

Application Type Renewal & Transfer  
 Facility Type Industrial  
 Major / Minor Minor

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

Application No. PA0063045 A-1  
 APS ID 1064048  
 Authorization ID 1397345

**Applicant and Facility Information**

Applicant Name	<u>Maid Rite Specialty Foods, Inc.</u>	Facility Name	<u>Maid Rite Specialty Foods, Inc.</u>
Applicant Address	<u>105 Keystone Industrial Park Dunmore, PA 18512-1518</u>	Facility Address	<u>307 Montdale Road Scott Township, PA 18414-7812</u>
Applicant Contact	<u>Kurt Sorenson, Project Manager</u>	Facility Contact	<u>Kurt Sorenson, Project Manager</u>
Applicant Phone	<u>(570) 343-4748</u>	Facility Phone	<u>(570) 343-4748</u>
Client ID	<u>366911</u>	Site ID	<u>256463</u>
SIC Code	<u>2013</u>	Municipality	<u>Scott Township</u>
SIC Description	<u>Manufacturing - Sausages And Other Prepared Meats</u>	County	<u>Lackawanna</u>
Date Application Received	<u>February 26, 2021</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>March 9, 2021</u>	If No, Reason	<u>-</u>
Purpose of Application	<u>Renewal and transfer of existing NPDES Permit and WQM Permits</u>		

**Summary of Review**

The applicant is requesting a renewal of their NPDES permit to discharge up to 0.005 MGD of treated industrial process wastewater and sanitary sewage into the South Branch Tunkhannock Creek, a TSF, MF (Trout Stocking, Migratory Fish) designated receiving stream in State Water Plan Basin 4-F (Tunkhannock Creek). As per the Department's current existing use list, the receiving stream does not have an existing use classification that is more protective than its designated use.

The site experienced a fire the night of November 29, 2021 that badly damaged the facility. The facility, including the wastewater treatment plant (WWTP), has been inactive since the fire. The Primary Facility (PF) has been changed to Inactive in eFACTs to reflect the conditions at the site. The NPDES Permit will still be renewed so that a discharge is allowed/permitted when the site is rebuilt. The limits are based on the information provided in the permit application for the conditions of the site before the fire. Please inform the Department if conditions at the site change (including any changes to the production rate). A Part C condition has also been added to the permit requesting the permittee notify the Department's Clean Water Monitoring and Compliance section by phone at least 24 hours to commencement of the discharge.

The facility falls under CFR Title 40 Part 432 – Meat and Poultry Products Point Source Category, Subpart G – Sausage and Luncheon Meats Processors. Since the facility generates much less than 50 million pounds per year of finished product, the following EPA technology-based effluent limitations apply:

Regulated parameter	Maximum daily <sup>1</sup>	Maximum monthly avg. <sup>1</sup>
BOD <sub>5</sub>	0.56	0.28
Fecal Coliform	(2)	(3)
O&G <sup>4</sup>	0.20	0.10
TSS	0.68	0.34

Approve	Deny	Signatures	Date
X		/s/ Allison Seyfried / Environmental Engineering Specialist	May 24, 2022
X		/s/ Amy M. Bellanca, P.E. / Environmental Engineer Manager	5-25-22

**Summary of Review**

<sup>1</sup>Pounds per 1000 lbs (or g/kg) of finished product.

<sup>2</sup>Maximum of 400 MPN or CFU per 100 mL at any time.

<sup>3</sup>No maximum monthly average limitation.

<sup>4</sup>May be measured as hexane extractable material (HEM).

(b) Facilities that generate more than 50 million pounds per year of finished products must achieve the limitations for BOD<sub>5</sub>, fecal coliform, O&G, and TSS specified in paragraph (a) of this section.

