

Application No. OH0050831

Issue Date: December 22, 2006

Effective Date: February 1, 2007

Expiration Date: January 31, 2012

Ohio Environmental Protection Agency  
Authorization to Discharge Under the  
National Pollutant Discharge Elimination System

In compliance with the provisions of the Federal Water Pollution Control Act, as amended (33 U.S.C. 1251 et. seq., hereinafter referred to as the "Act"), and the Ohio Water Pollution Control Act (Ohio Revised Code Section 6111),

Washington County Commissioners

is authorized by the Ohio Environmental Protection Agency, hereinafter referred to as "Ohio EPA," to discharge from the Riverview Estates Sewer District wastewater treatment works located at Township Road 1280, Belpre Township, Belpre, Ohio, Washington County and discharging to the Little Hocking River in accordance with the conditions specified in Parts I, II, and III of this permit.

This permit is conditioned upon payment of applicable fees as required by Section 3745.11 of the Ohio Revised Code.

This permit and the authorization to discharge shall expire at midnight on the expiration date shown above. In order to receive authorization to discharge beyond the above date of expiration, the permittee shall submit such information and forms as are required by the Ohio EPA no later than 180 days prior to the above date of expiration.

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Joseph P. Koncelik  
Director

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Part I, A. - FINAL EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning on the effective date of this permit and lasting until the expiration date, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements from the following outfall: OPG00021001 . See Part II, OTHER REQUIREMENTS, for the locations of both the permitted outfall and the location to sample/monitor the effluent.

Table - Final Outfall - 001 - Final

Effluent Characteristic  Parameter	Discharge Limitations							Monitoring Requirements		
	Concentration Specified Units				Loading* kg/day			Measuring Frequency	Sampling Type	Monitoring Months
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly	Monthly			
00010 - Water Temperature - C	-	-	-	-	-	-	-	1/Day	Grab	All
00083 - Color, Severity - Units	-	-	-	-	-	-	-	1/Day	Estimate	All
00300 - Dissolved Oxygen - mg/l	-	6.0	-	-	-	-	-	1/Week	Grab	All
00400 - pH - S.U.	9.0	6.5	-	-	-	-	-	1/Week	Grab	All
00530 - Total Suspended Solids - mg/l	-	-	18	12	-	4.1	2.7	1/Week	24hr Composite	All
00610 - Nitrogen, Ammonia (NH3) - mg/l	-	-	3.0	2.0	-	0.7	.05	1 / 2 Weeks	24hr Composite	All
01330 - Odor, Severity - Units	-	-	-	-	-	-	-	1/Day	Estimate	All
01350 - Turbidity, Severity - Units	-	-	-	-	-	-	-	1/Day	Estimate	All
31616 - Fecal Coliform - #/100 ml	-	-	2000	1000	-	-	-	1/Month	Grab	Summer
50050 - Flow Rate - MGD	-	-	-	-	-	-	-	1/Day	24hr Total	All
50060 - Chlorine, Total Residual - mg/l	0.038	-	-	-	-	-	-	1/Day	Grab	Summer
80082 - CBOD 5 day - mg/l	-	-	15	10	-	3.4	2.3	1/Week	24hr Composite	All

Notes for station OPG00021001:

- Effluent loadings based on average design flow of 0.06 MGD.
- Total residual chlorine - See Part II, Items J and K.
- For Color, Odor and Turbidity Severity - See Part II, Item F.

Part I, B. - SSO MONITORING EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. Sanitary Sewer Overflow (SSO) Monitoring. During the period beginning on the effective date of this permit and lasting until the expiration date, the permittee shall report SSOs as Station Number OPG00021300 , and report to the Ohio EPA in accordance with the following table.

