



**Environmental
Protection Agency**

John R. Kasich, Governor
Mary Taylor, Lt. Governor
Scott J. Nally, Director

Re: Crawford County
Crawford County WWTPs
NPDES Permit

June 25, 2012

Mr. R. Lyn Makeever
Crawford County Sanitary Engineer
112 East Mansfield Street
Bucyrus, Ohio 44820

Dear Mr. Makeever:

On May 15, 2012, inspections were made of the wastewater treatment facilities serving Sugar Grove, Linlare Village and Morton Subdivision. Our observations and recommendations for each are below:

Sugar Grove

An inspection of the wastewater treatment facilities serving Sugar Grove shows the treatment plant is operating well. The aeration tanks had a healthy brown color and were receiving an adequate amount of air. The blowers run on a timer and are currently set at 45 minutes on and 15 minutes off. The clarifier had some bulking sludge and the trough needed to be cleaned. The sand filters were in good condition. Chlorine and dechlorination tablets were observed in the feeders.

A review of your discharge monitoring reports from June 2010 through April 2012 indicates no violations of the terms and conditions of your National Pollutant Discharge Elimination System (NPDES) permit.

Linlare Village

An inspection of the wastewater treatment facilities serving Linlare Village shows the treatment plant is operating well. The aeration tanks had a healthy brown color and were receiving an adequate amount of air. The blowers are on a timer and it is currently set at 45 minutes on and 15 minutes off. The clarifier had some bulking sludge and the trough needed to be cleaned out. The sand filters were in good condition. Chlorine and dechlorination tablets were observed in the feeders. The County is currently working with the residents to get their sump pumps out of the sewer system.

A review of your discharge monitoring reports from February 2012 through April 2012 indicates no violations of the terms and conditions of your NPDES permit.

Mr. R. Lyn Makeever
June 25, 2012
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Morton Subdivision

An inspection of the wastewater treatment facilities serving Morton Subdivision shows the treatment plant is operating well. The aeration tanks had a healthy brown color and were receiving an adequate amount of air. The blowers run 24 hours a day. The clarifier had some pin floc, but appeared to be operating well. The sand filters were in fair condition. One filter was covered in drying solids. Chlorine and dechlorination tablets were observed in the feeders.

A review of your discharge monitoring reports from February 2012 through April 2012 indicates the following violation of the terms and conditions of your NPDES permit:

Violation Date	Station	Reporting Code	Parameter	Limit Type	Limit	Reported Value
3/21/2012	001	00400	pH	1D Conc	6.5	6.2

If you have any questions, please call me at 419-373-3019.

Sincerely,


Michelle Sharp
Environmental Specialist II
Division of Surface Water

/jlm

Enclosures

pc: Crawford County Health Department

ec: Tracking

OHIO ENVIRONMENTAL PROTECTION AGENCY

OPERATION AND MAINTENANCE INSPECTION
 WWTP'S LESS THAN 25,000 GPD

NPDES Permit No. 2PW00013

Facility Name Sugar Grove WWTP Expiration Date July 31, 2014

Facility Address Sugar Grove Lake Rd Date 5-15-12 Time 3:00 am / pm

City Galion County Crawford Township _____

Name and Address of Owner Crawford County Commissioners

Person Contacted R. Lyn Makeever Owner Phone 419-562-7757

Flow: Design 10,000 GPD Present 1,000 GPD (metered - estimated)

Trib. Pop. _____ (actual - estimated) Weather at time of inspection: Temp _____ °

OEPA Personnel Michelle Sharp District NWDO

1. Plant Effluent - Mark Severity No.

No.	Severity Description	No.	Turbidity	No.	Odor	No.	Color
0	None	0	Clear	0	None	0	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: Not Observed

No.	Severity Description	No.	Turbidity	No.	Odor	No.	Color
0	None		Clear		None		Colorless
1	Mild						
2	Moderate		Light Solids		Musty		Grey
3	Serious						
4	Extreme		Heavy Solids		Septic		Black

- a. Plant has _____ excellent X good _____ fair _____ poor operation
- b. Plant has _____ excellent X good _____ fair _____ poor maintenance
- c. Sand filters have _____ excellent X 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
<u>X</u>	_____ Chlorination Tablets
<u>Y</u>	_____ Dechlorination Tablets
_____	_____ U.V.

