

Application Type Renewal
Facility Type Industrial
Major / Minor Minor

**NPDES PERMIT FACT SHEET
INDIVIDUAL INDUSTRIAL WASTE (IW)
AND IW STORMWATER**

Application No. PA0012432
APS ID 1034336
Authorization ID 1346635

Applicant and Facility Information

Applicant Name	<u>Sunny Dell Foods Inc.</u>	Facility Name	<u>Sunny Dell Foods Cannery</u>
Applicant Address	<u>135 N 5th Street</u> <u>Oxford, PA 19363-1502</u>	Facility Address	<u>135 N 5th Street</u> <u>Oxford, PA 19363-1502</u>
Applicant Contact	<u>Gary Caliguiri</u>	Facility Contact	<u>Trish Jarmon</u>
Applicant Phone	<u>(610) 932-5164</u>	Facility Phone	<u>(610) 932-9479</u>
Client ID	<u>32967</u>	Site ID	<u>458793</u>
SIC Code	<u>2033</u>	Municipality	<u>Oxford Borough</u>
SIC Description	<u>Manufacturing - Canned Fruits And Vegetables</u>	County	<u>Chester</u>
Date Application Received	<u>March 18, 2021</u>	EPA Waived?	<u>No</u>
Date Application Accepted	<u>Not Applicable</u>	If No, Reason	<u>DEP Discretion</u>
Purpose of Application	<u>Permit Renewal.</u>		

Summary of Review

A NPDES permit renewal application was received from the Sunny Dell Foods Cannery facility in Oxford, PA. The discharge is 0.05 million gallons per day (mgd) of non-contact cooling water at a mushroom canning facility. A retort is used to heat and sterilize sealed cans. Municipal chlorinated water from Oxford Borough is used to cool the sealed cans, and then discharged to an unnamed tributary to West Branch Big Elk Creek. Municipal chlorinated water from Oxford Borough used for cooling flows to cooling tanks then a 100-micron screen prior to discharge via a rock swale leading to the unnamed tributary.

The dissolved oxygen (DO) instantaneous minimum was increased from 4.0 to 5.0 mg/l as this tributary is deemed trout stocking fishes (Chapter 93.7). The data reported for the past one year is above 5 mg/l DO so this change is not anticipated to impact the facility. Monthly oil and grease monitoring is added to the permit to collect data to assess the reasonable potential for future permit renewals. Monitoring of CBOD5 and Total Suspended Solids (TSS) are in the current permit to monitor whether these parameters may enter the cooling water unintentionally during the retort or cooling processes. CBOD5 and TSS monitoring are renewed in this permit; however, the monitoring frequency was reduced from 1/week to 1/month as the maximum reported concentrations over the past year are 4.3 mg/l and 5.9 mg/l, respectively.

All other parameters, monitoring and limitations, remain the same in the renewed permit. pH (Chapter 92a and 95.2), Total Residual Chlorine (BPJ and standard procedures), and temperature (BPJ) will continue to have limitations in the permit. The nutrient parameters (total nitrogen, ammonia-nitrogen, nitrate as N, nitrite as N, TKN, and Total Phosphorus) are based on the Chesapeake Watershed Implementation Plan and will continue to be monitored in the renewed permit. In the Phase 3 WIP non-significant industrial waste streams should be monitored if the facility has the potential to introduce a net increase of TN or TP.

Act 14 Notifications:
Oxford Borough received January 28, 2021
Chester County received February 3, 2021

Approve	Deny	Signatures	Date
X		Harmonie Hawley, PhD, PE / Environmental Engineering Specialist /s/	August 2, 2021
X		Pravin C. Patel, P.E. / Environmental Engineer Manager /s/	08/05/2021

Summary of Review

Proposed Part C Conditions:

- Chlorine Minimization
- Temperature 2 degree hourly change
- Chesapeake Bay Nutrient Definitions
- Chemical Additives