Table - SSO Monitoring - 300 - Final

Effluent Characteristic  Parameter	Discharge Limitations							Monitoring Requirements			
	Concentration Specified Units		Loading* kg/day					Measuring Frequency	Sampling Type	Monitoring Months	
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly	Monthly				
74062 - Overflow Occurrence - No./Month	-	-	-	-	-	-	-	-	When Disch.	Total	All

NOTES for Station Number OPG00021300:

- A sanitary sewer overflow is an overflow, spill, release, or diversion of wastewater from a sanitary sewer system. These overflows shall be monitored when they discharge.
- For the purpose of counting occurrences, each location on the sanitary sewer system where there is an overflow, spill, release, or diversion of wastewater on a given day that enters waters of the state is counted as one occurrence. For example, if on a given day overflows occur from a manhole at one location and from a damaged pipe at another location and they both enter waters of the state, record two occurrences for that day. If overflows from both locations continue on the following day, record two occurrences for the following day. At the end of the month, total the daily occurrences and report this number in the first column of the first day of the month on the 4500 form. If there are no overflows during the entire month, report "zero" (0).
- All sanitary sewer overflows are prohibited except under emergency conditions where the overflow occurs in full compliance with all of the provisions of 40 CFR 122.41(m) and Part III Item 11 of this NPDES permit.
- See Part II, Item D , for additional requirements.

Part I, B. - SLUDGE MONITORING REQUIREMENTS

2. Sludge Monitoring. During the period beginning on the effective date of this permit and lasting until the expiration date, the permittee shall monitor the treatment works' final sludge at Station Number OPG00021581, and report to the Ohio EPA in accordance with the following table. See Part II, OTHER REQUIREMENTS, for the location to sample/monitor the sludge.

Table - Sludge Monitoring - 581 - Final

Effluent Characteristic  Parameter	Discharge Limitations						Monitoring Requirements			
	Concentration Specified Units		Loading* kg/day			Measuring Frequency	Sampling Type	Monitoring Months		
Maximum	Minimum	Weekly	Monthly	Daily	Weekly				Monthly	
00400 - pH - S.U.	-	-	-	-	-	-	-	1/Year	Grab	Yearly
00611 - Ammonia (NH3) In Sludge - mg/kg	-	-	-	-	-	-	-	1/Year	Composite	Yearly
00627 - Nitrogen Kjeldahl, Total In Sludge - mg/kg	-	-	-	-	-	-	-	1/Year	Composite	Yearly
00668 - Phosphorus, Total In Sludge - mg/kg	-	-	-	-	-	-	-	1/Year	Composite	Yearly
01003 - Arsenic, Total In Sludge - mg/kg	-	-	-	-	-	-	-	1/Year	Composite	Yearly
01028 - Cadmium, Total In Sludge - mg/kg	-	-	-	-	-	-	-	1/Year	Composite	Yearly
01029 - Chromium, Total In Sludge - mg/kg	-	-	-	-	-	-	-	1/Year	Composite	Yearly
01043 - Copper, Total In Sludge - mg/kg	-	-	-	-	-	-	-	1/Year	Composite	Yearly
01052 - Lead, Total In Sludge - mg/kg	-	-	-	-	-	-	-	1/Year	Composite	Yearly
01068 - Nickel, Total In Sludge - mg/kg	-	-	-	-	-	-	-	1/Year	Composite	Yearly
01093 - Zinc, Total In Sludge - mg/kg	-	-	-	-	-	-	-	1/Year	Composite	Yearly
01148 - Selenium, Total In Sludge - mg/kg	-	-	-	-	-	-	-	1/Year	Composite	Yearly
70316 - Sludge Weight - Dry Tons	-	-	-	-	-	-	-	1/Month	Total	All
70318 - Sludge Solids, Percent Total - %	-	-	-	-	-	-	-	1/Month	Grab	All
70322 - Sludge Solids, Percent Volatile - %	-	-	-	-	-	-	-	1/Month	Grab	All
71921 - Mercury, Total In Sludge - mg/kg	-	-	-	-	-	-	-	1/Year	Composite	Yearly
78465 - Molybdenum In Sludge - mg/kg	-	-	-	-	-	-	-	1/Year	Composite	Yearly

NOTES for Station Number OPG00057581:

- Monitoring is required when sludge is removed from the wastewater treatment facility and disposed of by land application. If no sludge is removed during the entire month, report "AL" in the first column of the first day of the month on the 4500 Form (Monthly Operating Report). A signature is still required.
- Units of mg/kg are on a dry weight basis.
- Sludge weight is a calculated total for the sampling period.
- See Part II, Item N.

