west virginia department of environmental protection

Division of Water and Waste Management
601 57th Street SE
Charleston, WV 25304
Telephone Number: (304) 926-0495
Fax Number: (304) 926-0496

Austin Caperton, Cabinet Secretary
dep.wv.gov

April 16, 2018

Robert J. Fehrenbacher
The Chemours Company FC, LLC
PO Box 1217
Washington, WV 26181

RE: WV/NPDES Permit Application
No. WV0001279-Wood County

Dear Sir or Madam:

Your forms for WV/NPDES Individual Permit have been found to be complete.

For your information, we have scheduled the public notice period prescribed in Title 47, Series 10, Section 12.1.b of the West Virginia Legislative Rules issued pursuant to Chapter 22, Article 11 commences on the 19th day of April, 2018 in the *Parkersburg News*.

Within twenty (20) days after publication of the public notice, you are required to send to the Office a certificate of publication. This should be sent to:

Director, Division of Water and Waste Management, DEP
Permitting Section
601 57th Street, SE
Charleston, WV 25304-2345
Attention: Lori Devereux

Enclosed are copies of your draft permit, any required fact sheet and the public notice. If you have any questions, please do not hesitate to contact this office at 304-926-0495.

Sincerely,

Lori Devereux
NPDES Team

Enclosures
cc: Environmental Inspector Supervisor, Environmental Inspector

Promoting a healthy environment.

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER AND WASTE MANAGEMENT

PUBLIC NOTICE

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION'S, PUBLIC INFORMATION OFFICE, 601 57TH STREET, CHARLESTON SE, WEST VIRGINIA 25304-2345 TELEPHONE: (304) 926-0440.

APPLICATION FOR A WEST VIRGINIA NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM WATER POLLUTION CONTROL PERMIT

Public Notice No.: L-38-18 **Public Notice Date:** April 19, 2018

Paper: *Parkersburg News*

The following has applied for a WV NPDES Water Pollution Control Permit for this facility or activity:

Appl. No.: WV0001279

Applicant: THE CHEMOURS COMPANY FC, LLC
PO BOX 1217
WASHINGTON, WV 26181

Location: WASHINGTON, WOOD COUNTY

Latitude: 39:16:19 **Longitude:** 81:39:42

Receiving Stream:
OHIO RIVER

Activity:
To operate and maintain disposal systems and best management practices for the direct discharge of non-contact cooling water, storm water, groundwater, and filter backwash wastewater via Outlet 001 into the Ohio River near Milepoint 190.1. Also, to operate and maintain a treatment and disposal system and best management practices for the direct discharge of treated industrial wastes (process wastewater, non-contact cooling water, steam condensate, boiler blowdown, and storm water) via Outlet 002 into the Ohio River near Milepoint 190.2. Also to operate and maintain disposal systems and best management practices for the direct discharge of non-contact cooling water, storm water, and steam condensate wastewater via Outlet 003 into the Ohio River near Milepoint 190.3. Also to operate and maintain a treatment and disposal system and best management practices for the direct discharge of treated industrial wastes (process wastewater, non-contact cooling water, steam condensate, sanitary wastewater, cooling tower blowdown, and storm water) via Outlet 005 into the Ohio River near Milepoint 190.8. Also to operate and maintain a disposal system and best management practices for the direct discharge of non-contact cooling water, storm water, and steam condensate wastewater via Outlet 006 into an unnamed tributary of Page Run of the Ohio River near Milepoint 191. Also to operate and maintain a disposal system and best management practices for the direct discharge of non-contact cooling water and storm water via Outlet 007 into the Ohio River near Milepoint 190.6. Also to operate and maintain disposal systems and best management practices for the direct discharge of pump seal water via Outlet 013 into the Ohio River near Milepoint 190.4 and via Outlet 028 into Page Run of the Ohio River. Also to operate and maintain disposal systems and best management practices for the direct discharge of untreated storm water via Outlets 016, 019, 026, 028, 030-034, and 036 into the Ohio River near Milepoints 190-191. Also to operate and maintain disposal systems and best management practices for the direct discharge of untreated storm water via via Outlet 011 into Coal Hollow of the Ohio River and via Outlets 022, 023 and 025 into Page Run of the Ohio River. Also, to operate and maintain a single intake pipe with five large capacity centrifugal pumps for the withdrawal of water from the Ohio River. Tier 1 protection is provided for uses specified in Title 47, Series 2, Section 6.

Business conducted:
Production of polymer resins; compounded plastics; nylon fibers; formaldehyde; fluorocarbon polymers, monomers, telomers; and calcium fluoride.

Implementation:
Compliance shall be attained through Administrative Order No. 8797.

On the basis of review of the application, the "Water Pollution Control Act (Chapter 22, Article 11-8(a))," and the "West Virginia Legislative Rules," the State of West Virginia will act on the above application.

Any interested person may submit written comments on the draft permit and may request a public hearing by addressing such to the Director of the Division of Water and Waste Management within 30 days of the date of the public notice. Such comments or requests should be addressed to:

Director, Division of Water and Waste Management, DEP
ATTN: Lori Devereux, Permitting Section
601 57th Street SE
Charleston, WV 25304-2345

The public comment period begins April 19, 2018 and ends May 19, 2018.

Comments received within this period will be considered prior to acting on the permit application. Correspondence should include the name, address and the telephone number of the writer and a concise statement of the nature of the issues raised. The Director shall hold a public hearing whenever a finding is made, on the basis of requests, that there is a significant degree of public interest on issues relevant to the Draft Permit(s). Interested persons may contact the public information office to obtain further information.

The application, draft permit and any required fact sheet may be inspected, by appointment, at the Division of Water and Waste Management Public Information Office, at 601 57th Street SE, Charleston, WV 25304-2345, between 8:00 a.m. and 4:00 p.m. on business days. Copies of the documents may be obtained from the Division at a nominal cost.

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER AND WASTE MANAGEMENT
601 57TH STREET SE
CHARLESTON, WV 25304-2345

DRAFT

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
WATER POLLUTION CONTROL PERMIT

NPDES PERMIT NO.: WV0001279
SUBJECT: Industrial Waste

ISSUE DATE:
EFFECTIVE DATE :
EXPIRATION DATE:
SUPERSEDES: Permit No. WV0001279 dated August 04, 2003; Permit No. WV0116581 dated August 26, 2011

LOCATION:	WASHINGTON	Wood	Middle Ohio River 2
	(City)	**(County)**	**(Drainage Basin)**

See the next page for a list of Outlets.

TO WHOM IT MAY CONCERN:

This is to certify that: THE CHEMOURS COMPANY FC, LLC
PO BOX 1217
WASHINGTON, WV 26181

is hereby granted a West Virginia NPDES Water Pollution Control Permit to:
operate and maintain disposal systems and best management practices for the direct discharge of non-contact cooling water, storm water, groundwater, and filter backwash wastewater via Outlet 001 into the Ohio River near Milepoint 190.1.

Also to operate and maintain a treatment and disposal system and best management practices for the direct discharge of treated industrial wastes (process wastewaster, non-contact cooling water, steam condensate, boiler blowdown, and storm water) via Outlet 002 into the Ohio River near Milepoint 190.2.

Also to operate and maintain disposal systems and best management practices for the direct discharge of non-contact cooling water, storm water, and steam condensate wastewater via Outlet 003 into the Ohio River near Milepoint 190.3.

Also to operate and maintain a treatment and disposal system and best management practices for the direct discharge of treated industrial wastes (process wastewater, non-contact cooling water, steam condensate, sanitary wastewater, cooling tower blowdown, and storm water) via Outlet 005 into the Ohio River near Milepoint 190.8.

Also to operate and maintain a disposal system and best management practices for the direct discharge of non-contact cooling water, storm water, and steam condensate wastewater via Outlet 006 into the Ohio River near Milepoint 191.

Also to operate and maintain a disposal system and best management practices for the direct discharge of non-contact cooling water and storm water via Outlet 007 into the Ohio River near Milepoint 190.6.

Also to operate and maintain disposal systems and best management practices for the direct discharge of pump

seal water via Outlet 013 into the Ohio River near Milepoint 190.4 and via Outlet 028 into Page Run of the Ohio River.

Also to operate and maintain disposal systems and best management practices for the direct discharge of untreated storm water via Outlets 016, 019, 026, 028, 030-034, and 036 into the Ohio River near Milepoints 190-191.

Also to operate and maintain disposal systems and best management practices for the direct discharge of untreated storm water via via Outlet 011 into Coal Hollow of the Ohio River and via Outlets 022, 023 and 025 into Page Run of the Ohio River.

Also to operate and maintain a single intake pipe with five large capacity centrifugal pumps for the withdrawal of water from the Ohio River.

This permit is subject to the following terms and conditions :
The information submitted on and with Permit Application Number WV0001279 dated the 20th day of December 2007 and additional information dated the 24th day of June 2008; 6th day of August 2008; 14th day September 2010; 19th day of October 2010; 16th day of June 2011; 1st day of September 2011; 9th day of November 2016; 8th day of January 2017; 22nd and 23rd days of February 2018; and the 12th and 13th days of March 2018 are all hereby made terms and conditions of this Permit with like effect as if all such permit application information were set forth herein and other conditions set forth in Sections A, B, C, D, and Appendix A.

The validity of this permit is contingent upon the payment of the applicable annual permit fee, as required by Chapter 22, Article 11, Section 10 of the Code of West Virginia.

Inspectable Unit	Latitude	Longitude	Receiving Stream	Dist. to Stream Mouth (in Mile)	Milepost
001	39°16'19"	81°39'42"	OHIO RV	N/A	190.1
002	39°16'20"	81°40'00"	OHIO RV	N/A	190.2
003	39°16'20"	81°40'01"	OHIO RV	N/A	190.3
005	39°16'18"	81°40'30"	OHIO RV	N/A	190.8
006	39°15'58"	81°40'43"	Unnamed Tributary Of OHIO RV	N/A	191
007	39°16'19"	81°40'16"	OHIO RV	N/A	190.6
011	39°16'13"	81°39'21"	COAL HL	N/A	N/A
013	39°16'18"	81°40'10"	OHIO RV	N/A	190.4
016	39°16'15"	81°40'31"	OHIO RV	N/A	190.75
019	39°16'13"	81°40'34"	OHIO RV	N/A	190.8
022	39°15'52"	81°40'24"	Unnamed Tributary Of OHIO RV	N/A	N/A
023	39°15'50"	81°40'35"	Unnamed Tributary Of OHIO RV	N/A	N/A
025	39°15'53"	81°40'29"	Unnamed Tributary Of OHIO RV	N/A	N/A
026	39°16'07"	81°40'39"	OHIO RV	N/A	190.9
028	39°15'52"	81°40'33"	Unnamed Tributary Of OHIO RV	N/A	N/A
030	39°16'21"	81°39'59"	OHIO RV	N/A	190.2
031	39°16'20"	81°40'07"	OHIO RV	N/A	190.3
032	39°16'20"	81°40'12"	OHIO RV	N/A	190.3
033	39°16'19"	81°40'17"	OHIO RV	N/A	190.4
034	39°16'18"	81°40'23"	OHIO RV	N/A	190.6
036	39°16'15"	81°40'34"	OHIO RV	N/A	190.8
102	39°16'19"	81°40'05"	N/A	N/A	N/A
103	39°16'19"	81°40'05"	N/A	N/A	N/A
105	39°16'18"	81°40'30"	N/A	N/A	N/A
115	39°16'15"	81°40'35"	N/A	N/A	N/A
125	39°15'58"	81°40'43"	N/A	N/A	N/A
202	39°16'19"	81°40'05"	N/A	N/A	N/A
205	39°16'18"	81°40'30"	N/A	N/A	N/A
305	39°16'18"	81°40'30"	N/A	N/A	N/A

Inspectable Unit	Latitude	Longitude	Receiving Stream	Dist. to Stream Mouth (in Mile)	Milepost
405	39°16'18"	81°40'30"	N/A	N/A	N/A
505	39°16'15"	81°40'35"	N/A	N/A	N/A
605	39°15'58"	81°40'43"	N/A	N/A	N/A

ED_005478_00010372-00007

A.001 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 001 (Cooling Water, Storm Water Runoff, Other)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units	Other Units			Units	Measurement Frequency	Sample Type
50050 - (Flow,in Conduit or thru plant) (Year Round) (ML-1) (RF-A) Final (Remaining duration)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mgd	1/month	measured
00530 - (Total Suspended Solids) (Year Round) (ML-1) (RF-A)	Rpt Only Avg. Monthly	Rpt Only Max. Daily	Lbs/Day	N/A	34 Avg. Monthly	59 Max. Daily	mg/l	1/month	24 hr Composite
00400 - (pH) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	6 Inst. Min.	N/A	9 Inst. Max.	S.U.	1/month	Grab
50060 - (Chlorine, Total Residual) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	0.028 Avg. Monthly	0.057 Max. Daily	mg/l	1/month	Grab
01114 - (Lead, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
01094 - (Zinc, Total Recoverable) (Year Round) (ML-1) (RF-A)	Rpt Only Avg. Monthly	Rpt Only Max. Daily	Lbs/Day	N/A	0.146 Avg. Monthly	0.371 Max. Daily	mg/l	1/month	24 hr Composite
71900 - (Mercury, Total (as Hg)) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	ug/l	1/quarter	Grab
01104 - (Aluminum, Total Recoverable) (Year Round) (ML-1) (RF-B)	Rpt Only Avg. Monthly	Rpt Only Max. Daily	Lbs/Day	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 001 - Monitoring point west of Building 27.

