

Application Type Renewal  
Wastewater Type Sewage  
Facility Type SRSTP

**NPDES PERMIT FACT SHEET  
INDIVIDUAL SFTF/SRSTP**

Application No. PA0248568  
APS ID 589566  
Authorization ID 1274192

**Applicant, Facility and Project Information**

Applicant Name	<u>Barbara L Angelo &amp; James M Angelo</u>	Facility Name	<u>James Angelo Residence</u>
Applicant Address	<u>12295 Turkey Farm Road</u> <u>Huntingdon, PA 16652-7737</u>	Facility Address	<u>12295 Turkey Farm Road</u> <u>Huntingdon, PA 16652-7737</u>
Applicant Contact	<u>James Angelo</u>	Facility Contact	<u>James Angelo</u>
Applicant Phone	<u>(814) 339-3001</u>	Facility Phone	<u></u>
Client ID	<u>249916</u>	Site ID	<u>673694</u>
SIC Code	<u>4952,6514</u>	Municipality	<u>Walker Township</u>
SIC Description	<u>Fin, Ins &amp; Real Est - Dwelling Operators, Except Apartments, Trans. &amp; Utilities - Sewerage Systems</u>	County	<u>Huntingdon</u>
Date Application Received	<u>May 3, 2019</u>	WQM Required	<u>NA</u>
Date Application Accepted	<u>May 23, 2019</u>	WQM App. No.	<u></u>
Project Description	<u>NPDES permit renewal.</u>		

**Summary of Review**

Mr. James M. Angelo has applied to the Pennsylvania Department of Environmental Protection (DEP) for reissuance of its NPDES permit. The existing NPDES permit was issued on October 23, 2014, authorizes the discharge of treated sewage from a small flow treatment facility that serves a single-family residence. The permit became effective on November 1, 2014 and expired on October 31, 2019. The facility has a design capacity of 400 gpd, and discharges to an UNT of Crooked Creek, which is classified for warm water fishes.

Changes from the previous permit: Unit of Fecal Coliform is changed from CFU/100 ml to No./100 ml.

Based on the review outline in this fact sheet, it is recommended that the permit be drafted and published in the Pennsylvania Bulletin for public comments for 30 days.

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		Hilary H. Le / Environmental Engineering Specialist	November 5, 2019
		Daniel W. Martin, P.E. / Environmental Engineer Manager	
		Maria D. Bebenek, P.E. / Clean Water Program Manager	

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	001	Design Flow (MGD)	0.0004
Latitude	40° 25' 47.00"	Longitude	-78° 5' 59.0"
Quad Name	Huntingdon	Quad Code	
Wastewater Description: Sewage Effluent			
Receiving Waters	Unnamed Tributary of Crooked Creek (WWF)	Stream Code	15523
NHD Com ID	65608350	RMI	1.78 miles
Drainage Area	4.89 mi. <sup>2</sup>	Yield (cfs/mi. <sup>2</sup> )	0.015 cfs/mi. <sup>2</sup>
Q <sub>7-10</sub> Flow (cfs)	0.0738	Q <sub>7-10</sub> Basis	USGS StreamStats
Elevation (ft)	706.6	Slope (ft/ft)	
Watershed No.	11B	Chapter 93 Class.	Warm Water Fishes
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	
Nearest Downstream Public Water Supply Intake	Mifflintown Borough Municipal Authority, Juniata County		
PWS Waters	Juniata River	Flow at Intake (cfs)	
PWS RMI	37.26 miles	Distance from Outfall (mi)	Approximate 64 miles

Changes Since Last Permit Issuance: none

Drainage Area:

The discharge is to unnamed tributary to Crooked Creek at RMI 1.78 miles. A drainage area at the point of discharge is estimated to be 4.89 square miles according to USGS StreamStats available at <https://streamstats.usgs.gov/ss/>.

Streamflow:

USGS StreamStats was produce a Q<sub>7-10</sub> flow of 0.0738 cfs at the point of discharge.

Unnamed Tributary to Crooked Creek:

Under 25 Pa Code § 93.9n, Unnamed Tributary to Crooked Creek is designated as warm water and migratory fishes. No special protection water(s) is impacted by this discharge. No Class A Wild Trout fishery is impacted by this discharge.