Part I, B. - SLUDGE MONITORING REQUIREMENTS

3. Sludge Monitoring. During the period beginning on the effective date of this permit and lasting until the expiration date, the permittee shall monitor the treatment works' final sludge at Station Number OPG00021588, and report to the Ohio EPA in accordance with the following table. See Part II, OTHER REQUIREMENTS, for the location to sample/monitor the sludge.

Table - Sludge Monitoring - 588 - Final

Effluent Characteristic  Parameter	Discharge Limitations							Monitoring Requirements			
	Concentration Specified Units		Loading* kg/day					Measuring Frequency	Sampling Type	Monitoring Months	
	Maximum	Minimum	Weekly	Monthly	Daily	Weekly	Monthly				
70316 - Sludge Weight - Dry Tons	-	-	-	-	-	-	-	-	1/Month	Total	All
70318 - Sludge Solids, Percent Total - %	-	-	-	-	-	-	-	-	1/Month	Grab	All

NOTES for Station Number OPG00021588:

- Monitoring is required when sludge is removed from the wastewater treatment facility and disposed of by another POTW. If no sludge is removed during the entire month, report "AL" in the first column of the first day of the month on the 4500 Form (Monthly Operating Report). Do not report "0". A signature is still required.
- Units of mg/kg are on a dry weight basis.
- Sludge weight is a calculated total for the sampling period.
- See Part II, Item N.

## Part II, Other Requirements

A. The wastewater treatment works must be under supervision of a Class I State certified operator as required by rule 3745-7- 02 of the Ohio Administrative Code.

B. Descriptions of the location of the permitted discharge outfalls and required effluent sampling/monitoring stations are as follows:

Permitted Outfall or Effluent Sampling/ Monitoring Station	Description of Permitted Outfall or Effluent Sampling/ Monitoring Location
OPG00021001	Final Effluent to Little Hocking River. Samples to be collected after dechlorination.
.	Outfall located at (Lat: 39N 16' 54"; Long: 81W 42' 19")
OPG00021300	System-wide sanitary sewer overflow occurrences.
OPG00021581	Sludge removed from the plant for land application.
OPG00021588	Sludge removed from the plant and hauled to another POTW.

C. All parameters, except flow, need not be monitored on days when the plant is not normally staffed (Saturdays, Sundays, and Holidays). On those days, report "AN" on the monthly report form.

### D. Sanitary Sewer Overflow (SSO) Reporting Requirements

A sanitary sewer overflow is an overflow, spill, release, or diversion of wastewater from a sanitary sewer system. SSOs do not include wet weather discharges from combined sewer overflows specifically listed in Part II of this NPDES permit (if any). All SSOs are prohibited except under emergency conditions where the overflow occurs in full compliance with all of the provisions of 40 CFR 122.41(m) and Part III Item 11 of this NPDES permit. Sanitary sewer overflows must be reported as required below.

#### 1. Reporting for SSOs That Imminently and Substantially Endanger Human Health

##### a) Immediate Notification

You must notify Ohio EPA (1-800-282-9378) and the appropriate Board of Health (i.e., city or county) within one hour of learning of any SSO from your sewers or from your maintenance contract areas that may imminently and substantially endanger human health. The telephone report must identify the location, estimated volume and receiving water, if any, of the overflow. An SSO that may imminently and substantially endanger human health includes dry weather overflows, major line breaks, overflow events that result in fish kills or other significant harm, and overflow events that occur in sensitive waters and high exposure areas such as protection areas for public drinking water intakes and waters where primary contact recreation occurs.

## b) Follow-Up Written Report

Within 5 days of the time you become aware of any SSO that may imminently and substantially endanger human health, you must provide the appropriate Ohio EPA district office a written report that includes:

- (i) the estimated date and time when the overflow began and stopped or will be stopped (if known);
- (ii) the location of the SSO including an identification number or designation if one exists;
- (iii) the receiving water (if there is one);
- (iv) an estimate of the volume of the SSO (if known);
- (v) a description of the sewer system component from which the release occurred (e.g., manhole, constructed overflow pipe, crack in pipe);
- (vi) the cause or suspected cause of the overflow;
- (vii) steps taken or planned to reduce, eliminate, and prevent reoccurrence of the overflow and a schedule of major milestones for those steps; and
- (viii) steps taken or planned to mitigate the impact(s) of the overflow and a schedule of major milestones for those steps.