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

ED_005478_00010372-00008

A.001 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 001 (Cooling Water, Storm Water Runoff, Other)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units	Other Units			Units	Measurement Frequency	Sample Type
00980 - (Iron, Total Recoverable) (Year Round) (ML-1) (RF-B)	Rpt Only Avg. Monthly	Rpt Only Max. Daily	Lbs/Day	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
61425 - (Acute Tox - Ceriodaphnia Dub (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	TUa	1/6 months	24 hr Composite
61427 - (Acute Toxicity - Pimephales) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	TUa	1/6 months	24 hr Composite
00981 - (Selenium, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
00978 - (Arsenic, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
01097 - (Antimony, Total (as Sb)) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
32730 - (Phenolics, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
00011 - (Temperature, F) (Year Round) (ML-7) (RF-A)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	DEG F	1/month	Insitu

Upstream / Intake Temperature

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 001 - Monitoring point west of Building 27.

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

ED_005478_00010372-00009

A.001 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 001 (Cooling Water, Storm Water Runoff, Other)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
00011 - (Temperature, F) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	DEG.F	1/month	Insitu
			Effluent Temperature						
00680 - (Total Organic Carbon) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	8 Avg. Monthly	13 Max. Daily	mg/l	1/month	24 hr Composite
01059 - (Thallium, Total (as Tl)) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
51065 - (PFOA) (Year Round) (ML-1) (RF-A) Interim (Initial 36 months)	Rpt Only Avg. Monthly	Rpt Only Max. Daily	Lbs/Day	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	ug/l	1/month	24 hr Composite
51065 - (PFOA) (Year Round) (ML-1) (RF-A) Final (Remaining duration)	Rpt Only Avg. Monthly	Rpt Only Max. Daily	Lbs/Day	N/A	2 Avg. Monthly	7.3 Max. Daily	ug/l	1/month	24 hr Composite
51715 - (HFPO Dimer Acid) (Year Round) (ML-1) (RF-A) Interim (Initial 36 months)	Rpt Only Avg. Monthly	Rpt Only Max. Daily	Lbs/Day	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	ug/l	1/month	24 hr Composite
51715 - (HFPO Dimer Acid) (Year Round) (ML-1) (RF-A) Final (Remaining duration)	Rpt Only Avg. Monthly	Rpt Only Max. Daily	Lbs/Day	N/A	1.4 Avg. Monthly	2 Max. Daily	ug/l	1/month	24 hr Composite

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 001 - Monitoring point west of Building 27.

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

ED_005478_00010372-00010

A.002 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 002 (Cooling Water, Storm Water Runoff, Process Water, Other)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
50050 - (Flow,in Conduit or thru plant) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mgd	1/week	measured
00310 - (BOD, 5-Day 20 Deg.C) (Year Round) (ML-1) (RF-A)	364 Avg. Monthly	970 Max. Daily	Lbs/Day	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/week	24 hr Composite
00530 - (Total Suspended Solids) (Year Round) (ML-2) (RF-A)	612 Avg. Monthly	1988 Max. Daily	Lbs/Day	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/week	Calculated
Calculated Net TSS Value, refer to Section C.32									
00530 - (Total Suspended Solids) (Year Round) (ML-1) (RF-A)	Rpt Only Avg. Monthly	Rpt Only Max. Daily	Lbs/Day	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/week	24 hr Composite
Effluent Gross TSS Value.									
74055 - (Coliform, Fecal) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	200 Mon. Geo. Mean	400 Max. Daily	Cnts/100ml	1/month	Grab
00400 - (pH) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	6 Inst. Min.	N/A	9 Inst. Max.	S.U.	Continuous	Recorded
00610 - (Ammonia Nitrogen) (Year Round) (ML-1) (RF-A) Interim (Initial 36 months)	Rpt Only Avg. Monthly	Rpt Only Max. Daily	Lbs/Day	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/week	24 hr Composite
00610 - (Ammonia Nitrogen) (Year Round) (ML-1) (RF-A) Final (Remaining duration)	Rpt Only Avg. Monthly	Rpt Only Max. Daily	Lbs/Day	N/A	3.2 Avg. Monthly	5.4 Max. Daily	mg/l	1/week	24 hr Composite

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 002 - immediately prior to discharge.

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS 1 - 12.

ED_005478_00010372-00011

A.002 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 002 (Cooling Water, Storm Water Runoff, Process Water, Other)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units	Other Units			Units	Measurement Frequency	Sample Type
00620 - (Nitrogen Nitrate) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
00600 - (Nitrogen, Total (as N)) (Year Round) (ML-1) (RF-D)	Rpt Only Avg. Monthly	Rpt Only Max. Daily	Lbs/Day	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/year	24 hr Composite
00665 - (Phosphorus, Total) (Year Round) (ML-1) (RF-D)	Rpt Only Avg. Monthly	Rpt Only Max. Daily	Lbs/Day	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/year	24 hr Composite
50060 - (Chlorine, Total Residual) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	0.028 Avg. Monthly	0.057 Max. Daily	mg/l	1/week	Grab
01119 - (Copper, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
01094 - (Zinc, Total Recoverable) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/month	24 hr Composite
71900 - (Mercury, Total (as Hg)) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	ug/l	1/quarter	Grab
01104 - (Aluminum, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 002 - immediately prior to discharge.

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

ED_005478_00010372-00012

A.002 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 002 (Cooling Water, Storm Water Runoff, Process Water, Other)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units	Other Units			Units	Measurement Frequency	Sample Type
00980 - (Iron, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg Monthly	Rpt Only Max Daily	mg/l	1/quarter	24 hr Composite
00940 - (Chloride (as Cl)) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
61425 - (Acute Tox - Ceriodaphnia Dub (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg Monthly	Rpt Only Max Daily	TUa	1/quarter	24 hr Composite
61427 - (Acute Toxicity - Pimephales) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	Rpt Only Max. Daily	TUa	1/quarter	24 hr Composite
34423 - (Methylene Chloride) (Year Round) (ML-1) (RF-A)	0.55 Avg Monthly	2.6 Max Daily	Lbs/Day	N/A	Rpt Only Avg Monthly	Rpt Only Max Daily	ug/l	1/month	Grab
82581 - (pH, No. of Excursions >60 mi (Year Round) (ML-1) (RF-A)	N/A	zero Max. Daily	Ocur/Mon	N/A	N/A	N/A	N/A	Continuous	Continuous
82582 - (pH Excursions Total Time) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	446 Monthly Total	Minutes	Continuous	Continuous
39180 - (Trichloroethylene) (Year Round) (ML-1) (RF-B)	0.4 Avg. Monthly	1.1 Max. Daily	Lbs/Day	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	ug/l	1/quarter	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 002 - immediately prior to discharge.

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

ED_005478_00010372-00013

A.002 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 002 (Cooling Water, Storm Water Runoff, Process Water, Other)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units	Other Units			Units	Measurement Frequency	Sample Type
34418 - (Methyl Chloride) (Year Round) (ML-1) (RF-A)	1.7 Avg. Monthly	4.5 Max. Daily	Lbs/Day	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	ug/l	1/month	Grab
01051 - (Lead, Total (as Pb)) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
79531 - (3,4 Benzofluoranthene) (Year Round) (ML-1) (RF-B)	0.31 Avg. Monthly	0.74 Max. Daily	Lbs/Day	N/A	0.0038 Avg. Monthly	0.0055 Max. Daily	ug/l	1/quarter	24 hr Composite
00981 - (Selenium, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
00978 - (Arsenic, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
34010 - (Toluene) (Year Round) (ML-1) (RF-A)	0.43 Avg. Monthly	1.1 Max. Daily	Lbs/Day	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/month	Grab
01097 - (Antimony, Total (as Sb)) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
32730 - (Phenolics, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	ug/l	1/quarter	24 hr Composite

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 002 - immediately prior to discharge.

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

ED_005478_00010372-00014

A.002 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 002 (Cooling Water, Storm Water Runoff, Process Water, Other)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units	Other Units			Units	Measurement Frequency	Sample Type
00680 - (Total Organic Carbon) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	5.9 Avg. Monthly	7.9 Max. Daily	mg/l	1/month	24 hr Composite
32106 - (Chloroform) (Year Round) (ML-1) (RF-A)	1.7 Avg. Monthly	5 Max. Daily	Lbs/Day	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	ug/l	1/month	Grab
81020 - (Sulfate) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/month	24 hr Composite
01059 - (Thallium, Total (as Tl)) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
51065 - (PFOA) (Year Round) (ML-1) (RF-A) Interim (Initial 36 months)	Rpt Only Avg. Monthly	Rpt Only Max. Daily	Lbs/Day	N/A	18 Avg. Monthly	18 Max. Daily	ug/l	1/week	24 hr Composite
51065 - (PFOA) (Year Round) (ML-1) (RF-A) Final (Remaining duration)	Rpt Only Avg. Monthly	Rpt Only Max. Daily	Lbs/Day	N/A	2 Avg. Monthly	3.3 Max. Daily	ug/l	1/week	24 hr Composite
51715 - (HFPO Dimer Acid) (Year Round) (ML-1) (RF-A) Interim (Initial 36 months)	Rpt Only Avg. Monthly	Rpt Only Max. Daily	Lbs/Day	N/A	9 Avg. Monthly	32 Max. Daily	ug/l	1/week	24 hr Composite
51715 - (HFPO Dimer Acid) (Year Round) (ML-1) (RF-A) Final (Remaining duration)	Rpt Only Avg. Monthly	Rpt Only Max. Daily	Lbs/Day	N/A	1.4 Avg. Monthly	2.3 Max. Daily	ug/l	1/week	24 hr Composite

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 002 - immediately prior to discharge.

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

ED_005478_00010372-00015

A.003 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 003 (Cooling Water, Storm Water Runoff, Other)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
50050 - (Flow,in Conduit or thru plant) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mgd	1/month	measured
00530 - (Total Suspended Solids) (Year Round) (ML-1) (RF-A)	Rpt Only Avg. Monthly	Rpt Only Max. Daily	Lbs/Day	N/A	267 Avg. Monthly	382 Max. Daily	mg/l	1/month	24 hr Composite
00400 - (pH) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	6 Inst. Min	N/A	9 Inst. Max	S.U.	1/month	Grab
00610 - (Ammonia Nitrogen) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
50060 - (Chlorine, Total Residual) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	0.028 Avg. Monthly	0.057 Max. Daily	mg/l	1/month	Grab
01119 - (Copper, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
01114 - (Lead, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
71900 - (Mercury, Total (as Hg)) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	ug/l	1/quarter	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 003 - Monitoring point west of Outlet 002 flume.

