

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

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. PA0104558
 APS ID 1062166
 Authorization ID 1393902

Applicant and Facility Information

Applicant Name	<u>Stone Diversified LLC</u>	Facility Name	<u>Stone Diversified Laundromat</u>
Applicant Address	<u>152 Ketchum Road</u> <u>Utica, PA 16362-1230</u>	Facility Address	<u>3880 Sandy Lake Road</u> <u>Cochranton, PA 16314</u>
Applicant Contact	<u>Justin Bence</u>	Facility Contact	<u>Justin Bence</u>
Applicant Phone	<u>(724) 699-1541</u>	Facility Phone	<u>(724) 699-1541</u>
Client ID	<u>364525</u>	Site ID	<u>248159</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>Fairfield Township</u>
Connection Status		County	<u>Crawford</u>
Date Application Received	<u>April 27, 2022</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted		If No, Reason	
Purpose of Application	<u>NPDES permit renewal for discharge of treated sewage.</u>		

Summary of Review

1.0 General Discussion

This fact sheet supports the renewal of an existing NPDES permit for discharge of treated domestic wastewater from Stone Diversified Laundromat wastewater treatment plant located in Fairfield Township. The facility is an extended aeration treatment plant with design flow of 0.005 mgd and provides sanitary services to the laundromat and car wash. Treated sewage is discharged via a dry swale on unnamed tributary to French Creek into a wetland area. The previous factsheet indicated the effluent will not make it to the perennial stream. The unnamed tributary to French Creek is classified for warm water fishes (WWF). The existing NPDES permit was issued on April 16, 2017, with an effective date of May 1, 2017, and expiration date of April 30, 2022. The permit was transferred to the current owner on January 31, 2022. The applicant submitted permit renewal application to the Department is currently operating under the terms and conditions in the existing permit pending Department action on the renewal application. A topographic map showing the discharge location is presented in attachment A and the wetland area map is shown in attachment B.

1.1 Sludge use and disposal description and location(s):

Sludge is hold up in a sludge holding tank and hauled out by a licensed hauler periodically.

1.2 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

Approve	Deny	Signatures	Date
X		<i>J. Pascal Kwedza</i> J. Pascal Kwedza, P.E. / Environmental Engineer	May 2, 2025
X		Adam Olesnanik Adam Olesnanik, P.E. / Environmental Engineer Manager	May 22, 2025

Summary of Review

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.

1.3 Changes to the existing Permit

Annual monitoring of E. coli has been added to the current permit.

1.4 Discharge, Receiving Waters and Water Supply Information

Outfall No.	<u>001</u>	Design Flow (MGD)	<u>0.005</u>
Latitude	<u>41° 31' 0.8"</u>	Longitude	<u>80° 3' 25.3"</u>
Quad Name	<u>Cochranton</u>	Quad Code	<u>02032</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Unnamed Tributary to French Creek (WWF)</u>	Stream Code	<u>No code</u>
NHD Com ID	<u>127346456</u>	RMI	<u>0.48</u>
Drainage Area	<u>0.043 mi²</u>	Yield (cfs/mi ²)	<u></u>
Q ₇₋₁₀ Flow (cfs)	<u>0 (dry stream)</u>	Q ₇₋₁₀ Basis	<u>Dry Stream</u>
Elevation (ft)	<u></u>	Slope (ft/ft)	<u></u>
Watershed No.	<u>16-D</u>	Chapter 93 Class.	<u>WWF</u>
Existing Use	<u></u>	Existing Use Qualifier	<u></u>
Exceptions to Use	<u></u>	Exceptions to Criteria	<u></u>
Assessment Status	<u>Not Assessed</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	
pH (SU)	<u></u>		<u></u>
Temperature (°C)	<u></u>		<u></u>
Hardness (mg/L)	<u></u>		<u></u>
Other: NH ₃ -N	<u></u>		<u></u>
Nearest Downstream Public Water Supply Intake	<u>Aqua Pennsylvania, Inc. – Emlenton</u>		
PWS Waters	<u>Allegheny River</u>	Flow at Intake (cfs)	<u></u>
PWS RMI	<u>90.0</u>	Distance from Outfall (mi)	<u>55</u>

