

Application Type Renewal
Facility Type Storm Water
Major / Minor Minor

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

Application No. PA0244902
APS ID 1062208
Authorization ID 1393983

Applicant and Facility Information

Applicant Name	<u>Waste Management of PA Inc.</u>	Facility Name	<u>Tullytown Resource Recovery Facility</u>
Applicant Address	<u>1000 New Ford Mill Road</u> <u>Morrisville, PA 19067</u>	Facility Address	<u>200 Bordentown Road</u> <u>Tullytown, PA 19007</u>
Applicant Contact	<u>Bradford McGoldrick</u>	Facility Contact	<u>Bradford McGoldrick</u>
Applicant Phone	<u>(215) 651-8434</u>	Facility Phone	<u>(215) 651-8434</u>
Client ID	<u>92382</u>	Site ID	<u>454807</u>
SIC Code	<u>4953</u>	Municipality	<u>Tullytown Borough</u>
SIC Description	<u>Trans. & Utilities - Refuse Systems</u>	County	<u>Bucks</u>
Date Application Received	<u>April 28, 2022</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u></u>	If No, Reason	<u></u>
Purpose of Application	<u>Permit renewal.</u>		

Summary of Review

The applicant requests renewal of NPDES permit for discharge of stormwater from Tullytown Resource Recovery Facility (Tullytown Landfill) into Manor Lake, Van Sciver Lake and Delaware River through outfalls 001, 002, 003, 004, 005, 006, 008, 009 and 010. Previously these outfalls were covered under General Permit (PAG-03) PAR800105.

Tullytown Resource Recovery Facility operates as a municipal solid waste disposal facility in an above-grade, double-lined sanitary landfill. All the discharges covered in the permit are from stormwater runoff from the landfill final cover and other non-disposal areas into sedimentation basins. Landfill leachate is sent to Fairless Landfill WWTP NPDES Permit PA0244856 (previously GROWS wastewater treatment plant for treatment).

Stormwater runoff are collected from the vegetated landfill cover using a series of engineered bench channels, which directs the runoff into gabion or concrete lined vertical channels. The vertical channels convey the stormwater down the landfill side slopes and into the perimeter channel. The perimeter channel discharges into the sedimentation basin. In the sedimentation basin, sediment suspended within the stormwater is deposited within the basin and the basin dewater through a perforated riser pipe into the primary spillway. The basin discharge will be monitored at the outlet of the principal spillway. Stormwater quality is protected from leachate seeps or breakouts through the use of best management practices (BMPs) at the facility but some limited exposure of stormwater to seeps remains possible.

Monitoring requirements are included for all the parameters which are typical of the stormwater from the landfill and land application sites. We have included all the parameters from the Fairless Landfill NPDES permit PA0244856 (previously G.R.O.W.S Landfill NPDES Permit PA0043818) and Appendix C of General Permit (PAG03). Permit also includes Benchmark values for Total suspended Solids (TSS), Chemical Oxygen Demand (COD), pH, Color, Total Dissolved Solids (TDS), Ammonia, Oil & Grease, and Total Tritium. These benchmark vales are not effluent limits, and exceedances do not constitute permit violations. However, if the permittee's sampling demonstrates exceedance of two consecutive monitoring periods, the permittee shall implement additional Best Management Practices (BMPs) to achieve the Benchmark values.

Approve	Deny	Signatures	Date
X		<i>Ketan Thaker</i> Ketan Thaker / Project Manager	7/13/2022
X		<i>Pravin Patel</i> Pravin C. Patel, P.E. / Environmental Engineer Manager	7/14/2022

Summary of Review

Uncontaminated stormwater should not have any parameters at concentration higher than the Benchmark values. Elevated concentrations for these parameters would indicate some level of leachate impact to the stormwater. All the stormwater outfalls will have same parameters with quarterly monitoring requirements for most of the parameters and monthly (when discharging) for all parameters with benchmark values except Total Tritium.

Act-14 Notification to Tullytown Borough and Falls Township on April 30, 2022.

Act-14 Notification to Bucks County Commission on April 30, 2022.

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>002</u>	Design Flow (MGD)	<u>0</u>
Latitude	<u>40° 7' 28.55"</u>	Longitude	<u>-74° 48' 19.96"</u>
Quad Name	_____	Quad Code	_____
Wastewater Description: <u>Stormwater</u>			

Receiving Waters	<u>Delaware River (WWF, MF)</u>	Stream Code	_____
NHD Com ID	<u>25475066</u>	RMI	_____
Drainage Area	_____	Yield (cfs/mi ²)	_____
Q ₇₋₁₀ Flow (cfs)	_____	Q ₇₋₁₀ Basis	_____
Elevation (ft)	_____	Slope (ft/ft)	_____
Watershed No.	<u>2-E</u>	Chapter 93 Class.	<u>WWF, MF</u>
Existing Use	_____	Existing Use Qualifier	_____
Exceptions to Use	_____	Exceptions to Criteria	_____
Assessment Status	<u>Impaired</u>		
Cause(s) of Impairment	<u>POLYCHLORINATED BIPHENYLS (PCBS)</u>		
Source(s) of Impairment	<u>SOURCE UNKNOWN</u>		
TMDL Status	<u>Final</u>	Name	<u>Delaware River Estuary PCB TMDLs</u>

Background/Ambient Data	Data Source
pH (SU)	_____
Temperature (°F)	_____
Hardness (mg/L)	_____
Other:	_____

Nearest Downstream Public Water Supply Intake	
PWS Waters	_____
PWS RMI	_____
Flow at Intake (cfs)	_____
Distance from Outfall (mi)	_____

Discharge, Receiving Waters and Water Supply Information

Outfall No.	<u>001</u>	Design Flow (MGD)	<u>0</u>
Latitude	<u>40° 7' 28.55"</u>	Longitude	<u>-74° 48' 19.96"</u>
Quad Name	_____	Quad Code	_____
Wastewater Description: <u>Stormwater</u>			

Receiving Waters	<u>Delaware River (WWF, MF)</u>	Stream Code	_____
NHD Com ID	<u>25475066</u>	RMI	_____
Drainage Area	_____	Yield (cfs/mi ²)	_____
Q ₇₋₁₀ Flow (cfs)	_____	Q ₇₋₁₀ Basis	_____
Elevation (ft)	_____	Slope (ft/ft)	_____
Watershed No.	<u>2-E</u>	Chapter 93 Class.	<u>WWF, MF</u>
Existing Use	_____	Existing Use Qualifier	_____
Exceptions to Use	_____	Exceptions to Criteria	_____

Assessment Status	<u>Impaired</u>
Cause(s) of Impairment	<u>POLYCHLORINATED BIPHENYLS (PCBS)</u>
Source(s) of Impairment	<u>SOURCE UNKNOWN</u>
TMDL Status	<u>Final</u>
Name	<u>Delaware River Estuary PCB TMDLs</u>

Background/Ambient Data	Data Source
pH (SU)	_____
Temperature (°F)	_____
Hardness (mg/L)	_____
Other:	_____

Nearest Downstream Public Water Supply Intake	
PWS Waters	_____
PWS RMI	_____
Flow at Intake (cfs)	_____
Distance from Outfall (mi)	_____

Discharge, Receiving Waters and Water Supply Information

Outfall No. 004 Design Flow (MGD) 0

Latitude 40° 7' 28.55" Longitude -74° 48' 19.96"

Quad Name _____ Quad Code _____

Wastewater Description: Stormwater

Receiving Waters Delaware River (WWF, MF) Stream Code _____

NHD Com ID 25475066 RMI _____

Drainage Area _____ Yield (cfs/mi²) _____

Q₇₋₁₀ Flow (cfs) _____ Q₇₋₁₀ Basis _____

Elevation (ft) _____ Slope (ft/ft) _____

Watershed No. 2-E Chapter 93 Class. WWF, MF

Existing Use _____ Existing Use Qualifier _____

Exceptions to Use _____ Exceptions to Criteria _____

Assessment Status Impaired

Cause(s) of Impairment POLYCHLORINATED BIPHENYLS (PCBS)

Source(s) of Impairment SOURCE UNKNOWN

TMDL Status Final Name Delaware River Estuary PCB TMDLs

Background/Ambient Data _____ Data Source _____

pH (SU) _____

Temperature (°F) _____

Hardness (mg/L) _____

Other: _____

Nearest Downstream Public Water Supply Intake _____

PWS Waters _____ Flow at Intake (cfs) _____

PWS RMI _____ Distance from Outfall (mi) _____

Discharge, Receiving Waters and Water Supply Information

Outfall No. 003 Design Flow (MGD) 0

Latitude 40° 7' 28.55" Longitude -74° 48' 19.96"