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

ED_005478_00010372-00016

A.003 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 003 (Cooling Water, Storm Water Runoff, Other)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
01104 - (Aluminum, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
00980 - (Iron, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
61425 - (Acute Tox - Cenodaphnia Dub (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	TUa	1/6 months	24 hr Composite
61427 - (Acute Toxicity - Pimephales) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	TUa	1/6 months	24 hr Composite
00981 - (Selenium, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
00978 - (Arsenic, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
01097 - (Antimony, Total (as Sb)) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
32730 - (Phenolics, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 003 - Monitoring point west of Outlet 002 flume.

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS i - 12.

ED_005478_00010372-00017

A.003 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 003 (Cooling Water, Storm Water Runoff, Other)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
00011 - (Temperature, F) (Year Round) (ML-7) (RF-A)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	DEG.F	1/month	Insitu
Upstream / Intake Temperature									
00011 - (Temperature, F) (January 1-31) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	DEG.F	1/month	Insitu
Effluent Temperature									
00011 - (Temperature, F) (February 1-28) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	DEG.F	1/month	Insitu
Effluent Temperature									
00011 - (Temperature, F) (March 1-31) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	DEG.F	1/month	Insitu
Effluent Temperature									
00011 - (Temperature, F) (April 1-30) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	DEG.F	1/month	Insitu
Effluent Temperature									
00011 - (Temperature, F) (May 1-31) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	78 Avg. Monthly	90 Max. Daily	DEG.F	1/month	Insitu
Effluent Temperature									
00011 - (Temperature, F) (June 1-30) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	DEG.F	1/month	Insitu
Effluent Temperature									
00011 - (Temperature, F) (July 1-31) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	101 Avg. Monthly	110 Max. Daily	DEG.F	1/month	Insitu
Effluent Temperature									

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 003 - Monitoring point west of Outlet 002 flume.

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

ED_005478_00010372-00018

A.003 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 003 (Cooling Water, Storm Water Runoff, Other)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
00011 - (Temperature, F) (August 1-31) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	98 Avg. Monthly	110 Max. Daily	DEG.F	1/month	Insitu
			Effluent Temperature						
00011 - (Temperature, F) (September 1-30) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	DEG.F	1/month	Insitu
			Effluent Temperature						
00011 - (Temperature, F) (October 1-31) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	81 Avg. Monthly	93 Max. Daily	DEG F	1/month	Insitu
			Effluent Temperature						
00011 - (Temperature, F) (November 1-30) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	DEG.F	1/month	Insitu
			Effluent Temperature						
00011 - (Temperature, F) (December 1-31) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	DEG.F	1/month	Insitu
			Effluent Temperature						
00680 - (Total Organic Carbon) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	5.7 Avg. Monthly	8 Max. Daily	mg/l	1/month	24 hr Composite
01059 - (Thallium, Total (as Tl)) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
51065 - (PFOA) (Year Round) (ML-1) (RF-A) Interim (Initial 36 months)	Rpt Only Avg. Monthly	Rpt Only Max. Daily	Lbs/Day	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	ug/l	1/month	24 hr Composite

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 003 - Monitoring point west of Outlet 002 flume.

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

ED_005478_00010372-00019

A.003 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 003 (Cooling Water, Storm Water Runoff, Other)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units	Other Units			Units	Measurement Frequency	Sample Type
51065 - (PFOA)	Rpt Only	Rpt Only	Lbs/Day	N/A	2	2.8	ug/l	1/month	24 hr Composite
(Year Round) (ML-1) (RF-A)	Avg. Monthly	Max. Daily			Avg. Monthly	Max. Daily			
Final (Remaining duration)									
51715 - (HFPO Dimer Acid)	Rpt Only	Rpt Only	Lbs/Day	N/A	Rpt Only	Rpt Only	ug/l	1/month	24 hr Composite
(Year Round) (ML-1) (RF-A)	Avg. Monthly	Max. Daily			Avg. Monthly	Max. Daily			

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 003 - Monitoring point west of Outlet 002 flume.

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS i - 12.

ED_005478_00010372-00020

A.005 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 005 (Cooling Water, Storm Water Runoff, Process Water, Other)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units	Other Units			Units	Measurement Frequency	Sample Type
50050 - (Flow,in Conduit or thru plant) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mgd	1/week	measured
74055 - (Coliform, Fecal) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Mon. Geo. Mean	Rpt Only Max. Daily	Cnts/100ml	1/quarter	Grab
00400 - (pH) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	6 Inst. Min.	N/A	9 Inst. Max	S.U.	1/daily	Grab
00610 - (Ammonia Nitrogen) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
00620 - (Nitrogen Nitrate) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
00600 - (Nitrogen, Total (as N)) (Year Round) (ML-1) (RF-D)	Rpt Only Avg. Monthly	Rpt Only Max. Daily	Lbs/Day	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/year	24 hr Composite
00665 - (Phosphorus, Total) (Year Round) (ML-1) (RF-D)	Rpt Only Avg. Monthly	Rpt Only Max. Daily	Lbs/Day	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/year	24 hr Composite
50060 - (Chlorine, Total Residual) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	0.028 Avg. Monthly	0.057 Max. Daily	mg/l	1/week	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 005 - Monitoring point northwest of Building 123.

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS 1 - 12.

ED_005478_00010372-00021

A.005 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 005 (Cooling Water, Storm Water Runoff, Process Water, Other)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
01119 - (Copper, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
01114 - (Lead, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
01094 - (Zinc, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
71900 - (Mercury, Total (as Hg)) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	ug/l	1/quarter	Grab
01104 - (Aluminum, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
00980 - (Iron, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
61426 - (Chronic Tox-Ceriodaphnia Du (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	TUc	1/quarter	24 hr Composite
61428 - (Chronic Toxicity - Pimephales (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	TUc	1/quarter	24 hr Composite

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 005 - Monitoring point northwest of Building 123.

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

ED_005478_00010372-00022

A.005 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 005 (Cooling Water, Storm Water Runoff, Process Water, Other)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units	Other Units			Units	Measurement Frequency	Sample Type
34423 - (Methylene Chloride) (Year Round) (ML-1) (RF-B)	2.3 Avg. Monthly	7.8 Max. Daily	Lbs/Day	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	ug/l	1/quarter	Grab
39180 - (Trichloroethylene) (Year Round) (ML-1) (RF-B)	1.4 Avg. Monthly	3.7 Max. Daily	Lbs/Day	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	ug/l	1/quarter	Grab
34418 - (Methyl Chloride) (Year Round) (ML-1) (RF-B)	5.9 Avg. Monthly	14.6 Max. Daily	Lbs/Day	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	ug/l	1/quarter	Grab
79531 - (3,4 Benzofluoranthene) (Year Round) (ML-1) (RF-B)	1.3 Avg. Monthly	3.3 Max. Daily	Lbs/Day	N/A	0.0038 Avg. Monthly	0.0055 Max. Daily	ug/l	1/quarter	24 hr Composite
00981 - (Selenium, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
00978 - (Arsenic, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
34010 - (Toluene) (Year Round) (ML-1) (RF-B)	1.6 Avg. Monthly	4.6 Max. Daily	Lbs/Day	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	ug/l	1/quarter	Grab
01097 - (Antimony, Total (as Sb)) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 005 - Monitoring point northwest of Building 123.

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

ED_005478_00010372-00023

A.005 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 005 (Cooling Water, Storm Water Runoff, Process Water, Other)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
32730 - (Phenolics, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
00011 - (Temperature, F) (Year Round) (ML-7) (RF-A)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	DEG.F	1/month	Insitu
Upstream / Intake Temperature									
00011 - (Temperature, F) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	DEG.F	1/month	Insitu
Effluent Temperature									
00680 - (Total Organic Carbon) (Year Round) (ML-1) (RF-A)	Rpt Only Avg. Monthly	Rpt Only Max. Daily	Lbs/Day	N/A	6.5 Avg. Monthly	9.1 Max. Daily	mg/l	1/month	24 hr Composite
32106 - (Chloroform) (Year Round) (ML-1) (RF-A)	4 Avg. Monthly	11.3 Max. Daily	Lbs/Day	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	ug/l	1/month	Grab
01059 - (Thallium, Total (as Tl)) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
51065 - (PFOA) (Year Round) (ML-1) (RF-A) Interim (Initial 36 months)	Rpt Only Avg. Monthly	Rpt Only Max. Daily	Lbs/Day	N/A	2 Avg. Monthly	2 Max. Daily	ug/l	1/week	24 hr Composite
51065 - (PFOA) (Year Round) (ML-1) (RF-A) Final (Remaining duration)	Rpt Only Avg. Monthly	Rpt Only Max. Daily	Lbs/Day	N/A	0.3 Avg. Monthly	0.7 Max. Daily	ug/l	1/week	24 hr Composite

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 005 - Monitoring point northwest of Building 123.

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

ED_005478_00010372-00024

A.005 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 005 (Cooling Water, Storm Water Runoff, Process Water, Other)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
51715 - (HFPO Dimer Acid)	Rpt Only	Rpt Only	Lbs/Day	N/A	15	43	ug/l	1/week	24 hr Composite
(Year Round) (ML-1) (RF-A)	Avg. Monthly	Max. Daily			Avg. Monthly	Max. Daily			
Interim (Initial 36 months)									
51715 - (HFPO Dimer Acid)	Rpt Only	Rpt Only	Lbs/Day	N/A	1.1	2.3	ug/l	1/week	24 hr Composite
(Year Round) (ML-1) (RF-A)	Avg. Monthly	Max. Daily			Avg. Monthly	Max. Daily			
Final (Remaining duration)									

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 005 - Monitoring point northwest of Building 123.

This discharge shall comply with Appendix A - ¦ MANAGEMENT CONDITIONS I - 12.

ED_005478_00010372-00025

A.006 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 006 (Cooling Water, Storm Water Runoff, Other)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units	Other Units			Units	Measurement Frequency	Sample Type
50050 - (Flow,in Conduit or thru plant) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	N/A	Rpt Only Max. Daily	mgd	1/month	Estimated
00530 - (Total Suspended Solids) (Year Round) (ML-1) (RF-A)	Rpt Only Avg. Monthly	Rpt Only Max. Daily	Lbs/Day	N/A	118 Avg. Monthly	189 Max. Daily	mg/l	1/month	24 hr Composite
00400 - (pH) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	6 Inst. Min	N/A	9 Inst. Max	S.U.	1/month	Grab
50060 - (Chlorine, Total Residual) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	0.028 Avg. Monthly	0.057 Max. Daily	mg/l	1/month	Grab
01119 - (Copper, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
01114 - (Lead, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
01094 - (Zinc, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
71900 - (Mercury, Total (as Hg)) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	ug/l	1/quarter	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 006 - Earthen ditch at Carbon steel weir south of Building 293.

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

ED_005478_00010372-00026

A.006 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 006 (Cooling Water, Storm Water Runoff, Other)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
00981 - (Selenium, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
00978 - (Arsenic, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
01097 - (Antimony, Total (as Sb)) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
32730 - (Phenolics, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
00011 - (Temperature, F) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	DEG.F	1/month	Insitu
Effluent Temperature									
00011 - (Temperature, F) (Year Round) (ML-7) (RF-A)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	DEG.F	1/month	Insitu
Upstream / Intake Temperature									
00680 - (Total Organic Carbon) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
81020 - (Sulfate) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 006 - Earthen ditch at Carbon steel weir south of Building 293.

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

ED_005478_00010372-00027

A.006 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 006 (Cooling Water, Storm Water Runoff, Other)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
01059 - (Thallium, Total (as Tl)) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
51065 - (PFOA) (Year Round) (ML-1) (RF-A)	Rpt Only Avg. Monthly	Rpt Only Max. Daily	Lbs/Day	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	ug/l	1/month	24 hr Composite
51715 - (HFPO Dimer Acid) (Year Round) (ML-1) (RF-A) Interim (Initial 36 months)	Rpt Only Avg. Monthly	Rpt Only Max. Daily	Lbs/Day	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	ug/l	1/month	24 hr Composite
51715 - (HFPO Dimer Acid) (Year Round) (ML-1) (RF-A) Final (Remaining duration)	Rpt Only Avg. Monthly	Rpt Only Max. Daily	Lbs/Day	N/A	0.014 Avg. Monthly	0.0204 Max. Daily	ug/l	1/month	24 hr Composite

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 006 - Earthen ditch at Carbon steel weir south of Building 293.