Changes Since Last Permit Issuance: None

1.4.1 Water Supply Intake

The nearest downstream water supply intake is approximately 55 miles downstream by Aqua Pennsylvania Inc. on Allegheny River. Due to the distance and dilution, no impact is expected from this discharge on the intake.

2.0 Treatment Facility Summary				
Treatment Facility Name: Ebberts Laundromat				
WQM Permit No.		Issuance Date		
2091407 T-1		4/26/2011		
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Extended Aeration	Hypochlorite	0.005
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.005		Not Overloaded	Aerobic Digestion	Other WWTP

2.1 Treatment Facility

Treatment plant consists of Bar screen, EQ tank, aeration tank, a clarifier, aerated sludge holding tank, and a chlorine contact tank with tablet chlorination.

3.0 Existing Effluent Limitations and Monitoring Requirements

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	1/week	Estimate
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	3/week	Grab
DO	XXX	XXX	4.0 Daily Min	XXX	XXX	XXX	3/week	Grab
TRC	XXX	XXX	XXX	0.5	XXX	1.6	3/week	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 Annl Avg	XXX	XXX	1/year	Grab
Ammonia	XXX	XXX	XXX	Report	XXX	XXX	1/month	Grab
Total Phosphorus	XXX	XXX	XXX	Report Annl Avg	XXX	XXX	1/year	Grab

3.1 Compliance History

3.1.1 DMR Data for Outfall 001 (from March 1, 2024 to February 28, 2025)

Parameter	FEB-25	JAN-25	DEC-24	NOV-24	OCT-24	SEP-24	AUG-24	JUL-24	JUN-24	MAY-24	APR-24	MAR-24
Flow (MGD) Average Monthly	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
Flow (MGD) Daily Maximum	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
pH (S.U.) Minimum	7.3	7.1	7.2	7.1	8.0	7.8	7.8	7.8	7.7	7.8	7.9	7.8
pH (S.U.) Maximum	7.7	7.8	7.8	7.9	8.1	8.2	8.1	8.0	8.0	8.1	8.1	8.1
DO (mg/L) Minimum	5.7	5.6	5.5	5.8	5.14	5.57	5.12	5.32	5.19	5.07	5.21	5.11
TRC (mg/L) Average Monthly	0.4	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.2	0.3
TRC (mg/L) Instantaneous Maximum	0.47	0.47	0.47	0.47	0.46	0.41	0.4	0.41	0.34	0.38	0.38	0.4
CBOD5 (mg/L) Average Monthly	18.5	12.6	13.0	18.4	28.6	23.9	37.2	43.9	< 10.5	16.0	6.0	< 5.0
TSS (mg/L) Average Monthly	18.0	< 51.5	161.0	17.5	22.0	20.5	57.5	62.0	< 13.0	13.0	< 7.0	< 5.0
Fecal Coliform (CFU/100 ml) Geometric Mean	< 2	< 1	7	< 1	< 2	> 177	< 1	> 2420	< 1	> 49	< 1	< 1
Fecal Coliform (CFU/100 ml) Instantaneous Maximum	5	< 1	44	< 1	5	> 2420	< 1	> 2420	< 1	> 2420	< 1	< 1
Total Nitrogen (mg/L) Annual Average			3.15									
Ammonia (mg/L) Average Monthly	1.07	0.226	0.164	0.336	0.613	1.44	0.1	1.87	1.18	< 0.304	< 0.4	4.09
Total Phosphorus (mg/L) Annual Average			< 0.5									