The previous two permit cycles utilized a production rate of 16,103 lbs/day of finished product. In 2019, Maid-Rite Specialty Foods changed the facility operations to include second shift capabilities. Due to this change of operation and the facility maintaining an average production of 16 hours per day, the facility saw an increase in the Average Annual Production. Based on the previous two years of second shift operations, the facility now sees an Anticipated Average Annual Production of 23,385 lbs/day. The new production rate was used to calculate the allowable technology-based limitations using the EPA effluent limitations:

	Maximum Monthly Average	Maximum Daily
BOD	0.28 lbs/day x 23,385 lbs/1,000 lbs = 6.55 lbs/day	0.56 lbs/day x 23,385 lbs/1,000 lbs = 13.1 lbs/day
Fecal	No maximum monthly average limitation	400 CFU/100 mL
Oil and Grease	0.10 lbs/day x 23,385 lbs/1,000 lbs = 2.34 lbs/day	0.20 lbs/day x 23,385 lbs/1,000 lbs = 4.71 lbs/day
TSS	0.34 lbs/day x 23,385 lbs/1,000 lbs = 7.95 lbs/day	0.68 lbs/day x 23,385 lbs/1,000 lbs = 15.9 lbs/day

The Oil and Grease mass loads were converted to effluent concentrations:

$$2.34 \text{ lbs/day} / 8.34 / 0.005 = 56.115 \text{ mg/L}$$

The effluent concentration results in less stringent limitations than those prescribed by Pa Code §95.2 effluent standards for industrial wastes. Therefore, the Chapter 95 Oil and Grease limitations of 15 mg/L average monthly and 30 mg/L IMAX will remain in this permit.

In accordance with Department guidance, the fecal coliform limitation of 200 CFU/100 ml will remain during the summer months of May - September and the EPA fecal coliform limitation of 400 CFU/100 ml will remain during the winter months. The IMAX limitations will also remain.

Any existing point source subject to the subpart that generates no more than 50 million pounds per year of finished product must also achieve the following effluent limitations for Ammonia (as N):

Regulated parameter	Maximum daily <sup>1</sup>	Maximum monthly avg. <sup>1</sup>
Ammonia (as N)	8.0	4.0

<sup>1</sup>mg/L (ppm).

(b) Facilities that generate more than 50 million pounds per year of finished products must achieve the following effluent limitations:

The WQM 7.0 analysis did not indicate stricter water-quality based limitations for Ammonia-Nitrogen. Therefore, the technology-based limitations listed above will remain. The Dissolved Oxygen limitation of 5.0 mg/L per Chapter 93 will also remain because it is more stringent than the WQM 7.0 results.

The Total Phosphorus limitations were previously determined in prior permit renewals and will remain in the permit.

The annual monitoring and reporting for Total Nitrogen, Total Kjeldahl Nitrogen, and Nitrate-Nitrite as N has been maintained in this permit.

### Summary of Review

The 1.2 mg/L monthly average and 2.8 mg/L IMAX limitations for Total Residual Chlorine (TRC) in the previously issued permit were technology-based limitations. As per PA Code 92a.47(a)(8) (which refers to PA Code 92a.48(b)(2)), a monthly average TRC facility-specific BAT effluent limit of 0.5 mg/L and an IMAX limit of 1.6 mg/L has been applied to this permit renewal. The TRC Calculation Spreadsheet did not recommend more stringent water quality-based limitations. The permittee will be required to meet the new technology-based limits for TRC starting one year after the effective date of the permit.

Sewage discharges now require monitoring and reporting for E. Coli. A monitoring frequency of 1/month for design flows  $\geq$  1 MGD, 1/quarter for design flows  $\geq$  0.05 and  $<$  1 MGD, 1/year for design flows of 0.002 – 0.05 MGD will be utilized.

For this permit renewal, all monitoring frequencies for parameters with limitations are consistent with the Department's *Technical Guidance for the Development and Specification of Effluent Limitations and Other Permit Conditions in NPDES Permits* (document no. 362-0400-001).

Stream gage 1533950 (South Branch Tunkhannock Creek near Montdale, PA) was used as a reference gage to develop the low flow yield (LFY) of 0.024 cfs/mi<sup>2</sup>, which was used to model the discharge. The  $Q_{7-10}$  and drainage area at gage 1533950 was obtained from USGS's Open File Report 2011-1070. RMI values were obtained using the Department's eMapPA, drainage areas further downstream were delineated using USGS's StreamStats interactive map, and elevations were obtained using the elevation profile tool on StreamStats.