This discharge shall comply with Appendix A - ‖ MANAGEMENT CONDITIONS I - 12.

ED_005478_00010372-00028

A.007 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 007 (Cooling Water, Storm Water Runoff)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
50050 - (Flow,in Conduit or thru plant) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mgd	1/month	Estimated
00530 - (Total Suspended Solids) (Year Round) (ML-1) (RF-A)	Rpt Only Avg. Monthly	Rpt Only Max. Daily	Lbs/Day	N/A	165 Avg. Monthly	256 Max. Daily	mg/l	1/month	24 hr Composite
74055 - (Coliform, Fecal) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Mon. Geo. Mean	Rpt Only Max. Daily	Cnts/100ml	1/quarter	Grab
00400 - (pH) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	6 Inst. Min.	N/A	9 Max. Daily	S.U.	1/month	Grab
00610 - (Ammonia Nitrogen) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
50060 - (Chlorine, Total Residual) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	0.028 Avg. Monthly	0.057 Max. Daily	mg/l	1/month	Grab
01114 - (Lead, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
01094 - (Zinc, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 007 - 18" diameter galvanized steel pipe.

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS § - 12.

ED_005478_00010372-00029

A.007 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 007 (Cooling Water, Storm Water Runoff)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
71900 - (Mercury, Total (as Hg)) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	ug/l	1/quarter	Grab
01104 - (Aluminum, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
00980 - (Iron, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
00981 - (Selenium, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
00978 - (Arsenic, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
01097 - (Antimony, Total (as Sb)) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
38677 - (Bromomethane) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
32104 - (Bromoform) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 007 - 18" diameter galvanized steel pipe.

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

ED_005478_00010372-00030

A.007 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 007 (Cooling Water, Storm Water Runoff)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
32730 - (Phenolics, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
00011 - (Temperature, F) (Year Round) (ML-7) (RF-A)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	DEG.F	1/month	Insitu
			Upstream / Intake Temperature						
00011 - (Temperature, F) (January 1-31) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	DEG.F	1/month	Insitu
			Effluent Temperature						
00011 - (Temperature, F) (February 1-28) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	DEG.F	1/month	Insitu
			Effluent Temperature						
00011 - (Temperature, F) (March 1-31) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	DEG.F	1/month	Insitu
			Effluent Temperature						
00011 - (Temperature, F) (April 1-30) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	DEG.F	1/month	Insitu
			Effluent Temperature						
00011 - (Temperature, F) (May 1-31) (ML-1) (RF-A) Interim (Initial 36 months)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	DEG.F	1/month	Insitu
			Effluent Temperature						
00011 - (Temperature, F) (May 1-31) (ML-1) (RF-A) Final (Remaining duration)	N/A	N/A	N/A	N/A	78 Avg. Monthly	90 Max. Daily	DEG.F	1/month	Insitu
			Effluent Temperature						

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 007 - 18" diameter galvanized steel pipe.

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

ED_005478_00010372-00031

A.007 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 007 (Cooling Water, Storm Water Runoff)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
00011 - (Temperature, F) (June 1-30) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	97 Avg Monthly	110 Max Daily	DEG.F	1/month	Insitu
Effluent Temperature									
00011 - (Temperature, F) (July 1-31) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	101 Avg Monthly	110 Max. Daily	DEG.F	1/month	Insitu
Effluent Temperature									
00011 - (Temperature, F) (August 1-31) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	98 Avg Monthly	110 Max Daily	DEG.F	1/month	Insitu
Effluent Temperature									
00011 - (Temperature, F) (September 1-30) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	94 Avg. Monthly	109 Max. Daily	DEG.F	1/month	Insitu
Effluent Temperature									
00011 - (Temperature, F) (October 1-31) (ML-1) (RF-A) Interim (Initial 36 months)	N/A	N/A	N/A	N/A	Rpt Only Avg Monthly	Rpt Only Max Daily	DEG.F	1/month	Insitu
Effluent Temperature									
00011 - (Temperature, F) (October 1-31) (ML-1) (RF-A) Final (Remaining duration)	N/A	N/A	N/A	N/A	81 Avg. Monthly	93 Max. Daily	DEG.F	1/month	Insitu
Effluent Temperature									
00011 - (Temperature, F) (November 1-30) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	Rpt Only Avg Monthly	Rpt Only Max Daily	DEG.F	1/month	Insitu
Effluent Temperature									
00011 - (Temperature, F) (December 1-31) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	DEG.F	1/month	Insitu
Effluent Temperature									

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 007 - 18" diameter galvanized steel pipe.

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

ED_005478_00010372-00032

A.007 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 007 (Cooling Water, Storm Water Runoff)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
00680 - (Total Organic Carbon) (Year Round) (ML-1) (RF-A)	N/A	N/A	N/A	N/A	5.2 Avg. Monthly	6.9 Max. Daily	mg/l	1/month	24 hr Composite
81020 - (Sulfate) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
01059 - (Thallium, Total (as Tl)) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	24 hr Composite
51065 - (PFOA) (Year Round) (ML-1) (RF-A)	Rpt Only Avg. Monthly	Rpt Only Max. Daily	Lbs/Day	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/month	24 hr Composite
51715 - (HFPO Dimer Acid) (Year Round) (ML-1) (RF-A)	Rpt Only Avg. Monthly	Rpt Only Max. Daily	Lbs/Day	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/month	24 hr Composite

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 007 - 18" diameter galvanized steel pipe.

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS i - 12.

ED_005478_00010372-00033

A.011 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 011 (Storm Water Runoff)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
50050 - (Flow,in Conduit or thru plant) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mgd	1/quarter	Estimated
00530 - (Total Suspended Solids) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
00400 - (pH) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/quarter	Grab
00610 - (Ammonia Nitrogen) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
01104 - (Aluminum, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
00980 - (Iron, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
81017 - (Chem. Oxygen Demand) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
51065 - (PFOA) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	ug/l	1/quarter	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 011 - 2' wide earthen ditch.

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

ED_005478_00010372-00034

A.011 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 011 (Storm Water Runoff)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
51715 - (HFPO Dimer Acid)	N/A	N/A	N/A	N/A	Rpt Only	Rpt Only	ug/l	1/quarter	Grab
(Year Round) (ML-1) (RF-B)					Avg. Monthly	Max. Daily			

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 011 - 2' wide earthen ditch.

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS 1 - 12.

ED_005478_00010372-00035

A.013 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 013 (Other)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
50050 - (Flow,In Conduit or thru plant) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg Monthly	Rpt Only Max Daily	mgd	1/6 months	Estimated
00400 - (pH) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	6 Inst. Min.	N/A	9 Inst. Max.	S.U.	1/6 months	Grab
00680 - (Total Organic Carbon) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg Monthly	Rpt Only Max Daily	mg/l	1/6 months	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 013 - Seal water from process water pumps.

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS 1 - 12.

ED_005478_00010372-00036

A.016 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 016 (Storm Water Runoff)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
50050 - (Flow,in Conduit or thru plant) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mgd	1/quarter	Estimated
00530 - (Total Suspended Solids) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
00400 - (pH) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/6 months	Grab
00610 - (Ammonia Nitrogen) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01104 - (Aluminum, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
00980 - (Iron, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
81017 - (Chem. Oxygen Demand) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
51065 - (PFOA) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	ug/l	1/quarter	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 016

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

ED_005478_00010372-00037

A.016 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 016 (Storm Water Runoff)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
51715 - (HFPO Dimer Acid)	N/A	N/A	N/A	N/A	Rpt Only	Rpt Only	ug/l	1/quarter	Grab
(Year Round) (ML-1) (RF-B)					Avg. Monthly	Max. Daily			

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 016

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

ED_005478_00010372-00038

A.019 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 019 (Storm Water Runoff)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
50050 - (Flow,in Conduit or thru plant) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mgd	1/quarter	Estimated
00530 - (Total Suspended Solids) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
00400 - (pH) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	Rpt Only Inst. Min	N/A	Rpt Only Inst. Max	S.U.	1/6 months	Grab
00610 - (Ammonia Nitrogen) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01104 - (Aluminum, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
00980 - (Iron, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
81017 - (Chem. Oxygen Demand) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
51065 - (PFOA) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	ug/l	1/quarter	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 019

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

ED_005478_00010372-00039

A.019 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 019 (Storm Water Runoff)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
51715 - (HFPO Dimer Acid)	N/A	N/A	N/A	N/A	Rpt Only	Rpt Only	ug/l	1/quarter	Grab
(Year Round) (ML-1) (RF-B)					Avg Monthly	Max Daily			

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 019

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS i - 12.

ED_005478_00010372-00040

A.022 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 022 (Storm Water Runoff)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
50050 - (Flow,in Conduit or thru plant) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mgd	1/quarter	Estimated
00530 - (Total Suspended Solids) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
00400 - (pH) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max	S.U.	1/6 months	Grab
00610 - (Ammonia Nitrogen) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01104 - (Aluminum, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
00980 - (Iron, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
81017 - (Chem. Oxygen Demand) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
51065 - (PFOA) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	ug/l	1/quarter	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 022

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS i - 12.

ED_005478_00010372-00041

A.022 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 022 (Storm Water Runoff)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
51715 - (HFPO Dimer Acid)	N/A	N/A	N/A	N/A	Rpt Only	Rpt Only	ug/l	1/quarter	Grab
(Year Round) (ML-1) (RF-B)					Avg. Monthly	Max. Daily			

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 022

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

ED_005478_00010372-00042

A.023 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 023 (Storm Water Runoff)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
50050 - (Flow,in Conduit or thru plant) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mgd	1/quarter	Estimated
00530 - (Total Suspended Solids) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
00400 - (pH) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/6 months	Grab
00610 - (Ammonia Nitrogen) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01104 - (Aluminum, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
00980 - (Iron, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
81017 - (Chem. Oxygen Demand) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
51065 - (PFOA) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	ug/l	1/quarter	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 023

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS 1 - 12.

ED_005478_00010372-00043

A.023 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 023 (Storm Water Runoff)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
51715 - (HFPO Dimer Acid)	N/A	N/A	N/A	N/A	Rpt Only	Rpt Only	ug/l	1/quarter	Grab
(Year Round) (ML-1) (RF-B)					Avg Monthly	Max Daily			

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 023

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

ED_005478_00010372-00044

A.025 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 025 (Storm Water Runoff)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
50050 - (Flow,in Conduit or thru plant) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mgd	1/quarter	Estimated
00530 - (Total Suspended Solids) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
00400 - (pH) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/6 months	Grab
00610 - (Ammonia Nitrogen) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01104 - (Aluminum, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
00980 - (Iron, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
81017 - (Chem. Oxygen Demand) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
51065 - (PFOA) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	ug/l	1/quarter	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 025

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

ED_005478_00010372-00045

A.025 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 025 (Storm Water Runoff)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
51715 - (HFPO Dimer Acid)	N/A	N/A	N/A	N/A	Rpt Only	Rpt Only	ug/l	1/quarter	Grab
(Year Round) (ML-1) (RF-B)					Avg. Monthly	Max. Daily			

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 025

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

ED_005478_00010372-00046

A.026 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 026 (Storm Water Runoff)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
50050 - (Flow,in Conduit or thru plant) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mgd	1/quarter	Estimated
00530 - (Total Suspended Solids) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
00400 - (pH) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	Rpt Only Inst. Min	N/A	Rpt Only Inst. Max	S.U.	1/6 months	Grab
00610 - (Ammonia Nitrogen) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01104 - (Aluminum, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
00980 - (Iron, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
81017 - (Chem. Oxygen Demand) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
51065 - (PFOA) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	ug/l	1/quarter	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 026

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS 1 - 12.

ED_005478_00010372-00047

A.026 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 026 (Storm Water Runoff)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
51715 - (HFPO Dimer Acid)	N/A	N/A	N/A	N/A	Rpt Only	Rpt Only	ug/l	1/quarter	Grab
(Year Round) (ML-1) (RF-B)					Avg Monthly	Max Daily			

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 026

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS 1 - 12.

