

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

**NPDES PERMIT FACT SHEET
INDIVIDUAL SEWAGE**

Application No. PA0083208
 APS ID 10255
 Authorization ID 1227238

Applicant and Facility Information

Applicant Name	<u>Refreshing Mountain Camp, Inc.</u>	Facility Name	<u>Refreshing Mountain Camp, Inc.</u>
Applicant Address	<u>455 Camp Road</u> <u>Stevens, PA 17578-9600</u>	Facility Address	<u>455 Camp Road</u> <u>Stevens, PA 17578-9600</u>
Applicant Contact	<u>Marlin Harnish</u>	Facility Contact	<u>Marlin Harnish</u>
Applicant Phone	<u>(717) 738-1490</u>	Facility Phone	<u>(717) 738-1490</u>
Client ID	<u>59283</u>	Site ID	<u>444149</u>
Ch 94 Load Status	<u>Not Overloaded</u>	Municipality	<u>Clay Township</u>
Connection Status	<u>No Limitations</u>	County	<u>Lancaster</u>
Date Application Received	<u>May 4, 2018</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>May 10, 2018</u>	If No, Reason	<u></u>
Purpose of Application	<u>NPDES Renewal.</u>		

Summary of Review

Refreshing Mountain Camp, Inc. has applied to the Pennsylvania Department of Environmental Protection (DEP) for reissuance of its National Pollutant Discharge Elimination System (NPDES) permit. The permit was issued October 16, 2013 and became effective on November 1, 2013, authorizing discharge of treated sewage from the existing wastewater treatment plant (WWTP) located in Clay Township, Lancaster County into UNT to Middle Creek. The existing permit expiration date was October 31, 2018, and the permit has been administratively extended since that time.

Per the previous fact sheet, the original WWTP was built in 1960 using Imhoff tanks for treatment with two (2) 500 ft² intermediate sand filters and chlorine contact prior to discharge. Over time, the Imhoff tanks were replaced with septic tanks. The WWTP has been permitted to treat and discharge 6,000 gallons per day (gpd) as a monthly average using septic tanks and sand filters as the primary treatment. The WWTP was modified in 2010 to improve the treatment. The modification included the conversion of five (5) 2,000 gallon holding tanks to equalization tanks, the addition of a Polylok effluent filter, the conversion of the sand filters to a single recirculation sand filter, and the reconstruction of the chlorine contact tank for treatment of the effluent prior to discharge. The property is comprised of 408 beds and 50 campsites, including motel rooms, bunk buildings, campsites, public restrooms, shower rooms, and a dining hall. Persons that stay in the motels and the campsites use the public restrooms and the dining hall. The facility is used mostly during the summer with weekend retreats during the remaining months. Effluent is discharged to the side of a wooded hillside and sinks immediately into the boulders and ground. No stream, ditch, or drainage swale is evident at the discharge. Down the mountainside, approximately 400', a spring emerges. Another 100' downstream and the spring flow has been discovered to support mayflies and stoneflies. Further downstream where a dirt road crosses, the stream becomes intermittent during dry periods. At the time, this situation was discussed with one of DEP's aquatic biologists, who agreed that the point of first use would be considered to be where the spring emerges from the ground, and the discharge would be considered a dry stream discharge or groundwater recharge.

Approve	Deny	Signatures	Date
X		Benjamin Lockwood Benjamin R. Lockwood / Environmental Engineering Specialist	March 8, 2021
X		Daniel W. Martin, P.E. / Environmental Engineer Manager	March 12, 2021
X		Maria D. Bebenek, P.E. / Program Manager	March 12, 2021

Summary of Review

Changes to this renewal: No changes were made to this renewal.

