Pennsylvania Department of Environmental Protection

NORTHCENTRAL REGIONAL OFFICE
CLEAN WATER PROGRAM

Application Type	**Renewal**	Application No.	**PA0110540**
Facility Type	**Industrial**	APS ID	**1075017**
Major / Minor	**Minor**	Authorization ID	**1416415**

NPDES PERMIT FACT SHEET
ADDENDUM 01

Applicant and Facility Information

Applicant Name	**Furman Foods, Inc.**	Facility Name	**Northumberland Cannery**
Applicant Address	P.O. Box 500	Facility Address	770 Cannery Road
	Northumberland, PA 17857-0500		Northumberland, PA 17857-8615
Applicant Contact	Shawn Sassaman	Facility Contact	Shawn Sassaman
Applicant Phone	570-473-3516	Facility Phone	570-473-3516
Client ID	25270	Site ID	457596
SIC Code	2033	Municipality	Point Township
SIC Description	Manufacturing - Canned Fruits And Vegetables	County	Northumberland
Date Published in PA Bulletin	July 26, 2025	EPA Waived?	No
Comment Period End Date	August 25, 2025	If No, Reason	Significant CB Discharge
Purpose of Application	Renewal of NPDES permit		

Internal Review and Recommendations

INTRODUCTION

Furman Foods, Inc. (Furman) is a vegetable canning facility located in Point Township, Northumberland County. Furman has applied to renew its existing NPDES permit authorizing discharges of treated process wastewater, non-contact cooling water and stormwater.

APPLICATION

Furman submitted the *NPDES Application for Individual Permit to Discharge Industrial Wastewater* (DEP #3800-PM-BCW0008b). The application was received by the Department on October 03, 2022 and considered administratively complete on November 14, 2022. Shawn A. Sassaman, PE, Environmental Engineer with Furman, is both the client and site contacts. His additional contact information is (email) shawn.sassaman@furmanos.com.

INDUSTRIAL ACTIVITY

Furman, which sells tomatoes and vegetables under the *Furmano's* label, operates a vegetable processing facility with industrial wastewater treatment. Vegetables canned include dry beans (kidney, butter, navy, etc.). Fresh vegetables are also packaged, including tomatoes, snap beans, peppers and peas. The IWTF currently consists of vegetable screening/strainer (at the point of vegetable waste generation), coarse bar screens, a grinder, a rotary drum screen, a raw wastewater pump station, equalization, anaerobic (low rate) pretreatment, flow distribution, activated sludge treatment with parallel aeration tanks (diffused aeration), pH/alkalinity adjustment, RAS/WAS pump stations, gas chlorine disinfection, sulfur dioxide dechlorination and flow metering. Both the solids from the initial screening and the solids from the anaerobic digestion are land applied on fields owned by Furman.

The Standard Industrial Classification (SIC) code for this facility is 2033 - *Canned Fruits, Vegetables, Preserves, Jams, and Jellies*. This code is defined at https://www.osha.gov as *Establishments primarily engaged in canning fruits, vegetables and fruit and vegetable juices; and in manufacturing catsup and similar tomato sauces, or natural and imitation preserves, jams and jellies*.

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Approve	Return	Deny	Signatures	Date
X			Jeffrey J. Gocek, EIT Project Manager	09/12/2025
X			Nicholas W. Hartranft, PE Environmental Engineer Manager	09/12/2025

Internal Review and Recommendations

DRAFT PERMIT

A draft permit was prepared in early July 2025 and emailed to the permittee on July 11, 2025.

PUBLIC PARTICIPATION

The draft permit was published in the PA Bulletin on July 26, 2025.

DRAFT PERMIT COMMENT

No comments were received from the public. No comments were received from the permittee. No comments were received from Department staff.

In an email dated July 31, 2025, the Environmental Protection Agency identified an error in the Effluent Limit Guideline (ELG) calculation for the BOD5 monthly average limitation.

BACKGROUND

In the Fact Sheet dated July 11, 2025, the monthly average ELG-based limitation was incorrectly calculated for both BOD5 (39.1 mg/L) and TSS (81.0 mg/L), more stringent than the (previous) limitations in the current, administratively extended permit (75 mg/L). Upon recalculation, the limitations were determined to be less stringent for both TSS and BOD5 than those calculated for the 2025 Fact Sheet. These limits are as follows.