Yes No

4. X _____ Compliance with NPDES Permit

Periodic Violations Y N Parameters: _____

Chronic Violations _____

5. Y _____ Adequate plant safety

6. _____ X Operation and Maintenance Service Name _____

Frequency of Visits _____

Facility Name: Sugar Grove

Process	# Units	Unit	If Needed - Description and Comments
Preliminary	X	Trash Trap	Pumping Frequency: <u>As Needed</u>
		Grease Trap	Pumping Frequency:
		Bar Screen	
		Comminutor	
	X	Flow Equalization	
Aeration Equipment		Plant Timer <u>X</u> <u>Y</u> <u>N</u>	Cycle Time:
	X	Motor/ Blower Unit	<u>45 min on / 15 min off</u>
Secondary Treatment	X	Aeration Tank	Color: <u>Good</u> Adequate Aeration: <u>Y</u> <u>X</u> <u>N</u>
Final Settling	X	Clarifier	<u>Some bulking sludge</u> <u>Trough needed cleaned</u>
	X	Sludge Return	In <u>X</u> Out
	X	Surface Skimmer	In <u>X</u> Out
	X	Fixed Media Clarifier	<u>Clear</u>
Tertiary Treatment	X	Surface Sand Filter	<u>Good</u>
		Polishing Pond	
		Other	
Disinfection		Contact Tank	
	X	Chlorine Tube Feeder	
	X	Dechlorination Tube Feeder	
		Ultraviolet (UV)	
Flow Metering		Elapsed Pump Time	
		Recorder (continuous total)	
Pumps		Raw Wastewater (type)	
		Sand Filter Effluent Dosing	
Sludge Handling		Aerated Storage Tank	
		Sludge Drying Bed	
Sludge Disposal		Municipal POTW	
		Landfill	
		Land Application	
Advanced Treatment	X	Post Aeration	
		Spray Irrigation	
		Other	

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

NPDES Permit No. 21600089

Facility Name Linlare Village Expiration Date 7-31-12

Facility Address 3225 Parcher Rd Date 5-18-12 Time 3:30 am / pm

City Bucyrus County Crawford Township _____

Name and Address of Owner Crawford County Commissioners

Person Contacted R. Lyn McKeever Owner Phone 419-562-7757

Flow: Design 25,000 GPD Present 8,000 GPD (metered - estimated)

Trib. Pop. _____ (actual - estimated) Weather at time of inspection: Temp _____ ° Sunny

OEPA Personnel Michelle Sharp District NWDO

1. Plant Effluent - Mark Severity No.

No.	Severity Description	No.	Turbidity	No.	Odor	No.	Color
0	None	0	Clear	0	None	0	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: Not Observed

No.	Severity Description	No.	Turbidity	No.	Odor	No.	Color
0	None		Clear		None		Colorless
1	Mild						
2	Moderate		Light Solids		Musty		Grey
3	Serious						
4	Extreme		Heavy Solids		Septic		Black

3. a. Plant has _____ excellent X good _____ fair _____ poor operation
 b. Plant has _____ excellent X good _____ fair _____ poor maintenance
 c. Sand filters have _____ excellent X 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
<u>X</u>	Chlorination Tablets
<u>X</u>	Dechlorination Tablets
_____	U.V.