Quad Name _____ Quad Code _____

Wastewater Description: Stormwater

Receiving Waters Delaware River (WWF, MF) Stream Code _____

NHD Com ID 25475066 RMI _____

Drainage Area _____ Yield (cfs/mi²) _____

Q₇₋₁₀ Flow (cfs) _____ Q₇₋₁₀ Basis _____

Elevation (ft) _____ Slope (ft/ft) _____

Watershed No. 2-E Chapter 93 Class. WWF, MF

Existing Use _____ Existing Use Qualifier _____

Exceptions to Use _____ Exceptions to Criteria _____

Assessment Status Impaired

Cause(s) of Impairment POLYCHLORINATED BIPHENYLS (PCBS)

Source(s) of Impairment SOURCE UNKNOWN

TMDL Status Final Name Delaware River Estuary PCB TMDLs

Background/Ambient Data _____ Data Source _____

pH (SU) _____

Temperature (°F) _____

Hardness (mg/L) _____

Other: _____

Nearest Downstream Public Water Supply Intake _____

PWS Waters _____ Flow at Intake (cfs) _____

PWS RMI _____ Distance from Outfall (mi) _____

Discharge, Receiving Waters and Water Supply Information

Outfall No.	<u>005</u>	Design Flow (MGD)	<u>0</u>
Latitude	<u>40° 7' 28.55"</u>	Longitude	<u>-74° 48' 19.96"</u>
Quad Name	_____	Quad Code	_____
Wastewater Description: <u>Stormwater</u>			

Receiving Waters	<u>Delaware River (WWF, MF)</u>	Stream Code	_____
NHD Com ID	<u>25475066</u>	RMI	_____
Drainage Area	_____	Yield (cfs/mi ²)	_____
Q ₇₋₁₀ Flow (cfs)	_____	Q ₇₋₁₀ Basis	_____
Elevation (ft)	_____	Slope (ft/ft)	_____
Watershed No.	<u>2-E</u>	Chapter 93 Class.	<u>WWF, MF</u>
Existing Use	_____	Existing Use Qualifier	_____
Exceptions to Use	_____	Exceptions to Criteria	_____
Assessment Status	<u>Impaired</u>		
Cause(s) of Impairment	<u>POLYCHLORINATED BIPHENYLS (PCBS)</u>		
Source(s) of Impairment	<u>SOURCE UNKNOWN</u>		
TMDL Status	<u>Final</u>	Name	<u>Delaware River Estuary PCB TMDLs</u>

Background/Ambient Data	Data Source
pH (SU)	_____
Temperature (°F)	_____
Hardness (mg/L)	_____
Other:	_____

Nearest Downstream Public Water Supply Intake	
PWS Waters	Flow at Intake (cfs)
PWS RMI	Distance from Outfall (mi)

Discharge, Receiving Waters and Water Supply Information

Outfall No.	<u>006</u>	Design Flow (MGD)	<u>0</u>
Latitude	<u>40° 7' 28.55"</u>	Longitude	<u>-74° 48' 19.96"</u>
Quad Name	_____	Quad Code	_____
Wastewater Description: <u>Stormwater</u>			

Receiving Waters	<u>Delaware River (WWF, MF)</u>	Stream Code	_____
NHD Com ID	<u>25475066</u>	RMI	_____
Drainage Area	_____	Yield (cfs/mi ²)	_____
Q ₇₋₁₀ Flow (cfs)	_____	Q ₇₋₁₀ Basis	_____
Elevation (ft)	_____	Slope (ft/ft)	_____
Watershed No.	<u>2-E</u>	Chapter 93 Class.	<u>WWF, MF</u>
Existing Use	_____	Existing Use Qualifier	_____
Exceptions to Use	_____	Exceptions to Criteria	_____
Assessment Status	<u>Impaired</u>		
Cause(s) of Impairment	<u>POLYCHLORINATED BIPHENYLS (PCBS)</u>		
Source(s) of Impairment	<u>SOURCE UNKNOWN</u>		
TMDL Status	<u>Final</u>	Name	<u>Delaware River Estuary PCB TMDLs</u>

Background/Ambient Data	Data Source
pH (SU)	_____
Temperature (°F)	_____
Hardness (mg/L)	_____
Other:	_____

Nearest Downstream Public Water Supply Intake	
PWS Waters	_____
PWS RMI	_____
Flow at Intake (cfs)	_____
Distance from Outfall (mi)	_____

Discharge, Receiving Waters and Water Supply Information

Outfall No. 008 Design Flow (MGD) 0

Latitude 40° 7' 28.55" Longitude -74° 48' 19.96"

Quad Name _____ Quad Code _____

Wastewater Description: Stormwater

Receiving Waters Delaware River (WWF, MF) Stream Code _____

NHD Com ID 25475066 RMI _____

Drainage Area _____ Yield (cfs/mi²) _____

Q₇₋₁₀ Flow (cfs) _____ Q₇₋₁₀ Basis _____

Elevation (ft) _____ Slope (ft/ft) _____

Watershed No. 2-E Chapter 93 Class. WWF, MF

Existing Use _____ Existing Use Qualifier _____

Exceptions to Use _____ Exceptions to Criteria _____

Assessment Status Impaired

Cause(s) of Impairment POLYCHLORINATED BIPHENYLS (PCBS)

Source(s) of Impairment SOURCE UNKNOWN

TMDL Status Final Name Delaware River Estuary PCB TMDLs

Background/Ambient Data _____ Data Source _____

pH (SU) _____

Temperature (°F) _____

Hardness (mg/L) _____

Other: _____

Nearest Downstream Public Water Supply Intake _____

PWS Waters _____ Flow at Intake (cfs) _____

PWS RMI _____ Distance from Outfall (mi) _____

Discharge, Receiving Waters and Water Supply Information

Outfall No.	<u>009</u>	Design Flow (MGD)	<u>0</u>
Latitude	<u>40° 8' 20.48"</u>	Longitude	<u>-74° 48' 41.32"</u>
Quad Name	<u></u>	Quad Code	<u></u>
Wastewater Description: <u>Stormwater</u>			

Receiving Waters	<u>Martins Creek (WWF)</u>	Stream Code	<u></u>
NHD Com ID	<u>25486696</u>	RMI	<u></u>
Drainage Area	<u></u>	Yield (cfs/mi ²)	<u></u>
Q ₇₋₁₀ Flow (cfs)	<u></u>	Q ₇₋₁₀ Basis	<u></u>
Elevation (ft)	<u></u>	Slope (ft/ft)	<u></u>
Watershed No.	<u>2-E</u>	Chapter 93 Class.	<u>WWF</u>
Existing Use	<u></u>	Existing Use Qualifier	<u></u>
Exceptions to Use	<u></u>	Exceptions to Criteria	<u></u>

Assessment Status	<u>Impaired</u>		
Cause(s) of Impairment	<u>FLOW REGIME MODIFICATION, POLYCHLORINATED BIPHENYLS (PCBS), SILTATION</u>		
Source(s) of Impairment	<u>CHANNELIZATION, SOURCE UNKNOWN, URBAN RUNOFF/STORM SEWERS</u>		
TMDL Status	<u>Final</u>	Name	<u>Delaware River Estuary PCB TMDLs</u>

Background/Ambient Data	Data Source	
pH (SU)	<u></u>	<u></u>
Temperature (°F)	<u></u>	<u></u>
Hardness (mg/L)	<u></u>	<u></u>
Other:	<u></u>	<u></u>

Nearest Downstream Public Water Supply Intake		<u></u>
PWS Waters	<u></u>	Flow at Intake (cfs) <u></u>
PWS RMI	<u></u>	Distance from Outfall (mi) <u></u>

Discharge, Receiving Waters and Water Supply Information

Outfall No.	<u>010</u>	Design Flow (MGD)	<u>0</u>
Latitude	<u>40° 7' 52.68"</u>	Longitude	<u>-74° 47' 35.11"</u>
Quad Name	_____	Quad Code	_____
Wastewater Description: <u>Stormwater</u>			