Parameter	Mass (pounds/day)			Concentration (mg/L)		
	Daily Maximum	Monthly Average	Annual Average	Daily Maximum	Monthly Average	Annual Average
BOD_5	1,244	741	521	302.2	180.0	126.6
TSS	2,221	1,536	944	539.4	373.0	229.2

COMMENT RESOLUTION

To comply with 40 CFR § 122.44(l)(1) (anti-backsliding requirements), the Department must issue a renewed permit with limitations as stringent as that the of the previous permit. The Best Professional Judgment (BPJ)-based limitations from the current permit will again be established in this draft permit. See the Fact Sheet for more information. These limits, calculated with a long-term average flow of 0.4938 MGD, are as follows.

Parameter	Mass (pounds/day)		Concentration (mg/L)		
	Monthly Average	Daily Maximum	Monthly Average	Daily Maximum	IMAX
BOD_5	308.9	617.7	75	150	187.5
TSS	308.9	617.7	75	150	187.5

By meeting the BPJ-based limitations, it is assumed that Furman will meet the ELG-based Annual Average limitations identified above.

WQM MODELING

The WQM 7.0 modeling was performed again, with 75 mg/L used as the input for BOD5. The model results are as follows.

Parameter	Effluent Limitations (mg/L)		
	30 Day Average	Maximum	Minimum
$CBOD_5$	75		
NH_3-N	25	50	
DO			3

Since the result is 75, it is more stringent that the Water Quality-based limitation for BOD5.

See Attachment 01 for the WQM model result.

REDRAFT REQUIRED

Because the Department is proposing a less stringent limitation for BOD5, another draft is required for public participation.

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Internal Review and Recommendations

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) and/or BPJ. The limitations for the Outfall 004 ELG-based limitations (BOD5 and TSS) were calculated with a 2.0 multiplier for Daily Maximum and a 2.5 multiplier for IMAX.

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

Discharge Parameter	Mass (lb/day)		Concentration (mg/L)				Monitoring	
	Monthly Average	Daily Maximum	Minimum	Monthly Average	Daily Maximum	Instantaneous Maximum	Minimum Frequency	Sample Type
Flow (MGD)	Report	Report					Daily When Discharging	Meter
pH (SU)			6.0 IMIN			9.0	Daily When Discharging	Grab
Total Iron				1.5	3.0	3.7	Weekly When Discharging	Grab
Oil & Grease				15		30	2/Month	Grab
Total Halogens				0.2		0.5	Weekly When Discharging	Grab
Temperature (°F)				Report	110		Daily When Discharging	IS

Outfall 002, Effective Period: Permit Effective Date through Permit Expiration Date

Discharge Parameter	Mass (lb/day)		Concentration (mg/L)				Monitoring	
	Monthly Average	Daily Maximum	Minimum	Monthly Average	Daily Maximum	Instantaneous Maximum	Minimum Frequency	Sample Type
Total Nitrogen				Report			1/6 Months	Calculation
Total Phosphorus				Report			1/6 Months	Grab
pH (SU)				Report			1/6 Months	Grab
BOD5				Report			1/6 Months	Grab
Total Suspended Solids				Report			1/6 Months	Grab
Chemical Oxygen Demand				Report			1/6 Months	Grab
Nitrate-Nitrite Nitrogen				Report			1/6 Months	Grab
Oil and Grease				Report			1/6 Months	Grab

Outfall 003, Effective Period: Permit Effective Date through Permit Expiration Date

Discharge Parameter	Mass (lb/day)		Concentration (mg/L)				Monitoring	
	Monthly Average	Daily Maximum	Minimum	Monthly Average	Daily Maximum	IMAX	Minimum Frequency	Sample Type
Flow (MGD)	Report	Report					Daily When Discharging	Meter
pH (SU)			6.0 IMIN			9.0	Daily When Discharging	Grab
BOD_5				10	20	25	Daily When Discharging	Grab
TSS				10	20	25	Daily When Discharging	Grab
Total Nitrogen				5.0	10	12.5	Daily When Discharging	Grab
Total Phosphorus				0.5	1.0	1.25	Daily When Discharging	Grab
Dissolved Oxygen			6.0 IMIN				Daily When Discharging	Grab
Oil & Grease				15	30	30	Daily When Discharging	Grab
TRC				0.5		1.6	Daily When Discharging	Grab
Fecal Coliforms (No./100mL)				200 Geo Mean			Daily When Discharging	Grab

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Internal Review and Recommendations

Outfall 004, Effective Period: Permit Effective Date through Permit Expiration Date