Yes No

4. X _____ Compliance with NPDES Permit

Periodic Violations Y N Parameters: _____

Chronic Violations _____

5. _____ X Adequate plant safety No fence, no locks on grates

6. _____ X Operation and Maintenance Service Name _____

Frequency of Visits _____

Facility Name: Linlarc Village

Process	# Units	Unit	If Needed - Description and Comments
Preliminary	X	Trash Trap	Pumping Frequency:
		Grease Trap	Pumping Frequency:
		Bar Screen	
		Comminutor	
	X	Flow Equalization	
Aeration Equipment		Plant Timer <u>X</u> <u>Y</u> <u>N</u>	Cycle Time:
	X	Motor/ Blower Unit	45 min on / 15 min off
Secondary Treatment	X	Aeration Tank	Color: <u>Good</u> Adequate Aeration: Y <u>X</u> N
Final Settling	X	Clarifier	Good, trough needs cleaned
	X	Sludge Return	In <u>X</u> Out
	X	Surface Skimmer	In <u>X</u> Out
	X	Fixed Media Clarifier	
Tertiary Treatment	X	Surface Sand Filter	<u>Good</u>
		Polishing Pond	
		Other	
Disinfection		Contact Tank	
	X	Chlorine Tube Feeder	
	X	Dechlorination Tube Feeder	
		Ultraviolet (UV)	
Flow Metering		Elapsed Pump Time	
		Recorder (continuous total)	
Pumps		Raw Wastewater (type)	
		Sand Filter Effluent Dosing	
Sludge Handling		Aerated Storage Tank	
		Sludge Drying Bed	
Sludge Disposal		Municipal POTW	
		Landfill	
		Land Application	
Advanced Treatment		Post Aeration	
		Spray Irrigation	
		Other	

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

NPDES Permit No. 2PG00115

Facility Name Morton Subdivision Expiration Date July 31, 2014
 Facility Address Ronald Street Date 5-15-12 Time 4:00 am
 City Bucyrus County Crawford Township _____
 Name and Address of Owner Crawford County Commissioners
 Person Contacted R. Lyn Makeever Owner Phone 419-562-7757
 Flow: Design 10,000 GPD Present 13,000 GPD (metered - estimated)
 Trib. Pop. _____ (actual - estimated) Weather at time of inspection: Temp ° Sunny
 OEPA Personnel Michelle Sharp District NWDO

1. Plant Effluent - Mark Severity No.

No.	Severity Description	No.	Turbidity	No.	Odor	No.	Color
0	None	0	Clear	0	None	0	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: Not Observed

No.	Severity Description	No.	Turbidity	No.	Odor	No.	Color
0	None		Clear		None		Colorless
1	Mild						
2	Moderate		Light Solids		Musty		Grey
3	Serious						
4	Extreme		Heavy Solids		Septic		Black

3. a. Plant has _____ excellent X good _____ fair _____ poor operation
 b. Plant has _____ excellent X good _____ fair _____ poor maintenance
 c. Sand filters have _____ excellent _____ good X 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	
<u>X</u>	_____	Chlorination Tablets
<u>X</u>	_____	Dechlorination Tablets
_____	_____	U.V.

Yes No

4. X _____ Compliance with NPDES Permit

Periodic Violations Y N Parameters: _____
 Chronic Violations _____

5. X _____ Adequate plant safety

6. _____ X Operation and Maintenance Service Name _____

Frequency of Visits _____

Facility Name: Mocton Subdivision

Process	# Units	Unit	If Needed - Description and Comments
Preliminary		Trash Trap	Pumping Frequency:
		Grease Trap	Pumping Frequency:
		Bar Screen	
		Comminutor	
		Flow Equalization	
Aeration Equipment	X	Plant Timer <u>X</u> Y ___ N Motor/ Blower Unit	Cycle Time: <u>24/7</u>
Secondary Treatment	X	Aeration Tank	Color: <u>Good</u> Adequate Aeration: Y <u>X</u> N ___
Final Settling	X	Clarifier	<u>Good, some pin floc</u>
	X	Sludge Return	In <u>X</u> Out ___
	X	Surface Skimmer	In <u>X</u> Out ___
		Fixed Media Clarifier	
Tertiary Treatment	X	Surface Sand Filter	<u>Drying solids on one</u>
		Polishing Pond	
		Other	
Disinfection		Contact Tank	
	X	Chlorine Tube Feeder	
	X	Dechlorination Tube Feeder	
		Ultraviolet (UV)	
Flow Metering		Elapsed Pump Time	
		Recorder (continuous total)	
Pumps		Raw Wastewater (type)	
		Sand Filter Effluent Dosing	
Sludge Handling		Aerated Storage Tank	
		Sludge Drying Bed	
Sludge Disposal		Municipal POTW	
		Landfill	
		Land Application	
Advanced Treatment		Post Aeration	
		Spray Irrigation	
		Other	