The renewal application listed the client as Mai-Rite Specialty Foods, LLC and the facility name as Maid-Rite Steak Co., Inc. The previous permit and fact sheet listed the applicant as Polarized Meat Co., Inc. The permittee clarified that all naming shall be referenced as Maid-Rite Specialty Foods, LLC. The company consolidated all of their subsidiary companies a few years ago.

Then on October 1, 2021, an NPDES Permit/WQM Permit transfer application for this facility was received by the Department. The client and facility will now be named Maid Rite Specialty Foods, Inc. new eDMR registration forms are not needed for this instance. The NPDES permit transfer has been incorporated into this draft. The associated WQM Permit transfers for permit numbers 3517401 and 3593201 will also be transferred simultaneously. All the final transferred permits and accompanying permit documents will be issued when the final NPDES permit is issued.

An "A-1" notation has been added after this NPDES permit and a "T-1" notation will be added after the WQM permits to represent the number of transfers since the original permits have been issued. It is possible there may have been transfers before this one, however the notations were not used by the Department at that time.

As per the permittee's consultant, sludge is hauled to the Wyoming Valley WWTP by Koberlein Environmental Services. The hauler information has not been completed on the Sewage Sludge and Biosolids Supplemental Report form. Please make sure this information is completed on the form for future submittals.

The existing permit expired on February 28, 2021 and the application for renewal was received February 26, 2021.

A Water Management System Inspection query indicated that on September 9, 2018 a Compliance Evaluation was performed.

There are currently no open violations for this client that warrant withholding issuance of this permit.

#### 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.	001	Design Flow (MGD)	0.005
Latitude	41° 34' 43.34"	Longitude	-75° 38' 53.66"
Quad Name	Dalton	Quad Code	0640
Wastewater Description: Sewage Effluent and wastewater from meat processing operation			
Receiving Waters	South Branch Tunkhannock Creek (TSF)	Stream Code	28799
NHD Com ID	66403355	RMI	17.14
Drainage Area	13.1 mi <sup>2</sup>	Yield (cfs/mi <sup>2</sup> )	0.024
Q <sub>7-10</sub> Flow (cfs)	0.3144	Q <sub>7-10</sub> Basis	USGS Stream Gage 1533950
Elevation (ft)	1,077	Slope (ft/ft)	-
Watershed No.	4-F	Chapter 93 Class.	TSF
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	United Water Pennsylvania		
PWS Waters	Susquehanna River	Flow at Intake (cfs)	-
PWS RMI	61.2	Distance from Outfall (mi)	~ 166

Treatment Facility Summary				
<b>Treatment Facility Name:</b> Maid Rite Specialty Foods, Inc.				
<b>WQM Permit No.</b>	<b>Issuance Date</b>			
3517401	5/09/2017			
3593201	6/17/1993			
<b>Waste Type</b>	<b>Degree of Treatment</b>	<b>Process Type</b>	<b>Disinfection</b>	<b>Avg Annual Flow (MGD)</b>
Industrial and Sewage	Secondary	Dissolved Air Flootation	Chlorine	0.0045 (Average flow during production/operation)
<b>Hydraulic Capacity (MGD)</b>	<b>Organic Capacity (lbs/day)</b>	<b>Load Status</b>	<b>Biosolids Treatment</b>	<b>Biosolids Use/Disposal</b>
0.005	-	Not Overloaded	Holding tank	Hauled

Compliance History

DMR Data for Outfall 001 (from April 1, 2021 to March 31, 2022)