Discharge Parameter	Mass (lb/day)		Concentration (mg/L)				Monitoring	
	Monthly Average	Daily Maximum	Minimum	Monthly Average	Daily Maximum	Instantaneous Maximum	Minimum Frequency	Sample Type
Flow (MGD)	Report	Report					Continuous	Meter
pH (SU)			6.0 IMIN			9.0	1/Day	Grab
BOD_5	**305**	**615**		**75**	**150**	**185**	**1/Week**	**24 Hour Comp**
TSS	**305**	**615**		**75**	**150**	**185**	**1/Week**	**24 Hour Comp**
Oil & Grease				15		30	2/Month	Grab
TRC				0.5		1.6	1/Day	Grab
Fecal Coliforms 05/01-09/30 (No./100mL)				200/100mL Geo. Mean		1,000/100mL	1/Week	Grab
Fecal Coliforms 10/01-04/30 (No./100mL)				2,000/100mL Geo. Mean		10,000/100mL	1/Week	Grab

Outfall 004, Effective Period: Permit Effective Date through Permit Expiration Date

Discharge Parameter	Mass Load (lb)		Concentration (mg/L)			Monitoring	
	Monthly	Annual	Minimum	Monthly Average	Maximum	Minimum Frequency	Sample Type
Ammonia-N	Report			Report		2/Week	Grab
Kjeldahl-N	Report			Report		2/Week	Grab
Nitrite/Nitrate-N	Report			Report		2/Week	Grab
Total Nitrogen	Report	Report		Report		1/Month	Calculate
Total Phosphorus	Report	Report		Report		2/Week	Grab
Net Total Nitrogen	Report	45,450				1/Month	Calculate
Net Total Phosphorus	Report	1,624				1/Month	Calculate

END of Fact Sheet.

ATTACHMENT 01

WQM 7.0 Effluent Limits

SWP Basin	Stream Code	Stream Name
10D	18668	WEST BRANCH SUSQUEHANNA RIVER

RMI	Name	Permit Number	Disc Flow (mgd)	Parameter	Effl. Limit 30-day Ave. (mg/L)	Effl. Limit Maximum (mg/L)	Effl. Limit Minimum (mg/L)
2.530	Furman Foods	PA0110540	0.494	CBOD5	75		
				NH3-N	25	50	
				Dissolved Oxygen			3

Input Data WQM 7.0

SWP Basin	Stream Code	Stream Name	RMI	Elevation (ft)	Drainage Area (sq mi)	Slope (ft/ft)	PWS Withdrawal (mgd)	Apply FC
10D	18668	WEST BRANCH SUSQUEHANNA RI	**2.530**	431.00	6951.00	0.00000	0.00	☑

Stream Data

Design Cond.	LFY (cfsm)	Trib Flow (cfs)	Stream Flow (cfs)	Rch Trav Time (days)	Rch Velocity (fps)	WD Ratio	Rch Width (ft)	Rch Depth (ft)	Tributary Temp (°C)	Tributary pH	Stream Temp (°C)	Stream pH
Q7-10	0.100	0.00	850.73	0.000	0.000	0.0	0.00	0.00	20.00	7.00	0.00	0.00
Q1-10		0.00	0.00	0.000	0.000							
Q30-10		0.00	0.00	0.000	0.000							

Discharge Data

Name	Permit Number	Existing Disc Flow (mgd)	Permitted Disc Flow (mgd)	Design Disc Flow (mgd)	Reserve Factor	Disc Temp (°C)	Disc pH
Furman Foods	PA0110540	0.4938	0.4938	0.4938	0.000	25.00	7.00

Parameter Data

Parameter Name	Disc Conc (mg/L)	Trib Conc (mg/L)	Stream Conc (mg/L)	Fate Coef (1/days)
CBOD5	75.00	2.00	0.00	1.50
Dissolved Oxygen	3.00	8.24	0.00	0.00
NH3-N	25.00	0.00	0.00	0.70

Input Data WQM 7.0

SWP Basin	Stream Code	Stream Name	RMI	Elevation (ft)	Drainage Area (sq mi)	Slope (ft/ft)	PWS Withdrawal (mgd)	Apply FC
10D	18668	WEST BRANCH SUSQUEHANNA RI	**0.100**	430.00	6955.00	0.00000	0.00	☑

Stream Data

Design Cond.	LFY (cfsm)	Trib Flow (cfs)	Stream Flow (cfs)	Rch Trav Time (days)	Rch Velocity (fps)	WD Ratio	Rch Width (ft)	Rch Depth (ft)	Tributary Temp (°C)	Tributary pH	Stream Temp (°C)	Stream pH
Q7-10	0.100	0.00	0.00	0.000	0.000	0.0	0.00	0.00	20.00	7.00	0.00	0.00
Q1-10		0.00	0.00	0.000	0.000							
Q30-10		0.00	0.00	0.000	0.000							