A document showing the acceptable format for a 5-day follow up written report can be downloaded from the Ohio EPA Division of Surface Water Permits Program Technical Assistance web page at [http://www.epa.state.oh.us/dsw/permits/technical\\_assistance.html](http://www.epa.state.oh.us/dsw/permits/technical_assistance.html)

## 2. Reporting for All SSOs, Including Those That Imminently and Substantially Endanger Human Health

### a) Monthly Operating Reports

Sanitary sewer overflows that enter waters of the state, either directly or through a storm sewer or other conveyance, shall be reported on your monthly operating reports. You must report the system-wide number of occurrences for SSOs that enter waters of the state in accordance with the requirements for station number 300. A monitoring table for this station is included in Part I, B of this NPDES permit. For the purpose of counting occurrences, each location on the sanitary sewer system where there is an overflow, spill, release, or diversion of wastewater on a given day is counted as one occurrence. For example, if on a given day overflows occur from a manhole at one location and from a damaged pipe at another location and they both enter waters of the state, you should record two occurrences for that day. If overflows from both locations continue on the following day, you should record two occurrences for the following day. At the end of the month, total the daily occurrences from all locations on your system and report this number using reporting code 74062 (Overflow Occurrence, No./Month) on the 4500 form for station number 300.

b) Annual Report

You must prepare an annual report of all SSOs in your collection system, including those that do not enter waters of the state. The annual report must be in an acceptable format (see below) and must include:

- (i) A table that lists an identification number, a location description, and the receiving water (if any) for each existing SSO. If an SSO previously included in the list has been eliminated, this shall be noted. Assign each SSO location a unique identification by numbering them consecutively, beginning with 301.
- (ii) A table that lists the date that an overflow occurred, the unique ID of the overflow, the name of affected receiving waters (if any), and the estimated volume of the overflow (in millions of gallons). The annual report may summarize information regarding overflows of less than approximately 1,000 gallons.
- (iii) A table that summarizes the occurrence of water in basements (WIBs) by total number and by sewershed. The report shall include a narrative analysis of WIB patterns by location, frequency and cause.

Not later than March 31 of each year, beginning in 2005, you must submit two copies of the annual report for the previous calendar year to the appropriate Ohio EPA district office. You also must provide adequate notice to the public of the availability of the report.

Systems serving fewer than 10,000 people are not required to prepare an annual report if all monthly operating reports for the preceding calendar year show no discharge from overflows.

A document showing the acceptable format for an annual SSO report can be downloaded from the Ohio EPA Division of Surface Water Permits Program Technical Assistance web page at [http://www.epa.state.oh.us/dsw/permits/technical\\_assistance.html](http://www.epa.state.oh.us/dsw/permits/technical_assistance.html).

E. The permittee shall maintain in good working order and operate as efficiently as possible the "treatment works" and "sewerage system" as defined in ORC 6111.01 to achieve compliance with the terms and conditions of this permit and to prevent untreated or partially treated discharges of wastewater to the waters of the state, surface of the ground, basements, homes, buildings, etc.

F. If Severity Units are required for Turbidity, Odor, or Color, use the following table to determine the value between 0 and 4 that is reported.

REPORTED VALUE*	SEVERITY DESCRIPTION	TURBIDITY	ODOR	COLOR
0	None	Clear	None	Colorless
1	Mild			
2	Moderate	Light Solids	Musty	Grey
3	Serious			
4	Extreme	Heavy Solids	Septic	Black

\* Interpolate between the descriptive phrases.

G. Composite samples shall be comprised of a series of grab samples collected over a 24-hour period and proportionate in volume to the sewage flow rate at the time of sampling. Such samples shall be collected at such times and locations, and in such a fashion, as to be representative of the facility's overall performance.