3.1.2 Effluent Violations for Outfall 001, from: April 1, 2024 To: February 28, 2025

Parameter	Date	SBC	DMR Value	Units	Limit Value	Units
CBOD5	07/31/24	Avg Mo	43.9	mg/L	25.0	mg/L
CBOD5	08/31/24	Avg Mo	37.2	mg/L	25.0	mg/L
CBOD5	10/31/24	Avg Mo	28.6	mg/L	25.0	mg/L
TSS	12/31/24	Avg Mo	161.0	mg/L	30.0	mg/L
TSS	08/31/24	Avg Mo	57.5	mg/L	30.0	mg/L
TSS	07/31/24	Avg Mo	62.0	mg/L	30.0	mg/L
TSS	01/31/25	Avg Mo	< 51.5	mg/L	30.0	mg/L
Fecal Coliform	07/31/24	Geo Mean	> 2420	CFU/100 ml	200	CFU/100 ml
Fecal Coliform	09/30/24	Geo Mean	> 177	CFU/100 ml	200	CFU/100 ml
Fecal Coliform	05/31/24	Geo Mean	> 49	CFU/100 ml	200	CFU/100 ml
Fecal Coliform	09/30/24	IMAX	> 2420	CFU/100 ml	1000	CFU/100 ml
Fecal Coliform	07/31/24	IMAX	> 2420	CFU/100 ml	1000	CFU/100 ml
Fecal Coliform	05/31/24	IMAX	> 2420	CFU/100 ml	1000	CFU/100 ml

3.1.3 Summary of DMRs:

DMRs review for the facility for the last 12 months of operation, presented on the table above in section 3.1.1 indicates permit limits have not been met consistently. CBOD5, TSS and Fecal coliform violations occurred during the past 12 months of operation as presented is section 3.1.2. It is unclear what is causing the violations. The violations appear to be operations related. The violations have not resulted in a notice of violation from the Department but operations and maintenance at the site need improvement.

3.1.4 Summary of Inspections:

The facility has been inspected a couple of times during the past permit cycle. January 9, 2020, inspection report identified odor as an issue due to build up of sludge in the digester and recommended sludge removal. Department Inspectors on May 4, 2022, observed weed growing in and around the aeration basin and recommend removing the weeds as soon as possible. The May 4, 2022, inspection report indicates the EQ tank had a thick layer of sludge/dirt mixture and looked to be in poor condition and the tank structure is beginning to fail as multiple holes were observed in the structure. The structure appears to be nearing end of useful life. The permittee needs to address treatment tank deteriorations as soon as possible.

4.0 Development of Effluent Limitations

Outfall No.	<u>001</u>	Design Flow (MGD)	<u>.005</u>
Latitude	<u>41° 30' 59.66"</u>	Longitude	<u>-80° 3' 24.21"</u>
Wastewater Description: <u>Sewage Effluent</u>			

4.1 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: None

4.2 Water Quality-Based Limitations

The previous factsheet indicated that due to the discharge not conveying to a perennial waterway during low flow, no water quality modeling is needed since there is nowhere to assign fish criteria in low flow. Therefore no water quality analysis was done for the current permit renewal.

4.2.1 Fecal Coliform and E. Coli

The existing Fecal Coliform limit is consistent with the technology limits recommended in 92a.47(a)(4) and (a)(5) and will remain in the permit. In March of 2021, EPA approved DEP’s Triennial Review of Water Quality Standards, which included a new swimming season criterion for E. coli. As a result, DEP is including monitoring requirements for E. Coli in new and renewed sewage permits above 2000gpd. Monitoring frequency is based on annual average flow as follows: 1/month for design flows >= 1 MGD, 1/quarter for design flows >= 0.05 and < 1 MGD and 1/year for design flows of 0.002 and < 0.05 MGD. Your discharge of 0.005 MGD requires 1/year monitoring as included in the permit.