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

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-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, Receiving Waters and Water Supply Information			
Outfall No.	<u>001</u>	Design Flow (MGD)	<u>.006</u>
Latitude	<u>40° 14' 57.9"</u>	Longitude	<u>76° 14' 0.8"</u>
Quad Name	<u>Ephrata</u>	Quad Code	<u>1736</u>
Wastewater Description: <u>Sewage Effluent</u>			
Receiving Waters	<u>Unnamed Tributary to Middle Creek (TSF)</u>	Stream Code	<u>07699</u>
NHD Com ID	<u>57461495</u>	RMI	<u>1.02</u>
Drainage Area	<u>0.12 mi²</u>	Yield (cfs/mi ²)	<u>0.066</u>
Q ₇₋₁₀ Flow (cfs)	<u>0.00791</u>	Q ₇₋₁₀ Basis	<u>USGS PA StreamStats</u>
Elevation (ft)	<u>542</u>	Slope (ft/ft)	<u></u>
Watershed No.	<u>7-J</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>Impaired</u>		
Cause(s) of Impairment	<u>Pathogens</u>		
Source(s) of Impairment	<u>Source Unknown</u>		
TMDL Status	<u>N/A</u>	Name	<u>N/A</u>
Nearest Downstream Public Water Supply Intake	<u>Lancaster City Water Bureau</u>		
PWS Waters	<u>Conestoga River</u>	Flow at Intake (cfs)	<u></u>
PWS RMI	<u></u>	Distance from Outfall (mi)	<u>23.64</u>

Changes Since Last Permit Issuance: USGS PA StreamStats provided a drainage area of 0.12 mi² and a Q₇₋₁₀ flow of 0.00791 cfs.

Other Comments: None

Treatment Facility Summary				
Waste Type	Degree of Treatment	Process Type	Disinfection	Avg Annual Flow (MGD)
Sewage	Secondary	Septic Tank Sand Filter	Hypochlorite	0.006
Hydraulic Capacity (MGD)	Organic Capacity (lbs/day)	Load Status	Biosolids Treatment	Biosolids Use/Disposal
0.006		Not Overloaded	Sludge Holding	Other WWTP

Changes Since Last Permit Issuance: None

Other Comments: The WWTP process is as follows: 3 Septic Tanks – 4 Equalization Tanks – 2 Dosing Tanks – 2 Sand Filters – Chlorine Contact Tank (with liquid feed) – Outfall 001 to UNT to Middle Creek. The system uses liquid sodium hypochlorite for disinfection.

Compliance History	
Summary of DMRs:	A summary of the past 12-month DMR effluent data is presented on the next page of this fact sheet
Summary of Inspections:	<p>5/9/2017: A routine inspection was conducted. All treatment units were online. The holding tank was online and aerated. No issues were noted.</p> <p>11/1/2019: A Notice of Violation (NOV) was issued due to effluent violations of the NPDES permit. Specifically, violations were noted dating back to 2015 for Fecal Coliform, TSS, TRC, CBOD₅, and late DMR submissions.</p> <p>5/27/2020: An administrative inspection was conducted. DMRs from June 2019 to April 2020 were reviewed, and several discrepancies were noted. For several months, the TRC monthly average value was underreported, when it should have been noted as a violation.</p>

Other Comments: There are currently no open violations associated with the permittee or facility.

Compliance History

DMR Data for Outfall 001 (from February 1, 2020 to January 31, 2021)

Parameter	JAN-21	DEC-20	NOV-20	OCT-20	SEP-20	AUG-20	JUL-20	JUN-20	MAY-20	APR-20	MAR-20	FEB-20
Flow (MGD) Average Monthly	0.00322 4	0.00544	0.00266	343	0.00456	0.00458	0.00381	0.00367			0.00098	0.00192
Flow (MGD) Daily Maximum	0.00576	0.0084	0.00528	0.00576	0.00972	0.00576	0.00576	0.00576			0.00324	0.00504
pH (S.U.) Minimum	6.65	6.71	6.78	6.67	6.84	6.8	6.09	6.98			6.94	7.34
pH (S.U.) Maximum	6.88	7.14	7.04	7.35	7.12	7.06	7.19	7.33			7.6	7.72
TRC (mg/L) Average Monthly	0.32	0.26	0.42	0.33	0.42	0.46	0.46	0.49			0.49	0.50
TRC (mg/L) Instantaneous Maximum	0.51	0.72	0.67	0.68	0.85	0.67	0.86	0.89			0.79	0.95
CBOD5 (mg/L) Average Monthly	4.05	3.35	5.1	15.6	7.45	4.65	9.75	24.2			25.26	22.7
TSS (mg/L) Average Monthly	5.5	< 1	< 5	8	< 1	1	2.5	14.5			11.5	10
Fecal Coliform (CFU/100 ml) Geometric Mean	8.83	2	15.10	1.73	41.95	2.24	1	2.45			0.55	1.73
Fecal Coliform (CFU/100 ml) Instantaneous Maximum	26	2	57	3	4.4	5	1	6			3	3
Nitrate-Nitrite (lbs/year) Total Annual		74.1										
Nitrate-Nitrite (mg/L) Annual Average		74.1										
Total Nitrogen (lbs/year) Total Annual		< 1										
Total Nitrogen (mg/L) Annual Average		< 1										
TKN (lbs/year) Total Annual		< 1										
TKN (mg/L) Annual Average		< 1										

