



State of Ohio Environmental Protection Agency

Northwest District Office

347 North Dunbridge Road
Bowling Green, OH 43402-9398

TELE: (419) 352-8461 FAX: (419) 352-8468
www.epa.state.oh.us

Ted Strickland, Governor
Lee Fisher, Lieutenant Governor
Chris Korleski, Director

Re: Richland County
Pin Oak MHP
NPDES Permit

August 24, 2007

Mr. John Szalay, Owner
Pin Oak MHP
581 Lake of the Woods Boulevard
Akron, Ohio 44333

Dear Mr. Szalay:

On August 16, 2007, an inspection was made of the wastewater treatment facilities serving the Pin Oak MHP located at 1121 Clayberg Road, Greenwich, Richland County. Ray Reed, the new park manager, was present to grant access to the plant and answer any questions that I had.

At the time of the inspection the plant was operating with all major treatment units in service. The flow splitter box was surcharged. Mr. Reed indicated that the transfer pipe in the older treatment plant becomes clogged and causes the surcharge. An excessive amount of grease and trash was evident in the old treatment plant. It is apparent that the trash trap may not be functioning correctly and is allowing excessive grease and trash to enter the plant and clog the lines. We opened the trash trap and observed a thick layer of grease floating around the discharge pipe. The trash trap should be cleaned out. A more rigorous pumping schedule may be needed in order to prevent trash and grease from flowing into the plant. Mr. Reed indicated that the pipes in the old treatment plant frequently clog. The other operations at the plant were acceptable. A clear effluent was being discharged from the chlorine contact tank.

A review of the monthly reports submitted for the time period of January through July 2007, revealed that the plant is closer to meeting the NPDES permit limits, however exceedences are still occurring. A printout of these violations is enclosed for your review. It is clear that some type of upgrades will be required in order for the plant to meet permit limits. A schedule of compliance will be included in the next NPDES permit renewal requiring the installation of flow equalization facilities as well as a new flow splitter box. The review of the monthly reports also showed that values for odor, color, and turbidity are only occurring once per week. Your permit requires that these values be observed every day. Mr. Reed indicated that he is at the plant every day. It would be acceptable for him to record these values on the days when McGhee's Inc., your certified operator, does not visit the plant.

Mr. John Szalay, Owner
August 24, 2007
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Please be aware that your NPDES permit expires May 31, 2008. A completed renewal application shall be submitted no later than November 31, 2007.

Please call me at 419-373-3070 if you have any questions.

Sincerely,



Walter Ariss
Environmental Specialist II
Division of Surface Water

/llr

Enclosure

pc: DSW-NWDO File
Lonnie McGhee, McGhee's Technical Water Service Inc.

OHIO ENVIRONMENTAL PROTECTION AGENCY
 OPERATION AND MAINTENANCE INSPECTION
 WWTP'S LESS THAN 25,000 GPD

NPDES Permit No. 2PR00072

Facility Name Pin Oak MHP Expiration Date 5/31/08
 Facility Address 1121 Clayberg Rd Date 8/16/07 Time 4:15 am
 City Greenwich County Richland Township _____
 Name and Address of Owner John Szalay
 Person Contacted John Szalay, Ray Reed Owner Phone _____
 Flow: Design 30,000 GPD Present 21,000-28,000 GPD (metered - estimated)
 Trib. Pop. _____ (actual - estimated) Weather at time of inspection: Temp 82° cloudy
 OEPA Personnel Walter Aciss District NWDO

1. Plant Effluent - Mark Severity No.

| No. | Severity Description | No. | Turbidity | No. | Odor | No. | Color |
|-----|----------------------|-------------------------------------|--------------|-------------------------------------|--------|-------------------------------------|-----------|
| 0 | None | <input checked="" type="checkbox"/> | Clear | <input checked="" type="checkbox"/> | None | <input checked="" type="checkbox"/> | Colorless |
| 1 | Mild | | | | | | |
| 2 | Moderate | | Light Solids | | Musty | | Grey |
| 3 | Serious | | | | | | |
| 4 | Extreme | | Heavy Solids | | Septic | | Black |

2. Effect of effluent on Receiving Stream Name: unnamed trib Black Fork Mohican

| No. | Severity Description | No. | Turbidity | No. | Odor | No. | Color |
|-----|----------------------|-------------------------------------|--------------|-------------------------------------|--------|-------------------------------------|-----------|
| 0 | None | <input checked="" type="checkbox"/> | Clear | <input checked="" type="checkbox"/> | None | <input checked="" type="checkbox"/> | Colorless |
| 1 | Mild | | | | | | |
| 2 | Moderate | | Light Solids | | Musty | | Grey |
| 3 | Serious | | | | | | |
| 4 | Extreme | | Heavy Solids | | Septic | | Black |

3. a. Plant has _____ excellent good _____ fair _____ poor operation
 b. Plant has _____ excellent good _____ fair _____ poor maintenance
 c. Sand filters have _____ excellent good _____ fair _____ poor maintenance

d. Not operating at expected efficiency due to:

