



**Environmental
Protection Agency**

John Kasich Governor
Frank Taylor Lt. Governor
Robert Smith Director

September 6, 2012

Mr. Ray Withers, Superintendent
Knox County Division of Water/Wastewater
17602 Coshocton Avenue
Mount Vernon, OH 43050

**Re: NPDES/Industrial
Pleasant View Acres WWTP
Reconnaissance Inspection
Knox County**

Dear Mr. Withers:

On August 23, 2012, a Reconnaissance Inspection was conducted at the Pleasant View Acres WWTP located near Amity, Ohio. Present for the inspection were you and Jason Figgins representing the Knox County Division of Water/Wastewater, and myself from the Ohio EPA, Central District Office, Division of Surface Water. The purpose of the inspection was to evaluate compliance with terms and conditions of your effective NPDES permit since the last inspection was conducted in April 2011.

The inspection raised several concerns which must be addressed in the following areas:

Solids accumulations in treatment lagoons – Please evaluate the depth of solids accumulations in the lagoons and remove solids if necessary. Removing solids from the lagoon will increase the detention time and may facilitate compliance with CBOD limits.

Permit Violations - Please ensure that written responses are provided for all NPDES permit violations. The responses should include an explanation as to what caused the violations and a description of the corrective actions that are proposed to prevent future violations.

Enclosed is a copy of the NPDES Reconnaissance Inspection Report and attachments detailing the inspection that was conducted at the plant. If you have any questions or comments concerning this report, please contact me at (614) 728-3848.

Sincerely,

Michael E. Sapp
Environmental Specialist
Compliance and Enforcement Section
Division of Surface Water
Central District Office

Enclosures

MES/nsm Pleasantview Acres 12

Central District Office
50 West Town Street, Suite 700
P.O. Box 1049
Columbus, OH 43216-1049

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NPDES Compliance Inspection Report

SECTION A: NATIONAL DATA SYSTEM CODING

| | | | | |
|-----------------|------------|-----------------|---------------------|----------------------------|
| Permit # | NPDES # | Inspection Type | Inspector | Facility Type |
| 4PG00042 | OH0081671 | RI | S | Public |
| Inspection Date | Entry Time | Exit Time | Notice of Violation | Significant Non-Compliance |
| 8/23/2012 | 9:30 AM | 10:15 AM | No | No |

SECTION B: FACILITY DATA

| | |
|---|------------------------|
| Name and Location of Facility Inspected | Permit Effective Date |
| Pleasant View Acres WWTP State Route 3 and Township Road 271 Monroe Township, Knox County | 6/1/2011 |
| | Permit Expiration Date |
| | 5/31/2016 |
| Name(s) and Title(s) of On-Site Representatives | Phone Numbers |
| Jason Figgins, Plant Superintendent | (740) 599-6102 |
| Ray Withers, Superintendent of Water and Wastewater | (614) 312-1748 |
| Name and Title of Responsible Official | Phone Number |
| Ray Withers, Superintendent of Water and Wastewater | (614) 312-1748 |

SECTION C: AREAS EVALUATED DURING INSPECTION

Key: S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated

| | | |
|---|--------------------------|---|
| S | NPDES Compliance | Please submit responses to all NPDES violations |
| S | Operations & Maintenance | |
| S | Facility Site Review | |
| S | Collection System | |
| M | Flow Measurement | More accurate means of flow estimation should be utilized |
| M | Receiving Waters | Marginal due to recent CBOD violations |
| S | Laboratory | |

Comments:

Signatures

| | |
|---|--|
|  9/6/12 |  9/6/12 |
| Michael Sapp, Inspector Compliance & Enforcement Division of Surface Water Central District Office | Erin Sherer, Reviewer Compliance & Enforcement Supervisor Division of Surface Water Central District Office |

ADDITIONAL INFORMATION
Pleasant View Acres
4PG00042*ED – OH0081671

General

The Pleasant View Acres WWTP is a facultative lagoon system with a continuous discharge to Little Schenck Creek. The lagoons have a design capacity of 24,000 gpd. The lagoon system consists of two cells which are operated in series. Each lagoon has a surface area of approximately 1.25 acres and a functional water depth of four feet. A splitter box upstream of the two lagoons is used to transfer the influent waste stream between the two lagoons. The plant serves a subdivision consisting of approximately 56 homes.