**NPDES Permit Fact Sheet
Refreshing Mountain Camp**

NPDES Permit No. PA0083208

Total Phosphorus (lbs/year) Total Annual		12.8										
Total Phosphorus (mg/L) Annual Average		12.8										

Compliance History

Effluent Violations for Outfall 001, from: March 1, 2020 To: January 31, 2021

Parameter	Date	SBC	DMR Value	Units	Limit Value	Units
CBOD5	03/31/20	Avg Mo	25.26	mg/L	25	mg/L
CBOD5	03/31/20	Avg Mo	25.26	mg/L	25	mg/L

Existing Effluent Limitations and Monitoring Requirements

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

Outfall 001

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽¹⁾		Concentrations (mg/L)				Minimum ⁽²⁾ Measurement Frequency	Required Sample Type
	Average Monthly	Total Annual	Minimum	Average Monthly	Maximum	Instant. Maximum		
Flow (MGD)	Report	Report Daily Max	XXX	XXX	XXX	XXX	1/week	Measured
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/day	Grab
TRC	XXX	XXX	XXX	0.50	XXX	1.6	1/day	Grab
CBOD5	XXX	XXX	XXX	25	XXX	50	2/month	Grab
TSS	XXX	XXX	XXX	30	XXX	60	2/month	Grab
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2,000 Geo Mean	XXX	10,000	2/month	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1,000	2/month	Grab
Nitrate-Nitrite (lbs/year)	XXX	Report	XXX	Report Annl Avg	XXX	XXX	1/year	Grab
Total Nitrogen (lbs/year)	XXX	Report	XXX	Report Annl Avg	XXX	XXX	1/year	Grab
TKN (lbs/year)	XXX	Report	XXX	Report Annl Avg	XXX	XXX	1/year	Grab
Total Phosphorus (lbs/year)	XXX	Report	XXX	Report Annl Avg	XXX	XXX	1/year	Grab

Compliance Sampling Location: At discharge from treatment facility

Other Comments: None

Development of Effluent Limitations

Outfall No. <u>001</u>	Design Flow (MGD) <u>.006</u>
Latitude <u>40° 14' 57.9"</u>	Longitude <u>76° 14' 0.8"</u>
Wastewater Description: <u>Sewage Effluent</u>	

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)

Carbonaceous Biochemical Oxygen Demand (CBOD₅) and Ammonia (NH₃-N)

As described in past NPDES renewal fact sheets, due to the situation of the discharge at this facility, it is not necessary to run WQM 7.0. The effluent does not reach the point of first use in a direct manner. No impacts on the intermittent spring have been observed. Therefore, NH₃-N limits or monitoring will not be included in the permit. The existing technology based CBOD₅ limits of 25 mg/l average monthly and 50 mg/l IMAX will remain in the permit.

TSS

PA Code § 92a.47.(a)(1) requires an average monthly TSS limit of 30 mg/l for discharges of sewage. This is the same as the existing limit, which will remain in the permit.

pH

PA Code § 95.2(1) requires effluent pH limits of 6.0 to 9.0 standard units (S.U.) at all times in effluent. The permit will continue to require pH limit of 6.0 to 9.0 S.U.

Fecal Coliform

PA Code § 92a.47.(a)(4) requires a monthly average limit of 200/100 mL as a geometric mean and an instantaneous maximum limit not greater than 1,000/100 mL from May through September for fecal coliform. PA Code § 92a.47.(a)(5) requires a monthly average limit of 2,000/100 mL as a geometric mean and an instantaneous maximum limit not greater than 10,000/100 mL from October through April for fecal coliform. These limits will remain in the permit renewal.