- (1) _____ hydraulic overload
 (2) _____ organic/ solids overload
 (3) _____ personnel inefficiency
 (4) _____ equipment failure
 (5) _____ wastes
 (6) _____

| Disinfection: (Required May 1 thru Oct.31.) | |
|---|------------------------------|
| IN | OUT |
| <input checked="" type="checkbox"/> | _____ Chlorination Tablets |
| <input checked="" type="checkbox"/> | _____ Dechlorination Tablets |
| _____ | _____ U.V. |

Yes No
 4. Compliance with NPDES Permit

Periodic Violations Y N Parameters: _____
 Chronic Violations TSS, BOD, NH₃

5. Adequate plant safety
 6. Operation and Maintenance Service

Name McGhee's TWSI - since Feb

Frequency of Visits 1/week

Facility Name: Pin Oak MHD

| Process | # Units | Unit | If Needed - Description and Comments |
|---------------------|---------|-------------------------------------|--|
| Preliminary | 2 | Trash Trap | Pumping Frequency: ? <i>needs to be pumped out</i> |
| | | Grease Trap | Pumping Frequency: |
| | | Bar Screen | |
| | | Comminutor | |
| | 2 | Flow Separation Splitter | Box is surcharged, cause most flow to go to plant <i>plant</i> |
| Aeration Equipment | | Plant Timer ___ Y 2 N | Cycle Time: |
| | 2 | Motor/ Blower Unit <i>running</i> | |
| Secondary Treatment | 2 | Aeration Tank | Color: <i>good</i> Adequate Aeration: Y 2 N ___ |
| Final Settling | 2 | Clarifier | <i>old plant clarifier has excessive grease & trash</i> <i>new plant okay</i> |
| | 2 | Sludge Return | In 2 Out ___ |
| | 2 | Surface Skimmer | In ___ Out 2 |
| | | Fixed Media Clarifier | |
| Tertiary Treatment | 2 | Surface Sand Filter | <i>1 filter dirty - just switched</i> <i>3 clean</i> |
| | | Polishing Pond | |
| | | Other | |
| Disinfection | 2 | Chlorine Tube Feeder | <i>ok</i> |
| | 2 | Dechlorination Tube Feeder | <i>ok</i> |
| | | Ultraviolet (UV) | |
| Flow Metering | | Elapsed Pump Time | |
| | | Recorder (continuous total) | |
| Pumps | | Raw Wastewater (type) | |
| | 2 | Sand Filter Effluent Dosing | <i>ok</i> |
| Sludge Handling | 2 | Aerated Storage Tank | <i>ok</i> |
| | 2 | Sludge Drying Bed | <i>sludge dried on south bed, north bed still wet</i> |
| Sludge Disposal | | Municipal POTW | |
| | 2 | Landfill | <i>okay to landfill sludge be sure to keep track of total weight</i> |
| | | Land Application | |
| Advanced Treatment | | Post Aeration | |
| | | Spray Irrigation | |
| | | Other | |

