

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

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. PA0104043
 APS ID 993393
 Authorization ID 1273498

Applicant and Facility Information

Applicant Name	<u>Nicksco, Inc.</u>	Facility Name	<u>Grandview Acres MHP</u>
Applicant Address	<u>P.O. Box 246</u> <u>West Middlesex, PA 16159</u>	Facility Address	<u>3122 Hadley Road</u> <u>Hadley, PA 16130-2716</u>
Applicant Contact	<u>John Rodgers</u>	Facility Contact	<u></u>
Applicant Phone	<u>(724) 456-3743</u>	Facility Phone	<u></u>
Client ID	<u>338398</u>	Site ID	<u>243909</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>Perry Township</u>
Connection Status	<u>No Limitations</u>	County	<u>Mercer</u>
Date Application Received	<u>April 25, 2019</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>May 21, 2019</u>	If No, Reason	<u></u>
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 of quality were proposed as part of this permit renewal.

Sampling frequency for pH, TRC, and dissolved oxygen was changed to 1/day in accordance with the Department's SOP entitled "New and Reissuance Sewage Individual NPDES Permit Applications (SOP No. BCW-PMT-002)."

There are currently no open violations listed in EFACTS for this permittee (3/09/2020).

A CACP was executed with the permittee on September 9, 2019, for submission of a late 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 Adam J. Pesek, E.I.T. / Environmental Engineering Specialist	March 31, 2020
X		Justin C. Dickey Justin C. Dickey, P.E. / Environmental Engineer Manager	March 31, 2020

Discharge, Receiving Waters and Water Supply Information

Outfall No.	<u>001</u>	Design Flow (MGD)	<u>.0078</u>
Latitude	<u>41° 24' 51.54"</u>	Longitude	<u>-80 ° 14' 40.24"</u>
Quad Name	<u>Hadley</u>	Quad Code	<u>0704</u>
Wastewater Description: <u>Treated Sewage Effluent</u>			

Receiving Waters	<u>Unnamed Tributary to Little Shenango River</u>	Stream Code	<u>---</u>
NHD Com ID	<u>130034625</u>	RMI	<u>0.07</u>
Drainage Area	<u>29.8 (perennial)</u>	Yield (cfs/mi ²)	<u>0.0527 (perennial)</u>
Q ₇₋₁₀ Flow (cfs)	<u>0 (dry reach), 1.57 perennial reach)</u>	Q ₇₋₁₀ Basis	<u>L. Shenango River @ Greenville Gage '67-'08</u>
Elevation (ft)	<u>1050</u>	Slope (ft/ft)	<u>0.00462</u>
Watershed No.	<u>20-A</u>	Chapter 93 Class.	<u>TSF</u>
Existing Use	<u></u>	Existing Use Qualifier	<u></u>
Exceptions to Use	<u></u>	Exceptions to Criteria	<u></u>

Assessment Status Attaining Use(s)

Cause(s) of Impairment

Source(s) of Impairment

TMDL Status Name

Background/Ambient Data		Data Source	
pH (SU)	<u>7.31</u>	WQN 913 ('98-'04)	<u></u>
Temperature (°C)	<u>25</u>	Default	<u></u>
Hardness (mg/L)	<u></u>		<u></u>
Other: NH ₃ -N	<u>0.046</u>	WQN 913 ('98-'04)	<u></u>

Nearest Downstream Public Water Supply Intake	<u>Greenville Municipal Authority Intake</u>		
PWS Waters	<u>Shenango River</u>	Flow at Intake (cfs)	<u>14.4</u>
PWS RMI	<u>8.0</u>	Distance from Outfall (mi)	<u></u>

Changes Since Last Permit Issuance:

Other Comments:

Treatment Facility Summary				
Treatment Facility Name: Grandview Acres MHP				
WQM Permit No.		Issuance Date		
4371412 A-1		10/24/2011		
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Stabilization Lagoon	Hypochlorite	0.0078
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.0078	20.4	Not Overloaded		Landfill