ED_005478_00010372-00048

A.028 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 028 (Other)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
50050 - (Flow,in Conduit or thru plant) (Year Round) (ML-1) (RF-D)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mgd	1/year	Estimated
00400 - (pH) (Year Round) (ML-1) (RF-D)	N/A	N/A	N/A	6 Inst. Min.	N/A	9 Inst. Max.	S.U.	1/year	Grab
00680 - (Total Organic Carbon) (Year Round) (ML-1) (RF-D)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/year	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 028 - Seal water from process water pumps.

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

ED_005478_00010372-00049

A.030 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 030 (Storm Water Runoff)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
50050 - (Flow,in Conduit or thru plant) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mgd	1/quarter	Estimated
00530 - (Total Suspended Solids) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
00400 - (pH) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/6 months	Grab
00610 - (Ammonia Nitrogen) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01104 - (Aluminum, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
00980 - (Iron, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
81017 - (Chem Oxygen Demand) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
51065 - (PFOA) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	ug/l	1/quarter	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 030 - Discharge of 18" storm water culvert under plant road.

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

ED_005478_00010372-00050

A.030 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 030 (Storm Water Runoff)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
51715 - (HFPO Dimer Acid)	N/A	N/A	N/A	N/A	Rpt Only	Rpt Only	ug/l	1/quarter	Grab
(Year Round) (ML-1) (RF-B)					Avg Monthly	Max Daily			

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 030 - Discharge of 18" storm water culvert under plant road.

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

ED_005478_00010372-00051

A.031 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 031 (Storm Water Runoff)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
50050 - (Flow,in Conduit or thru plant) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mgd	1/quarter	Estimated
00530 - (Total Suspended Solids) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
00400 - (pH) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/6 months	Grab
00610 - (Ammonia Nitrogen) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01104 - (Aluminum, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
00980 - (Iron, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
81017 - (Chem. Oxygen Demand) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
51065 - (PFOA) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	ug/l	1/quarter	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 031 - Discharge of 18" storm water culvert under plant road.

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

ED_005478_00010372-00052

A.031 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 031 (Storm Water Runoff)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
51715 - (HFPO Dimer Acid)	N/A	N/A	N/A	N/A	Rpt Only	Rpt Only	ug/l	1/quarter	Grab
(Year Round) (ML-1) (RF-B)					Avg. Monthly	Max. Daily			

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 031 - Discharge of 18" storm water culvert under plant road.

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS 1 - 12.

ED_005478_00010372-00053

A.032 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 032 (Storm Water Runoff)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
50050 - (Flow,in Conduit or thru plant) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mgd	1/quarter	Estimated
00530 - (Total Suspended Solids) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
00400 - (pH) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	Rpt Only Inst. Min	N/A	Rpt Only Inst. Max	S.U.	1/6 months	Grab
00610 - (Ammonia Nitrogen) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01104 - (Aluminum, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
00980 - (Iron, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
81017 - (Chem Oxygen Demand) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
51065 - (PFOA) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	ug/l	1/quarter	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 032 - Discharge of 18" storm water culvert under plant road.

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

ED_005478_00010372-00054

A.032 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 032 (Storm Water Runoff)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
51715 - (HFPO Dimer Acid)	N/A	N/A	N/A	N/A	Rpt Only	Rpt Only	ug/l	1/quarter	Grab
(Year Round) (ML-1) (RF-B)					Avg Monthly	Max Daily			

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 032 - Discharge of 18" storm water culvert under plant road.

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

ED_005478_00010372-00055

A.033 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 033 (Storm Water Runoff)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units	Other Units			Units	Measurement Frequency	Sample Type
50050 - (Flow,in Conduit or thru plant) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mgd	1/quarter	Estimated
00530 - (Total Suspended Solids) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
00400 - (pH) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/6 months	Grab
00610 - (Ammonia Nitrogen) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01104 - (Aluminum, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
00980 - (Iron, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
81017 - (Chem. Oxygen Demand) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
51065 - (PFOA) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	ug/l	1/quarter	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 033 - Discharge of 18" storm water culvert under plant road.

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

ED_005478_00010372-00056

A.033 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 033 (Storm Water Runoff)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
51715 - (HFPO Dimer Acid)	N/A	N/A	N/A	N/A	Rpt Only	Rpt Only	ug/l	1/quarter	Grab
(Year Round) (ML-1) (RF-B)					Avg. Monthly	Max. Daily			

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 033 - Discharge of 18" storm water culvert under plant road.

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS i - 12.

ED_005478_00010372-00057

A.034 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 034 (Storm Water Runoff)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
50050 - (Flow,in Conduit or thru plant) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mgd	1/quarter	Estimated
00530 - (Total Suspended Solids) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
00400 - (pH) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	Rpt Only Inst. Min	N/A	Rpt Only Inst. Max	S.U.	1/6 months	Grab
00610 - (Ammonia Nitrogen) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01104 - (Aluminum, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
00980 - (Iron, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
81017 - (Chem. Oxygen Demand) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
51065 - (PFOA) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	ug/l	1/quarter	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 034 - Discharge of 18" storm water culvert under plant road.

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

ED_005478_00010372-00058

A.034 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 034 (Storm Water Runoff)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations						Monitoring Requirements		
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
51715 - (HFPO Dimer Acid)	N/A	N/A	N/A	N/A	Rpt Only	Rpt Only	ug/l	1/quarter	Grab
(Year Round) (ML-1) (RF-B)					Avg Monthly	Max Daily			

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 034 - Discharge of 18" storm water culvert under plant road.

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

ED_005478_00010372-00059

A.036 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 036 (Storm Water Runoff)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
50050 - (Flow,in Conduit or thru plant) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mgd	1/quarter	Estimated
00530 - (Total Suspended Solids) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
00400 - (pH) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	S.U.	1/6 months	Grab
00610 - (Ammonia Nitrogen) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
01104 - (Aluminum, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
00980 - (Iron, Total Recoverable) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab
81017 - (Chem. Oxygen Demand) (Year Round) (ML-1) (RF-C)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/6 months	Grab
51065 - (PFOA) (Year Round) (ML-1) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	ug/l	1/quarter	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 036 - Discharge of 18" storm water culvert under plant road.

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - **12.**

ED_005478_00010372-00060

A.036 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 036 (Storm Water Runoff)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
51715 - (HFPO Dimer Acid)	N/A	N/A	N/A	N/A	Rpt Only	Rpt Only	ug/l	1/quarter	Grab
(Year Round) (ML-1) (RF-B)					Avg. Monthly	Max. Daily			

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Outlet 036 - Discharge of 18" storm water culvert under plant road.

This discharge shall comply with Appendix A - I MANAGEMENT CONDITIONS I - 12.

ED_005478_00010372-00061

A.102 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning effective date of permit and lasting through midnight expiration date of permit the permittee is authorized to discharge from Outlet Number(s) 102 (Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
50050 - (Flow,in Conduit or thru plant)	N/A	N/A	N/A	N/A	Rpt Only	Rpt Only	mgd	1/week	Estimated
(Year Round) (ML-1) (RF-A)					Avg. Monthly	Max. Daily			
Interim (Initial 12 months)									
50050 - (Flow,in Conduit or thru plant)	N/A	N/A	N/A	N/A	Rpt Only	Rpt Only	mgd	1/week	measured
(Year Round) (ML-1) (RF-A)					Avg. Monthly	Max. Daily			
Final (Remaining duration)									

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Internal Outlet 102 - [Internal Outlet to Outlet 002] At the discharge from the Zytel Unit (Nylon Fibers) (E.I. DuPont). Process Water and Steam Condensate Only.

ED_005478_00010372-00062

A.103 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning effective date of permit and lasting through midnight expiration date of permit the permittee is authorized to discharge from Outlet Number(s) 103 (Cooling Water, Other)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
50050 - (Flow,in Conduit or thru plant)	N/A	N/A	N/A	N/A	Rpt Only	Rpt Only	mgd	1/month	Estimated
(Year Round) (ML-1) (RF-A)					Avg Monthly	Max Daily			
Final (Remaining duration)									

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Internal Outlet 103 - [Internal Outlet to Outlet 003] At the discharge from the Kuraray (Butacite) Manufacturing Unit. Non-contact cooling water and steam condensate only.

ED_005478_00010372-00063

A.105 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 105 (Sanitary, Cooling Water, Process Water, Other)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
50050 - (Flow,in Conduit or thru plant)	N/A	N/A	N/A	N/A	Rpt Only	Rpt Only	mgd	Continuous	Recorded
(Year Round) (ML-1) (RF-A)					Avg. Monthly	Max. Daily			
Final (Remaining duration)									
00310 - (BOD, 5-Day 20 Deg.C)	370	988	Lbs/Day	N/A	Rpt Only	Rpt Only	mg/l	1/week	24 hr Composite
(Year Round) (ML-1) (RF-A)	Avg. Monthly	Max. Daily			Avg. Monthly	Max. Daily			
00530 - (Total Suspended Solids)	548	1777	Lbs/Day	N/A	Rpt Only	Rpt Only	mg/l	1/week	24 hr Composite
(Year Round) (ML-1) (RF-A)	Avg. Monthly	Max. Daily			Avg. Monthly	Max. Daily			
01094 - (Zinc, Total Recoverable)	0.89	2.2	Lbs/Day	N/A	Rpt Only	Rpt Only	mg/l	1/quarter	24 hr Composite
(Year Round) (ML-1) (RF-B)	Avg. Monthly	Max. Daily			Avg. Monthly	Max. Daily			

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Internal Outlet 105 - [Internal Outlet to Outlet 005] At the discharge from the biological treatmant plant, prior to combining with Internal Outlet 205.

ED_005478_00010372-00064

A.115 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning effective date of permit and lasting through midnight expiration date of permit the permittee is authorized to discharge from Outlet Number(s) 115 (Sanitary)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units	Other Units			Units	Measurement Frequency	Sample Type
50050 - (Flow,in Conduit or thru plant) (Year Round) (ML-A) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mgd	1/quarter	measured
00310 - (BOD, 5-Day 20 Deg.C) (Year Round) (ML-B) (RF-B)	Rpt Only Avg. Monthly	Rpt Only Max. Daily	Lbs/Day	N/A	30 Avg. Monthly	60 Max. Daily	mg/l	1/quarter	Grab
00530 - (Total Suspended Solids) (Year Round) (ML-A) (RF-B)	Rpt Only Avg. Monthly	Rpt Only Max. Daily	Lbs/Day	N/A	30 Avg. Monthly	60 Max. Daily	mg/l	1/quarter	Grab
74055 - (Coliform, Fecal) (Year Round) (ML-A) (RF-B)	N/A	N/A	N/A	N/A	200 Mon. Geo. Mean	400 Max. Daily	Cnts/100ml	1/quarter	Grab
00400 - (pH) (Year Round) (ML-A) (RF-B)	N/A	N/A	N/A	6 Inst. Min.	N/A	9 Inst. Max.	S.U.	1/quarter	Grab
00610 - (Ammonia Nitrogen) (Year Round) (ML-A) (RF-B)	Rpt Only Avg. Monthly	Rpt Only Max. Daily	Lbs/Day	N/A	15 Avg. Monthly	30 Max. Daily	mg/l	1/quarter	Grab
50060 - (Chlorine, Total Residual) (Year Round) (ML-A) (RF-B)	N/A	N/A	N/A	N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	mg/l	1/quarter	Grab

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Internal Outlet 115 - [Internal Outlet to Internal Outlet 105] BOD5 shall be collected prior to disinfection at the sewage plant. All other samples shall be collected at the discharge from the sewage plant.

ED_005478_00010372-00065

A.125 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning effective date of permit and lasting through midnight expiration date of permit the permittee is authorized to discharge from Outlet Number(s) 125 (Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
50050 - (Flow,in Conduit or thru plant)	N/A	N/A	N/A	N/A	Rpt Only	Rpt Only	mgd	1/week	Estimated
(Year Round) (ML-1) (RF-A)					Avg. Monthly	Max. Daily			
Interim (Initial 3 months)									
50050 - (Flow,in Conduit or thru plant)	N/A	N/A	N/A	N/A	Rpt Only	Rpt Only	mgd	1/week	Estimated
(Year Round) (ML-1) (RF-A)					Avg. Monthly	Max. Daily			
Final (Remaining duration)									

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Internal Outlet 125 - [Internal Outlet to Internal Outlet 105] At the discharge from the Kurayray (Butacite) Manufacturing Unit. Process Wastewater Only.