Receiving Waters	<u>Unnamed Tributary to Delaware River (WWF)</u>	Stream Code	_____
NHD Com ID	<u>25486928</u>	RMI	_____
Drainage Area	_____	Yield (cfs/mi ²)	_____
Q ₇₋₁₀ Flow (cfs)	_____	Q ₇₋₁₀ Basis	_____
Elevation (ft)	_____	Slope (ft/ft)	_____
Watershed No.	<u>2-E</u>	Chapter 93 Class.	<u>WWF</u>
Existing Use	_____	Existing Use Qualifier	_____
Exceptions to Use	_____	Exceptions to Criteria	_____

Assessment Status	<u>Impaired</u>		
Cause(s) of Impairment	<u>POLYCHLORINATED BIPHENYLS (PCBS)</u>		
Source(s) of Impairment	<u>SOURCE UNKNOWN</u>		
TMDL Status	<u>Final</u>	Name	<u>Delaware River Estuary PCB TMDLs</u>

Background/Ambient Data	Data Source
pH (SU)	_____
Temperature (°F)	_____
Hardness (mg/L)	_____
Other:	_____

Nearest Downstream Public Water Supply Intake	
PWS Waters	_____
PWS RMI	_____
Flow at Intake (cfs)	_____
Distance from Outfall (mi)	_____

Compliance History

DMR Data for Outfall 001 (from May 1, 2021 to April 30, 2022)

Parameter	APR-22	MAR-22	FEB-22	JAN-22	DEC-21	NOV-21	OCT-21	SEP-21	AUG-21	JUL-21	JUN-21	MAY-21
pH (S.U.) Average Monthly	8.40	8.42	8.34	8.06	8.33	8.11	8.23	8.34	7.84	7.64	7.89	8.72
pH (S.U.) Daily Maximum	8.40	8.42	8.34	8.06	8.33	8.11	8.23	8.34	7.84	7.64	7.89	8.72
Color (Pt-Co Units) Average Monthly	20	20	20	25	25	30	50	60	75	40	30	20
Color (Pt-Co Units) Daily Maximum	20	20	20	25	25	30	50	60	75	40	30	20
CBOD5 (mg/L) Average Quarterly		2			< 3			11			3	
CBOD5 (mg/L) Daily Maximum		2			< 3			11			3	
COD (mg/L) Average Monthly	61	31	62	41	51	48	< 10	33	36	61	43	48
COD (mg/L) Daily Maximum	61	31	62	41	51	48	< 10	33	36	61	43	48
TSS (mg/L) Average Monthly	18	12	35	86	45	8	< 2	11	77	62	258	16
TSS (mg/L) Daily Maximum	18	12	35	86	45	8	< 2	11	77	62	258	16
Total Dissolved Solids (mg/L) Average Monthly	338	350	426	254	332	392	234	280	200	228	264	290
Total Dissolved Solids (mg/L) Daily Maximum	338	350	426	254	332	392	234	280	200	228	264	290
Oil and Grease (mg/L) Average Monthly	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 6	< 5
Oil and Grease (mg/L) Daily Maximum	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 5	< 6	< 5
Nitrate-Nitrite (mg/L) Average Quarterly		0.95			0.46			< 0.05			< 0.05	
Nitrate-Nitrite (mg/L) Daily Maximum		0.95			0.46			< 0.05			< 0.05	
Ammonia (mg/L) Average Monthly	< 0.10	< 0.10	< 0.10	0.19	0.11	0.14	< 0.10	0.16	0.15	0.29	0.20	< 0.10
Ammonia (mg/L) Daily Maximum	< 0.10	< 0.10	< 0.10	0.19	0.11	0.14	< 0.10	0.16	0.15	0.29	0.20	< 0.10

**NPDES Permit Fact Sheet
Tullytown Resource Recovery Facility**

NPDES Permit No. PA0244902

Total Arsenic (mg/L) Average Quarterly	< 0.02			< 0.02			< 0.02			< 0.02	
Total Arsenic (mg/L) Daily Maximum	< 0.02			< 0.02			< 0.02			< 0.02	
Total Barium (mg/L) Average Quarterly	0.05			0.05			0.09			< 0.01	
Total Barium (mg/L) Daily Maximum	0.05			0.05			0.09			< 0.01	
Total Cadmium (mg/L) Average Quarterly	< 0.002			< 0.002			< 0.002			< 0.002	
Total Cadmium (mg/L) Daily Maximum	< 0.002			< 0.002			< 0.002			< 0.002	
Total Chromium (mg/L) Average Quarterly	< 0.01			< 0.01			< 0.01			< 0.01	
Total Chromium (mg/L) Daily Maximum	< 0.01			< 0.01			< 0.01			< 0.01	
Total Cyanide (mg/L) Average Quarterly	< 0.020			< 0.020			< 0.020			< 0.020	
Total Cyanide (mg/L) Daily Maximum	< 0.020			< 0.020			< 0.020			< 0.020	
Dissolved Iron (mg/L) Average Quarterly	1.17			0.27			< 0.05			0.11	
Dissolved Iron (mg/L) Daily Maximum	1.17			0.27			< 0.05			0.11	
Total Iron (mg/L) Average Quarterly	6.56			1.47			0.60			0.38	
Total Iron (mg/L) Daily Maximum	6.56			1.47			0.60			0.38	
Total Lead (mg/L) Average Quarterly	< 0.02			< 0.02			< 0.02			< 0.02	
Total Lead (mg/L) Daily Maximum	< 0.02			< 0.02			< 0.02			< 0.02	
Dissolved Magnesium (mg/L) Average Quarterly	11.7			12.2			11.9			21.0	
Dissolved Magnesium (mg/L) Daily Maximum	11.7			12.2			11.9			21.0	
Total Magnesium (mg/L) Average Quarterly	13.0			12.8			13.1			21.1	
Total Magnesium (mg/L) Daily Maximum	13.0			12.8			13.1			21.1	

Total Mercury (mg/L) Average Quarterly	< 0.0002			< 0.0002			< 0.0002			< 0.0002	
Total Mercury (mg/L) Daily Maximum	< 0.0002			< 0.0002			< 0.0002			< 0.0002	
Total Selenium (mg/L) Average Quarterly	< 0.02			< 0.02			< 0.02			< 0.02	
Total Selenium (mg/L) Daily Maximum	< 0.02			< 0.02			< 0.02			< 0.02	
Total Silver (mg/L) Average Quarterly	< 0.005			< 0.005			< 0.005			< 0.005	
Total Silver (mg/L) Daily Maximum	< 0.005			< 0.005			< 0.005			< 0.005	
Sulfate (mg/L) Average Quarterly	40.3			21.3			25.2			69.3	
Sulfate (mg/L) Daily Maximum	40.3			21.3			25.2			69.3	
Total Tritium (pCi/L) Average Quarterly	72.1			29.7			4.50			173	
Total Tritium (pCi/L) Daily Maximum	72.1			29.7			4.50			173	
1,4-Dioxane (mg/L) Average Quarterly	< 0.05			< 0.05			< 0.05			< 0.05	
1,4-Dioxane (mg/L) Daily Maximum	< 0.05			< 0.05			< 0.05			< 0.05	
Chloride (mg/L) Average Quarterly	14.6			11.7			13.3			16.8	
Chloride (mg/L) Daily Maximum	14.6			11.7			13.3			16.8	
Bromide (mg/L) Average Quarterly	< 0.2			< 0.2			< 0.2			< 0.2	
Bromide (mg/L) Daily Maximum	< 0.2			< 0.2			< 0.2			< 0.2	
TOC (mg/L) Average Quarterly	9.8			11.8			11.8			12.6	
TOC (mg/L) Daily Maximum	9.8			11.8			11.8			12.6	

DMR Data for Outfall 002 (from May 1, 2021 to April 30, 2022)

Parameter	APR-22	MAR-22	FEB-22	JAN-22	DEC-21	NOV-21	OCT-21	SEP-21	AUG-21	JUL-21	JUN-21	MAY-21
pH (S.U.) Average Monthly	8.42		7.91					7.98	7.51	7.62		
pH (S.U.) Daily Maximum	8.42		7.91					7.98	7.51	7.62		