Public Water Supply Intake:

The fact sheet prepared for the renewal permit indicated that the nearest downstream public water supply intake is Mifflintown Borough Municipal Authority, Juniata County located on Juniata River, approximately 64 miles from the discharge. Considering dilution, the discharge is not expected to impact the water supply.

<b>Compliance History</b>	
<b>Summary of DMRs:</b>	AMRs have been consistently submitted to DEP.
<b>Summary of Inspections:</b>	<p>Last DEP inspection was on 8/1/2018. Annual Maintenance Reports (AMRs) have been received for 2015-2016, 2016-2017, and 2017-2018. The most AMR received on July 2, 2018 includes documentation that septic tank was pumped on May 31, 2018. There were violations failure to conduct annual monitoring for CBOD<sub>5</sub>, Total Suspended Solids (TSS) and Fecal Coliform as required by Part A.I.A of your NPDES Permit No. PA0248568.</p> <p>The lab report for the sample collected on 9/27/2018 indicated that CBOD<sub>5</sub> was &lt; 3.0 mg/l, TSS was &lt; 1.60 mg/L, and Fecal Coliform was 28.2 No./ 100 ml. However, the permit limits are 10 mg/L for CBOD<sub>5</sub> &amp; TSS and 200 CFU/100 ml for Fecal Coliform. These results indicated compliance with permit limits.</p>
<b>Other Comments:</b>	There are no open violations associated to facility or permittee.

### Treatment Facility Summary

The treatment system consists of a 1000-gallon primary treatment tank, a peat biofilter for secondary treatment and UV disinfection, and outfall. WQM No. 3106402 was issued on 10/30/2006.

### Development of Effluent Limitations and Monitoring Requirements

The reviewer notes that the existing CBOD<sub>5</sub>, and TSS monitoring frequencies and limits are consistent with the monitoring frequencies and limits recommended in DEP SOP No. BPNPSM-PMT-003 for SFTFs revised on May 17, 2019. The monitoring frequencies and limits from the previous permit will remain in the proposed permit.

For Flow, it is not necessary to perform daily maximum monitoring since the treated effluent is less than 2,000 GPD. The permit included a non-seasonal fecal coliform limit of 200 / 100 mL which is more stringent than the seasonal fecal limits (200 / 100 mL for summer; and 10,000 / 100 mL for winter). The reviewer notes that the frequency of sampling for Flow, and Fecal Coliform are recommended to remain the same as the existing permit.

#### Chesapeake Bay Requirements

No nutrient monitoring requirement is recommended for this facility. Facilities that are designed based on a flow of less than or equal to 2,000 GPD or considered as SRSTPs are exempt from the Bay requirements.

#### Total Maximum Daily Load (TMDL)

The discharge is located in a stream segment listed as attaining uses; therefore, no TMDL has been taken into consideration during this review.

#### Antidegradation Requirements

All effluent limitations and monitoring requirements 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.

#### Other Considerations

No Class A Wild Trout Fishery is impacted by this discharge. Considering dilution and distance from the intake, the discharge is not expected to affect the water supply.

**Existing Effluent Limitations and Monitoring Requirements**

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day)		Concentrations (mg/L)				Minimum Measurement Frequency	Required Sample Type
	Average Monthly		Minimum	Average Monthly		Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/year	Estimate
CBOD5	XXX	XXX	XXX	10	XXX	20	1/year	Grab
Total Suspended Solids	XXX	XXX	XXX	10	XXX	20	1/year	Grab
Fecal Coliform (CFU/100 ml)	XXX	XXX	XXX	200 Geo Mean	XXX	XXX	1/year	Grab

**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) <sup>(1)</sup>		Concentrations (mg/L)				Minimum <sup>(2)</sup> Measurement Frequency	Required Sample Type
	Average Monthly	Average Weekly	Minimum	Annual Average	Maximum	Instant. Maximum		
Flow (MGD)	Report	XXX	XXX	XXX	XXX	XXX	1/year	Estimate
CBOD5	XXX	XXX	XXX	10.0	XXX	20.0	1/year	Grab
TSS	XXX	XXX	XXX	10.0	XXX	20.0	1/year	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200 Geo Mean	XXX	XXX	1/year	Grab

Compliance Sampling Location:

Other Comments:

Topographic map