ED_005478_00010372-00066

A.202 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning effective date of permit and lasting through midnight expiration date of permit the permittee is authorized to discharge from Outlet Number(s) 202 (Noncontact Cooling Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
50050 - (Flow,in Conduit or thru plant)	N/A	N/A	N/A	N/A	Rpt Only	Rpt Only	mgd	1/month	Estimated
(Year Round) (ML-1) (RF-A)					Avg Monthly	Max Daily			
Final (Remaining duration)									

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Internal Outlet 202 - [Internal Outlet to Outlet 002] At the discharge from the Kuraray (Butacite) Manufacturing Unit. Non-contact cooling water only.

ED_005478_00010372-00067

A.205 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 205 (Cooling Water, Storm Water Runoff, Process Water, Other)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
50050 - (Flow,in Conduit or thru plant)	N/A	N/A	N/A	N/A	Rpt Only	Rpt Only	mgd	1/week	measured
(Year Round) (ML-1) (RF-A)					Avg. Monthly	Max. Daily			
Final (Remaining duration)									
00310 - (BOD, 5-Day 20 Deg.C)	817	2180	Lbs/Day	N/A	Rpt Only	Rpt Only	mg/l	1/week	24 hr Composite
(Year Round) (ML-1) (RF-A)	Avg. Monthly	Max. Daily			Avg. Monthly	Max. Daily			
Effluent Gross Value									
00530 - (Total Suspended Solids)	Rpt Only	Rpt Only	Lbs/Day	N/A	Rpt Only	Rpt Only	mg/l	1/week	24 hr Composite
(Year Round) (ML-7) (RF-A)	Avg. Monthly	Max. Daily			Avg. Monthly	Max. Daily			
River Intake TSS after any pretreatment, refer to Section C.32.									
00530 - (Total Suspended Solids)	1128	3655	Lbs/Day	N/A	Rpt Only	Rpt Only	mg/l	1/week	Calculated
(Year Round) (ML-2) (RF-A)	Avg. Monthly	Max. Daily			Avg. Monthly	Max. Daily			
Calculated Net TSS Value, refer to Section C.32.									
00530 - (Total Suspended Solids)	Rpt Only	Rpt Only	Lbs/Day	N/A	Rpt Only	Rpt Only	mg/l	1/week	24 hr Composite
(Year Round) (ML-1) (RF-A)	Avg. Monthly	Max. Daily			Avg. Monthly	Max. Daily			
Effluent Gross Value									

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Internal Outlet 205 - [Internal Outlet to Outlet 005] At the discharge from the Dechlorination System prior to mixing with Internal Outlet 105.

ED_005478_00010372-00068

A.305 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 305 (Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
50050 - (Flow,in Conduit or thru plant)	N/A	N/A	N/A	N/A	Rpt Only	Rpt Only	mgd	1/week	Estimated
(Year Round) (ML-1) (RF-A)					Avg Monthly	Max Daily			
Interim (Initial 12 months)									
50050 - (Flow,in Conduit or thru plant)	N/A	N/A	N/A	N/A	Rpt Only	Rpt Only	mgd	1/week	measured
(Year Round) (ML-1) (RF-A)					Avg. Monthly	Max. Daily			
Final (Remaining duration)									

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):
Internal Outlet 305 - [Internal Outlet to Outlet 005] At the discharge from the Carbon Filters of the Fluoroproducts West Unit.

ED_005478_00010372-00069

A.405 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 405 (Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
50050 - (Flow,in Conduit or thru plant)	N/A	N/A	N/A	N/A	Rpt Only	Rpt Only	mgd	1/week	Estimated
(Year Round) (ML-1) (RF-A)					Avg Monthly	Max Daily			
Interim (Initial 12 months)									
50050 - (Flow,in Conduit or thru plant)	N/A	N/A	N/A	N/A	Rpt Only	Rpt Only	mgd	1/week	measured
(Year Round) (ML-1) (RF-A)					Avg. Monthly	Max. Daily			
Final (Remaining duration)									

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Internal Outlet 405 - [Internal Outlet to Outlet 005] At the discharge from the Polyacetal Resins Unit (E.I. DuPont). Process Water and Steam Condensate Only.

ED_005478_00010372-00070

A.505 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning Effective Date of Permit and lasting through midnight Expiration Date of Permit the permittee is authorized to discharge from Outlet Number(s) 505 (Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
50050 - (Flow,in Conduit or thru plant)	N/A	N/A	N/A	N/A	Rpt Only	Rpt Only	mgd	1/week	Estimated
(Year Round) (ML-1) (RF-A)					Avg. Monthly	Max. Daily			
Interim (Initial 12 months)									
50050 - (Flow,in Conduit or thru plant)	N/A	N/A	N/A	N/A	Rpt Only	Rpt Only	mgd	1/week	measured
(Year Round) (ML-1) (RF-A)					Avg. Monthly	Max. Daily			
Final (Remaining duration)									

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Internal Outlet 505 - [Internal Outlet to Outlet 005] At the discharge from the Specialty Compounding Unit (E.I. DuPont). Process Water Settling Only.

ED_005478_00010372-00071

A.605 DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS:

Permit Limits

During the period beginning effective date of permit and lasting through midnight expiration of permit the permittee is authorized to discharge from Outlet Number(s) 605 (Process Water)

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations							Monitoring Requirements	
	Quantity		Units		Other Units		Units	Measurement Frequency	Sample Type
50050 - (Flow,in Conduit or thru plant)	N/A	N/A	N/A	N/A	Rpt Only	Rpt Only	mgd	1/week	Estimated
(Year Round) (ML-1) (RF-A)					Avg Monthly	Max Daily			
Interim (Initial 12 months)									
50050 - (Flow,in Conduit or thru plant)	N/A	N/A	N/A	N/A	Rpt Only	Rpt Only	mgd	1/week	measured
(Year Round) (ML-1) (RF-A)					Avg. Monthly	Max. Daily			
Final (Remaining duration)									

Samples taken in compliance with the monitoring requirements specified above shall be taken at the following location(s):

Internal Outlet 605 - [Internal Outlet to Outlet 005] At the discharge from the Fluoroproducts East & West Units. Process Water and Steam Condensate Only.

ED_005478_00010372-00072

B. SCHEDULE OF COMPLIANCE

1. The permitee shall achieve compliance with the provisions for waste treatment and the monitoring requirements specified in the permit in accordance with the following schedule :

06 months after Issuance:	The permittee shall identify sources, perform sampling as necessary, evaluate potential waste minimization alternatives to reduce waste and identify potential wastewater treatment system alternatives. The permittee shall submit a progress report that identifies the status of the actions taken, as well as actions to be taken, to come into compliance with the final effluent limitations for Perfluorooctanic Acid (PFOA) and HFPO (GenX) at Outlet 001; PFOA at Outlet 003; HFPO (GenX) at 006; ammonia nitrogen, PFOA, and HFPO (GenX) at Outlet 002; PFOA and HFPO (GenX) at Outlet 005; and temperature (May and October) at Outlet 007.
12 months after Issuance:	The permittee shall complete the evaluation of potential waste minimization alternatives to reduce waste and to identify potential wastewater treatment system alternatives. The permittee shall begin to develop cost estimates for the alternatives. The permittee shall submit a progress report that identifies the status of the actions taken, as well as actions to be taken, to come into compliance with the final effluent limitations for Perfluorooctanic Acid (PFOA) and HFPO (GenX) at Outlet 001; PFOA at Outlet 003; HFPO (GenX) at 006; ammonia nitrogen, PFOA, and HFPO (GenX) at Outlet 002; PFOA and HFPO (GenX) at Outlet 005; and temperature (May and October) at Outlet 007.
12 months after Issuance:	The permittee shall submit the required information pertaining to 316(b) of the Clean Water Act identified in Sections D.2 and D.3 of the permit.
12 months after Issuance:	The permittee shall acquire, construct, install, operate, and maintain flow measurement equipment at Internal Outlets 102, 305, 405, 505, 605, and 125 to measure the process wastewater portion (including steam condensate) of the discharge from each respective manufacturing unit. If measurement equipment cannot efficiently be installed, the permittee, in lieu, may develop a scientifically/mathematically sound methodology of engineering a calculation to measure flow based on the individual unit operations occurring at each respective unit based upon actual measured conditions (ex. cycles per discharge, tank levels, mass balance, etc).
18 months after Issuance:	The permittee shall select its waste minimization and/or wastewater treatment alternatives and shall begin bench/pilot scale treatability studies. The permittee shall submit a progress report that identifies the status of the actions taken, as well as actions to be taken, to come into compliance with the final effluent limitations for Perfluorooctanic Acid (PFOA) and HFPO (GenX) at Outlet 001; PFOA at Outlet 003; HFPO (GenX) at 006; ammonia nitrogen, PFOA, and HFPO (GenX) at Outlet 002; PFOA and HFPO (GenX) at Outlet 005; and temperature (May and October) at Outlet 007.
24 months after Issuance:	The permittee shall complete bench/pilot scale treatability studies and shall begin project design. The permittee shall submit a progress report that identifies the status of the actions taken, as well as actions to be taken, to come into compliance with the final effluent limitations for Perfluorooctanic Acid (PFOA) and HFPO (GenX) at Outlet 001; PFOA at Outlet 003; HFPO (GenX) at 006; ammonia nitrogen, PFOA, and HFPO (GenX) at Outlet 002; PFOA and HFPO (GenX) at Outlet 005; and temperature (May and October) at Outlet 007.

B. SCHEDULE OF COMPLIANCE

1. **The permitee shall achieve compliance with the provisions for waste treatment and the monitoring requirements specified in the permit in accordance with the following schedule :**

30 months after Issuance:	The permittee shall complete project design and begin construction of the selected alternatives. The permittee shall submit a progress report that identifies the status of the actions taken, as well as actions to be taken, to come into compliance with the final effluent limitations for Perfluorooctanic Acid (PFOA) and HFPO (GenX) at Outlet 001; PFOA at Outlet 003; HFPO (GenX) at 006; ammonia nitrogen, PFOA, and HFPO (GenX) at Outlet 002; PFOA and HFPO (GenX) at Outlet 005; and temperature (May and October) at Outlet 007.
36 months after Issuance:	The permittee shall complete the construction of any upgrades and/or system modifications and shall comply with the final effluent limitations for Perfluorooctanic Acid (PFOA) and HFPO (GenX) at Outlet 001; PFOA at Outlet 003; HFPO (GenX) at Outlet 006; ammonia nitrogen, PFOA, and HFPO (GenX) at Outlet 002; PFOA, and HFPO (GenX) at Outlet 005; and temperature (May and October) at Outlet 007.

2. **Reports of compliance or non-compliance with, and progress reports on interim and final requirements contained in the above compliance schedule, if any, shall be postmarked no later than 14 days following each schedule date.**

Section C - Other Requirements

01. The permittee shall practice good housekeeping including maintaining the facility grounds. There shall be no scattered parts, equipment, debris, etc. Any and all drums shall be either stored in a covered area or kept upon pallets and properly sealed.

02. The issuance of this permit shall not relieve the permittee of the obligation to comply with any other federal, state or local laws. Compliance with this permit does not relieve the permittee from the obligation of Section 311 of the Clean Water Act. This permit does not authorize spills of hazardous substances/wastes from any permitted outlet into waters of the State. Such incidents are to be reported in accordance with Sections IV.1 and IV.2 of Appendix A of this permit.

03. Upon review of information submitted under terms and conditions of this permit, the permit may be modified to require additional effluent limitations/monitoring requirements and/or improved best management practices.

04. The permittee shall notify the Division of Water and Waste Management immediately when it becomes aware of any migration of any pollutant from any unpermitted source (such as contaminated groundwater and/or storm water) into surface waters of the State.