4.3 Best Professional Judgment (BPJ) Limitations

A dissolved oxygen limit of a minimum of 4.0 mg/l, a TRC IMAX limit of 1.6, and monitoring for ammonia nitrogen, total nitrogen, and total phosphorus were added to the permit in accordance with the Department’s SOP entitled “Establishing Effluent Limits for Individual Sewage Permits.”

5.0 Additional Considerations

The entire main segment of French Creek from the Union City Reservoir to the confluence with the Allegheny River was designated by the United States Fish and Wildlife Services (USFWS) as “Critical Habitat” for the rabbitsfoot mussel, a federally listed threatened species, and is known to also contain other threatened and endangered mussel species. Due to the vicinity of this discharge to French Creek, potential impacts were evaluated.

The outfall is to a dry channel which proceeds to a swampy wetland area (See Attachment A). The previous factsheet indicated that a draft Department Memo on an aquatic biology investigation conducted on the unnamed tributary to French

Creek where this facility discharges, conducted on August 27, 2015, and December 30, 2015, concluded that the unnamed tributary extends approximately 0.6 miles and does not appear to discharge into French Creek except sometimes in peak flow conditions resulting from a large rain event. The report notes that the only water feeding the tributary is stormwater runoff so it is unlikely a discharge from the tributary will reach French Creek except during measurable rain or snow melt events.

It was concluded that this discharge is not expected to have an impact on endangered mussels in French Creek because the discharge would be so diluted with stormwater by the time it reaches the critical habitat designated watercourse. Additionally, the wetland area should provide natural filtering and treatment of pollutants.

5.1 Anti-backsliding

Not applicable to this permit

5.2 Anti-Degradation (93.4)

The effluent limits for this discharge have been developed to ensure that existing instream water uses and the level of water quality necessary to protect the existing uses are maintained and protected. No High-Quality Waters are impacted by this discharge. No Exceptional Value Waters are impacted by this discharge.

5.3 Class A Wild Trout Fisheries

No Class A Wild Trout Fisheries are impacted by this discharge.

5.4 303d Listed Streams

The discharge from this facility is to a stream segment that is not assessed.

6.0 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	1/week	Estimate
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	3/week	Grab
DO	XXX	XXX	4.0 Daily Min	XXX	XXX	XXX	3/week	Grab
TRC	XXX	XXX	XXX	0.5	XXX	1.6	3/week	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
E. Coli (No./100 ml)	XXX	XXX	XXX	XXX	XXX	Report	1/year	Grab
Total Nitrogen	XXX	XXX	XXX	Report AnnI Avg	XXX	XXX	1/year	Grab
Ammonia	XXX	XXX	XXX	Report	XXX	XXX	1/month	Grab
Total Phosphorus	XXX	XXX	XXX	Report AnnI Avg	XXX	XXX	1/year	Grab