Changes Since Last Permit Issuance:

Other Comments:

Compliance History

DMR Data for Outfall 001 (from February 1, 2019 to January 31, 2020)

Parameter	JAN-20	DEC-19	NOV-19	OCT-19	SEP-19	AUG-19	JUL-19	JUN-19	MAY-19	APR-19	MAR-19	FEB-19
Flow (MGD) Average Monthly	0.0012	0.0012	0.0012	0.0012	0.0012	0.0012	0.0012	0.0012	0.0012	0.0012	0.0012	
pH (S.U.) Daily Minimum	7.0	6.8	6.5	7.0	6.90	6.8	7.0	6.8	7.0	8.0	7.0	
pH (S.U.) Daily Maximum	7.8	7.5	7.5	8.1	7.8	8.1	8.0	7.5	8.0	8.5	7.5	
DO (mg/L) Daily Minimum	5.7	2.4	2.38	3.02	2.3	4.0	4.0	4.0	6.86	4.0	5.0	
TRC (mg/L) Average Monthly	0.48	0.5	0.5	0.5	0.43	0.5	< 0.4	0.58	1.1	0.8	1.0	
TRC (mg/L) Instantaneous Maximum	1.01	1.20	1.2	1.0	1.0	1.0	< 1.2	1.2	1.2	1.0	1.2	
CBOD5 (mg/L) Average Monthly	11.0	14.0	20.9	9.25	13.1	< 12.0	< 13.0	7.68	< 3.0	< 3.0	6.3	
TSS (mg/L) Average Monthly	28	22	22	25	30	29.6	28	24	7.0	7.0	5.0	
Fecal Coliform (No./100 ml) Geometric Mean	770	2000	> 2000	< 20	> 2420	200	< 199	199	< 1	< 1.0	200	
Fecal Coliform (No./100 ml) Instantaneous Maximum	2000	12030	> 10000	94	4884	> 1000	< 1000	> 2420	147	147	500	
Total Nitrogen (mg/L) Average Quarterly		4.702			E			4.6285			< 0.625	
Ammonia (mg/L) Average Monthly	7.84	6.34	3.0	3.33	1.74	0.9	< 0.800	< 0.800	0.0585	0.0585	2.11	
Total Phosphorus (mg/L) Average Quarterly		0.44			E			< 0.100			0.612	

Development of Effluent Limitations

Outfall No. <u>001</u>	Design Flow (MGD) <u>.0078</u>
Latitude <u>41° 24' 51.54"</u>	Longitude <u>-80° 14' 40.24"</u>
Wastewater Description: <u>Treated 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 ₅	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)

Comments:

Water Quality-Based Limitations

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

Parameter	Limit (mg/l)	SBC	Model
None			

Comments: No WQBELs were calculated

Best Professional Judgment (BPJ) Limitations

Comments: A dissolved oxygen limit of a minimum of 4.0 mg/l and monitoring for ammonia nitrogen, total nitrogen, and total phosphorus was placed in the permit in accordance with the Department's SOP entitled "Establishing Effluent Limitations for Individual Sewage Permits." The TRC IMAX limit was previously placed in the permit as a 2.5 multiplier based on weekly sampling and it will be retained.

Anti-Backsliding

N/A

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) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/week	Estimate
pH (S.U.)	XXX	XXX	6.0 Daily Min	XXX	9.0 Daily Max	XXX	1/day	Grab
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	25.0	XXX	50	2/month	Grab
TSS	XXX	XXX	XXX	30.0	XXX	60	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	XXX	XXX	XXX	Report	XXX	XXX	1/month	Grab
Total Phosphorus	XXX	XXX	XXX	Report Avg Qrtly	XXX	XXX	1/quarter	Grab

Compliance Sampling Location: Outfall 001 (after disinfection)

Other Comments:

Attachment A



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.pdf

Figure 1 - WQM 7.0 Modeling (2013)



20200309155922048
.pdf

Figure 2 - TRC Spreadsheet