Total Residual Chlorine

As in past permit renewals, a facility-specific BAT was not developed, as the discharge does not directly reach the point of first use. The technology limits of 0.50 mg/l average monthly and 1.6 mg/l IMAX will remain in the permit.

Total Phosphorus

Previous NPDES renewal fact sheets reviewed the need for TP limits, and determined they were not necessary. The phosphorus load to the lower Susquehanna River was determined to be 0.26 lbs/day, which represented 0.007% of the total estimated load of 3,814 lbs/day to the lower Susquehanna River. This is below the 0.25% requirement for the establishment of phosphorus limits. Therefore, TP limits will not be applied to this renewal permit.

Chesapeake Bay Total Maximum Daily Load (TMDL)

DEP developed a strategy to comply with the EPA and Chesapeake Bay Foundation requirements by reducing point source loadings of Total Nitrogen (TN) and Total Phosphorus (TP). This strategy can be located in the *Pennsylvania Chesapeake Watershed Implementation Plan* (WIP), dated January 11, 2011. Subsequently, an update to the WIP was published as the Phase 2 WIP. As part of the Phase 2 WIP, a *Phase 2 Watershed Implementation Plan Wastewater Supplement* (Phase 2 Supplement) was developed, providing an update on TMDL implementation for point sources and DEP's current implementation strategy for wastewater. A new update to the WIP was published as the Phase 3 WIP in August 2019. As part of the Phase 3 WIP, a *Phase 3 Watershed Implementation Plan Wastewater Supplement* (Phase 3 Supplement) was developed, and was most recently revised on December 17, 2019, and is the basis for the development of any Chesapeake Bay related permit parameters. Sewage discharges have been prioritized based on their design flow to the Bay. The highest priority (Phases 1, 2, and 3) dischargers will receive annual Cap Loads based on their design flow on August 29, 2005 and concentrations of 6 mg/l TN and 0.8 mg/l TP. These limits may be achieved through a combination of treatment technology, credits, or offsets. For Phase 4 and 5 facilities, Cap Loads are not currently being implemented for renewed or amended permits for facilities that do not increase design flow.

This facility is considered a Phase 5 non-significant discharger with a design flow less than 0.2 MGD but greater than 0.002 MGD. According to DEP's latest-revised Phase 3 Supplement, issuance of permits with monitoring and reporting for TN and TP is recommended for any Phase 5 non-significant sewage facilities. Furthermore, DEP's SOP No. BCW-PMT-033 states that in general, at a minimum, monitoring for TN and TP should be included in new and reissued permits for sewage discharges with design flows > 2,000 gpd. Therefore, TN and TP monitoring will be included in the renewed permit, which is consistent with the existing permit.

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.

303d Listed Streams

The discharge is located on a stream segment that has a recreational impairment from pathogens due to an unknown source. The permit includes fecal coliform limits.

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 are 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.

