



Environmental  
Protection Agency

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

March 11, 2011

Mr. Stephen Renner, Director  
Franklin County Sanitary Engineer's Office  
280 East Broad Street, Suite 201  
Columbus, OH 43215

Re: 4PA00011 / OH0054950  
Taylor Estates  
4GS00011 / OHS000003  
Century Acres  
~~4GS00014 / OHS000003~~  
~~Holton Park~~  
Reconnaissance Inspections

Dear Mr. Renner:

On February 15, 2011, Reconnaissance Inspections were conducted at the Taylor Estates, Century Acres, and Holton Park Wastewater Treatment Plants (WWTP). Present for the inspections were Ted Abbott and Charlie McFarland representing the Franklin County Sanitary Engineers and myself of the Ohio EPA, Central District Office Division of Surface Water. The purpose of the inspection was to evaluate compliance with the terms and conditions of the National Pollutant Discharge Elimination System (NPDES) permits.

On February 14, 2011, I met with Dale Kocarek of Stantec and John Owen of Ohio EPA to discuss the replacement of Taylor Estates and Holton Park WWTPs. It was indicated that construction is likely to begin in August 2011. The current plants need to be maintained and possibly repaired depending on when the replacement plants are built.

Attached are the Reconnaissance Inspection Reports. There are a few items which require a written response. **Please respond in writing within 30 days of the receipt of this letter.**

If you have any questions or comments concerning the enclosed inspection report, please contact me at (614) 728-3846.

Sincerely,

Cole Miller  
Environmental Specialist  
Field Operations Unit  
Division of Surface Water  
Central District Office

CM/nsm Taylor Estates Inspection 2-15-11

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## NPDES Compliance Inspection Report

SECTION A: NATIONAL DATA SYSTEM CODING					
Permit #	NPDES#	Month/Day/Year	Inspection Type	Inspector	Facility Type
4PA00011	OH0054950	2/15/11	R	M	1

SECTION B: FACILITY DATA		
Name and Location of Facility Inspected	Entry Time	Permit Effective Date
Taylor Estates WWTP 5920 Alice Dr. Plain Township, Franklin County	10:00	August 1, 2010
	Exit Time	Permit Expiration Date
	10:30	July 31, 2015
Name(s) and Title(s) of On-Site Representatives	Phone Number(s)	
Charles McFarland, Operator of Record Ted Abbott, Operator	(614) 525-3747	
Name and Title of Responsible Official	Phone Number	
Stephen Renner, Director, Franklin County Sanitary Engineers 280 East Broad St. Room 201 Columbus, Ohio 43215	(614) 525-3940	

SECTION C: AREAS EVALUATED DURING INSPECTION		
Key: S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated		
S	Permit	
S	Records/Reports	
S	Operations & Maintenance	
U	Facility Site Review	The state of the equipment and tanks are extremely deteriorated.
N	Collection System	
S	Flow Measurement	
N	Laboratory	
S	Effluent/Receiving Waters	
S	Sludge Storage/Disposal	
N	Pretreatment	
N	Compliance Schedule	
S	Self-Monitoring Program	

Signatures			
	3-11-11		3-7-11
Cole Miller, Inspector Compliance & Enforcement Division of Surface Water Central District Office	Date	Erin Sherer, Reviewer Compliance & Enforcement Supervisor Division of Surface Water Central District Office	Date

## Summary of Findings and Comments Taylor Estates WWTP

### General

The sewage treatment plant serving the Taylor Estates subdivision consists of an influent lift station, twin aeration tanks and clarifiers, dosing tank with time lapse meters, surface sand filters, ultra-violet disinfection, and post aeration. The sewage plant serves approximately 47 homes and is designed for 25,000 gallons per day. Sludge is stored in an aerated holding tank and hauled.

1. At the time of the inspection, the following general observations were made with the operation and maintenance of the plant:
  - a. There was no permanent marker at the outfall. The permit required the marker to be posted by December 1, 2010. **Please respond with a schedule of posting the marker.**
  - b. The sand beds appeared to need additional sand. **Please provide a schedule for applying the sand.**
  - c. There is a visual alarm for the lift station. Although the community served by the WWTP is on well water, it might be beneficial to have a dialer or a type of wireless alarm on the plant. **Please comment on the feasibility of obtaining a dialer alarm.**
  - d. The blowers are constantly on.
  - e. The operator maintains a log book which includes observations.
2. There have been no permit effluent violations since January 2010. The attached table summarizes flow between January 1, 2010, and January 1, 2011. The facility will likely benefit from I&I work.
3. The effluent from the outfall looked clear and there were no noticeable solids deposited.
4. The plant would likely need repairs to stay online indefinitely. However, because the WWTP will soon be replaced, professional judgment should be used to maintain the plant. Here are some of the noted maintenance issues:
  - a. The concrete walls around the sand bed are spalling.
  - b. The grates are rusted and need replaced.
  - c. It was indicated by the operator that the baffle wall between the clarifiers is no longer functioning properly and sometimes leads to septicity problems.
  - d. The Taylor Estates Wastewater Treatment Plant Evaluation of Replacement Alternatives submitted by Michael Pilutti of Franklin County

Department of Sanitary Engineering identifies other structural deficiencies that a new plant would correct.

5. The permit currently requires residual chlorine to be tested in the summer but the facility utilizes ultra violet disinfection. Ohio EPA will modify the permit by May to no longer include the chlorine effluent limit.

Flow Information for Taylor Estates 1/1/10 - 1/1/11		
	Flow (mgd)	Date
Highest Flow Rate	0.096	1/24/2010
Second Flow Rate	0.072	1/18/2010
Average Since Last Inspection	0.024	