H. Grab samples shall be collected at such times and locations, and in such fashion, as to be representative of the facility's performance.

I. Effluent disinfection is not directly required, however, the entity is required to meet all applicable discharge permit limits. If disinfection facilities exist, they shall be maintained in an operable condition. Any design of wastewater treatment facilities should provide for the capability to install disinfection if required at a future time. Disinfection may be required if future bacteriological studies or emergency conditions indicate the need.

J. The chlorine residual limitation is being reevaluated by Ohio EPA. Upon completion of reevaluation, a more stringent chlorine residual limitation may be required, and this permit may be modified to incorporate the revised limitation.

K. The parameters below have had effluent limitations established that are below the Ohio EPA Quantification Level (OEPA QL) for the approved analytical procedure promulgated at 40 CFR 136. OEPA QLs may be expressed as Practical Quantification Levels (PQL) or Minimum Levels (ML).

Compliance with an effluent limit that is below the OEPA QL is determined in accordance with ORC Section 6111.13 and OAC Rule 3745-33-07(C). For maximum effluent limits, any value reported below the OEPA QL shall be considered in compliance with the effluent limit. For average effluent limits, compliance shall be determined by taking the arithmetic mean of values reported for a specified averaging period, using zero (0) for any value reported at a concentration less than the OEPA QL, and comparing that mean to the appropriate average effluent limit. An arithmetic mean that is less than or equal to the average effluent limit shall be considered in compliance with that limit.

The permittee must utilize the lowest available detection method currently approved under 40 CFR Part 136 for monitoring these parameters.

**REPORTING:**

All analytical results, even those below the OEPA QL (listed below), shall be reported. Analytical results are to be reported as follows:

1. Results above the QL: Report the analytical result for the parameter of concern.
2. Results above the MDL, but below the QL: Report the analytical result, even though it is below the QL.
3. Results below the MDL: Analytical results below the method detection limit shall be reported as "below detection" using the reporting code "AA".

The following table of quantification levels will be used to determine compliance with NPDES permit limits:

Parameter	PQL
Chlorine, Total Residual	0.050 mg/l

This permit may be modified, or, alternatively, revoked and reissued, to include more stringent effluent limits or conditions if information generated as a result of the conditions of this permit indicate the presence of these pollutants in the discharge at levels above the water quality based effluent limit (WQBEL).

L. POTWs that accept hazardous wastes by truck, rail, or dedicated pipeline are considered to be hazardous waste treatment, storage, and disposal facilities (TSDFs) and are subject to regulation under the Resource Conservation and Recovery Act (RCRA). Under the "permit-by-rule" regulation found at 40 CFR 270.60(c), a POTW must:

- 1) comply with all conditions of its NPDES permit,
- 2) obtain a RCRA ID number and comply with certain manifest and reporting requirements under RCRA,
- 3) satisfy corrective action requirements, and
- 4) meet all federal, state, and local pretreatment requirements.

M. Final permit limitations based on preliminary or approved waste load allocations are subject to change based on modifications to or finalization of the allocation or report or changes to Water Quality Standards. Monitoring requirements and/or special conditions of this permit are subject to change based on regulatory or policy changes.

N. All disposal, use, storage, or treatment of sewage sludge by the Permittee shall comply with Chapter 6111. of the Ohio Revised Code, Chapter 3745-40 of the Ohio Administrative Code, any further requirements specified in this NPDES permit, and any other actions of the Director that pertain to the disposal, use, storage, or treatment of sewage sludge by the Permittee.

1. Sewage sludge composite samples shall consist of six to twelve grab samples collected at such times and locations, and in such fashion, as to be representative of the facilities sewage sludge.

2. No later than January 31 of each calendar year the Permittee shall submit two (2) copies of a report summarizing the sewage sludge disposal, use, storage, or treatment activities of the Permittee during the previous calendar year. One copy of the report shall be sent to the Ohio EPA, Division of Surface Water, P.O. Box 1049, Columbus, Ohio 43216-1049, and one copy of the report shall be sent to the appropriate Ohio EPA District Office. The report shall be submitted on Ohio EPA Form 4229.