**NPDES Permit Fact Sheet
Tullytown Resource Recovery Facility**

NPDES Permit No. PA0244902

Color (Pt-Co Units) Average Monthly	40		100				60	60	120		
Color (Pt-Co Units) Daily Maximum	40		100				60	60	120		
CBOD5 (mg/L) Average Quarterly		2					3				
CBOD5 (mg/L) Daily Maximum		2					3				
COD (mg/L) Average Monthly	39		31				27	32	40		
COD (mg/L) Daily Maximum	39		31				27	32	40		
TSS (mg/L) Average Monthly	8		6				4	64	28		
TSS (mg/L) Daily Maximum	8		6				4	64	28		
Total Dissolved Solids (mg/L) Average Monthly	342		382				218	82	236		
Total Dissolved Solids (mg/L) Daily Maximum	342		382				218	82	236		
Oil and Grease (mg/L) Average Monthly	< 5		< 5				< 5	< 5	< 5		
Oil and Grease (mg/L) Daily Maximum	< 5		< 5				< 5	< 5	< 5		
Nitrate-Nitrite (mg/L) Average Quarterly		8.10					7.87				
Nitrate-Nitrite (mg/L) Daily Maximum		8.10					7.87				
Ammonia (mg/L) Average Monthly	< 0.10		0.11				< 0.10	< 0.10	< 0.10		
Ammonia (mg/L) Daily Maximum	< 0.10		0.11				< 0.10	< 0.10	< 0.10		
Total Arsenic (mg/L) Average Quarterly		< 0.02					< 0.02				
Total Arsenic (mg/L) Daily Maximum		< 0.02					< 0.02				
Total Barium (mg/L) Average Quarterly		0.05					0.04				
Total Barium (mg/L) Daily Maximum		0.05					0.04				
Total Cadmium (mg/L) Average Quarterly		< 0.002					< 0.002				
Total Cadmium (mg/L) Daily Maximum		< 0.002					< 0.002				

Total Chromium (mg/L) Average Quarterly	< 0.01							< 0.01				
Total Chromium (mg/L) Daily Maximum	< 0.01							< 0.01				
Total Cyanide (mg/L) Average Quarterly	< 0.020							< 0.020				
Total Cyanide (mg/L) Daily Maximum	< 0.020							< 0.020				
Dissolved Iron (mg/L) Average Quarterly	0.25							0.13				
Dissolved Iron (mg/L) Daily Maximum	0.25							0.13				
Total Iron (mg/L) Average Quarterly	0.48							0.37				
Total Iron (mg/L) Daily Maximum	0.48							0.37				
Total Lead (mg/L) Average Quarterly	< 0.02							< 0.02				
Total Lead (mg/L) Daily Maximum	< 0.02							< 0.02				
Dissolved Magnesium (mg/L) Average Quarterly	16.7							8.0				
Dissolved Magnesium (mg/L) Daily Maximum	16.7							8.0				
Total Magnesium (mg/L) Average Quarterly	17.0							8.6				
Total Magnesium (mg/L) Daily Maximum	17.0							8.6				
Total Mercury (mg/L) Average Quarterly	< 0.0002							< 0.0002				
Total Mercury (mg/L) Daily Maximum	< 0.0002							< 0.0002				
Total Selenium (mg/L) Average Quarterly	< 0.02							< 0.02				
Total Selenium (mg/L) Daily Maximum	< 0.02							< 0.02				
Total Silver (mg/L) Average Quarterly	< 0.005							< 0.005				
Total Silver (mg/L) Daily Maximum	< 0.005							< 0.005				

Sulfate (mg/L) Average Quarterly	98.9							24.4				
Sulfate (mg/L) Daily Maximum	98.9							24.4				
Total Tritium (pCi/L) Average Quarterly	63.1							23.4				
Total Tritium (pCi/L) Daily Maximum	63.1							23.4				
1,4-Dioxane (mg/L) Average Quarterly	< 0.050							< 0.05				
1,4-Dioxane (mg/L) Daily Maximum	< 0.050							< 0.05				
Chloride (mg/L) Average Quarterly	13.7							3.8				
Chloride (mg/L) Daily Maximum	13.7							3.8				
Bromide (mg/L) Average Quarterly	< 0.2							< 0.2				
Bromide (mg/L) Daily Maximum	< 0.2							< 0.2				
TOC (mg/L) Average Quarterly	14.1							14.9				
TOC (mg/L) Daily Maximum	14.1							14.9				

DMR Data for Outfall 003 (from May 1, 2021 to April 30, 2022)

Parameter	APR-22	MAR-22	FEB-22	JAN-22	DEC-21	NOV-21	OCT-21	SEP-21	AUG-21	JUL-21	JUN-21	MAY-21
pH (S.U.) Average Monthly			7.88					8.13	7.31	8.20		
pH (S.U.) Daily Maximum			7.88					8.13	7.31	8.20		
Color (Pt-Co Units) Average Monthly			40					100	60	60		
Color (Pt-Co Units) Daily Maximum			40					100	60	60		
CBOD5 (mg/L) Average Quarterly		2						2				
CBOD5 (mg/L) Daily Maximum		2						2				
COD (mg/L) Average Monthly			35					44	30	40		
COD (mg/L) Daily Maximum			35					44	30	40		

TSS (mg/L) Average Monthly			4					< 2	50	11		
TSS (mg/L) Daily Maximum			4					< 2	50	11		
Total Dissolved Solids (mg/L) Average Monthly			304					262	72	334		
Total Dissolved Solids (mg/L) Daily Maximum			304					262	72	334		
Oil and Grease (mg/L) Average Monthly			< 5					< 6	< 5	< 5		
Oil and Grease (mg/L) Daily Maximum			< 5					< 6	< 5	< 5		
Nitrate-Nitrite (mg/L) Average Quarterly		18.6						5.69				
Nitrate-Nitrite (mg/L) Daily Maximum		18.6						5.69				
Ammonia (mg/L) Average Monthly			< 0.10					< 0.10	< 0.10	0.31		
Ammonia (mg/L) Daily Maximum			< 0.10					< 0.10	< 0.10	0.31		
Total Arsenic (mg/L) Average Quarterly		< 0.02						< 0.02				
Total Arsenic (mg/L) Daily Maximum		< 0.02						< 0.02				
Total Barium (mg/L) Average Quarterly		0.04						0.06				
Total Barium (mg/L) Daily Maximum		0.04						0.06				
Total Cadmium (mg/L) Average Quarterly		< 0.002						< 0.002				
Total Cadmium (mg/L) Daily Maximum		< 0.002						< 0.002				
Total Chromium (mg/L) Average Quarterly		< 0.01						< 0.01				
Total Chromium (mg/L) Daily Maximum		< 0.01						< 0.01				
Total Cyanide (mg/L) Average Quarterly		< 0.020						< 0.020				
Total Cyanide (mg/L) Daily Maximum		< 0.020						< 0.020				
Dissolved Iron (mg/L) Average Quarterly		0.19						0.28				

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Dissolved Iron (mg/L) Daily Maximum	0.19						0.28				
Total Iron (mg/L) Average Quarterly	0.42						0.44				
Total Iron (mg/L) Daily Maximum	0.42						0.44				
Total Lead (mg/L) Average Quarterly	< 0.02						< 0.02				
Total Lead (mg/L) Daily Maximum	< 0.02						< 0.02				
Dissolved Magnesium (mg/L) Average Quarterly	15.5						14.3				
Dissolved Magnesium (mg/L) Daily Maximum	15.5						14.3				
Total Magnesium (mg/L) Average Quarterly	16.1						14.4				
Total Magnesium (mg/L) Daily Maximum	16.1						14.4				
Total Mercury (mg/L) Average Quarterly	< 0.0002						< 0.0002				
Total Mercury (mg/L) Daily Maximum	< 0.0002						< 0.0002				
Total Selenium (mg/L) Average Quarterly	< 0.02						< 0.02				
Total Selenium (mg/L) Daily Maximum	< 0.02						< 0.02				
Total Silver (mg/L) Average Quarterly	< 0.005						< 0.005				
Total Silver (mg/L) Daily Maximum	< 0.005						< 0.005				
Sulfate (mg/L) Average Quarterly	40.6						50.7				
Sulfate (mg/L) Daily Maximum	40.6						50.7				
Total Tritium (pCi/L) Average Quarterly	49.5						155				
Total Tritium (pCi/L) Average Quarterly	49.5						155				
1,4-Dioxane (mg/L) Average Quarterly	< 0.050						< 0.05				
1,4-Dioxane (mg/L) Daily Maximum	< 0.050						< 0.05				

