pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Northwest Regional Office
CLEAN WATER PROGRAM

Application Type	**Renewal**	Application No.	**PA0239607**
Facility Type	**Non-Municipal**	APS ID	**1016775**
Major / Minor	**Minor**	Authorization ID	**1315016**

NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE

Applicant and Facility Information

Applicant Name	**James Kapp**	Facility Name	**Rocky River Development**
Applicant Address	8100 Ohio River Boulevard	Facility Address	River View Drive
	Pittsburgh, PA 15202		Parker, PA 16049
Applicant Contact	James Kapp	Facility Contact	James Kapp
Applicant Phone	(412) 307-1300	Facility Phone	(412) 307-1300
Client ID	237601	Site ID	661862
Ch 94 Load Status	Not Overloaded	Municipality	Perry Township
Connection Status	No Limitations	County	Clarion County
Date Application Received	March 25, 2020	EPA Waived?	Yes
Date Application Accepted	May 21, 2020	If No, Reason	-

Purpose of Application: Sewage Treatment Facility treating three single residence homes.

Summary of Review

Act 14 - Proof of Notification was submitted and received.

The applicant should be able to meet the limits of this permit, which will protect the uses of the receiving stream.

I. OTHER REQUIREMENTS:

A. AMRs
B. DMRs
C. Depth of Septage and Scum Measurement
D. Septic Tank Pumping
E. Effluent Chlorine Optimization and Minimization
F. Stormwater into sewers
G. Right of way
H. Solids handling
I. Public Sewerage Availability

II. SPECIAL CONDITIONS: Flow Exceeding 2,000 gpd

Permitted treatment consists of: Three septic tanks, a dosing tank, a sand filter, and tablet chlorine disinfection. (WQM Permit no. 1606401)

There are no open violations in efacts associated with the subject Client ID (237601) as of 4/13/2021.

Approve	Deny	Signatures	Date
X		Stephen A. McCauley Stephen A. McCauley, E.I.T. / Environmental Engineering Specialist	4/13/2021
X		Justin C. Dickey Justin C. Dickey, P.E. / Environmental Engineer Manager	4/16/2021

Discharge, Receiving Waters and Water Supply Information

Outfall No.	001	Design Flow (MGD)	0.0052*
Latitude	41º 5' 47.0"	Longitude	-79º 40' 30.0"
Quad Name	-	Quad Code	-
Wastewater Description:	Sewage Effluent		
Receiving Waters	Allegheny River (WWF)	Stream Code	42122
NHD Com ID	123851432	RMI	83.8
Drainage Area	7670	Yield (cfs/mi^2)	0.26
Q_{7-10} Flow (cfs)	1994	Q_{7-10} Basis	calculated
Elevation (ft)	848	Slope (ft/ft)	0.00166
Watershed No.	17-C	Chapter 93 Class.	WWF
Existing Use	-	Existing Use Qualifier	-
Exceptions to Use	-	Exceptions to Criteria	-
Assessment Status	Attaining Use(s)		
Cause(s) of Impairment	-		
Source(s) of Impairment	-		
TMDL Status	-	Name	-

Background/Ambient Data		Data Source
pH (SU)	-	-
Temperature (°F)	-	-
Hardness (mg/L)	-	-
Other:	-	-

Nearest Downstream Public Water Supply Intake	PA American Water Company - Kittanning District		
PWS Waters	Allegheny River	Flow at Intake (cfs)	987
PWS RMI	45.6	Distance from Outfall (mi)	35.0

* - The design flow is based on multiple residential homes being connected to the treatment system. There are currently only three houses connected to the system. The limits for this renewal have been changed to the limits recommended for SFTFs based on the current flow being reported as only 1,000 gpd from the three homes. A Special Condition was added to require an NPDES amendment application prior to the flow exceeding the 2,000 gpd limit of a SFTF.

No modeling was performed for this NPDES Permit renewal as septic tank/sand filter systems are capable of meeting CBOD5 and TSS averages of 10 mg/l, which are less than the inputs of the WQ model.

Sludge use and disposal description and location(s): Sludge is disposed of at an approved landfill.

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.

Compliance History

DMR Data for Outfall 001 (from March 1, 2020 to February 28, 2021)

Parameter	FEB-21	JAN-21	DEC-20	NOV-20	OCT-20	SEP-20	AUG-20	JUL-20	JUN-20	MAY-20	APR-20	MAR-20
Flow (MGD) Average Monthly	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.0005	0.001	0.000144	0.0000001	0.000288
Flow (MGD) Daily Maximum	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.0005	0.001	0.000144	0.0000001	0.000288
pH (S.U.) Minimum	6.70	6.10	7.10	7.05	7.10	7.20	6.58	7.07	6.94	6.5	6.9	7.1
pH (S.U.) Maximum	8.94	9.0	8.58	7.50	7.63	8.27	8.52	9.0	8.01	7.3	7.3	7.3
DO (mg/L) Minimum	7.20	7.01	6.05	14.10	11.28	10.25	12.0	14.0	5.13	7.2	3.4	4.8
TRC (mg/L) Average Monthly	0.19	0.18	0.34	0.22	0.35	0.33	0.26	0.10	0.02	0.22	0.03	0.07
TRC (mg/L) Instantaneous Maximum	0.47	0.40	0.50	0.35	0.71	0.50	1.11	0.20	0.2	0.41	0.03	0.11
CBOD5 (mg/L) Average Monthly	2.5	2.0	2.1	2.0	2.25	2.1	2.0	2.1	2.25	4.2	3.6	5
TSS (mg/L) Average Monthly	4.5	7.5	6.0	2.5	2.0	4.0	4.0	2.0	2.5	10	6	9.8
Fecal Coliform (CFU/100 ml) Geometric Mean	1	1	1	1	1	1	1.7	1	1	< 10	< 10	7.71
Fecal Coliform (CFU/100 ml) Instantaneous Maximum	1	1	1	1	1	1	3.1	1	1	< 10	< 10	10
Total Nitrogen (mg/L) Annual Average			E									
Ammonia (mg/L) Average Monthly	0.13	4.57	0.27	0.40	0.09	0.06	2.0	5.59	1.45	0.1	0.34	< 10
Total Phosphorus (mg/L) Annual Average			E									

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/month	Measured
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/month	Grab
TRC	XXX	XXX	XXX	0.5	XXX	1.2	1/month	Grab
BOD5	XXX	XXX	XXX	10.0	XXX	20.0	1/month	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20.0	1/month	Grab
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2000 Geo Mean	XXX	10000	1/month	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1000	1/month	Grab

Compliance Sampling Location: Outfall 001, after disinfection.

Flow is monitor only based on Chapter 92a.61. The limits for pH are technology-based on Chapter 93.7. The limits for Total Residual Chlorine (TRC) are technology based on Chapter 92a.47. The limits for BOD_5, Total Suspended Solids, and Fecal Coliforms are technology-based on Chapter 92a.47.

The previous limits for Dissolved Oxygen and Ammonia-Nitrogen were removed with this renewal since the facility is now being permitted as a SFTF. The previous limits for CBOD5 were retained, but CBOD5 was replaced with BOD5 due to the use of SFTF limits, as was the previous monitoring for Total Nitrogen and Total Phosphorus.