

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

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. PA0032301
APS ID 1097031
Authorization ID 1455240

Applicant and Facility Information

Applicant Name	<u>M & B Environmental Inc.</u>	Facility Name	<u>Concord Ind Park STP</u>
Applicant Address	<u>744 Harleysville Pike</u> <u>Harleysville, PA 19438-2804</u>	Facility Address	<u>Conchester Road</u> <u>Glen Mills, PA 19342</u>
Applicant Contact	<u>Matthew Brozena</u>	Facility Contact	<u>Matthew Brozena</u>
Applicant Phone	<u>(215) 256-0042</u>	Facility Phone	<u>(215) 256-0042</u>
Client ID	<u>292400</u>	Site ID	<u>451633</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>Concord Township</u>
Connection Status	<u>No Limitations</u>	County	<u>Delaware</u>
Date Application Received	<u>September 1, 2023</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u></u>	If No, Reason	<u></u>
Purpose of Application	<u>Permit Renewal.</u>		

Summary of Review

The applicant requested approval for renewal of a NPDES permit to discharge an average monthly flow of 0.02 mgd of treated sewage from a sewage treatment plant serving Concord Industrial Park STP to an unnamed tributary of the West Branch of Chester Creek.

The plant consists of two treatment trains; one indoor and one outdoor. The units are; one EQ tank, two aeration tanks, one clarifier, two sand filters, one chlorine contact tank and one sludge holding tank. The discharge is in compliance with the effluent limitations in the permit.

Only Concord Industrial Park discharges and no other dischargers to this system. There were no process changes since last renewal. Parameter limits have been rolled over to this renewal.

E.Coli report only requirement has been added in the permit as per the revised SOP for Clean Water Program Establishing Effluent Limitations for Individual Sewage Permits SOP No. BCW-PMT-033.

“Solids Management” language describing proper disposal of sewage sludge and/or biosolids has been added in the “Part C” section of the renewal

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

Approve	Deny	Signatures	Date
x		<i>Vasantha</i> Vasantha Palakurti / Environmental Engineering Specialist	September 22, 2023
X		<i>Pravin Patel</i> Pravin C. Patel, P.E. / Environmental Engineer Manager	09/25/2023

Summary of Review

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.

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	001	Design Flow (MGD)	.02
Latitude	39° 53' 32.86"	Longitude	-75° 31' 19.92"
Quad Name		Quad Code	
Wastewater Description: Sewage Effluent			
Receiving Waters	West Branch Chester Creek (TSF, MF)	Stream Code	00542
NHD Com ID	25621436	RMI	6.45
Watershed No.	3-G	Chapter 93 Class.	TSF, MF
Assessment Status	Impaired		
Cause(s) of Impairment	CAUSE UNKNOWN, FLOW REGIME MODIFICATION, HABITAT ALTERATIONS, SILTATION		
Source(s) of Impairment	HABITAT MODIFICATION - OTHER THAN HYDROMODIFICATION, URBAN RUNOFF/STORM SEWERS, URBAN RUNOFF/STORM SEWERS, URBAN RUNOFF/STORM SEWERS		

Changes Since Last Permit Issuance: There were no process changes since last renewal.

Treatment Facility Summary				
Treatment Facility Name: Concord Ind Park STP				
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Tertiary	Extended Aeration With Solids Removal	Hypochlorite	0.02
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.02	41.7	Not Overloaded	Aerobic Digestion	Landfill

Compliance History

DMR Data for Outfall 001 (from August 1, 2022 to July 31, 2023)

