

Application Type Renewal  
Wastewater Type Sewage  
Facility Type SFTF

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

Application No. PA0261441  
APS ID 714487  
Authorization ID 1307816

**Applicant, Facility and Project Information**

Applicant Name	<u>Playful Pups Retreat, LLC</u>	Facility Name	<u>Playful Pups Retreat</u>
Applicant Address	<u>850 Milton Grove Road North Elizabethtown, PA 17022</u>	Facility Address	<u>850 Milton Grove Road North Elizabethtown, PA 17022</u>
Applicant Contact	<u>Laurie Yost</u>	Facility Contact	<u>Laurie Yost</u>
Applicant Phone	<u>(717) 689-3408</u>	Facility Phone	<u>(717) 689-3408</u>
Client ID	<u>279142</u>	Site ID	<u>725508</u>
SIC Code	<u>0752</u>	Municipality	<u>Mount Joy Township</u>
SIC Description	<u>Agriculture - Animal Specialty Services</u>	County	<u>Lancaster</u>
Date Application Received	<u>February 26, 2020</u>	WQM Required	<u>No, already have existing WQM permit</u>
Date Application Accepted	<u>March 9, 2020</u>	WQM App. No.	<u></u>
Project Description	<u>NPDES Permit Renewal.</u>		

**Summary of Review**

Playful Pups Retreat, LLC has applied to the Pennsylvania Department of Environmental Protection (DEP) for reissuance of its National Pollutant Discharge Elimination System (NPDES) permit. The existing permit was issued on August 18, 2015, and became effective on September 1, 2015, authorizing discharge of treated sewage from the Playful Pups Retreat WWTP located in Mount Joy Township, Lancaster County into Unnamed Tributary (UNT) to Conewago Creek. The existing permit expiration date was August 31, 2020, and the permit has been administratively extended since that time.

Per the previous fact sheet, this facility serves the Playful Pups Retreat kennel, and has a hydraulic capacity of 0.00024 mgd. The original NPDES permit became effective on August 1, 2010. The treatment system consists of a 1,500 gallon two-compartment septic tank with a septic tank effluent filter, a 300 gallon dosing tank and pump, an Ecoflo peat filter, and a Salcor 3G UV unit. Treated sewage will discharge to UNT to Conewago Creek. A DEP biologist conducted a point of first use survey on December 15, 2009. The point of first use was determined to be at the discharge location. A topographic map showing the discharge location is attached.

No changes have been made in this permit renewal.

Supplemental information is attached to the end of this fact sheet.

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-

Approve	Deny	Signatures	Date
X		<i>Benjamin Lockwood</i> Benjamin R. Lockwood / Environmental Engineering Specialist	March 29, 2021
X		/s/ Daniel W. Martin, P.E. / Environmental Engineer Manager	April 27, 2021
X		/s/ Maria D. Bebenek, P.E. / Program Manager	April 27, 2021

**Summary of Review**

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.

Discharge and Stream Data – 2 - Receiving Waters and PWS

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	<u>001</u>	Design Flow (MGD)	<u>.00024</u>
Latitude	<u>40° 11' 40"</u>	Longitude	<u>76° 33' 6"</u>
Quad Name	<u>Elizabethtown</u>	Quad Code	<u>1733</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Unnamed Tributary to Conewago Creek (TSF)</u>	Stream Code	<u>09279</u>
NHD Com ID	<u>56403699</u>	RMI	<u>0.85</u>
Drainage Area	<u>0.28 mi<sup>2</sup></u>	Yield (cfs/mi <sup>2</sup> )	<u>0.021</u>
Q <sub>7-10</sub> Flow (cfs)	<u>0.00578</u>	Q <sub>7-10</sub> Basis	<u>USGS PA StreamStats</u>
Elevation (ft)	<u>537</u>	Slope (ft/ft)	<u></u>
Watershed No.	<u>7-G</u>	Chapter 93 Class.	<u>TSF</u>
Existing Use	<u>N/A</u>	Existing Use Qualifier	<u>N/A</u>
Exceptions to Use	<u>N/A</u>	Exceptions to Criteria	<u>N/A</u>
Assessment Status	<u>Attaining Use(s)</u>		
Cause(s) of Impairment	<u>N/A</u>		
Source(s) of Impairment	<u>N/A</u>		
TMDL Status	<u>Final</u>	Name	<u>Conewago Creek Watershed</u>
Nearest Downstream Public Water Supply Intake	<u>Elizabethtown Borough</u>		
PWS Waters	<u>Conewago Creek</u>	Flow at Intake (cfs)	<u></u>
PWS RMI	<u>10</u>	Distance from Outfall (mi)	<u>5</u>

Changes Since Last Permit Issuance: None

Other Comments: USGS PA StreamStats provided a drainage area of 0.28 mi<sup>2</sup> and a Q<sub>7-10</sub> of 0.00578 cfs.