Pin Oak MHP NPDES permit limit violations
January 2007 through July 2007

| Permit No. | Reporting Period | Station | Reporting Code | Parameter | Limit Type | Limit | Reported Value | Violation Date |
|-------------|------------------|---------|----------------|-------------------------|------------|-------|----------------|----------------|
| 2PR00072*CD | February 2007 | 001 | 00530 | Total Suspended Solids | 30D Conc | 12 | 43.2 | 2/1/2007 |
| 2PR00072*CD | February 2007 | 001 | 00530 | Total Suspended Solids | 7D Conc | 18 | 74 | 2/1/2007 |
| 2PR00072*CD | February 2007 | 001 | 00530 | Total Suspended Solids | 30D Qty | 1.36 | 3.41029 | 2/1/2007 |
| 2PR00072*CD | February 2007 | 001 | 00530 | Total Suspended Solids | 7D Qty | 2.04 | 5.88189 | 2/1/2007 |
| 2PR00072*CD | February 2007 | 001 | 00610 | Nitrogen, Ammonia (NH3) | 30D Conc | 6.8 | 7.8145 | 2/1/2007 |
| 2PR00072*CD | February 2007 | 001 | 80082 | CBOD 5 day | 30D Conc | 10 | 42.3 | 2/1/2007 |
| 2PR00072*CD | February 2007 | 001 | 80082 | CBOD 5 day | 7D Conc | 15 | 60 | 2/1/2007 |
| 2PR00072*CD | February 2007 | 001 | 80082 | CBOD 5 day | 30D Qty | 1.14 | 3.31566 | 2/1/2007 |
| 2PR00072*CD | February 2007 | 001 | 80082 | CBOD 5 day | 7D Qty | 1.7 | 4.7691 | 2/1/2007 |
| 2PR00072*CD | February 2007 | 001 | 00610 | Nitrogen, Ammonia (NH3) | 7D Conc | 10.2 | 14.7 | 2/15/2007 |
| 2PR00072*CD | February 2007 | 001 | 80082 | CBOD 5 day | 7D Conc | 15 | 24.6 | 2/15/2007 |
| 2PR00072*CD | February 2007 | 001 | 80082 | CBOD 5 day | 7D Qty | 1.7 | 1.86222 | 2/15/2007 |
| 2PR00072*CD | March 2007 | 001 | 00530 | Total Suspended Solids | 30D Conc | 12 | 20.8 | 3/1/2007 |
| 2PR00072*CD | March 2007 | 001 | 00530 | Total Suspended Solids | 7D Conc | 18 | 25.6 | 3/1/2007 |
| 2PR00072*CD | March 2007 | 001 | 00530 | Total Suspended Solids | 30D Qty | 1.36 | 1.44133 | 3/1/2007 |
| 2PR00072*CD | March 2007 | 001 | 00610 | Nitrogen, Ammonia (NH3) | 30D Conc | 6.8 | 11.16 | 3/1/2007 |
| 2PR00072*CD | March 2007 | 001 | 80082 | CBOD 5 day | 30D Conc | 10 | 38.4 | 3/1/2007 |
| 2PR00072*CD | March 2007 | 001 | 80082 | CBOD 5 day | 7D Conc | 15 | 47.4 | 3/1/2007 |
| 2PR00072*CD | March 2007 | 001 | 80082 | CBOD 5 day | 30D Qty | 1.14 | 2.66275 | 3/1/2007 |
| 2PR00072*CD | March 2007 | 001 | 80082 | CBOD 5 day | 7D Qty | 1.7 | 3.76759 | 3/1/2007 |
| 2PR00072*CD | March 2007 | 001 | 00610 | Nitrogen, Ammonia (NH3) | 7D Conc | 10.2 | 13.2 | 3/15/2007 |
| 2PR00072*CD | March 2007 | 001 | 80082 | CBOD 5 day | 7D Conc | 15 | 29.4 | 3/15/2007 |
| 2PR00072*CD | April 2007 | 001 | 80082 | CBOD 5 day | 30D Conc | 10 | 12.3 | 4/1/2007 |
| 2PR00072*CD | April 2007 | 001 | 80082 | CBOD 5 day | 7D Conc | 15 | 19.2 | 4/15/2007 |
| 2PR00072*CD | June 2007 | 001 | 00530 | Total Suspended Solids | 30D Conc | 12 | 20.8 | 6/1/2007 |
| 2PR00072*CD | June 2007 | 001 | 00530 | Total Suspended Solids | 7D Conc | 18 | 18.4 | 6/1/2007 |
| 2PR00072*CD | June 2007 | 001 | 00610 | Nitrogen, Ammonia (NH3) | 30D Conc | 2.0 | 5.335 | 6/1/2007 |
| 2PR00072*CD | June 2007 | 001 | 00610 | Nitrogen, Ammonia (NH3) | 30D Qty | 0.23 | .28893 | 6/1/2007 |
| 2PR00072*CD | June 2007 | 001 | 80082 | CBOD 5 day | 30D Conc | 10 | 11.1 | 6/1/2007 |
| 2PR00072*CD | June 2007 | 001 | 50060 | Chlorine, Total Residu | 1D Conc | 0.019 | .05 | 6/6/2007 |
| 2PR00072*CD | June 2007 | 001 | 00530 | Total Suspended Solids | 7D Conc | 18 | 23.2 | 6/15/2007 |
| 2PR00072*CD | June 2007 | 001 | 00610 | Nitrogen, Ammonia (NH3) | 7D Conc | 3.0 | 10.2 | 6/15/2007 |
| 2PR00072*CD | June 2007 | 001 | 00610 | Nitrogen, Ammonia (NH3) | 7D Qty | 0.34 | .5405 | 6/15/2007 |
| 2PR00072*CD | June 2007 | 001 | 80082 | CBOD 5 day | 7D Conc | 15 | 18 | 6/15/2007 |
| 2PR00072*CD | July 2007 | 001 | 00610 | Nitrogen, Ammonia (NH3) | 30D Conc | 2.0 | 3.1275 | 7/1/2007 |
| 2PR00072*CD | July 2007 | 001 | 00610 | Nitrogen, Ammonia (NH3) | 30D Qty | 0.23 | .25236 | 7/1/2007 |
| 2PR00072*CD | July 2007 | 001 | 00610 | Nitrogen, Ammonia (NH3) | 7D Conc | 3.0 | 5.97 | 7/8/2007 |
| 2PR00072*CD | July 2007 | 001 | 00610 | Nitrogen, Ammonia (NH3) | 7D Qty | 0.34 | .47453 | 7/8/2007 |
| 2PR00072*CD | July 2007 | 001 | 80082 | CBOD 5 day | 7D Conc | 15 | 18.6 | 7/8/2007 |
| 2PR00072*CD | July 2007 | 001 | 50060 | Chlorine, Total Residu | 1D Conc | 0.019 | .06 | 7/11/2007 |