Discharge Data

Name	Permit Number	Existing Disc Flow (mgd)	Permitted Disc Flow (mgd)	Design Disc Flow (mgd)	Reserve Factor	Disc Temp (°C)	Disc pH
		0.0000	0.0000	0.0000	0.000	25.00	7.00

Parameter Data

Parameter Name	Disc Conc (mg/L)	Trib Conc (mg/L)	Stream Conc (mg/L)	Fate Coef (1/days)
CBOD5	25.00	2.00	0.00	1.50
Dissolved Oxygen	3.00	8.24	0.00	0.00
NH3-N	25.00	0.00	0.00	0.70

WQM 7.0 Hydrodynamic Outputs

SWP Basin	Stream Code	Stream Name
10D	18668	WEST BRANCH SUSQUEHANNA RIVER

RMI	Stream Flow (cfs)	PWS With (cfs)	Net Stream Flow (cfs)	Disc Analysis Flow (cfs)	Reach Slope (ft/ft)	Depth (ft)	Width (ft)	W/D Ratio	Velocity (fps)	Reach Trav Time (days)	Analysis Temp (°C)	Analysis pH
Q7-10 Flow												
2.530	850.73	0.00	850.73	.7639	0.00008	1.182	650.66	550.66	1.11	0.134	20.00	7.00
Q1-10 Flow												
2.530	544.47	0.00	544.47	.7639	0.00008	NA	NA	NA	0.86	0.172	20.01	7.00
Q30-10 Flow												
2.530	1156.99	0.00	1156.99	.7639	0.00008	NA	NA	NA	1.32	0.113	20.00	7.00

WQM 7.0 Modeling Specifications

Parameters	Both	Use Inputted Q1-10 and Q30-10 Flows	☑
WLA Method	EMPR	Use Inputted W/D Ratio	☐
Q1-10/Q7-10 Ratio	0.64	Use Inputted Reach Travel Times	☐
Q30-10/Q7-10 Ratio	1.36	Temperature Adjust Kr	☑
D.O. Saturation	90.00%	Use Balanced Technology	☑
D.O. Goal	6		

WQM 7.0 Wasteload Allocations

SWP Basin	Stream Code	Stream Name
10D	18668	WEST BRANCH SUSQUEHANNA RIVER

NH3-N Acute Allocations

RMI	Discharge Name	Baseline Criterion (mg/L)	Baseline WLA (mg/L)	Multiple Criterion (mg/L)	Multiple WLA (mg/L)	Critical Reach	Percent Reduction
2.530	Furman Foods	16.75	50	16.75	50	0	0

NH3-N Chronic Allocations

RMI	Discharge Name	Baseline Criterion (mg/L)	Baseline WLA (mg/L)	Multiple Criterion (mg/L)	Multiple WLA (mg/L)	Critical Reach	Percent Reduction
2.530	Furman Foods	1.89	25	1.89	25	0	0

Dissolved Oxygen Allocations

RMI	Discharge Name	CBOD5		NH3-N		Dissolved Oxygen		Critical Reach	Percent Reduction
		Baseline (mg/L)	Multiple (mg/L)	Baseline (mg/L)	Multiple (mg/L)	Baseline (mg/L)	Multiple (mg/L)		
2.53	Furman Foods	75	75	25	25	3	3	0	0

WQM 7.0 D.O.Simulation

SWP Basin	Stream Code	Stream Name
10D	18668	WEST BRANCH SUSQUEHANNA RIVER

RMI	Total Discharge Flow (mgd)	Analysis Temperature (°C)	Analysis pH
2.530	0.494	20.004	7.000
Reach Width (ft)	**Reach Depth (ft)**	**Reach WDRatio**	**Reach Velocity (fps)**
650.663	1.182	550.659	1.108
Reach CBOD5 (mg/L)	**Reach Kc (1/days)**	**Reach NH3-N (mg/L)**	**Reach Kn (1/days)**
2.07	0.044	0.02	0.700
Reach DO (mg/L)	**Reach Kr (1/days)**	**Kr Equation**	**Reach DO Goal (mg/L)**
8.238	0.403	Tsivoglou	6
Reach Travel Time (days)			
0.134			

Subreach Results

TravTime (days)	CBOD5 (mg/L)	NH3-N (mg/L)	D.O. (mg/L)
0.013	2.06	0.02	8.24
0.027	2.06	0.02	8.24
0.040	2.06	0.02	8.24
0.054	2.06	0.02	8.24
0.067	2.06	0.02	8.24
0.080	2.06	0.02	8.24
0.094	2.06	0.02	8.24
0.107	2.06	0.02	8.24
0.121	2.05	0.02	8.24
0.134	2.05	0.02	8.24