At the time of the inspection, the following general observations were made with operational practices at the facility:

1. The line from the splitter box to the north lagoon is clogged so the influent flow is directed first to south lagoon then to the north lagoon. The County has attempted to clear this line without success.
2. Effluent flows are estimated by counting how many seconds it takes to fill a one liter container. During the previous inspection, we discussed modifying this technique to utilize a larger container to collect the sample and a watch to record the time. Jason Figgins indicated that the means of flow estimation was not modified due to potential safety concerns. I would recommend that the method of flow estimation be reevaluated following the installation of chlorination and dechlorination facilities.
3. The average daily flow from this facility is approximately 6,000 gpd. Peak flows experienced since the previous inspection vary from 43,000-60,000 gpd. Peak flows as high as 210,000 gpd were noted during the previous inspection.
4. The attached table contains a list of NPDES permit violations since the last inspection was conducted in April 2011. The two CBOD violations in June 2012 represent a significant reduction in the number of violations as compared to the previous inspection. Please ensure that written responses are provided for all violations. The responses should include an explanation as to what caused the violations and a description of the corrective actions that are proposed to prevent future violations.
5. Please evaluate the depth of solids accumulations in the lagoons and remove solids if necessary. Removing solids from the lagoon will increase the detention time and may facilitate compliance with CBOD limits.
7. The effective NPDES permit contains a schedule of compliance for the installation of disinfection facilities if the plant can't consistently meet final limits for E. coli. The schedule requires the submittal of a PTI no later than June 1, 2012 and compliance with final limits not later than June 1, 2013. The county received an approved PTI in July 2012 and anticipates the installation of chlorination and dechlorination facilities before May 2013.

Compliance Data for Pleasant View Acres WWTP between 4/1/2011 to 8/1/2012

Summary

Permit Effluent Limit Violations: 2
 Permit Effluent Code Violations: 15
 Permit Effluent Frequency Violations: 4
 Compliance Schedule Violations: 1

| Limit Violations | | | | | | |
|------------------|---------|------------|------------|-------|----------------|----------------|
| Reporting Period | Station | Parameter | Limit Type | Limit | Reported Value | Violation Date |
| June 2012 | 001 | CBOD 5 day | 30D Conc | 25 | 55. | 6/1/2012 |
| June 2012 | 001 | CBOD 5 day | 7D Conc | 40 | 55. | 6/1/2012 |

| Code Violations | | | | |
|------------------|---------|---------------------|----------------|----------------|
| Reporting Period | Station | Parameter | Reported Value | Violation Date |
| April 2011 | 001 | Color, Severity | AF | 4/20/2011 |
| April 2011 | 001 | Odor, Severity | AF | 4/20/2011 |
| April 2011 | 001 | Turbidity, Severity | AF | 4/20/2011 |
| April 2011 | 001 | Flow Rate | AF | 4/20/2011 |
| May 2011 | 001 | E. coli | AK | 5/27/2011 |
| August 2011 | 001 | E. coli | AK | 8/19/2011 |
| August 2011 | 001 | E. coli | AK | 8/26/2011 |
| September 2011 | 001 | E. coli | AK | 9/7/2011 |
| March 2012 | 001 | Color, Severity | AF | 3/15/2012 |
| March 2012 | 001 | Odor, Severity | AF | 3/15/2012 |
| March 2012 | 001 | Turbidity, Severity | AF | 3/15/2012 |
| March 2012 | 001 | Flow Rate | AF | 3/15/2012 |
| May 2012 | 001 | E. coli | AK | 5/4/2012 |
| June 2012 | 001 | E. coli | AK | 6/6/2012 |
| July 2012 | 001 | E. coli | AK | 7/25/2012 |

| Frequency Violations | | | | | | |
|----------------------|---------|---------------------|------------------|----------|----------|----------------|
| Reporting Period | Station | Parameter | Sample Frequency | Expected | Reported | Violation Date |
| November 2011 | 001 | Color, Severity | 2/Week | 2 | 1 | 11/22/2011 |
| November 2011 | 001 | Odor, Severity | 2/Week | 2 | 1 | 11/22/2011 |
| November 2011 | 001 | Turbidity, Severity | 2/Week | 2 | 1 | 11/22/2011 |
| November 2011 | 001 | Flow Rate | 2/Week | 2 | 1 | 11/22/2011 |

| Missing Compliance Schedule Milestones | | | | |
|--|-----------------|------------|---------------|--------------------------------|
| Schedule Due Date | Completion Date | Event Code | Schedule Type | Schedule Milestone |
| June 2013 | | 5699 | Construction | Final Compliance w/ Eff Limits |

Flow Data for Pleasant View Acres WWTP between 4/1/2011 and 8/1/2012

| | Date | Flows (MGD) |
|--------------------------|------------|-------------|
| Ten Highest Flows | 3/14/2012 | 0.060 |
| | 10/19/2011 | 0.043 |
| | 7/5/2012 | 0.043 |
| | 12/20/2011 | 0.021 |
| | 12/21/2011 | 0.021 |
| | 1/26/2012 | 0.021 |
| | 1/27/2012 | 0.021 |
| | 10/28/2011 | 0.014 |
| | 12/27/2011 | 0.014 |
| | 12/28/2011 | 0.014 |
| Average Flow Rate | | 0.009 |