Compliance History	
<b>Summary of DMRs:</b>	The application included results for three samples; the average monthly CBOD <sub>5</sub> limits, TSS limits, and fecal coliform limits all exceeded their respective permit limits.
<b>Summary of Inspections:</b>	<p>6/3/2016: A routine inspection was conducted. The discharge point was inspected, and the effluent was clear. There was a grey growth on the rocks by the outfall. It was noted that during this monitoring period, the effluent exceeded the CBOD<sub>5</sub> average monthly limit and the fecal coliform geo mean.</p> <p>11/19/2020: An administrative review was conducted. The average monthly CBOD<sub>5</sub> limits, TSS limits, and fecal coliform limits were exceeded during the 2019-2020 year.</p>

Other Comments: There are no open violations for the Applicant.

**Existing Effluent Limitations and Monitoring Requirements**

The table below summarizes the effluent limitations and monitoring requirements implemented in the existing NPDES permit.

**Outfall 001**

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day)		Concentrations (mg/L)				Minimum Measurement Frequency	Required Sample Type
	Average Monthly	Daily Maximum	Minimum	Average Monthly	Maximum	Instant. Maximum		
Flow (GPD)	Report	Report	XXX	XXX	XXX	XXX	2/year	Estimate
CBOD5	XXX	XXX	XXX	25	XXX	50	2/year	Grab
TSS	XXX	XXX	XXX	30	XXX	60	2/year	Grab
Fecal Coliform (CFU/100 ml)	XXX	XXX	XXX	200 Geo Mean	XXX	XXX	2/year	Grab

Compliance Sampling Location: Outfall 001

Other Comments: None

**Development of Effluent Limitations**

**Technology-Based Limitations**

The facility is regulated by standards found in 40 CFR § 133.102 and 25 Pa. Code § 92a.47(a). These standards are shown below:

<b>Pollutant</b>	<b>Limit (mg/l)</b>	<b>SBC</b>	<b>Federal Regulation</b>	<b>State Regulation</b>
CBOD <sub>5</sub>	25	Average Monthly	133.102(a)(4)(i)	92a.47(a)(1)
Total Suspended Solids	30	Average Monthly	133.102(b)(1)	92a.47(a)(1)
Fecal Coliform (5/1 – 9/30)	200 / 100 ml	Geo Mean	-	92a.47(a)(4)

The abovementioned technology-based limitations (TBELs) apply, subject to water quality analysis and BPJ where applicable. The SOP for New and Reissuance Small Flow Treatment Facility Individual NPDES Permit Applications (SOP No. BPNPSM-PMT-003) states that water quality modeling using Pentoxsd and/or WQM models will not be conducted for SFTFs or single residence sewage treatment plants (SRSTPs). The existing limits for carbonaceous biochemical oxygen demand (CBOD<sub>5</sub>), total suspended solids (TSS), and Fecal Coliform are consistent with the limits table provided in the SOP No. BCW-PMT-003, and will remain in the permit renewal.

**Chesapeake Bay Total Maximum Daily Load (TMDL)**

Facilities that are designed based on a flow of less than 2,000 gpd are exempt from the Chesapeake Bay requirements. Accordingly, it is not necessary for the permittee to perform nutrient monitoring.

**Conewago Creek TMDL**

A TMDL for Conewago Creek was completed and approved on March 2, 2001, and was revised on June 27, 2006. The TMDL does not define a wasteload allocation (WLA) for this discharge. DEP's SOP No. BPNPSM-PMT-003 states that if there is no WLA present in the TMDL for a SFTF, nothing further will be done.

**UV Disinfection**

This facility utilizes UV disinfection, so a Total Residual Chlorine (TRC) requirement is not applicable. Per DEP's SOP BCW-PMT-003, UV intensity or transmittance monitoring is not required.

**Anti-Degradation Requirements**

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.

**303d Listed Streams**

The discharge is located on a stream segment that is listed as attaining uses.

**Class A Wild Trout Fisheries**

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

**Anti-Backsliding**

Pursuant to 40 CFR § 122.44(l)(1), all proposed permit requirements addressed in this fact sheet are at least as stringent as the requirements implemented in the existing NPDES permit unless any exceptions addressed by DEP in this fact sheet.