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Chloride (mg/L) Average Quarterly		2.8						9.8				
Chloride (mg/L) Daily Maximum		2.8						9.8				
Bromide (mg/L) Average Quarterly		< 0.2						< 0.2				
Bromide (mg/L) Daily Maximum		< 0.2						< 0.2				
TOC (mg/L) Average Quarterly		14.7						15.2				
TOC (mg/L) Daily Maximum		14.7						15.2				

DMR Data for Outfall 004 (from May 1, 2021 to April 30, 2022)

Parameter	APR-22	MAR-22	FEB-22	JAN-22	DEC-21	NOV-21	OCT-21	SEP-21	AUG-21	JUL-21	JUN-21	MAY-21
pH (S.U.) Average Monthly	8.20	8.37	7.89						7.51	8.17		
pH (S.U.) Daily Maximum	8.20	8.37	7.89						7.51	8.17		
Color (Pt-Co Units) Average Monthly	50	30	100						60	100		
Color (Pt-Co Units) Daily Maximum	50	30	100						60	100		
CBOD5 (mg/L) Average Quarterly		3						2				
CBOD5 (mg/L) Daily Maximum		3						2				
COD (mg/L) Average Monthly	43	52	34						28	61		
COD (mg/L) Daily Maximum	43	52	34						28	61		
TSS (mg/L) Average Monthly	91	10	580						613	1130		
TSS (mg/L) Daily Maximum	91	10	580						613	1130		
Total Dissolved Solids (mg/L) Average Monthly	496	640	482						480	546		
Total Dissolved Solids (mg/L) Daily Maximum	496	640	482						480	546		
Oil and Grease (mg/L) Average Monthly	< 5	< 5	< 5						< 5	< 5		

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Oil and Grease (mg/L) Daily Maximum	< 5	< 5	< 5						< 5	< 5		
Nitrate-Nitrite (mg/L) Average Quarterly		14.9					16.1					
Nitrate-Nitrite (mg/L) Daily Maximum		14.9					16.1					
Ammonia (mg/L) Average Monthly	< 0.10	< 0.10	0.18						< 0.10	0.53		
Ammonia (mg/L) Daily Maximum	< 0.10	< 0.10	0.18						< 0.10	0.53		
Total Arsenic (mg/L) Average Quarterly		< 0.02					< 0.02					
Total Arsenic (mg/L) Daily Maximum		< 0.02					< 0.02					
Total Barium (mg/L) Average Quarterly		0.08					0.08					
Total Barium (mg/L) Daily Maximum		0.08					0.08					
Total Cadmium (mg/L) Average Quarterly		< 0.002					< 0.002					
Total Cadmium (mg/L) Daily Maximum		< 0.002					< 0.002					
Total Chromium (mg/L) Average Quarterly		0.02					< 0.01					
Total Chromium (mg/L) Daily Maximum		0.02					< 0.01					
Total Cyanide (mg/L) Average Quarterly		< 0.020					< 0.020					
Total Cyanide (mg/L) Daily Maximum		< 0.020					< 0.020					
Dissolved Iron (mg/L) Average Quarterly		4.22					0.63					
Dissolved Iron (mg/L) Daily Maximum		4.22					0.63					
Total Iron (mg/L) Average Quarterly		19.6					0.84					
Total Iron (mg/L) Daily Maximum		19.6					0.84					
Total Lead (mg/L) Average Quarterly		< 0.02					< 0.02					
Total Lead (mg/L) Daily Maximum		< 0.02					< 0.02					

Dissolved Magnesium (mg/L) Average Quarterly	23.1							22.9				
Dissolved Magnesium (mg/L) Daily Maximum	23.1							22.9				
Total Magnesium (mg/L) Average Quarterly	23.9							23.0				
Total Magnesium (mg/L) Daily Maximum	23.9							23.0				
Total Mercury (mg/L) Average Quarterly	< 0.0002							< 0.0002				
Total Mercury (mg/L) Daily Maximum	< 0.0002							< 0.0002				
Total Selenium (mg/L) Average Quarterly	< 0.02							< 0.02				
Total Selenium (mg/L) Daily Maximum	< 0.02							< 0.02				
Total Silver (mg/L) Average Quarterly	< 0.005							< 0.005				
Total Silver (mg/L) Daily Maximum	< 0.005							< 0.005				
Sulfate (mg/L) Average Quarterly	127							107				
Sulfate (mg/L) Daily Maximum	127							107				
Total Tritium (pCi/L) Average Quarterly	110							85.6				
Total Tritium (pCi/L) Daily Maximum	110							85.6				
1,4-Dioxane (mg/L) Average Quarterly	< 0.050							< 0.05				
1,4-Dioxane (mg/L) Daily Maximum	< 0.050							< 0.05				
Chloride (mg/L) Average Quarterly	12.7							14.7				
Chloride (mg/L) Daily Maximum	12.7							14.7				
Bromide (mg/L) Average Quarterly	< 0.2							< 0.2				
Bromide (mg/L) Daily Maximum	< 0.2							< 0.2				
TOC (mg/L) Average Quarterly	14.5							20.5				

TOC (mg/L) Daily Maximum		14.5						20.5				
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DMR Data for Outfall 005 (from May 1, 2021 to April 30, 2022)

Parameter	APR-22	MAR-22	FEB-22	JAN-22	DEC-21	NOV-21	OCT-21	SEP-21	AUG-21	JUL-21	JUN-21	MAY-21
pH (S.U.) Average Monthly								7.59	7.73	7.15		
pH (S.U.) Daily Maximum								7.59	7.73	7.15		
Color (Pt-Co Units) Average Monthly								60	60	< 5		
Color (Pt-Co Units) Daily Maximum								60	60	< 5		
CBOD5 (mg/L) Average Quarterly								5				
CBOD5 (mg/L) Daily Maximum								5				
COD (mg/L) Average Monthly								44	26	31		
COD (mg/L) Daily Maximum								44	26	31		
TSS (mg/L) Average Monthly								58	125	18		
TSS (mg/L) Daily Maximum								58	125	18		
Total Dissolved Solids (mg/L) Average Monthly								198	112	26		
Total Dissolved Solids (mg/L) Daily Maximum								198	112	26		
Oil and Grease (mg/L) Average Monthly								< 5	< 5	< 5		
Oil and Grease (mg/L) Daily Maximum								< 5	< 5	< 5		
Nitrate-Nitrite (mg/L) Average Quarterly								< 0.05				
Nitrate-Nitrite (mg/L) Daily Maximum								< 0.05				
Ammonia (mg/L) Average Monthly								< 0.10	< 0.10	< 0.10		
Ammonia (mg/L) Daily Maximum								< 0.10	< 0.10	< 0.10		

Total Arsenic (mg/L) Average Quarterly									< 0.02				
Total Arsenic (mg/L) Daily Maximum									< 0.02				
Total Barium (mg/L) Average Quarterly									< 0.01				
Total Barium (mg/L) Daily Maximum									< 0.01				
Total Cadmium (mg/L) Average Quarterly									< 0.002				
Total Cadmium (mg/L) Daily Maximum									< 0.002				
Total Chromium (mg/L) Average Quarterly									< 0.01				
Total Chromium (mg/L) Daily Maximum									< 0.01				
Total Cyanide (mg/L) Average Quarterly									< 0.020				
Total Cyanide (mg/L) Daily Maximum									< 0.020				
Dissolved Iron (mg/L) Average Quarterly									0.18				
Dissolved Iron (mg/L) Daily Maximum									0.18				
Total Iron (mg/L) Average Quarterly									0.16				
Total Iron (mg/L) Daily Maximum									0.16				
Total Lead (mg/L) Average Quarterly									< 0.02				
Total Lead (mg/L) Daily Maximum									< 0.02				
Dissolved Magnesium (mg/L) Average Quarterly									0.7				
Dissolved Magnesium (mg/L) Daily Maximum									0.7				
Total Magnesium (mg/L) Average Quarterly									0.7				
Total Magnesium (mg/L) Daily Maximum									0.7				