Parameter	MAR-22	FEB-22	JAN-22	DEC-21	NOV-21	OCT-21	SEP-21	AUG-21	JUL-21	JUN-21	MAY-21	APR-21
Flow (MGD) Average Monthly					0.00746 34	0.00646 8	0.00721 0	0.00672 77	0.00660 04	0.00620 06	0.00576 89	0.00560 7
Flow (MGD) Daily Maximum					0.01352 4	0.01155	0.01310 4	0.01092 0	0.01096 2	0.01016 4	0.01050 0	0.01033 2
pH (S.U.) Minimum					6.22	6.3	6.5	7.43	7.33	6.84	6.86	7.16
pH (S.U.) Maximum					7.93	7.78	8.16	8.54	8.73	8.16	8.27	7.88
DO (mg/L) Minimum					5.1	5.8	5.1	5.1	5.0	5.0	5.2	5.0
TRC (mg/L) Average Monthly					0.01	0.01	0.01	0.01	0.4	0.01	0.01	0.10
TRC (mg/L) Instantaneous Maximum					0.01	0.01	0.01	0.01	2.0	0.01	0.01	0.10
CBOD5 (lbs/day) Average Monthly					0.02	0.06	0.03	0.02	0.02	0.03	0.03	0.03
CBOD5 (lbs/day) Daily Maximum					0.03	0.2	0.04	0.02	0.03	0.04	0.06	0.03
TSS (lbs/day) Average Monthly					0.01	0.02	0.02	0.02	0.02	0.01	0.05	0.02
TSS (lbs/day) Daily Maximum					0.02	0.02	0.02	0.02	0.02	0.02	0.1	0.04
Oil and Grease (mg/L) Average Monthly					5.0	6.0	5.0	5.0	5.0	5.0	5.0	5.3
Oil and Grease (mg/L) Instantaneous Maximum					5.0	7.0	5.0	5.0	5.0	5.0	5.0	5.3
Fecal Coliform (CFU/100 ml) Geometric Mean					1	1	1	1	1	1	1	3
Fecal Coliform (CFU/100 ml) Instantaneous Maximum					1	1	1	1	1	1	1	3.1
Nitrate-Nitrite (mg/L) Annual Average				3.21								

**NPDES Permit Fact Sheet  
Maid Rite Specialty Foods Inc.**

**NPDES Permit No. PA0063045 A-1**

Total Nitrogen (mg/L) Annual Average				6.8								
Ammonia (mg/L) Average Monthly					3.21	0.2	0.2	0.02	0.3	0.3	0.3	0.3
Ammonia (mg/L) Daily Maximum					3.21	0.2	0.2	0.02	0.3	0.3	0.3	0.3
TKN (mg/L) Annual Average				3.6								
Total Phosphorus (mg/L) Average Monthly					0.3	0.1	0.1	0.3	0.2	0.1	0.3	0.1

## Modeling

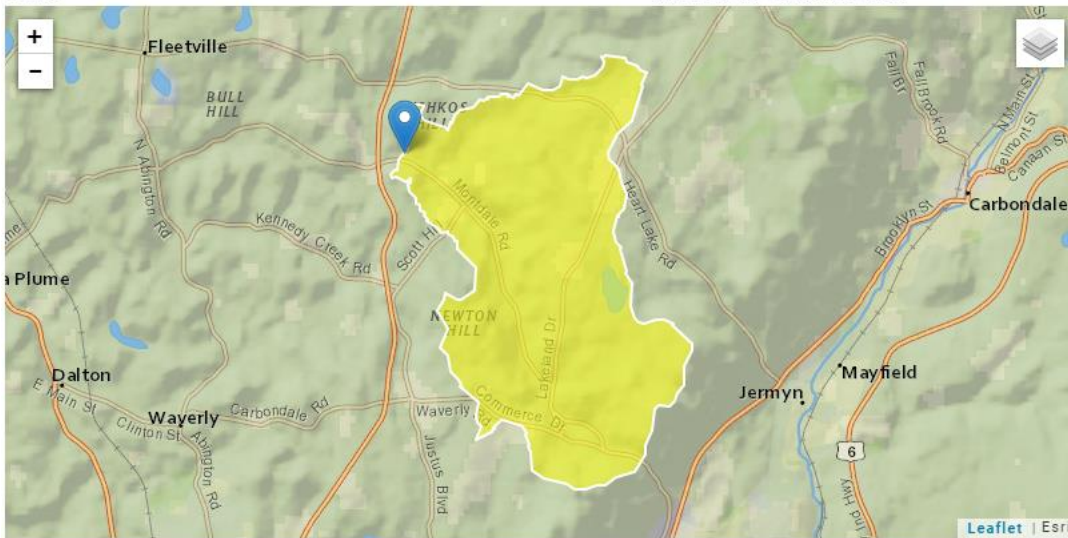
At Outfall 001 on South Branch Tunkhannock Creek:

RMI	Elevation (ft)	Drainage Area (mi <sup>2</sup> )	Q <sub>7-10</sub> Flow (cfs)
17.14	1,077	13.1	0.35

$$LFY \text{ using StreamStats} = \frac{0.35 \text{ ft}^3/\text{sec}}{13.1 \text{ mi}^2} = 0.027 \frac{\text{ft}^3/\text{sec}}{\text{mi}^2}$$

## StreamStats Report

Region ID: PA  
 Workspace ID: PA20210603170822923000  
 Clicked Point (Latitude, Longitude): 41.57871, -75.64823  
 Time: 2021-06-03 13:08:42 -0400



Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	13.1	square miles

Statistic	Value	Unit	SE	SEp
7 Day 2 Year Low Flow	0.998	ft <sup>3</sup> /s	38	38
30 Day 2 Year Low Flow	1.45	ft <sup>3</sup> /s	33	33
7 Day 10 Year Low Flow	0.35	ft <sup>3</sup> /s	57	57

**Stream Gage:** USGS Stream Gage 1533950 – South Branch Tunkhannock Creek near Montdale, PA

- Drainage Area = 12.6 mi<sup>2</sup>
- Q<sub>7-10</sub> = 0.3 ft<sup>3</sup>/sec
- Data from 1962 – 1978

$$\text{Low Flow Yield (LFY) using Stream Gage} = \frac{0.3 \text{ ft}^3/\text{sec}}{12.6 \text{ mi}^2} = 0.024 \frac{\text{ft}^3/\text{sec}}{\text{mi}^2}$$

$$0.024 \frac{\text{ft}^3/\text{sec}}{\text{mi}^2} \times 13.1 \text{ mi}^2 = 0.3144 \text{ cfs at the discharge using USGS Stream Gage LFY}$$

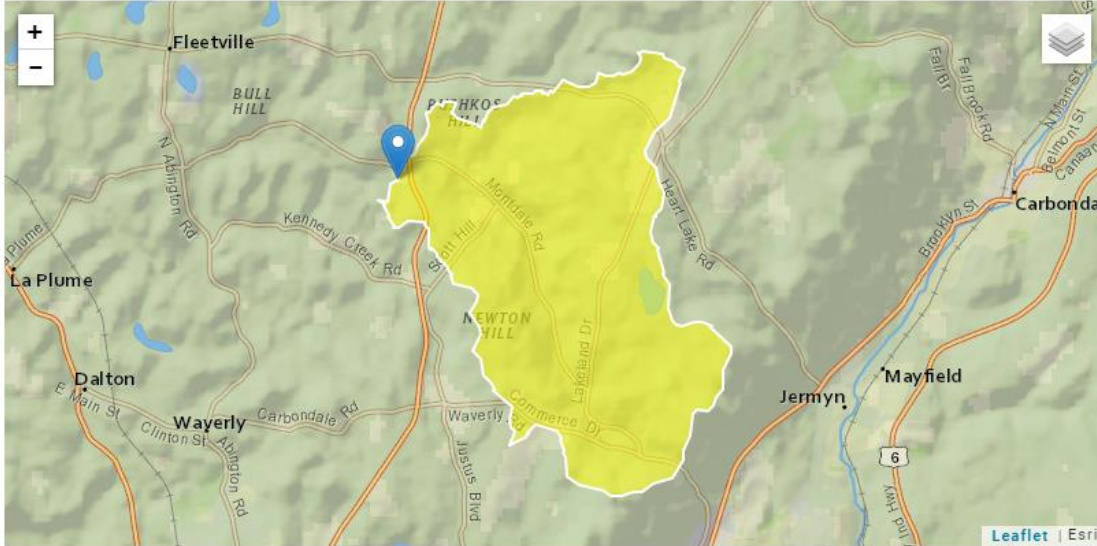


**At confluence with Unnamed Tributary 28894 to South Branch Tunkhannock Creek:**

RMI	Elevation (ft)	Drainage Area (mi <sup>2</sup> )
16.48	1,051.25	14.5

**StreamStats Report**

Region ID: PA  
 Workspace ID: PA20210603171345257000  
 Clicked Point (Latitude, Longitude): 41.57357, -75.65765  
 Time: 2021-06-03 13:14:06 -0400



