

Application Type Renewal  
 Facility Type Non-Municipal  
 Major / Minor Minor

**NPDES PERMIT FACT SHEET  
INDIVIDUAL SEWAGE**

Application No. PA0103101  
 APS ID 980136  
 Authorization ID 1250537

**Applicant and Facility Information**

Applicant Name	<u>Wesley Woods, Inc.</u>	Facility Name	<u>Wesley Woods Christian Ed Center</u>
Applicant Address	<u>1001 Fiddlersgreen Road</u> <u>Grand Valley, PA 16420-4429</u>	Facility Address	<u>1001 Fiddlersgreen Road</u> <u>Grand Valley, PA 16420-4429</u>
Applicant Contact	<u>Nathaniel Greenway</u>	Facility Contact	<u>Scott Lewis</u>
Applicant Phone	<u>(814) 688-9019</u>	Facility Phone	<u>(814) 436-</u>
Client ID	<u>163907</u>	Site ID	<u>249335</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>Eldred Township</u>
Connection Status		County	<u>Warren</u>
Date Application Received	<u>October 15, 2018</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>November 8, 2018</u>	If No, Reason	
Purpose of Application	<u>Renewal of a NPDES Permit for an existing discharge of treated sewage.</u>		

**Summary of Review**

No changes to discharge quantity or quality are being proposed as part of this permit amendment.

Sampling frequency for Total Residual Chlorine (TRC), Dissolved Oxygen (D.O.), and pH is being changed from 1/week to 1/day in accordance with the Department's SOP entitled "New and Reissuance Sewage Individual NPDES Permit Applications."

There are currently two open violations listed in EFACTS for this permittee under the NWRO Safe Drinking Water Program (8/13/2019). The Department will follow up on the status of these violations prior to making a final decision on the permit application.

Public Participation

DEP will publish notice of the receipt of the NPDES permit application and a tentative decision to issue the individual NPDES permit in the *Pennsylvania Bulletin* in accordance with 25 Pa. Code § 92a.82. Upon publication in the *Pennsylvania Bulletin*, DEP will accept written comments from interested persons for a 30-day period (which may be extended for one additional 15-day period at DEP's discretion), which will be considered in making a final decision on the application. Any person may request or petition for a public hearing with respect to the application. A public hearing may be held if DEP determines that there is significant public interest in holding a hearing. If a hearing is held, notice of the hearing will be published in the *Pennsylvania Bulletin* at least 30 days prior to the hearing and in at least one newspaper of general circulation within the geographical area of the discharge.

Approve	Deny	Signatures	Date
X		Adam J. Pesek, E.I.T. / Environmental Engineering Specialist	
X		Justin C. Dickey, P.E. / Environmental Engineer Manager	

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	<u>001</u>	Design Flow (MGD)	<u>0.0213 (16-hr runoff)</u>
Latitude	<u>41° 44' 23.00"</u>	Longitude	<u>79° 32' 37.00"</u>
Quad Name	<u>Grand Valley</u>	Quad Code	<u>0509</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Unnamed Tributary to Caldwell Creek</u>	Stream Code	<u>54287</u>
NHD Com ID	<u>100469461</u>	RMI	<u>0.99</u>
Drainage Area	<u>0.174 (dry), 0.45 (perennial)</u>	Yield (cfs/mi <sup>2</sup> )	<u>0.0454 (perennial)</u>
Q <sub>7-10</sub> Flow (cfs)	<u>0 (dry), 0.02044 (perennial)</u>	Q <sub>7-10</sub> Basis	<u>USGS Streamstats regression evaluation</u>
Elevation (ft)	<u>1520</u>	Slope (ft/ft)	<u>0.051 (dry), 0.021 (perennial)</u>
Watershed No.	<u>16-E</u>	Chapter 93 Class.	<u>HQ-CWF</u>
Existing Use	<u></u>	Existing Use Qualifier	<u></u>
Exceptions to Use	<u></u>	Exceptions to Criteria	<u></u>
Assessment Status	<u>Attaining Use(s)</u>		
Cause(s) of Impairment	<u></u>		
Source(s) of Impairment	<u></u>		
TMDL Status	<u></u>	Name	<u></u>
Background/Ambient Data		Data Source	<u>8/7/17 sample on Caldwell Street by Emerson Hill Road Bridge</u>
pH (SU)	<u>7.54</u>		<u>Default (CWF)</u>
Temperature (°C)	<u>20</u>		<u></u>
Hardness (mg/L)	<u></u>		<u></u>
Other:	<u></u>		<u></u>
Nearest Downstream Public Water Supply Intake	<u></u>	Point of discharge	<u></u>
PWS Waters	<u></u>	Flow at Intake (cfs)	<u></u>
PWS RMI	<u></u>	Distance from Outfall (mi)	<u></u>

Changes Since Last Permit Issuance:

Other Comments: Perennial reach on tributary starts at RMI 0.50

Treatment Facility Summary				
<b>Treatment Facility Name:</b> Wesley Woods Christian Ed Center				
<b>WQM Permit No.</b>		<b>Issuance Date</b>		
6274402		6/03/1974		
<b>Waste Type</b>	<b>Degree of Treatment</b>	<b>Process Type</b>	<b>Disinfection</b>	<b>Avg Annual Flow (MGD)</b>
Sewage	Tertiary	Septic Tank / Sand Filter	Tablet Chlorination	0.0213
<b>Hydraulic Capacity (MGD)</b>	<b>Organic Capacity (lbs/day)</b>	<b>Load Status</b>	<b>Biosolids Treatment</b>	<b>Biosolids Use/Disposal</b>
0.0213		Not Overloaded	None	Other WWTP

Changes Since Last Permit Issuance:

Other Comments:

Compliance History

DMR Data for Outfall 001 (from July 1, 2018 to June 30, 2019)

Parameter	JUN-19	MAY-19	APR-19	MAR-19	FEB-19	JAN-19	DEC-18	NOV-18	OCT-18	SEP-18	AUG-18	JUL-18
Flow (MGD) Average Monthly	0.007										0.008	0.005
pH (S.U.) Minimum	6.79										6.99	6.98
pH (S.U.) Maximum	7.01										7.14	7.09
DO (mg/L) Minimum	8.48										6.04	7.18
TRC (mg/L) Average Monthly	0.11										0.1	0.05
TRC (mg/L) Instantaneous Maximum	0.61										0.09	0.08
CBOD5 (mg/L) Average Monthly	< 1.0										< 3.00	< 16.5
TSS (mg/L) Average Monthly	< 1.0										6.5	9
Fecal Coliform (CFU/100 ml) Geometric Mean	< 1.0										345	2410
Fecal Coliform (CFU/100 ml) Instantaneous Maximum	< 1.0										345	2420
Total Nitrogen (mg/L) Average Quarterly	E									2.03		
Ammonia (mg/L) Average Monthly	< 1.0										1.16	0.60
Total Phosphorus (mg/L) Average Quarterly	E									0.725		

**Development of Effluent Limitations**

<b>Outfall No.</b> <u>001</u>	<b>Design Flow (MGD)</b> <u>0.0213</u>
<b>Latitude</b> <u>41° 44' 23.00"</u>	<b>Longitude</b> <u>79° 32' 37.00"</u>
<b>Wastewater Description:</b> <u>Sewage Effluent</u>	

**Technology-Based Limitations**

The following technology-based limitations apply, subject to water quality analysis and BPJ where applicable:

Pollutant	Limit (mg/l)	SBC	Federal Regulation	State Regulation
CBOD <sub>5</sub>	25	Average Monthly	133.102(a)(4)(i)	92a.47(a)(1)
	40	Average Weekly	133.102(a)(4)(ii)	92a.47(a)(2)
Total Suspended Solids	30	Average Monthly	133.102(b)(1)	92a.47(a)(1)
	45	Average Weekly	133.102(b)(2)	92a.47(a)(2)
pH	6.0 – 9.0 S.U.	Min – Max	133.102(c)	95.2(1)
Fecal Coliform (5/1 – 9/30)	200 / 100 ml	Geo Mean	-	92a.47(a)(4)
Fecal Coliform (5/1 – 9/30)	1,000 / 100 ml	IMAX	-	92a.47(a)(4)
Fecal Coliform (10/1 – 4/30)	2,000 / 100 ml	Geo Mean	-	92a.47(a)(5)
Fecal Coliform (10/1 – 4/30)	10,000 / 100 ml	IMAX	-	92a.47(a)(5)
Total Residual Chlorine	0.5	Average Monthly	-	92a.48(b)(2)

**Water Quality-Based Limitations**

The following limitations were determined through water quality modeling (output files attached):

Parameter	Limit (mg/l)	SBC	Model
Ammonia Nitrogen (5/01 – 10/31)	2.5	Average Monthly	WQAM63 (old modeling)
Ammonia Nitrogen (11/01 – 4/30)	2.5	Average Monthly	WQAM63 (old modeling)
Total Residual Chlorine	1.2	IMAX	TRC Guidance Document

Comments: The TRC IMAX limit was set based on the old sampling frequency of 1/week.

Water quality modeling was not conducted for Total Residual Chlorine (TRC) at the first point of perennial conditions because the distance between the outfall and the first point of perennial conditions is approximately 2,590 feet (0.49 miles) and any chlorine residual left in the effluent, if it reaches that perennial point, would be expected to have evaporated or been consumed by exposure to organic ground material.

**Best Professional Judgment (BPJ) Limitations**

Comments: A dissolved oxygen limit of a daily minimum of 4.0 mg/l and monitoring for total nitrogen and total phosphorus will remain in the permit in accordance with the Department’s SOP entitled “Establishing Effluent Limitations for Individual Sewage Permits.”

**Anti-Backsliding**

N/A. Previous calculated WQBELS will be retained in the proposed renewed permit.

**Proposed Effluent Limitations and Monitoring Requirements**

The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). Sample frequencies and types are derived from the “NPDES Permit Writer’s Manual” (362-0400-001), SOPs and/or BPJ.

**Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date.**

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	1/week	Measured
pH (S.U.)	XXX	XXX	6.0 Daily Min	XXX	9.0 Daily Max	XXX	1/day	Grab-Composite
DO	XXX	XXX	4.0 Daily Min	XXX	XXX	XXX	1/day	Grab
TRC	XXX	XXX	XXX	0.5	XXX	1.2	1/day	Grab
CBOD5	XXX	XXX	XXX	10.0	XXX	20	2/month	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20	2/month	Grab
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2000 Geo Mean	XXX	10000	2/month	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	2/month	Grab
Total Nitrogen	XXX	XXX	XXX	Report Avg Qrtly	XXX	XXX	1/quarter	Grab
Ammonia Nov 1 - Apr 30	XXX	XXX	XXX	7.5	XXX	15	2/month	Grab
Ammonia May 1 - Oct 31	XXX	XXX	XXX	2.5	XXX	5	2/month	Grab
Total Phosphorus	XXX	XXX	XXX	Report Avg Qrtly	XXX	XXX	1/quarter	Grab

Compliance Sampling Location: Outfall 001 (after disinfection)

Comments: 1/day sampling frequency for pH, D.O. and TRC is in accordance with the Department’s SOP entitled “New and Reissuance Sewage Individual NPDES Permit Applications.”