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Color (Pt-Co Units) Average Monthly	15	20	60	20	25	30	100	75	60	80	40	25
Color (Pt-Co Units) Daily Maximum	15	20	60	20	25	30	100	75	60	80	40	25
CBOD5 (mg/L) Average Quarterly		< 2			2			9			24	
CBOD5 (mg/L) Daily Maximum		< 2			2			9			24	
COD (mg/L) Average Monthly	30	34	88	37	52	71	25	55	64	64	80	57
COD (mg/L) Daily Maximum	30	34	88	37	52	71	25	55	64	64	80	57
TSS (mg/L) Average Monthly	25	24	181	33	71	62	20	11	46	46	169	5
TSS (mg/L) Daily Maximum	25	24	181	33	71	62	20	11	46	46	169	5
Total Dissolved Solids (mg/L) Average Monthly	274	440	304	186	276	282	144	388	388	310	260	230
Total Dissolved Solids (mg/L) Daily Maximum	274	440	304	186	276	282	144	388	388	310	260	230
Oil and Grease (mg/L) Average Monthly	< 5	< 5	< 6	< 5	< 5	< 5	< 5	< 5	< 5	< 7	< 5	< 5
Oil and Grease (mg/L) Daily Maximum	< 5	< 5	< 6	< 5	< 5	< 5	< 5	< 5	< 5	< 7	< 5	< 5
Nitrate-Nitrite (mg/L) Average Quarterly		0.28			0.70			< 0.05			1.58	
Nitrate-Nitrite (mg/L) Daily Maximum		0.28			0.70			< 0.05			1.58	
Ammonia (mg/L) Average Monthly	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.16	0.44	0.54	< 0.10
Ammonia (mg/L) Daily Maximum	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	0.16	0.44	0.54	< 0.10
Total Arsenic (mg/L) Average Quarterly		< 0.02			< 0.02			< 0.02			< 0.02	
Total Arsenic (mg/L) Daily Maximum		< 0.02			< 0.02			< 0.02			< 0.02	
Total Barium (mg/L) Average Quarterly		0.04			0.03			0.06			0.11	
Total Barium (mg/L) Daily Maximum		0.04			0.03			0.06			0.11	
Total Cadmium (mg/L) Average Quarterly		< 0.002			< 0.002			< 0.002			< 0.002	
Total Cadmium (mg/L) Daily Maximum		< 0.002			< 0.002			< 0.002			< 0.002	

Total Chromium (mg/L) Average Quarterly	< 0.01			< 0.01			< 0.01			0.02	
Total Chromium (mg/L) Daily Maximum	< 0.01			< 0.01			< 0.01			0.02	
Total Cyanide (mg/L) Average Quarterly	< 0.020			< 0.020			< 0.020			< 0.020	
Total Cyanide (mg/L) Daily Maximum	< 0.020			< 0.020			< 0.020			< 0.020	
Dissolved Iron (mg/L) Average Quarterly	1.00			0.41			0.50			0.07	
Dissolved Iron (mg/L) Daily Maximum	1.00			0.41			0.50			0.07	
Total Iron (mg/L) Average Quarterly	2.67			1.06			1.22			10.9	
Total Iron (mg/L) Daily Maximum	2.67			1.06			1.22			10.9	
Total Lead (mg/L) Average Quarterly	< 0.02			< 0.02			< 0.02			0.04	
Total Lead (mg/L) Daily Maximum	< 0.02			< 0.02			< 0.02			0.04	
Dissolved Magnesium (mg/L) Average Quarterly	12.3			9.8			19.6			25.0	
Dissolved Magnesium (mg/L) Daily Maximum	12.3			9.8			19.6			25.0	
Total Magnesium (mg/L) Average Quarterly	13.1			10.2			19.4			29.1	
Total Magnesium (mg/L) Daily Maximum	13.1			10.2			19.4			29.1	
Total Mercury (mg/L) Average Quarterly	< 0.0002			< 0.0002			< 0.0002			0.0007	
Total Mercury (mg/L) Daily Maximum	< 0.0002			< 0.0002			< 0.0002			0.0007	
Total Selenium (mg/L) Average Quarterly	< 0.02			< 0.02			< 0.02			< 0.02	
Total Selenium (mg/L) Daily Maximum	< 0.02			< 0.02			< 0.02			< 0.02	
Total Silver (mg/L) Average Quarterly	< 0.005			< 0.005			< 0.005			< 0.005	
Total Silver (mg/L) Daily Maximum	< 0.005			< 0.005			< 0.005			< 0.005	

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Sulfate (mg/L) Average Quarterly	43.5			28.5			54.1			95.1	
Sulfate (mg/L) Daily Maximum	43.5			28.5			54.1			95.1	
Total Tritium (pCi/L) Average Quarterly	27.0			114			54.1			13.5	
Total Tritium (pCi/L) Daily Maximum	27.0			114			54.1			13.5	
1,4-Dioxane (mg/L) Average Quarterly	< 0.050			< 0.05			< 0.05			< 0.05	
1,4-Dioxane (mg/L) Daily Maximum	< 0.050			< 0.05			< 0.05			< 0.05	
Chloride (mg/L) Average Quarterly	6.7			4.7			5.9			9.9	
Chloride (mg/L) Daily Maximum	6.7			4.7			5.9			9.9	
Bromide (mg/L) Average Quarterly	< 0.2			< 0.2			< 0.2			< 0.2	
Bromide (mg/L) Daily Maximum	< 0.2			< 0.2			< 0.2			< 0.2	
TOC (mg/L) Average Quarterly	9.9			10.2			20.5			13.9	
TOC (mg/L) Daily Maximum	9.9			10.2			20.5			13.9	

DMR Data for Outfall 008 (from May 1, 2021 to April 30, 2022)

Parameter	APR-22	MAR-22	FEB-22	JAN-22	DEC-21	NOV-21	OCT-21	SEP-21	AUG-21	JUL-21	JUN-21	MAY-21
pH (S.U.) Average Monthly	8.12	8.38	8.20	7.90		8.41	7.92	8.17	8.10	7.35	7.42	8.68
pH (S.U.) Daily Maximum	8.12	8.38	8.20	7.90		8.41	7.92	8.17	8.10	7.35	7.42	8.68
Color (Pt-Co Units) Average Monthly	40	25	25	25		30	40	75	50	40	60	60
Color (Pt-Co Units) Daily Maximum	40	25	25	25		30	40	75	50	40	60	60
CBOD5 (mg/L) Average Quarterly		9			2			2			4	
CBOD5 (mg/L) Daily Maximum		9			2			2			4	
COD (mg/L) Average Monthly	28	25	34	33		32	25	27	25	40	62	57
COD (mg/L) Daily Maximum	28	25	34	33		32	25	27	25	40	62	57

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TSS (mg/L) Average Monthly	5	2	11	40		8	8	6	10	14	42	10
TSS (mg/L) Daily Maximum	5	2	11	40		8	8	6	10	14	42	10
Total Dissolved Solids (mg/L) Average Monthly	256	292	360	168		238	128	240	238	164	368	366
Total Dissolved Solids (mg/L) Daily Maximum	256	292	360	168		238	128	240	238	164	368	366
Oil and Grease (mg/L) Average Monthly	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 6
Oil and Grease (mg/L) Daily Maximum	< 5	< 5	< 5	< 5		< 5	< 5	< 5	< 5	< 5	< 5	< 6
Nitrate-Nitrite (mg/L) Average Quarterly		0.74			0.24			< 0.05			< 0.05	
Nitrate-Nitrite (mg/L) Daily Maximum		0.74			0.24			< 0.05			< 0.05	
Ammonia (mg/L) Average Monthly	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	0.23	0.16	< 0.10	< 0.10	< 0.10
Ammonia (mg/L) Daily Maximum	< 0.10	< 0.10	< 0.10	< 0.10		< 0.10	< 0.10	0.23	0.16	< 0.10	< 0.10	< 0.10
Total Arsenic (mg/L) Average Quarterly		< 0.02			< 0.02			< 0.02			< 0.02	
Total Arsenic (mg/L) Daily Maximum		< 0.02			< 0.02			< 0.02			< 0.02	
Total Barium (mg/L) Average Quarterly		0.04			0.02			0.05			0.01	
Total Barium (mg/L) Daily Maximum		0.04			0.02			0.05			0.01	
Total Cadmium (mg/L) Average Quarterly		< 0.002			< 0.002			< 0.002			< 0.002	
Total Cadmium (mg/L) Daily Maximum		< 0.002			< 0.002			< 0.002			< 0.002	
Total Chromium (mg/L) Average Quarterly		< 0.01			< 0.01			< 0.01			< 0.01	
Total Chromium (mg/L) Daily Maximum		< 0.01			< 0.01			< 0.01			< 0.01	
Total Cyanide (mg/L) Average Quarterly		< 0.020			< 0.020			< 0.020			< 0.020	
Total Cyanide (mg/L) Daily Maximum		< 0.020			< 0.020			< 0.020			< 0.020	
Dissolved Iron (mg/L) Average Quarterly		1.46			0.27			0.26			0.06	

