pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

Southwest Regional Office
CLEAN WATER PROGRAM

NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE

Application Type	**Renewal**	Application No.	**PA0093874**
Facility Type	**Non-Municipal**	APS ID	**824037**
Major / Minor	**Minor**	Authorization ID	**1278535**

Applicant and Facility Information

Applicant Name	**Ruebel Inc.**	Facility Name	**Ruebel STP**
Applicant Address	102 Mill Street	Facility Address	250 3rd Street
	Saltsburg, PA 15681-8993		Saltsburg, PA 15681-8940
Applicant Contact	Jack Ruebel	Facility Contact	Same
Applicant Phone	(724) 600-4270	Facility Phone	Same
Client ID	304589	Site ID	247828
Ch 94 Load Status	Not overloaded	Municipality	Loyalhanna Township
Connection Status	No limits	County	Westmoreland
Date Application Received	June 27, 2019	EPA Waived?	Yes
Date Application Accepted	June 28, 2019	If No, Reason	

Purpose of Application: Renew NPDES permit.

Summary of Review

The permittee has applied for a renewal of NPDES Permit No. PA0093874. NPDES Permit No. PA0093874 was previously issued by the PA Department of Environmental Protection (DEP) on January 28, 2015. That permit expired on January 31, 2020.

Ruebel Inc. purchased the old elementary school from the Blairsville school district in 2013. Ruebel Inc. plans to convert the school to a professional office building. The office building currently has no tenants. There is no water to the building and obviously no sewage being generated.

This writer noticed the facility has historically been referred to as "250 3rd Street Saltsburg, PA 15681". This is obviously the address where the facility is located. This writer took the liberty to name the facility Ruebel STP. The permittee was made aware of this change in the draft cover letter and given an opportunity to object to the name. The fact sheet addendum will clarify if they accepted the facility name.

This permit is being prepared during the Coronavirus pandemic requiring DEP employees to telework. Electronic signatures are considered appropriate.

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

Summary of Review			
x		David R. Ponchione David R. Ponchione / Project Manager	April 22, 2020
x		Christopher Kriley Chris Kriley, P.E. / Program Manager for Donald J. Leone, P.E. / Environmental Engineer Manager	April 22, 2020

Discharge, Receiving Waters and Water Supply Information

Outfall No.	001	Design Flow (MGD)	0.0047
Latitude	40º 29' 34"	Longitude	-79º 27' 45"
Quad Name	Saltsburg	Quad Code	1510
Wastewater Description:	Sewage Effluent		
Receiving Waters	Unnamed Tributary of Kiskiminetas River (WWF)	Stream Code	43248
NHD Com ID	125292075	RMI	0.473
Drainage Area	1.12	Yield (cfs/mi^2)	0.06
Q_{7-10} Flow (cfs)	0.0672	Q_{7-10} Basis	Q7-10 flow taken from previously pollution report
Watershed No.	18-C	Chapter 93 Class.	WWF
Exceptions to Use	None	Exceptions to Criteria	None
Assessment Status	Impaired		
Cause(s) of Impairment	Nutrients		
Source(s) of Impairment	Crop related Agriculture, urban runoff/storm sewers		
TMDL Status	Final, 01/29/2010	Name	Kiskiminetas-Conemaugh River Watersheds TMDL
Nearest Downstream Public Water Supply Intake	Buffalo Township MA		
PWS Waters	Allegheny River	Distance from Outfall (mi)	27

Changes Since Last Permit Issuance: None

Treatment Facility Summary				
Treatment Facility Name: Ruebel STP				
WQM Permit No.	**Issuance Date**			
6582410	1982			
Waste Type	**Degree of Treatment**	**Process Type**	**Disinfection**	**Avg Annual Flow (MGD)**
Sewage	Secondary	Extended Aeration	Chlorination with dechlorination	0
Hydraulic Capacity (MGD)	**Organic Capacity (lbs/day)**	**Load Status**	**Biosolids Treatment**	**Biosolids Use/Disposal**
0.0047	7.84 (1)	Not overloaded		

Changes Since Last Permit Issuance: None

Other Comments: Sewage generated from the office building will be treated with the following unit processes: flow equalization, extended aeration, final clarification, rapid sand filtration, chlorination, de-chlorination and post aeration. Treated sewage will discharge through outfall 001 to an unnamed tributary of the Kiskiminetas River.