Compliance Sampling Location: At Outfall 001

Tools and References Used to Develop Permit	
<input type="checkbox"/>	WQM for Windows Model (see Attachment [redacted])
<input type="checkbox"/>	Toxics Management Spreadsheet (see Attachment [redacted])
<input type="checkbox"/>	TRC Model Spreadsheet (see Attachment [redacted])
<input type="checkbox"/>	Temperature Model Spreadsheet (see Attachment [redacted])
<input type="checkbox"/>	Water Quality Toxics Management Strategy, 361-0100-003, 4/06.
<input type="checkbox"/>	Technical Guidance for the Development and Specification of Effluent Limitations, 386-0400-001, 10/97.
<input type="checkbox"/>	Policy for Permitting Surface Water Diversions, 386-2000-019, 3/98.
<input checked="" type="checkbox"/>	Policy for Conducting Technical Reviews of Minor NPDES Renewal Applications, 386-2000-018, 11/96.
<input type="checkbox"/>	Technology-Based Control Requirements for Water Treatment Plant Wastes, 386-2183-001, 10/97.
<input type="checkbox"/>	Technical Guidance for Development of NPDES Permit Requirements Steam Electric Industry, 386-2183-002, 12/97.
<input type="checkbox"/>	Pennsylvania CSO Policy, 386-2000-002, 9/08.
<input checked="" type="checkbox"/>	Water Quality Antidegradation Implementation Guidance, 391-0300-002, 11/03.
<input type="checkbox"/>	Implementation Guidance Evaluation & Process Thermal Discharge (316(a)) Federal Water Pollution Act, 386-2000-008, 4/97.
<input checked="" type="checkbox"/>	Determining Water Quality-Based Effluent Limits, 386-2000-004, 12/97.
<input type="checkbox"/>	Implementation Guidance Design Conditions, 386-2000-007, 9/97.
<input type="checkbox"/>	Technical Reference Guide (TRG) WQM 7.0 for Windows, Wasteload Allocation Program for Dissolved Oxygen and Ammonia Nitrogen, Version 1.0, 386-2000-016, 6/2004.
<input type="checkbox"/>	Interim Method for the Sampling and Analysis of Osmotic Pressure on Streams, Brines, and Industrial Discharges, 386-2000-012, 10/1997.
<input type="checkbox"/>	Implementation Guidance for Section 95.6 Management of Point Source Phosphorus Discharges to Lakes, Ponds, and Impoundments, 386-2000-009, 3/99.
<input type="checkbox"/>	Technical Reference Guide (TRG) PENTOXSD for Windows, PA Single Discharge Wasteload Allocation Program for Toxics, Version 2.0, 386-2000-015, 5/2004.
<input type="checkbox"/>	Implementation Guidance for Section 93.7 Ammonia Criteria, 386-2000-022, 11/97.
<input type="checkbox"/>	Policy and Procedure for Evaluating Wastewater Discharges to Intermittent and Ephemeral Streams, Drainage Channels and Swales, and Storm Sewers, 386-2000-013, 4/2008.
<input checked="" type="checkbox"/>	Implementation Guidance Total Residual Chlorine (TRC) Regulation, 386-2000-011, 11/1994.
<input type="checkbox"/>	Implementation Guidance for Temperature Criteria, 386-2000-001, 4/09.
<input type="checkbox"/>	Implementation Guidance for Section 95.9 Phosphorus Discharges to Free Flowing Streams, 386-2000-021, 10/97.
<input type="checkbox"/>	Implementation Guidance for Application of Section 93.5(e) for Potable Water Supply Protection Total Dissolved Solids, Nitrite-Nitrate, Non-Priority Pollutant Phenolics and Fluorides, 386-2000-020, 10/97.
<input type="checkbox"/>	Field Data Collection and Evaluation Protocol for Determining Stream and Point Source Discharge Design Hardness, 386-2000-005, 3/99.
<input type="checkbox"/>	Implementation Guidance for the Determination and Use of Background/Ambient Water Quality in the Determination of Wasteload Allocations and NPDES Effluent Limitations for Toxic Substances, 386-2000-010, 3/1999.
<input type="checkbox"/>	Design Stream Flows, 386-2000-003, 9/98.
<input type="checkbox"/>	Field Data Collection and Evaluation Protocol for Deriving Daily and Hourly Discharge Coefficients of Variation (CV) and Other Discharge Characteristics, 386-2000-006, 10/98.
<input type="checkbox"/>	Evaluations of Phosphorus Discharges to Lakes, Ponds and Impoundments, 386-3200-001, 6/97.
<input type="checkbox"/>	Pennsylvania's Chesapeake Bay Tributary Strategy Implementation Plan for NPDES Permitting, 4/07.
<input checked="" type="checkbox"/>	SOP: Establishing Effluent limits for individual sewage permit.
<input type="checkbox"/>	Other: [redacted]

Attachments

A. Topographical Map



B. Wetland Area Map

EBBERTS LAUNDROMAT DISCHARGE DIAGRAM