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>.05</u>
Latitude	<u>39° 47' 21.00"</u>	Longitude	<u>-75° 58' 21.00"</u>
Quad Name	<u>Oxford</u>	Quad Code	<u>2038</u>
Wastewater Description: <u>Cooling Water</u>			
Receiving Waters	<u>Unnamed Tributary of West Branch Big Elk Creek (HQ-TSF, MF)</u>	Stream Code	<u>06734</u>
NHD Com ID	<u>112188814</u>	RMI	<u>1.14</u>
Q ₇₋₁₀ Flow (cfs)	<u>0.0123</u>	Q ₇₋₁₀ Basis	<u>PA StreamStats</u>
Watershed No.	<u>7-K</u>	Chapter 93 Class.	<u>HQ-TSF, MF</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>None</u>	Name	<u>N/A</u>
Nearest Downstream Public Water Supply Intake		<u>N/A</u>	

Changes Since Last Permit Issuance: None

Other Comments: It is approximately 2 miles to the confluence with West Branch Big Elk Creek and there were no PWS intakes noted on the tributary.

Compliance History

DMR Data for Outfall 001 (from July 1, 2020 to June 30, 2021)

Parameter	JUN-21	MAY-21	APR-21	MAR-21	FEB-21	JAN-21	DEC-20	NOV-20	OCT-20	SEP-20	AUG-20	JUL-20
Flow (MGD) Average Monthly	0.0016	0.0025	0.0031	0.0149	0.0055	0.0057	0.0022	0.0032	0.0050	0.0024	0.0028	0.0052
Flow (MGD) Daily Maximum	0.0068	0.0144	0.0136	0.0045	0.0176	0.0189	0.0089	0.0171	0.0234	0.0131	0.0125	0.0215
pH (S.U.) Instantaneous Minimum	6.32	5.91	6.3	5.73	4.89	5.92	6.41	6.74	6.51	6.09	6.61	6.56
pH (S.U.) Instantaneous Maximum	7.80	7.58	8.14	7.71	8.25	7.58	8.25	7.74	7.6	7.32	7.52	9.98
DO (mg/L) Instantaneous Minimum	6.15	5.72	6.92	5.70	6.22	6.10	5.67	6.78	5.12	7.27	5.79	5.48
TRC (mg/L) Average Monthly	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02
Temperature (Day 1 thru 15) (°F) Average Monthly	80	75	68					58	82	79	84	
Temperature (Day 16 thru End of Month) (°F) Average Monthly	80	67	63					74	72	82	84	
Temperature (°F) Average Monthly				63	39	65	47					91
Temperature (Day 1 thru 15) (°F) Instantaneous Maximum	88	80	75					69	90	87	93	
Temperature (Day 16 thru End of Month) (°F) Instantaneous Maximum	93	75	75					87	75	92	94	
Temperature (°F) Instantaneous Maximum				75	50	79	73					99
CBOD5 (mg/L) Average Monthly	3.5	4.3	3.6	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	3.0	3.3	3.0

**NPDES Permit Fact Sheet
Sunny Dell Foods Cannery**

NPDES Permit No. PA0012432

TSS (mg/L) Average Monthly	< 5.0	< 5.0	< 5.0	< 5.2	< 5.0	< 5.0	< 5.0	5.3	< 5.0	5.9	< 5.0	5.7
Total Nitrogen (lbs/day) Average Monthly							0.304					
Total Nitrogen (mg/L) Average Monthly							5.98					
Total Nitrogen (lbs) Total Annual							71.74					
Ammonia (mg/L) Average Monthly							< 0.10					
Nitrate (mg/L) Average Monthly							5.155					
Nitrite (mg/L) Average Monthly							0.010					
TKN (mg/L) Average Monthly							0.813					
Total Phosphorus (lbs/day) Average Monthly							0.034					
Total Phosphorus (mg/L) Average Monthly							0.936					
Total Phosphorus (lbs) Total Annual							0.40					

Compliance History

Effluent Violations for Outfall 001, from: August 1, 2020 To: June 30, 2021

Parameter	Date	SBC	DMR Value	Units	Limit Value	Units
pH	01/31/21	Inst Min	5.92	S.U.	6.0	S.U.
pH	02/28/21	Inst Min	4.89	S.U.	6.0	S.U.
pH	03/31/21	Inst Min	5.73	S.U.	6.0	S.U.
pH	05/31/21	Inst Min	5.91	S.U.	6.0	S.U.
Temperature	01/31/21	Avg Mo	65	°F	60	°F
Temperature	06/30/21	Avg Mo	80	°F	79	°F
Temperature	10/31/20	Avg Mo	82	°F	80	°F

Summary of Inspections: An inspection was conducted on March 16, 2016 and no violations were noted; a new inspection is being scheduled.