Dissolved Iron (mg/L) Daily Maximum	1.46			0.27			0.26			0.06	
Total Iron (mg/L) Average Quarterly	3.44			0.59			0.68			0.22	
Total Iron (mg/L) Daily Maximum	3.44			0.59			0.68			0.22	
Total Lead (mg/L) Average Quarterly	< 0.02			< 0.02			< 0.02			< 0.02	
Total Lead (mg/L) Daily Maximum	< 0.02			< 0.02			< 0.02			< 0.02	
Dissolved Magnesium (mg/L) Average Quarterly	8.9			6.2			5.8			16.9	
Dissolved Magnesium (mg/L) Daily Maximum	8.9			6.2			5.8			16.9	
Total Magnesium (mg/L) Average Quarterly	9.3			6.3			6.3			17.0	
Total Magnesium (mg/L) Daily Maximum	9.3			6.3			6.3			17.0	
Total Mercury (mg/L) Average Quarterly	< 0.0002			< 0.0002			< 0.0002			< 0.0002	
Total Mercury (mg/L) Daily Maximum	< 0.0002			< 0.0002			< 0.0002			< 0.0002	
Total Selenium (mg/L) Average Quarterly	< 0.02			< 0.02			< 0.02			< 0.02	
Total Selenium (mg/L) Daily Maximum	< 0.02			< 0.02			< 0.02			< 0.02	
Total Silver (mg/L) Average Quarterly	< 0.005			< 0.005			< 0.005			< 0.005	
Total Silver (mg/L) Daily Maximum	< 0.005			< 0.005			< 0.005			< 0.005	
Sulfate (mg/L) Average Quarterly	24.4			15.9			15.6			25.7	
Sulfate (mg/L) Daily Maximum	24.4			15.9			15.6			25.7	
Total Tritium (pCi/L) Average Quarterly	18.0			46.8			117			115	
Total Tritium (pCi/L) Average Quarterly	18.0			46.8			117			115	
1,4-Dioxane (mg/L) Average Quarterly	< 0.050			< 0.05			< 0.05			< 0.05	
1,4-Dioxane (mg/L) Daily Maximum	< 0.050			< 0.05			< 0.05			< 0.05	

**NPDES Permit Fact Sheet
Tullytown Resource Recovery Facility**

NPDES Permit No. PA0244902

Chloride (mg/L) Average Quarterly		14.3			6.2			13.1			136	
Chloride (mg/L) Daily Maximum		14.3			6.2			13.1			136	
Bromide (mg/L) Average Quarterly		< 0.2			< 0.2			< 0.2			< 0.2	
Bromide (mg/L) Daily Maximum		< 0.2			< 0.2			< 0.2			< 0.2	
TOC (mg/L) Average Quarterly		7.8			9.1			9.4			10.4	
TOC (mg/L) Daily Maximum		7.8			9.1			9.4			10.4	

DMR Data for Outfall 009 (from May 1, 2021 to April 30, 2022)

Parameter	APR-22	MAR-22	FEB-22	JAN-22	DEC-21	NOV-21	OCT-21	SEP-21	AUG-21	JUL-21	JUN-21	MAY-21
pH (S.U.) Average Monthly	7.79	7.67	7.69	7.89			8.18	8.09	7.94	7.61	7.57	
pH (S.U.) Daily Maximum	7.79	7.67	7.69	7.89			8.18	8.09	7.94	7.61	7.57	
Color (Pt-Co Units) Average Monthly	75	15	30	10			15	25	50	40	120	
Color (Pt-Co Units) Daily Maximum	75	15	30	10			15	25	50	40	120	
CBOD5 (mg/L) Average Quarterly		2			< 2			2			7	
CBOD5 (mg/L) Daily Maximum		2			< 2			2			7	
COD (mg/L) Average Monthly	20	< 10	13	17			< 10	< 10	< 10	17	86	
COD (mg/L) Daily Maximum	20	< 10	13	17			< 10	< 10	< 10	17	86	
TSS (mg/L) Average Monthly	50	24	24	55			8	6	4	38	24	
TSS (mg/L) Daily Maximum	50	24	24	55			8	6	4	38	24	
Total Dissolved Solids (mg/L) Average Monthly	154	66	154	156			166	82	120	58	66	
Total Dissolved Solids (mg/L) Daily Maximum	154	66	154	156			166	82	120	58	66	
Oil and Grease (mg/L) Average Monthly	< 5	< 6	< 5	< 5			< 5	< 5	< 5	< 5	< 5	

**NPDES Permit Fact Sheet
Tullytown Resource Recovery Facility**

NPDES Permit No. PA0244902

Oil and Grease (mg/L) Daily Maximum	< 5	< 6	< 5	< 5			< 5	< 5	< 5	< 5	< 5	
Nitrate-Nitrite (mg/L) Average Quarterly		0.57			0.06			< 0.05			< 0.05	
Nitrate-Nitrite (mg/L) Daily Maximum		0.57			0.06			< 0.05			< 0.05	
Ammonia (mg/L) Average Monthly	< 0.10	0.14	0.39	0.27			< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Ammonia (mg/L) Daily Maximum	< 0.10	0.14	0.39	0.27			< 0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Total Arsenic (mg/L) Average Quarterly		< 0.02			< 0.02			< 0.02			< 0.02	
Total Arsenic (mg/L) Daily Maximum		< 0.02			< 0.02			< 0.02			< 0.02	
Total Barium (mg/L) Average Quarterly		0.06			0.06			0.03			< 0.01	
Total Barium (mg/L) Daily Maximum		0.06			0.06			0.03			< 0.01	
Total Cadmium (mg/L) Average Quarterly		< 0.002			< 0.002			< 0.002			< 0.002	
Total Cadmium (mg/L) Daily Maximum		< 0.002			< 0.002			< 0.002			< 0.002	
Total Chromium (mg/L) Average Quarterly		< 0.01			< 0.01			< 0.01			< 0.01	
Total Chromium (mg/L) Daily Maximum		< 0.01			< 0.01			< 0.01			< 0.01	
Total Cyanide (mg/L) Average Quarterly		< 0.020			< 0.020			< 0.020			< 0.020	
Total Cyanide (mg/L) Daily Maximum		< 0.020			< 0.020			< 0.020			< 0.020	
Dissolved Iron (mg/L) Average Quarterly		0.17			< 0.05			0.06			0.09	
Dissolved Iron (mg/L) Daily Maximum		0.17			< 0.05			0.06			0.09	
Total Iron (mg/L) Average Quarterly		1.94			0.26			0.63			0.14	
Total Iron (mg/L) Daily Maximum		1.94			0.26			0.63			0.14	
Total Lead (mg/L) Average Quarterly		< 0.02			< 0.02			< 0.02			< 0.02	
Total Lead (mg/L) Daily Maximum		< 0.02			< 0.02			< 0.02			< 0.02	

Dissolved Magnesium (mg/L) Average Quarterly		8.4			10.1			2.6			2.9	
Dissolved Magnesium (mg/L) Daily Maximum		8.4			10.1			2.6			2.9	
Total Magnesium (mg/L) Average Quarterly		9.1			10.5			2.9			2.5	
Total Magnesium (mg/L) Daily Maximum		9.1			10.5			2.9			2.5	
Total Mercury (mg/L) Average Quarterly		< 0.0002			< 0.0002			< 0.0002			< 0.0002	
Total Mercury (mg/L) Daily Maximum		< 0.0002			< 0.0002			< 0.0002			< 0.0002	
Total Selenium (mg/L) Average Quarterly		< 0.02			< 0.02			< 0.02			< 0.02	
Total Selenium (mg/L) Daily Maximum		< 0.02			< 0.02			< 0.02			< 0.02	
Total Silver (mg/L) Average Quarterly		< 0.005			< 0.005			< 0.005			< 0.005	
Total Silver (mg/L) Daily Maximum		< 0.005			< 0.005			< 0.005			< 0.005	
Sulfate (mg/L) Average Quarterly		8.5			6.1			< 2.0			< 2.0	
Sulfate (mg/L) Daily Maximum		8.5			6.1			< 2.0			< 2.0	
Total Tritium (pCi/L) Average Quarterly		144			257			150			67.6	
Total Tritium (pCi/L) Daily Maximum		144			257			150			67.6	
1,4-Dioxane (mg/L) Average Quarterly		< 0.050			< 0.05			< 0.05			< 0.05	
1,4-Dioxane (mg/L) Daily Maximum		< 0.050			< 0.05			< 0.05			< 0.05	
Chloride (mg/L) Average Quarterly		21.2			15.8			< 1.0			2.0	
Chloride (mg/L) Daily Maximum		21.2			15.8			< 1.0			2.0	
Bromide (mg/L) Average Quarterly		< 0.2			< 0.2			< 0.2			< 0.2	
Bromide (mg/L) Daily Maximum		< 0.2			< 0.2			< 0.2			< 0.2	
TOC (mg/L) Average Quarterly		3.9			3.6			5.0			22.2	