05. Without prior approval from the agency, the permittee shall not accept and treat wastewater from any other non-Chemours owned or operated facility. Chemours may continue to accept wastewater from Little Hocking Service Center and Chemours Dry Run Landfill.

06. The permittee shall submit each month according to the enclosed format, a Discharge Monitoring Report (DMR) indicating in terms of concentration and/or quantities the values of the constituents listed in Section A analytically determined to be in the plant effluent(s). Additional information pertaining to effluent monitoring and reporting can be found in Section III of Appendix A.

07. The required DMRs shall be received by the agency no later than 25 days following the end of the reporting period in accordance with the following requirements. The agency is now requiring the permittee to utilize our electronic discharge monitoring report (eDMR) system which is now mandatory. The permittee is not required to submit hard copies of the DMRs to the addresses listed below when using eDMR. Special circumstances may result in the agency granting an exemption to eDMR and are considered on case by case basis. If the permittee was exempted by the agency from using the eDMR system, then the permittee is required to send hard copies to the addresses below. The permittee may contact the agency for more information about the eDMR system and potential exemptions from using it. Regardless, in accordance with Appendix A, Section III.6 of this permit, the permittee shall maintain copies of DMRs (either hard copies or electronic copies) at the plant site and the DMRs shall be made readily available upon request for DEP personnel.

a. Director
Division of Water and Waste Management
601 57th Street, SE
Charleston, West Virginia 25304
Attn: Permitting Branch

U. S. Environmental Protection Agency
Region III, Water Protection Division
NPDES Enforcement Branch (3WP42)
1650 Arch Street
Philadelphia, PA 19103

Department of Environmental Protection
Environmental Enforcement
2311 East Ohio Avenue
Parkersburg, West Virginia 26101
ph: 304.420.4635 / fax: 304.420.4554

08. For any noncompliance reports to be submitted in writing by this permit, a copy shall also be forwarded to the EPA at the location specified under Condition C.07 of this permit.

Section C - Other Requirements

09. Any "not detected (ND)" results by the permittee must be "ND" at the method detection limit (MDL) for the test method used for that parameter and must be reported as less than the MDL used. The permittee may not report the result as zero, "ND", or report the result as less than a minimum level (ML), reporting limit (RL), or practical quantitation limit (PQL).

    When averaging values of analytical results for DMR reporting purposes for monthly averages, the permittee should use actual analytical results when these results are greater than or equal to the MDL and should use zero (0) when these results are less than the MDL. If all analytical results are non-detect at the MDL (<MDL), then the permittee should use the actual MDL in the calculation for averaging and report the result as less than the average calculation.

10. In incidences where a specific test method is not defined, the permittee shall utilize an EPA approved method with a method detection limit (MDL) sensitive enough to confirm compliance with the permit effluent limit for that parameter. If a MDL is not sensitive enough to confirm compliance, the most sensitive approved method must be used. If a more sensitive EPA approved method becomes available, that method shall be used. Should the current and/or new method not be sensitive enough to confirm compliance with the permitted effluent limit, analytical results reported as "not detected" at the MDL of the most sensitive method available will be deemed compliant for purposes of permit compliance. Results shall be reported on the Discharge Monitoring Reports as a numeric value less than the MDL.

11. The permittee shall not use alternate DMRs without prior approval from this Agency.

12. The Groundwater Protection Plan (GPP) shall be maintained at the plant site and shall be available for inspection by the Division of Water and Waste Management personnel.

13. The permittee shall implement and maintain the storm water pollution prevention plan (SWPPP) for the site. The SWPPP shall be prepared in accordance with good engineering practices. The SWPPP shall identify potential sources of pollution which may reasonably be expected to affect the quality of storm water discharges associated with the industrial activity. In addition, the plan shall describe and ensure the implementation of practices which are to be used to reduce the pollutants in storm water discharges associated with the industrial activity at the facility and to assure compliance with the terms and conditions of this permit. A copy of this document shall be retained at the site for review upon request.

14. The following storm water requirements apply to Outlet(s) 011, 016, 019, 022, 023, 025, 026, 030-034 and 036:

    a. Samples shall be collected from the discharge resulting from a storm event that is greater than 0.1 inches in magnitude and that occurs at least 72 hours from the previously measurable (greater than 0.1 inch rainfall) storm event. Samples shall be taken during the first thirty (30) minutes, or as soon thereafter as practicable, of the storm event.

    b. Each outlet shall be monitored separately.

    c.

Pollutant	Benchmark Value
Chemical Oxygen Demand	120 mg/l
Total Suspended Solids	100 mg/l
Total Aluminum	0.75 mg/l
Total Iron	1.5 mg/l
Ammonia Nitrogen	4.0 mg/l
PFOA	1.57 mg/l
pH	6.0 to 9.0 S.U.

    When the concentration results from a minimum of four consecutive samples of a pollutant are all less than the corresponding benchmark value for the pollutant, additional monitoring for the pollutant is not required (this waiver does not apply to monitoring for PFOA). The facility shall submit, each year, to the Division of Water and Waste Management, in lieu of the monitoring data, a certification (form will be provided upon request) that there has not been a significant change in the industrial activity or the pollution prevention measures in the area of the facility that drains to the outlet for which sampling is to be waived. If the concentration of a pollutant exceeds the corresponding benchmark concentration or a pH value is not within the range of 6.0 to 9.0 S.U., monitoring shall be continued and storm water pollution prevention practices shall be revised and implemented. A letter stating the revised and implemented storm water pollution prevention practices shall be submitted to the Division of Water and Waste Management at the address listed in Section C.07.

Section C - Other Requirements

15. If there is evidence indicating potential or realized impacts on water quality due to any storm water discharge associated with industrial activity covered by this permit, the permit may be promptly modified and/or reissued to include effluent limitations and/or other requirements to control such storm water discharges.

16. The following conditions apply only to the package sewage treatment plant:

    a. The herein described treatment works, structures, electrical, and mechanical equipment shall be adequately protected from physical damage by the maximum expected twenty-five (25) year flood level, and operability shall be maintained during the ten (10) year flood level.

    b. The entire sewage treatment facility shall be adequately protected by fencing.

    c. Continuous maintenance and operation of the listed sewage treatment facility shall be performed by, or supervised by, a certified operator possessing at least a Class I certificate, for Waste Water Treatment Plant Operators, issued by the State of West Virginia.

    d. The permittee shall connect to a municipal or public service district sewage collection system when one becomes available; however, prior to this connection, the permittee shall obtain written permission from the municipal or public service district sewage system authority which will receive the waste and submit a request along with one (1) copy of the written permission to the Division of Water and Waste Management for approval.

    e. Without prior approval from the agency, use of intermediates, by-products, spent solvents or any other materials (except commercial grade materials), containing pollutant(s) that cannot be removed by the wastewater treatment plant is prohibited.

17. If any portion of the Permittee's discharge that is identified as being subject to Federal Effluent Guideline(s) and the new or revised requirements of the Federal Effluent Guideline(s) are not currently in this permit, the Director may reopen or reissue this permit to incorporate additional, more stringent requirements or limitations.

18. As this permit requires continuous monitoring of the pHs of the effluent from Outlet(s) 002, the permittee shall maintain the pHs of such effluents within the range of 6.0 - 9.0, except excursions from the range are permitted subject to the following limitations, provided the discharges do not cause violations of the standards established in 47 CSR 2, Section 8 of the West Virginia Legislative Rules:

    a. The total time during which the pH values are outside of the required ranges shall not exceed 7 hours and 26 minutes in any calendar month, and;

    b. No individual excursion from the range of pH values shall exceed 60 minutes.

19. The permittee shall perform chronic toxicity tests as described below, on the effluent from Outlet 005:

    a. Such testing will determine if an appropriate dilute effluent sample affects the survival or reproduction of the test species. 24-hour flow weighted composite samples of the effluent, as prescribed in Section A, shall be collected for testing. An appropriate statistical test shall be used to determine whether differences in control and effluent data are significant.

        i) The permittee shall conduct a three brood (6-8 days) Ceriodaphnia Dubia survival and reproduction toxicity test on the final effluent diluted by appropriate control water. Toxicity will be demonstrated if there is a statistically significant difference at the 95 percent confident level in survival or reproduction between Ceriodaphnia Dubia exposed to an appropriate control water and the final effluent. All test solutions shall be renewed using an approved renewal schedule. If, in any control, more than 20% of the test organisms die, or less than 60% of surviving females in controls produced their third brood, that test shall be repeated.

        ii) The permittee shall conduct a 7-day Pimephales Promelas fathead minnow larval survival and growth toxicity test on the final effluent diluted by appropriate control water. Toxicity will be demonstrated if there is a statistically significant difference at the 95 percent confidence level in survival or growth between fathead minnows exposed to an appropriate control water and the final effluent. All test solutions shall be renewed using an approved renewal schedule. If, in any control, more than 20% of the test organisms die, or average dry weight of surviving controls was less than 0.25 mg/l that test shall be repeated.

Section C - Other Requirements

19. b. Results shall be reported in terms of chronic toxic units (TUc) and shall be submitted with the corresponding monthly Discharge Monitoring Report (DMR).

TUc= 100/NOEC or NOEL
Where NOEC (or NOEL) is No Observed Effect Concentration (or Level), which is expressed as percent (volume) effluent in dilution water.
For Example, if NOEC is 10%, TUc= 100/10=10

When the effluent demonstrates no toxicity at 100% effluent (no observed effect), the permittee may report zero TUc.

c. The monitoring required, herein, shall be conducted in accordance with the sample collection, preservation, and analytical procedures specified in 40 CFR 136.

d. In addition to the monitoring data reporting requirements of 40 CFR 136, the exact age of the test organisms at the initiation of the test shall be reported. Values of less than or equal to 24 hours are acceptable for Pimephales Promelas, fathead minnow. The range of the Ceriodaphnia Dubia used must be reported as a range in hours. All Ceriodaphnia Dubia used in the test must be less than 24 hours of age at test commencement. The age difference between the youngest and oldest Ceriodaphnia Dubia used in the test must not exceed eight (8) hours.

e. The chronic toxicity testing shall be performed on an quarterly basis. There shall be a minimum of three (1) month between required sampling events.

f. If chronic effluent toxicity testing exceeds 4.5 TUc, the permittee shall immediately resample and test the effluent. This shall be performed within 30 days of the initial demonstration of the exceedance. Copies of the retesting results shall be provided to the Director immediately upon completion of the test.

If the second test is below 4.5 TUc, chronic effluent toxicity testing shall continue in accordance with the requirements, as prescribed herein. However, if the second test shows an exceedance, the Director shall impose further requirements, as may be necessary, in order to address chronic effluent toxicity.

g. The Director may impose further requirements should the chronic effluent toxicity testing results demonstrate toxocity.

20. The permittee shall perform acute effluent toxicity testing at Outlets 001, 002, and 003 in accordance with the following.

a. The acute effluent toxicity testing prescribed, herein, shall be 48-hour static acute toxicity tests utilizing Pimephales Promelas fathead minnow and Ceriodaphnia Dubia as the test species.

b. The acute toxicity testing shall be performed on a quarterly basis for Outlet 002 and semi-annual basis at Outlets 001 and 003. The first acute toxicity testing shall be carried out within 3 months from the effective date of the permit for Outlets 001 and 003. There shall be a minimum of three (3) months between required sampling semiannual sampling events at Outlets 001 and 003 and a minimum of one month between required quarterly sampling events at Outlet 002.

c. 24-hour flow weighted composite samples of the effluent, as prescribed in Section A, shall be collected for testing.

d. The dilution water should be a representative sample of the receiving water and should be obtained from a point as close as possible to but upstream or outside of the zone influenced by the effluent. If dilution water from the receiving stream is not suitable, some other uncontaminated, well-aerated surface or groundwater or commercially available media or reconstituted laboratory water can be used.

Section C - Other Requirements

20. e. Testing and reporting of the result shall be performed in accordance with 40 CFR 136 and must be submitted with the Discharge Monitoring Report (DMR) for the month following the completion of each test. LC50 shall be converted into Acute Toxic Units (TUa) using the following formula:

    TUa = 100/LC50
    For example, if LC50 is 100%, then TUa = 100/100 = 1.