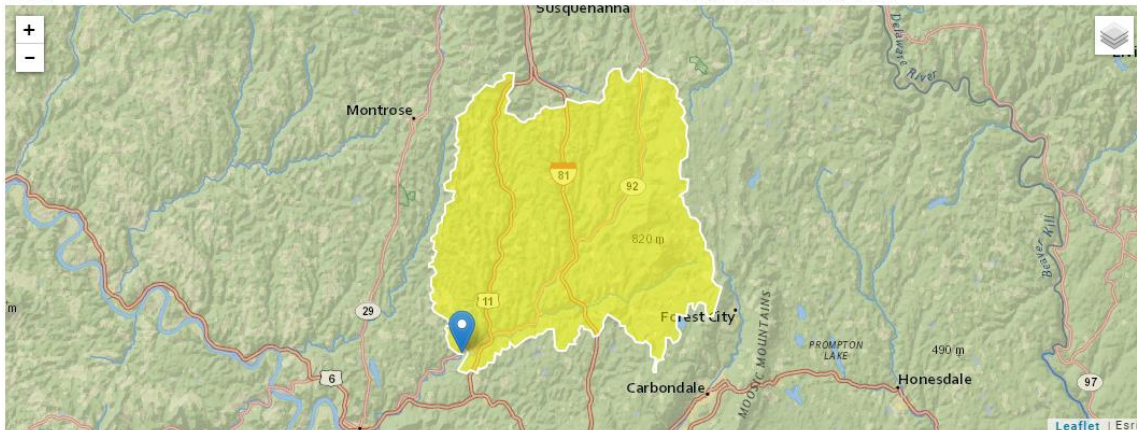
Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	14.5	square miles

**At confluence with Unnamed Tributary 28915 to Tunkhannock Creek:**

RMI	Elevation (ft)	Drainage Area (mi <sup>2</sup> )
12.47	684.5	269

**StreamStats Report**

Region ID: PA  
 Workspace ID: PA20210524170712957000  
 Clicked Point (Latitude, Longitude): 41.60944, -75.81689  
 Time: 2021-05-24 13:07:32 -0400





Parameter Code	Parameter Description	Value	Unit
DRNAREA	Area that drains to a point on a stream	269	square miles

**WQM 7.0 Effluent Limits**

SWP Basin	Stream Code	Stream Name					
04F	28799	SOUTH BRANCH TUNKHANNOCK CREEK					
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)
17.140	Maid-Rite	PA0063045	0.005	CBOD5	25		
				NH3-N	25	50	
				Dissolved Oxygen			3

TRC EVALUATION					
Input appropriate values in A3:A9 and D3:D9					
0.3144	= Q stream (cfs)	0.5	= CV Daily		
0.005	= Q discharge (MGD)	0.5	= CV Hourly		
30	= no. samples	1	= AFC_Partial Mix Factor		
0.3	= Chlorine Demand of Stream	1	= CFC_Partial Mix Factor		
0	= Chlorine Demand of Discharge	15	= AFC_Criteria Compliance Time (min)		
0.5	= BAT/BPJ Value	720	= CFC_Criteria Compliance Time (min)		
0	= % Factor of Safety (FOS)		= Decay Coefficient (K)		
Source	Reference	AFC Calculations		Reference	CFC Calculations
TRC	1.3.2.iii	WLA_afc = 12.985		1.3.2.iii	WLA_cfc = 12.652
PENTOXSD TRG	5.1a	LTAMULT_afc = 0.373		5.1c	LTAMULT_cfc = 0.581
PENTOXSD TRG	5.1b	LTA_afc = 4.839		5.1d	LTA_cfc = 7.355
Source	Effluent Limit Calculations				
PENTOXSD TRG	5.1f	AML MULT = 1.231			
PENTOXSD TRG	5.1g	AVG MON LIMIT (mg/l) = 0.500		BAT/BPJ	
		INST MAX LIMIT (mg/l) = 1.635			