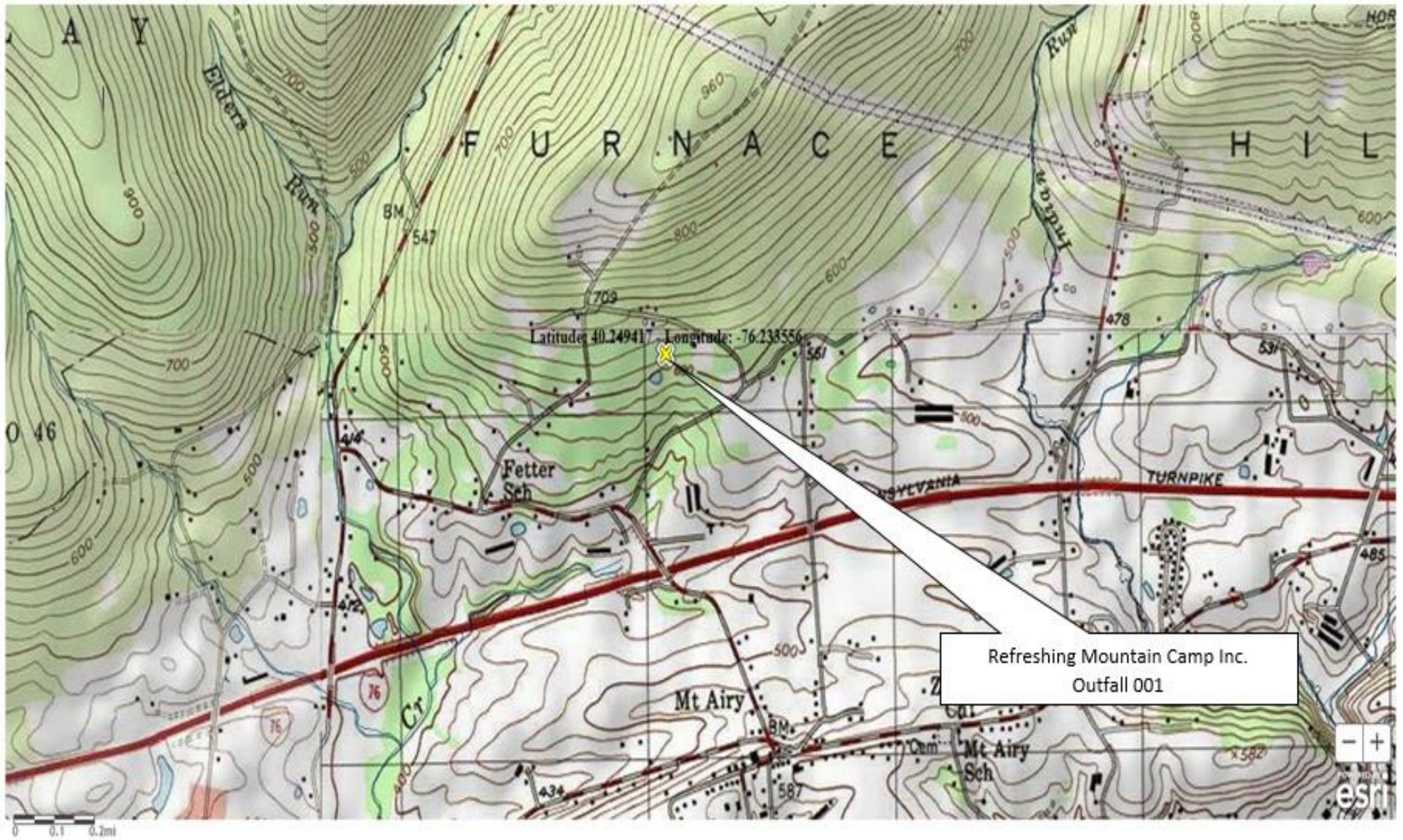
Outfall 001, Effective Period: Permit Effective Date through Permit Expiration Date.

Parameter	Effluent Limitations						Monitoring Requirements	
	Mass Units (lbs/day) ⁽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	Measured
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/day	Grab
TRC	XXX	XXX	XXX	0.50	XXX	1.6	1/day	Grab
CBOD5	XXX	XXX	XXX	25	XXX	50	2/month	Grab
TSS	XXX	XXX	XXX	30	XXX	60	2/month	Grab
Fecal Coliform (No./100 ml) Oct 1 - Apr 30	XXX	XXX	XXX	2,000 Geo Mean	XXX	10,000	2/month	Grab
Fecal Coliform (No./100 ml) May 1 - Sep 30	XXX	XXX	XXX	200 Geo Mean	XXX	1,000	2/month	Grab
Nitrate-Nitrite (lbs/year)	XXX	Report Total Annual	XXX	Report Annl Avg	XXX	XXX	1/year	Grab
Total Nitrogen (lbs/year)	XXX	Report Total Annual	XXX	Report Annl Avg	XXX	XXX	1/year	Grab
TKN (lbs/year)	XXX	Report Total Annual	XXX	Report Annl Avg	XXX	XXX	1/year	Grab
Total Phosphorus (lbs/year)	XXX	Report Total Annual	XXX	Report Annl Avg	XXX	XXX	1/year	Grab