**Proposed Effluent Limitations and Monitoring Requirements**

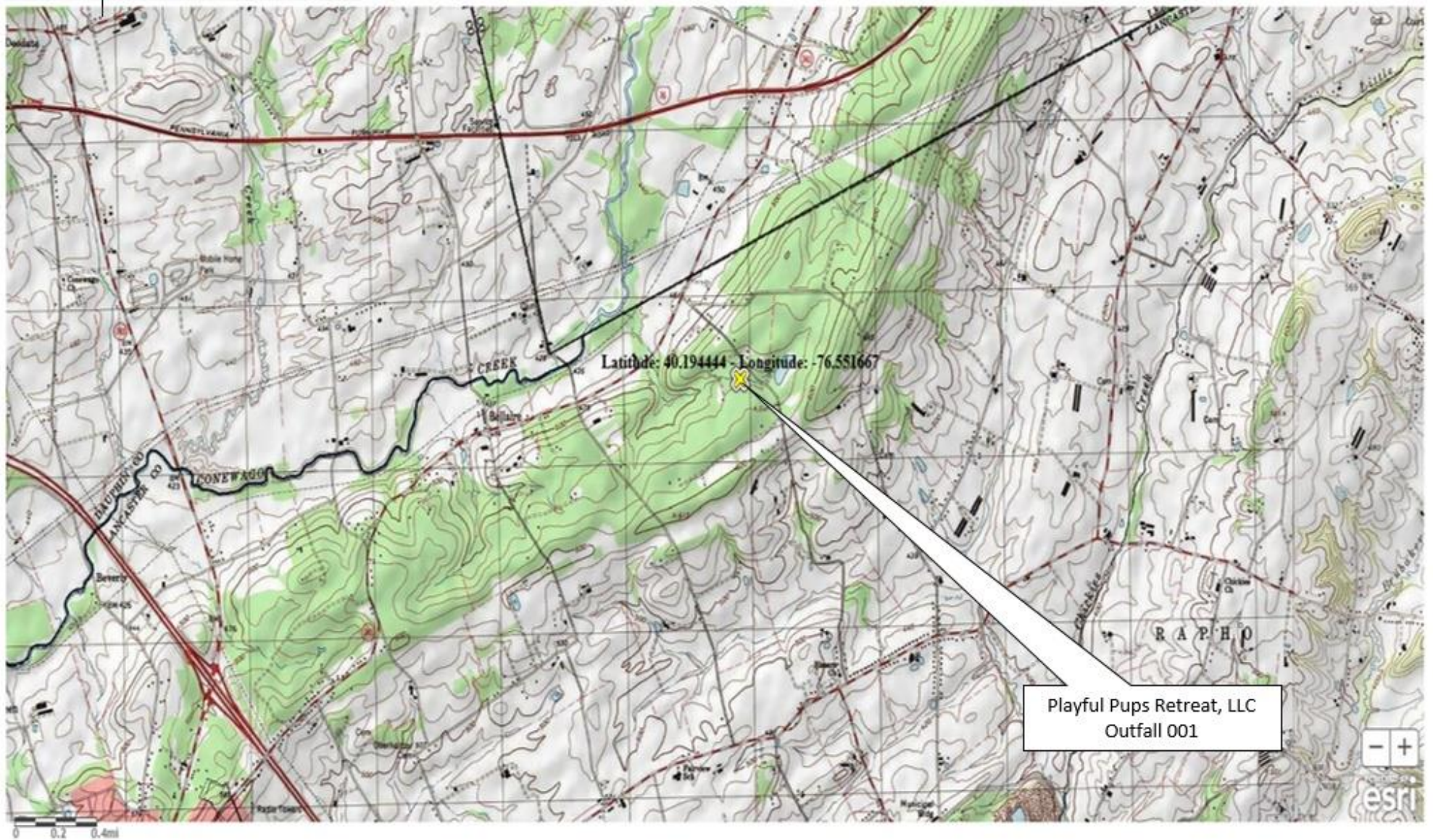
The limitations and monitoring requirements specified below are proposed for the draft permit, and reflect the most stringent limitations amongst technology, water quality and BPJ. Instantaneous Maximum (IMAX) limits are determined using multipliers of 2 (conventional pollutants) or 2.5 (toxic pollutants). 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
	Annual Average	Average Weekly	Minimum	Annual Average	Maximum	Instant. Maximum		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	2/year	Estimate
CBOD5	XXX	XXX	XXX	25	XXX	50	2/year	Grab
TSS	XXX	XXX	XXX	30	XXX	60	2/year	Grab
Fecal Coliform (No./100 ml)	XXX	XXX	XXX	200	XXX	XXX	2/year	Grab

Compliance Sampling Location: Outfall 001

Other Comments: None





Enter comments:

Some comments here

## Playful Pups Retreat, LLC PA0261441 Outfall 001

Region ID:

PA

Workspace ID:

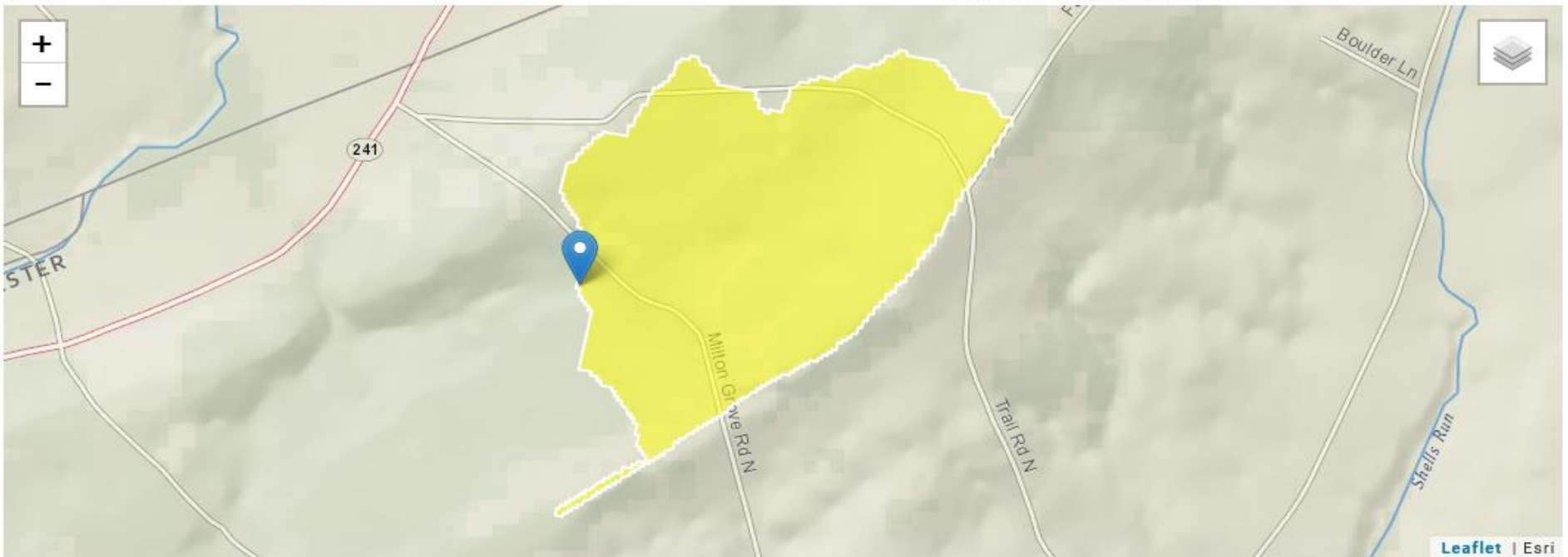
PA20210326200640277000

Clicked Point (Latitude, Longitude):

40.19464, -76.55179

Time:

2021-03-26 16:06:57 -0400



Basin Characteristics

Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	0.28	square miles
PRECIP	Mean Annual Precipitation	41	inches
STRDEN	Stream Density -- total length of streams divided by drainage area	1.56	miles per square mile
ROCKDEP	Depth to rock	4	feet
CARBON	Percentage of area of carbonate rock	0	percent

Low-Flow Statistics Parameters<sup>(100 Percent (0.276 square miles) Low Flow Region 2)</sup>

Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.28	square miles	4.93	1280
PRECIP	Mean Annual Precipitation	41	inches	35	50.4
STRDEN	Stream Density	1.56	miles per square mile	0.51	3.1
ROCKDEP	Depth to Rock	4	feet	3.32	5.65
CARBON	Percent Carbonate	0	percent	0	99

Low-Flow Statistics Disclaimers<sup>(100 Percent (0.276 square miles) Low Flow Region 2)</sup>

One or more of the parameters is outside the suggested range. Estimates were extrapolated with unknown errors

Low-Flow Statistics Flow Report<sup>(100 Percent (0.276 square miles) Low Flow Region 2)</sup>

Statistic	Value	Unit
7 Day 2 Year Low Flow	0.018	ft <sup>3</sup> /s
30 Day 2 Year Low Flow	0.0273	ft <sup>3</sup> /s
7 Day 10 Year Low Flow	0.00578	ft <sup>3</sup> /s
30 Day 10 Year Low Flow	0.00898	ft <sup>3</sup> /s
90 Day 10 Year Low Flow	0.0175	ft <sup>3</sup> /s

Low-Flow Statistics Citations

[Stuckey, M.H., 2006, Low-flow, base-flow, and mean-flow regression equations for Pennsylvania streams: U.S. Geological Survey Scientific Investigations Report 2006-5130, 84 p.](#)

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Application Version: 4.4.0