Parameter	JUL-23	JUN-23	MAY-23	APR-23	MAR-23	FEB-23	JAN-23	DEC-22	NOV-22	OCT-22	SEP-22	AUG-22
Flow (MGD) Average Monthly	0.0065	0.0080	0.0062	0.0081	0.0075	0.0064	0.00718 4	0.0006	0.0049	0.0072	0.0061	0.0054
Flow (MGD) Daily Maximum	0.0106	0.0198	0.0118	0.0142	0.0109	0.0091	0.01147	0.0014	0.0084	0.0135	0.0098	0.0079
pH (S.U.) Instantaneous Minimum	7.1	7.1	6.9	7.1	7.0	7.0	7.0	6.8	7.1	7.0	7.11	6.89
pH (S.U.) Instantaneous Maximum	7.6	8.1	8.4	7.6	7.7	7.6	7.6	7.6	7.6	7.6	7.65	7.67
DO (mg/L) Instantaneous Minimum	7.9	4.3	9.2	9.5	10.3	10.2	10.4	11.7	9.8	9.7	8.18	7.99
TRC (mg/L) Average Monthly	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
TRC (mg/L) Instantaneous Maximum	0.5	0.5	0.5	0.4	0.5	0.43	0.4	0.43	0.5	0.51	0.52	0.51
CBOD5 (lbs/day) Average Monthly	< 0.1	< 0.2	< 0.1	< 0.2	< 0.2	< 0.1	< 0.1	< 0.01	< 0.08	< 0.1	0.2	0.2
CBOD5 (mg/L) Average Monthly	< 2	< 2.7	< 2.0	< 2.5	< 2.6	< 2.0	< 2.0	< 2	< 2	< 2.0	5.5	4.1
TSS (lbs/day) Average Monthly	< 0.2	< 0.1	< 0.1	< 0.1	0.07	< 0.05	0.3	0.02	< 0.04	< 0.05	< 0.04	0.07
TSS (mg/L) Average Monthly	< 3	< 1.5	< 2	< 2.0	1.0	< 1.0	4.0	3	< 1	< 1	< 1	1.5
Fecal Coliform (CFU/100 ml) Geometric Mean	< 4	< 2	< 8.0	< 2	< 2	< 2	< 2	< 2	< 2	< 2	< 4	< 2
Fecal Coliform (CFU/100 ml) Instantaneous Maximum	10	< 2	34.0	< 2	< 2	< 2	< 2	< 2	< 2	< 2	8	< 2
Total Nitrogen (mg/L) Average Monthly	36.74	43.56	< 40.72	43.6	< 46.46	49.2	< 48.8	< 50.25	< 54.1	< 34.29	40.35	51.42
Ammonia (mg/L) Average Monthly	0.1	0.2	< 0.1	0.1	0.1	0.1	< 0.04	0.3	0.02	0.05	< 0.02	0.1

**NPDES Permit Fact Sheet
Concord Ind Park STP**

NPDES Permit No. PA0032301

Total Phosphorus (lbs/day) Average Monthly	0.03	0.02	0.02	0.03	0.01	0.01	0.03	0.002	0.01	0.02	0.03	0.05
Total Phosphorus (mg/L) Average Monthly	0.4	0.3	0.4	0.4	0.2	0.2	0.5	0.2	0.3	0.4	0.7	1.0

Compliance History

Inspection conducted in December 2022 noted the facility failed to maintain the permitted treatment units in operable condition.

Sand filters- filters along drive are still in process of being removed from permit, only 1 filter along woods is operational.

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" (386-0400-001), 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	Report Daily Max	XXX	XXX	XXX	XXX	Continuous	Recorded
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	1.2	1/day	Grab
CBOD5	4.2	XXX	XXX	25	XXX	50	2/month	24-Hr Composite
TSS	5.0	XXX	XXX	30	XXX	60	2/month	24-Hr Composite
Fecal Coliform (CFU/100 ml)	XXX	XXX	XXX	200 Geo Mean	XXX	1000	2/month	Grab
E. Coli (No./100 ml)	XXX	XXX	XXX	XXX	XXX	Report	1/year	Grab
Total Nitrogen	XXX	XXX	XXX	Report	XXX	XXX	2/month	24-Hr Composite
Ammonia Nov 1 - Apr 30	XXX	XXX	XXX	9.0	XXX	18	2/month	24-Hr Composite
Ammonia May 1 - Oct 31	XXX	XXX	XXX	3.0	XXX	6	2/month	24-Hr Composite
Total Phosphorus Nov 1 - Apr 30	0.33	XXX	XXX	2.0	XXX	4	2/month	24-Hr Composite

Outfall 001 , Continued (from 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		
Total Phosphorus May 1 - Oct 31	0.17	XXX	XXX	1.0	XXX	2	2/month	24-Hr Composite

Approve	Deny	Signatures	Date
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X		<i>Pravin Patel</i> Pravin C. Patel, P.E. / Environmental Engineer Manager	09/25/2023