Compliance Sampling Location: At discharge from facility

Other Comments: None

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 checked="" type="checkbox"/>	Technical Guidance for the Development and Specification of Effluent Limitations, 362-0400-001, 10/97.
<input type="checkbox"/>	Policy for Permitting Surface Water Diversions, 362-2000-003, 3/98.
<input type="checkbox"/>	Policy for Conducting Technical Reviews of Minor NPDES Renewal Applications, 362-2000-008, 11/96.
<input type="checkbox"/>	Technology-Based Control Requirements for Water Treatment Plant Wastes, 362-2183-003, 10/97.
<input type="checkbox"/>	Technical Guidance for Development of NPDES Permit Requirements Steam Electric Industry, 362-2183-004, 12/97.
<input type="checkbox"/>	Pennsylvania CSO Policy, 385-2000-011, 9/08.
<input 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, 391-2000-002, 4/97.
<input type="checkbox"/>	Determining Water Quality-Based Effluent Limits, 391-2000-003, 12/97.
<input type="checkbox"/>	Implementation Guidance Design Conditions, 391-2000-006, 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, 391-2000-007, 6/2004.
<input type="checkbox"/>	Interim Method for the Sampling and Analysis of Osmotic Pressure on Streams, Brines, and Industrial Discharges, 391-2000-008, 10/1997.
<input type="checkbox"/>	Implementation Guidance for Section 95.6 Management of Point Source Phosphorus Discharges to Lakes, Ponds, and Impoundments, 391-2000-010, 3/99.
<input type="checkbox"/>	Technical Reference Guide (TRG) PENTOXSD for Windows, PA Single Discharge Wasteload Allocation Program for Toxics, Version 2.0, 391-2000-011, 5/2004.
<input type="checkbox"/>	Implementation Guidance for Section 93.7 Ammonia Criteria, 391-2000-013, 11/97.
<input type="checkbox"/>	Policy and Procedure for Evaluating Wastewater Discharges to Intermittent and Ephemeral Streams, Drainage Channels and Swales, and Storm Sewers, 391-2000-014, 4/2008.
<input type="checkbox"/>	Implementation Guidance Total Residual Chlorine (TRC) Regulation, 391-2000-015, 11/1994.
<input type="checkbox"/>	Implementation Guidance for Temperature Criteria, 391-2000-017, 4/09.
<input type="checkbox"/>	Implementation Guidance for Section 95.9 Phosphorus Discharges to Free Flowing Streams, 391-2000-018, 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, 391-2000-019, 10/97.
<input type="checkbox"/>	Field Data Collection and Evaluation Protocol for Determining Stream and Point Source Discharge Design Hardness, 391-2000-021, 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, 391-2000-022, 3/1999.
<input type="checkbox"/>	Design Stream Flows, 391-2000-023, 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, 391-2000-024, 10/98.
<input type="checkbox"/>	Evaluations of Phosphorus Discharges to Lakes, Ponds and Impoundments, 391-3200-013, 6/97.
<input type="checkbox"/>	Pennsylvania's Chesapeake Bay Tributary Strategy Implementation Plan for NPDES Permitting, 4/07.
<input checked="" type="checkbox"/>	SOP: No. BCW-PMT-002, No. BCW-PMT-033
<input type="checkbox"/>	Other: [redacted]



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Enter report title:

Refreshing Mountain Camp, Inc. PA0083208 POFU

Enter comments:

Some comments here

Refreshing Mountain Camp, Inc. PA0083208 POFU

Region ID:

PA

Workspace ID:

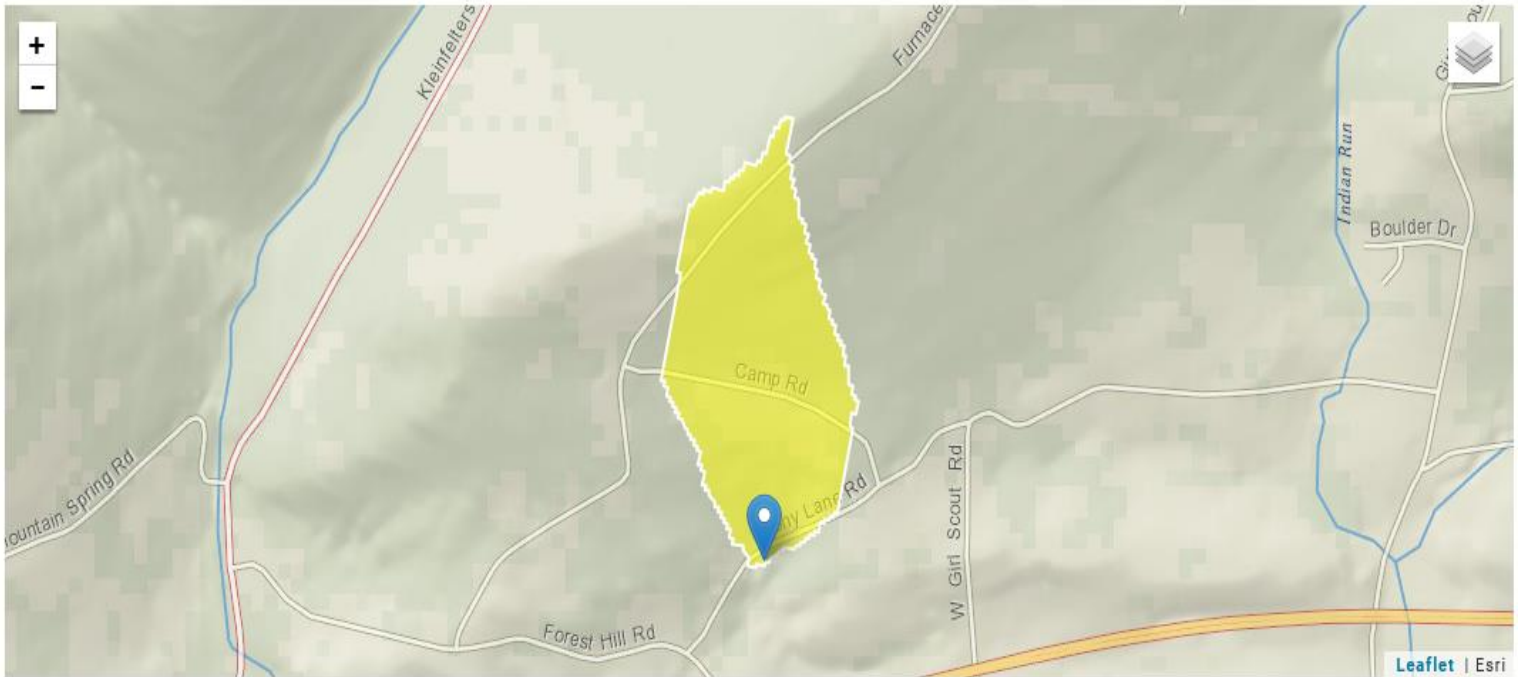
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Time:

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Basin Characteristics			
Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	0.12	square miles
BSLOPD	Mean basin slope measured in degrees	8.2201	degrees
ROCKDEP	Depth to rock	3.9	feet
URBAN	Percentage of basin with urban development	0.2995	percent

Low-Flow Statistics Parameters ^[Low Flow Region 1]					
Parameter Code	Parameter Name	Value	Units	Min Limit	Max Limit
DRNAREA	Drainage Area	0.12	square miles	4.78	1150
BSLOPD	Mean Basin Slope degrees	8.2201	degrees	1.7	6.4
ROCKDEP	Depth to Rock	3.9	feet	4.13	5.21
URBAN	Percent Urban	0.2995	percent	0	89

Low-Flow Statistics Disclaimers^[Low Flow Region 1]

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

Low-Flow Statistics Flow Report ^[Low Flow Region 1]		
Statistic	Value	Unit
7 Day 2 Year Low Flow	0.0205	ft ³ /s
30 Day 2 Year Low Flow	0.0271	ft ³ /s
7 Day 10 Year Low Flow	0.00791	ft ³ /s
30 Day 10 Year Low Flow	0.0114	ft ³ /s
90 Day 10 Year Low Flow	0.0166	ft ³ /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.](#)

USGS Data Disclaimer: Unless otherwise stated, all data, metadata and related materials are considered to satisfy the quality standards relative to the purpose for which the data were collected. Although these data and associated metadata have been reviewed for accuracy and completeness and approved for release by the U.S. Geological Survey (USGS), no warranty expressed or implied is made regarding the display or utility of the data for other purposes, nor on all computer systems, nor shall the act of distribution constitute any such warranty.

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Application Version: 4.4.0