TOC (mg/L) Daily Maximum		3.9			3.6			5.0			22.2	
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DMR Data for Outfall 010 (from May 1, 2021 to April 30, 2022)

Parameter	APR-22	MAR-22	FEB-22	JAN-22	DEC-21	NOV-21	OCT-21	SEP-21	AUG-21	JUL-21	JUN-21	MAY-21
pH (S.U.) Average Monthly			7.94					7.96	7.48			
pH (S.U.) Daily Maximum			7.94					7.96	7.48			
Color (Pt-Co Units) Average Monthly			30					50	60			
Color (Pt-Co Units) Daily Maximum			30					50	60			
CBOD5 (mg/L) Average Quarterly		3						5				
CBOD5 (mg/L) Daily Maximum		3						5				
COD (mg/L) Average Monthly			26					49	36			
COD (mg/L) Daily Maximum			26					49	36			
TSS (mg/L) Average Monthly			165					393	454			
TSS (mg/L) Daily Maximum			165					393	454			
Total Dissolved Solids (mg/L) Average Monthly			342					520	206			
Total Dissolved Solids (mg/L) Daily Maximum			342					520	206			
Oil and Grease (mg/L) Average Monthly			< 5					< 5	< 5			
Oil and Grease (mg/L) Daily Maximum			< 5					< 5	< 5			
Nitrate-Nitrite (mg/L) Average Quarterly		7.36						35.9				
Nitrate-Nitrite (mg/L) Daily Maximum		7.36						35.9				
Ammonia (mg/L) Average Monthly			0.20					0.28	< 0.10			
Ammonia (mg/L) Daily Maximum			0.20					0.28	< 0.10			

Total Arsenic (mg/L) Average Quarterly	< 0.02							< 0.02				
Total Arsenic (mg/L) Daily Maximum	< 0.02							< 0.02				
Total Barium (mg/L) Average Quarterly	0.04							0.08				
Total Barium (mg/L) Daily Maximum	0.04							0.08				
Total Cadmium (mg/L) Average Quarterly	< 0.002							< 0.002				
Total Cadmium (mg/L) Daily Maximum	< 0.002							< 0.002				
Total Chromium (mg/L) Average Quarterly	< 0.01							0.02				
Total Chromium (mg/L) Daily Maximum	< 0.01							0.02				
Total Cyanide (mg/L) Average Quarterly	< 0.020							< 0.020				
Total Cyanide (mg/L) Daily Maximum	< 0.020							< 0.020				
Dissolved Iron (mg/L) Average Quarterly	1.59							5.33				
Dissolved Iron (mg/L) Daily Maximum	1.59							5.33				
Total Iron (mg/L) Average Quarterly	7.38							13.2				
Total Iron (mg/L) Daily Maximum	7.38							13.2				
Total Lead (mg/L) Average Quarterly	< 0.02							0.04				
Total Lead (mg/L) Daily Maximum	< 0.02							0.04				
Dissolved Magnesium (mg/L) Average Quarterly	13.7							7.6				
Dissolved Magnesium (mg/L) Daily Maximum	13.7							7.6				
Total Magnesium (mg/L) Average Quarterly	14.0							8.7				
Total Magnesium (mg/L) Daily Maximum	14.0							8.7				

Total Mercury (mg/L) Average Quarterly	< 0.0002						< 0.0002				
Total Mercury (mg/L) Daily Maximum	< 0.0002						< 0.0002				
Total Selenium (mg/L) Average Quarterly	< 0.02						< 0.02				
Total Selenium (mg/L) Daily Maximum	< 0.02						< 0.02				
Total Silver (mg/L) Average Quarterly	< 0.005						< 0.005				
Total Silver (mg/L) Daily Maximum	< 0.005						< 0.005				
Sulfate (mg/L) Average Quarterly	86.7						34.2				
Sulfate (mg/L) Daily Maximum	86.7						34.2				
Total Tritium (pCi/L) Average Quarterly	128						40.5				
Total Tritium (pCi/L) Daily Maximum	128						40.5				
1,4-Dioxane (mg/L) Average Quarterly	< 0.050						< 0.05				
1,4-Dioxane (mg/L) Daily Maximum	< 0.050						< 0.05				
Chloride (mg/L) Average Quarterly	15.0						7.5				
Chloride (mg/L) Daily Maximum	15.0						7.5				
Bromide (mg/L) Average Quarterly	< 0.2						< 0.2				
Bromide (mg/L) Daily Maximum	< 0.2						< 0.2				
TOC (mg/L) Average Quarterly	9.5						12.0				
TOC (mg/L) Daily Maximum	9.5						12.0				

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.

Outfalls 001, 002, 003, 004, 005, 006, 008, 009, and 010 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 Quarterly	Daily Maximum	Instant. Maximum		
pH (S.U.)	XXX	XXX	XXX	Report Avg Mo	Report	XXX	Monthly When Discharging	Grab
Color (Pt-Co Units)	XXX	XXX	XXX	Report Avg Mo	Report	XXX	Monthly When Discharging	Grab
CBOD5	XXX	XXX	XXX	Report	Report	XXX	1/quarter	Grab
COD	XXX	XXX	XXX	Report Avg Mo	Report	XXX	Monthly When Discharging	Grab
TSS	XXX	XXX	XXX	Report Avg Mo	Report	XXX	Monthly When Discharging	Grab
Total Dissolved Solids	XXX	XXX	XXX	Report Avg Mo	Report	XXX	Monthly When Discharging	Grab
Oil and Grease	XXX	XXX	XXX	Report Avg Mo	Report	XXX	Monthly When Discharging	Grab
Nitrate-Nitrite	XXX	XXX	XXX	Report	Report	XXX	1/quarter	Grab
Ammonia	XXX	XXX	XXX	Report Avg Mo	Report	XXX	Monthly When Discharging	Grab
Total Arsenic	XXX	XXX	XXX	Report	Report	XXX	1/quarter	Grab
Total Barium	XXX	XXX	XXX	Report	Report	XXX	1/quarter	Grab
Total Cadmium	XXX	XXX	XXX	Report	Report	XXX	1/quarter	Grab
Total Chromium	XXX	XXX	XXX	Report	Report	XXX	1/quarter	Grab
Total Cyanide	XXX	XXX	XXX	Report	Report	XXX	1/quarter	Grab

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 Quarterly	Daily Maximum	Instant. Maximum		
Dissolved Iron	XXX	XXX	XXX	Report	Report	XXX	1/quarter	Grab
Total Iron	XXX	XXX	XXX	Report	Report	XXX	1/quarter	Grab
Total Lead	XXX	XXX	XXX	Report	Report	XXX	1/quarter	Grab
Dissolved Magnesium	XXX	XXX	XXX	Report	Report	XXX	1/quarter	Grab
Total Magnesium	XXX	XXX	XXX	Report	Report	XXX	1/quarter	Grab
Total Mercury	XXX	XXX	XXX	Report	Report	XXX	1/quarter	Grab
Total Selenium	XXX	XXX	XXX	Report	Report	XXX	1/quarter	Grab
Total Silver	XXX	XXX	XXX	Report	Report	XXX	1/quarter	Grab
Sulfate	XXX	XXX	XXX	Report	Report	XXX	1/quarter	Grab
Total Tritium (pCi/L)	XXX	XXX	XXX	Report	Report	XXX	1/quarter	Grab
1,4-Dioxane	XXX	XXX	XXX	Report	Report	XXX	1/quarter	Grab
Chloride	XXX	XXX	XXX	Report	Report	XXX	1/quarter	Grab
Bromide	XXX	XXX	XXX	Report	Report	XXX	1/quarter	Grab
TOC	XXX	XXX	XXX	Report	Report	XXX	1/quarter	Grab