Other Comments: An Open Violations report was run on August 02, 2021 and no open violations were found.

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	Metered
pH (S.U.)	XXX	XXX	6.0 Inst Min	XXX	XXX	9.0	1/day	Grab
DO	XXX	XXX	5.0 Inst Min	XXX	XXX	XXX	1/day	Grab
TRC	XXX	XXX	XXX	0.5	XXX	1.2	1/day	Grab
Temperature (°F) Jan 1 - 31	XXX	XXX	XXX	60	XXX	110	1/day	I-S
Temperature (°F) Feb 1 - 28	XXX	XXX	XXX	58	XXX	110	1/day	I-S
Temperature (°F) Mar 1 - 31	XXX	XXX	XXX	67	XXX	110	1/day	I-S
Temperature (°F) Apr 1 - 15	XXX	XXX	XXX	81	XXX	110	1/day	I-S
Temperature (°F) Apr 16 - 30	XXX	XXX	XXX	110	XXX	110	1/day	I-S
Temperature (°F) May 1 - 15	XXX	XXX	XXX	96	XXX	110	1/day	I-S
Temperature (°F) May 16 - 31	XXX	XXX	XXX	110	XXX	110	1/day	I-S
Temperature (°F) Jun 1 - 15	XXX	XXX	XXX	79	XXX	110	1/day	I-S
Temperature (°F) Jun 16 - 30	XXX	XXX	XXX	88	XXX	110	1/day	I-S

Outfall001 , Continued (from 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		
Temperature (°F) Jul 1 - 31	XXX	XXX	XXX	76	XXX	110	1/day	I-S
Temperature (°F) Aug 1 - 15	XXX	XXX	XXX	93	XXX	110	1/day	I-S
Temperature (°F) Aug 16 - 31	XXX	XXX	XXX	110	XXX	110	1/day	I-S
Temperature (°F) Sep 1 - 15	XXX	XXX	XXX	105	XXX	110	1/day	I-S
Temperature (°F) Sep 16 - 30	XXX	XXX	XXX	93	XXX	110	1/day	I-S
Temperature (°F) Oct 1 - 15	XXX	XXX	XXX	93	XXX	110	1/day	I-S
Temperature (°F) Oct 16 - 31	XXX	XXX	XXX	80	XXX	110	1/day	I-S
Temperature (°F) Nov 1 - 15	XXX	XXX	XXX	81	XXX	110	1/day	I-S
Temperature (°F) Nov 16 - 30	XXX	XXX	XXX	60	XXX	110	1/day	I-S
Temperature (°F) Dec 1 - 31	XXX	XXX	XXX	57	XXX	110	1/day	I-S
CBOD5	XXX	XXX	XXX	Report	XXX	XXX	1/month	8-Hr Composite
TSS	XXX	XXX	XXX	Report	XXX	XXX	1/month	8-Hr Composite
Oil and Grease	XXX	XXX	XXX	Report	XXX	XXX	1/month	Grab
Total Nitrogen	Report	XXX	XXX	Report	XXX	XXX	1/year	8-Hr Composite
Total Nitrogen (lbs)	XXX	Report Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation
Ammonia	XXX	XXX	XXX	Report	XXX	XXX	1/year	8-Hr Composite
Nitrate	XXX	XXX	XXX	Report	XXX	XXX	1/year	8-Hr Composite
Nitrite	XXX	XXX	XXX	Report	XXX	XXX	1/year	8-Hr Composite
TKN	XXX	XXX	XXX	Report	XXX	XXX	1/year	8-Hr Composite

Outfall 001 , Continued (from 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		
Total Phosphorus	Report	XXX	XXX	Report	XXX	XXX	1/year	8-Hr Composite
Total Phosphorus (lbs)	XXX	Report Total Annual	XXX	XXX	XXX	XXX	1/year	Calculation

Compliance Sampling Location: Outfall 001

Other Comments: Oil and grease monitoring was added to the permit; the monitoring frequency of CBOD5 and TSS was lowered from 1/week to 1/month.