(1) The organic capacity was assumed based on the following equation:

Influent conc = 200 mg/l, therefore 200 mg/l x 0.0047 mgd x 8.345

Compliance History	
Summary of DMRs:	Reports of zero discharge are being sent monthly using the eDMR system.
Summary of Inspections:	Water Quality Specialist Supervisor John Murphy sent an email to this writer on April 21, 2020 with the following information: It appears the last time this facility was inspected was by inspector Dave Roote 2/21/14. He also inspected on 8/10/2012 and indicated that it was also inactive during that time. There were no violations either time. Ops has no information (violations or DMR exceedances) to suggest this permit should not be renewed. Ops can plan on inspecting this facility once we are back even in the office (DEP currently working at home due to Coronavirus Pandemic) though it appears to be inactive. It also has been more than 5 years since it was last inspected. Inspector Zac Flannagan was copied on the e-mail to plan a future inspection.

Development of Effluent Limitations

Outfall No. 001 **Design Flow (MGD)** 0.0047
Latitude 40º 29' 34.00" **Longitude** -79º 27' 45.00"
Wastewater Description: Sewage Effluent

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: The above effluent limitations are consistent with the previous permit.

Water Quality-Based Limitations

The following limitations were previously determined through water quality modeling:

Parameter	Limit (mg/l)	SBC	Model
NH_3-N	9.5	Average Monthly	WQM6.3

Comments: The above effluent limit is consistent with the previous NPDES permit.

Best Professional Judgment (BPJ) Limitations

Comments: A Dissolved Oxygen minimum limitation of 4.0 mg/L will be re-implemented based on the standard in 25 PA Code Chapter 93 and best professional judgment. This is applied for an activated sludge system.

TN and TP MONITORING:

Total Nitrogen and Total Phosphorus are to be monitored because the stream is nutrient impaired. The monitoring requirements are consistent with the previous NPDES permit.

Kiskiminetas River Basin:

Quarterly monitoring requirements are re-imposed on Iron, Manganese, and Aluminum because the receiving basin has a TMDL due to acid mine drainage.

Additional Considerations:

- Mass loading limits and influent monitoring are not applicable for non-publicly owned treatment works.
- The units for Fecal Coliform are now “No./100 ml” in lieu of “CFU/100 ml”.

- Daily sampling is now required for pH, Dissolved Oxygen (DO) and Total Residual Chlorine (TRC) to provide minimum assurance the facility is being operated properly once it is on-line. These parameters were previously required to be monitored 3/week. An explanation why increased monitoring is imposed is explained to the permittee in the draft cover letter.
- Effluent limitations for pH and DO are to be reported as “Instantaneous Minimum” in lieu of “Minimum”.

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)	0.0047	XXX	XXX	XXX	XXX	XXX	2/month	Measured
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/day	Grab
DO	XXX	XXX	4.0 Inst Min	XXX	XXX	XXX	1/day	Grab
TRC	XXX	XXX	XXX	0.5	XXX	1.6	1/day	Grab
CBOD5	XXX	XXX	XXX	25.0	XXX	50.0	2/month	Grab
TSS	XXX	XXX	XXX	30.0	XXX	60.0	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	XXX	Report Daily Max	XXX	1/month	Grab
Ammonia Nov 1 - Apr 30	XXX	XXX	XXX	25.0	XXX	50.0	2/month	Grab
Ammonia May 1 - Oct 31	XXX	XXX	XXX	9.5	XXX	19.0	2/month	Grab
Total Phosphorus	XXX	XXX	XXX	XXX	Report Daily Max	XXX	1/month	Grab
Total Aluminum	XXX	XXX	XXX	XXX	Report Daily Max	XXX	1/quarter	Grab
Total Iron	XXX	XXX	XXX	XXX	Report Daily Max	XXX	1/quarter	Grab
Total Manganese	XXX	XXX	XXX	XXX	Report Daily Max	XXX	1/quarter	Grab

Compliance Sampling Location: Outfall 001