 |
| October 2009 | 00010 | Water Temperature | 1/Day | 1 | 0 | 10/07/2009 |
| October 2009 | 00083 | Color, Severity | 1/Day | 1 | 0 | 10/07/2009 |
| October 2009 | 01330 | Odor, Severity | 1/Day | 1 | 0 | 10/07/2009 |
| October 2009 | 01350 | Turbidity, Severity | 1/Day | 1 | 0 | 10/07/2009 |
| October 2009 | 50060 | Chlorine, Total Residual | 1/Day | 1 | 0 | 10/07/2009 |
| October 2009 | 00010 | Water Temperature | 1/Day | 1 | 0 | 10/08/2009 |
| October 2009 | 00083 | Color, Severity | 1/Day | 1 | 0 | 10/08/2009 |
| October 2009 | 01330 | Odor, Severity | 1/Day | 1 | 0 | 10/08/2009 |
| October 2009 | 01350 | Turbidity, Severity | 1/Day | 1 | 0 | 10/08/2009 |
| October 2009 | 50060 | Chlorine, Total Residual | 1/Day | 1 | 0 | 10/08/2009 |
| October 2009 | 00010 | Water Temperature | 1/Day | 1 | 0 | 10/09/2009 |
| October 2009 | 00083 | Color, Severity | 1/Day | 1 | 0 | 10/09/2009 |
| October 2009 | 01330 | Odor, Severity | 1/Day | 1 | 0 | 10/09/2009 |
| October 2009 | 01350 | Turbidity, Severity | 1/Day | 1 | 0 | 10/09/2009 |
| October 2009 | 50060 | Chlorine, Total Residual | 1/Day | 1 | 0 | 10/09/2009 |
| October 2009 | 50060 | Chlorine, Total Residual | 1/Day | 1 | 0 | 10/10/2009 |
| October 2009 | 50060 | Chlorine, Total Residual | 1/Day | 1 | 0 | 10/11/2009 |

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| Reporting Period | Reporting Code | Parameter | Sample Frequency | Expected | Reported | Violation Date |
|------------------|----------------|--------------------------|------------------|----------|----------|----------------|
| October 2009 | 50060 | Chlorine, Total Residual | 1/Day | 1 | 0 | 10/12/2009 |
| October 2009 | 50060 | Chlorine, Total Residual | 1/Day | 1 | 0 | 10/14/2009 |
| October 2009 | 50060 | Chlorine, Total Residual | 1/Day | 1 | 0 | 10/15/2009 |
| October 2009 | 50060 | Chlorine, Total Residual | 1/Day | 1 | 0 | 10/16/2009 |
| October 2009 | 50060 | Chlorine, Total Residual | 1/Day | 1 | 0 | 10/17/2009 |
| October 2009 | 50060 | Chlorine, Total Residual | 1/Day | 1 | 0 | 10/18/2009 |
| October 2009 | 50060 | Chlorine, Total Residual | 1/Day | 1 | 0 | 10/19/2009 |
| October 2009 | 00010 | Water Temperature | 1/Day | 1 | 0 | 10/21/2009 |
| October 2009 | 00083 | Color, Severity | 1/Day | 1 | 0 | 10/21/2009 |
| October 2009 | 01330 | Odor, Severity | 1/Day | 1 | 0 | 10/21/2009 |
| October 2009 | 01350 | Turbidity, Severity | 1/Day | 1 | 0 | 10/21/2009 |
| October 2009 | 50060 | Chlorine, Total Residual | 1/Day | 1 | 0 | 10/21/2009 |
| October 2009 | 00010 | Water Temperature | 1/Day | 1 | 0 | 10/22/2009 |
| October 2009 | 00083 | Color, Severity | 1/Day | 1 | 0 | 10/22/2009 |
| October 2009 | 01330 | Odor, Severity | 1/Day | 1 | 0 | 10/22/2009 |
| October 2009 | 01350 | Turbidity, Severity | 1/Day | 1 | 0 | 10/22/2009 |
| October 2009 | 50060 | Chlorine, Total Residual | 1/Day | 1 | 0 | 10/22/2009 |
| October 2009 | 00010 | Water Temperature | 1/Day | 1 | 0 | 10/23/2009 |
| October 2009 | 00083 | Color, Severity | 1/Day | 1 | 0 | 10/23/2009 |
| October 2009 | 01330 | Odor, Severity | 1/Day | 1 | 0 | 10/23/2009 |
| October 2009 | 01350 | Turbidity, Severity | 1/Day | 1 | 0 | 10/23/2009 |
| October 2009 | 50060 | Chlorine, Total Residual | 1/Day | 1 | 0 | 10/23/2009 |
| October 2009 | 50060 | Chlorine, Total Residual | 1/Day | 1 | 0 | 10/24/2009 |
| October 2009 | 50060 | Chlorine, Total Residual | 1/Day | 1 | 0 | 10/25/2009 |
| October 2009 | 50060 | Chlorine, Total Residual | 1/Day | 1 | 0 | 10/26/2009 |
| October 2009 | 50060 | Chlorine, Total Residual | 1/Day | 1 | 0 | 10/28/2009 |
| October 2009 | 50060 | Chlorine, Total Residual | 1/Day | 1 | 0 | 10/29/2009 |
| October 2009 | 00010 | Water Temperature | 1/Day | 1 | 0 | 10/30/2009 |
| October 2009 | 00083 | Color, Severity | 1/Day | 1 | 0 | 10/30/2009 |
| October 2009 | 01330 | Odor, Severity | 1/Day | 1 | 0 | 10/30/2009 |
| October 2009 | 01350 | Turbidity, Severity | 1/Day | 1 | 0 | 10/30/2009 |
| October 2009 | 50060 | Chlorine, Total Residual | 1/Day | 1 | 0 | 10/30/2009 |
| October 2009 | 50060 | Chlorine, Total Residual | 1/Day | 1 | 0 | 10/31/2009 |

Items which need operation / maintenance attention are:

- 1) The solids buildup behind the inlet baffle in the settling tank needs to be removed. The sides of the settling tank should also be scraped down, to ensure all solids are settling and available for return to the aeration tank.
- 2) The effluent trough in the settling tank should have any algal growth or solids removed from the trough.

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- 3) Any vegetative growth or solids in the surface sand filters should be removed and disposed of properly.
- 4) Chlorination / dechlorination tablets will need to be utilized in the disinfection units beginning May 1st. Also, the one missing tube cap for the tablet dechlorinator should be replaced.
- 5) The flow meter for the WWTP should be checked for proper operation, as a reliable means of flow measurement must be utilized for reporting daily flows at the plant.

Proper operation and maintenance practices should continue to be implemented, which will enable the WWTP to continuously meet its NPDES Permit effluent limits.

If there are questions or comments regarding the contents of this letter, please contact this office.

Respectfully,



Charles E. Allen
Environmental Engineer
Division of Surface Water

CEA/mt

File: SP/Trumbull/ViennaTwp/Avalon Country Club-Squaw Creek