    When the LC50 is greater than 100%, the permittee shall report the acute toxicity as less than 1 TUa. When the effluent demonstrates no toxicity (no organisms die), the permittee may report zero TUa.

    f. If acute effluent toxicity testing exceeds 1 TUa at Outlets 001, 002, or 003, the permittee shall immediately resample and test the effluent. This shall be performed within 30 days of the initial exceedance of 1 TUa noted value noted above. Copies of the retesting results shall be provided to the Director immediately upon completion of the test.

    g. The Director may impose further requirements should the acute effluent toxicity testing results demonstrate toxicity.

21. In conformance with the requirements of Appendix A, Part II, Section 5, Removed Substances, the permittee shall obtain approval for the disposal of any solids generated by the wastewater treatment plant. This approval shall be afforded in accordance with the provisions of Title 33, Series 2, of the Legislative Rules, accordingly, and 40 CFR Part 503, as applicable.

22. The Division has started to analyze the impacts of nutrients upon water quality and whether there is a need to establish nutrient water quality standards. Therefore, the Division shall impose effluent sampling for Total Nitrogen and Total Phosphorus in order to assist in this analysis. The Division recognizes there is not an EPA approved method to directly test for Total Nitrogen. The Total Nitrogen value to be reported on the permittee's Discharge Monitoring Reports (DMRs) shall be the sum of the following parameters; Total Kjeldahl Nitrogen, Nitrate and Nitrite.

23. Available sampling methods for total residual chlorine (TRC) are currently not sensitive enough to confirm compliance with the permit limitations imposed at the facility. Total residual chlorine (TRC) samples shall be taken, preserved and analyzed in accordance with the latest edition of 40 CFR Part 136. Because the permittee does not operate a certified wastewater laboratory at the plant site but still must comply with the instantaneous sample-type requirements, the permittee shall use an EPA Approved Method with at least a method detection level (MDL) of 100 ug/l. Any TRC sampling result reported as less than the MDL stated above shall be assumed to confirm compliance for purposes of permit enforcement. Should a more sensitive EPA approved method become available for field analysis of TRC, the permittee shall perform TRC self-monitoring in accordance with the new method. If the new method is not sensitive enough to determine compliance with specified TRC limits, analytical results reported as "not detected" at the MDL of the new method will be deemed compliant for purposes of permit enforcement.

24. Effluent monitoring for the following pollutants shall be conducted using the most sensitive methods and detection levels commercially available and economically feasible. The following methods are to be used unless the permittee desires to use an EPA Approved Test Method with a listed lower method detection level. Regardless, it is recognized that detection levels can vary from analysis to analysis and that non-detect results at a different MDL for the specified test method would not constitute a permit violation.

Section C - Other Requirements

24.

Parameter	EPA Test Method	Method Detection Level (ug/l)
Antimony, Total	200.8	0.4
Arsenic, Total Recoverable	200.9	0.5
Beryllium, Total	200.9	0.02
Bromoform	601	0.2
Cadmium, Total Recoverable	200.9	0.05
Chloroform	601	0.05
Copper, Total Recoverable	200.8	0.5
Lead, Total Recoverable	200.8	0.6
Mercury, Total	245.7 / 1631	0.0018 / 0.0002
Methyl Chloride	601	0.08
Methylene Chloride	601	0.25
3,4-Benzofluoranthene	610 / 625.1*	0.018 / 0.02
Phenolics, Total Recoverable	420.4	2
Selenium, Total Recoverable	200.9	0.6
Thallium, Total	200.8	0.3
Toluene	602	0.2
Trichloroethylene	601	0.12
Zinc, Total Recoverable	200.8	1.8
PFOA	SW8321B**	0.00979
HFPO-DA (GenX)	SW8321B**	0.0051

*The permittee may use Method 625.1 in lieu of EPA Method 610 for PAHs contingent on the laboratories ability to achieve an Method Detection Limit (MDL) of 0.02 ug/l.

* The permittee shall utilize the most recent revision of Method SW8321.

25. This permit only authorizes the discharge of process wastewater via Outlet(s) 002 and 005 from the manufacture of 40 CFR 414 Subpart C, D, and E OCPSF products. This permit does not authorize the discharge of partially or untreated 40 CFR 414 process wash water via Outlet 003 or 40 CFR 414 contaminated stormwater via Outlet 006.

The permittee must modify this permit prior to discharging or accepting from offsite any process wastewater from the manufacturing of any other products at the facility.

26. In conformance with 40 CFR 122.44(a)(2) a monitoring waiver may be granted for pollutants not present in the discharge. Historical data has shown consistent non-detects for the following pollutants listed below. As such, monitoring for these pollutants has been removed in accordance with 40 CFR 122.44 (a)(2). However, this regulation does not waive the permit limitations for all applicable guideline-listed pollutants in 40 CFR 414 Subpart J applicable at Outlet 002 and Outlet 405. Therefore, a monitoring waiver is granted for the pollutants listed below; however, the limitations shall remain in effect as listed below. The permittee must still sample the pollutants listed below as part of the required testing for the next permit renewal application. Any testing conducted by the permittee for these pollutants shall be in accordance with Sections C.9, C.10, and C.24.

a.

OUTLET 002:

Pollutant	MASS LIMITS Avgerage Monthly	Max Daily	Units
Acenaphthene	0.2926	0.7238	lbs/day
Acenaphthylene	0.2926	0.7238	lbs/day
Acrylonitrile	1.4476	3.5727	lbs/day
Anthracene	0.2926	0.7238	lbs/day
Benzene	0.8778	2.0635	lbs/day
Benzo(a)anthracene	0.2926	0.7238	lbs/day
Benzo(k)fluoranthene	0.2926	0.7238	lbs/day
Benzo(a)pyrene	0.3080	0.7392	lbs/day
Bis(2-ethylhexyl) phthalate	1.4630	3.9731	lbs/day
Carbon Tetrachloride	2.1867	5.8518	lbs/day
Chlorobenzene	2.1867	5.8518	lbs/day
Chloroethane	1.6940	4.5429	lbs/day
Chrysene	0.2926	0.7238	lbs/day

Section C - Other Requirements

26. a.

Di-n-butyl phthalate	0.3080	0.6622	lbs/day
1,2-Dichlorobenzene	3.0183	12.2273	lbs/day
1,3-Dichlorobenzene	2.1867	5.8518	lbs/day
1,4-Dichlorobenzene	2.1867	5.8518	lbs/day
1,1-Dichloroethane	0.3388	0.9086	lbs/day
1,2-Dichloroethane	2.7719	8.8394	lbs/day
1,1-Dichloroethylene	0.3388	0.9240	lbs/day
1,2-trans-Dichloroethylene	0.3850	1.0164	lbs/day
1,2-Dichloropropane	3.0183	12.2273	lbs/day
1,3-Dichloropropylene	3.0183	12.2273	lbs/day
Diethyl phthalate	0.7084	1.7402	lbs/day
2,4-Dimethylphenol	0.2926	0.7238	lbs/day
Dimethyl phthalate	0.2926	0.7238	lbs/day
4,6-Dinitro-o-cresol	1.2012	4.2657	lbs/day
2,4-Dinitrophenol	18.5873	66.0796	lbs/day
Ethylbenzene	2.1867	5.8518	lbs/day
Fluoranthene	0.3388	0.8316	lbs/day
Fluorene	0.2926	0.7238	lbs/day
Hexachlorobenzene	3.0183	12.2273	lbs/day
Hexachlorobutadiene	2.1867	5.8518	lbs/day
Hexachloroethane	3.0183	12.2273	lbs/day
Naphthalene	0.2926	0.7238	lbs/day
Nitrobenzene	34.4489	98.5881	lbs/day
2-Nitrophenol	1.0010	3.5573	lbs/day
4-Nitrophenol	2.4947	8.8702	lbs/day
Phenanthrene	0.2926	0.7238	lbs/day
Phenol	0.2926	0.7238	lbs/day
Pyrene	0.3080	0.7392	lbs/day
Tetrachloroethylene	0.8008	2.5255	lbs/day
1,2,4-Trichlorobenzene	3.0183	12.2273	lbs/day
1,1,1-Trichloroethane	0.3388	0.9086	lbs/day
1,1,2-Trichloroethane	0.4928	1.9557	lbs/day
Vinyl Chloride	1.4938	2.6487	lbs/day

b.

OUTLET 005:

	MASS LIMITS		
Pollutant	Avgerage Monthly	Max Daily	Units
Acenaphthene	1.2348	3.1913	lbs/day
Acenaphthylene	1.2348	3.1913	lbs/day
Acrylonitrile	5.7259	14.2831	lbs/day
Anthracene	1.2348	3.1913	lbs/day
Benzene	2.8388	8.1370	lbs/day
Benzo(a)anthracene	1.2348	3.1913	lbs/day
Benzo(k)fluoranthene	1.2348	3.1913	lbs/day
Benzo(a)pyrene	1.2951	3.2814	lbs/day
Bis(2-ethylhexyl) phthalat	5.9653	16.1787	lbs/day
Carbon Tetrachloride	4.8578	12.6961	lbs/day
Chlorobenzene	4.7682	12.3976	lbs/day
Chloroethane	6.4515	16.9761	lbs/day
2-Chlorophenol	0.9254	2.9256	lbs/day
Chrysene	1.2348	3.1913	lbs/day
Di-n-butyl phthalate	1.4145	3.0099	lbs/day
1,2-Dichlorobenzene	8.2621	29.0239	lbs/day
1,3-Dichlorobenzene	5.2459	12.8752	lbs/day
1,4-Dichlorobenzene	4.7682	12.3976	lbs/day
1,1-Dichloroethane	1.3261	3.5564	lbs/day
1,2-Dichloroethane	7.5066	23.7632	lbs/day
1,1-Dichloroethylene	1.1470	2.5718	lbs/day

Section C - Other Requirements

26. b.

1,2-trans-Dichloroethylene	1.3875	3.6201	lbs/day
2,4-Dichlorophenol	1.1643	3.3435	lbs/day
1,2-Dichloropropane	10.5309	31.0240	lbs/day
1,3-Dichloropropylene	6.8291	25.4714	lbs/day
Diethyl phthalate	3.8176	9.4982	lbs/day
2,4-Dimethylphenol	1.1154	2.5047	lbs/day
Dimethyl phthalate	1.1453	2.8331	lbs/day
4,6-Dinitro-o-cresol	4.3769	15.5436	lbs/day
2,4-Dinitrophenol	33.1999	114.0953	lbs/day
2,4-Dinitrotoluene	3.4347	8.6628	lbs/day
2,6-Dinitrotoluene	7.7510	19.4838	lbs/day
Ethylbenzene	4.6246	13.0557	lbs/day
Fluoranthene	1.3257	3.4557	lbs/day
Fluorene	1.1574	3.0021	lbs/day
Hexachlorobenzene	6.4112	24.9937	lbs/day
Hexachlorobutadiene	4.9175	13.0245	lbs/day
Hexachloroethane	6.5903	25.7699	lbs/day
Naphthalene	1.2348	3.1913	lbs/day
Nitrobenzene	68.8679	196.8141	lbs/day
2-Nitrophenol	3.2016	9.0881	lbs/day
4-Nitrophenol	7.0783	21.2268	lbs/day
Phenanthrene	1.2348	3.1913	lbs/day
Phenol	1.0259	2.2062	lbs/day
Pyrene	1.3548	3.4606	lbs/day
Tetrachloroethylene	2.2389	6.6615	lbs/day
1,2,4-Trichlorobenzene	7.9934	28.3372	lbs/day
1,1,1-Trichloroethane	1.2963	3.4072	lbs/day
1,1,2-Trichloroethane	1.6005	5.4761	lbs/day
Vinyl Chloride	6.0560	13.2337	lbs/day

27. The following guidelines pertain to any investigatory activities, which generate liquid Investigation Derived Waste (IDW) including, but not limited to; groundwater monitoring, well development and sampling, and decontamination procedures.

    a. Liquid IDW, which has been extracted from a site, shall be stored in a secure container suitable for off-site disposal (i.e. 55-gallon drum or holding tank), and its contents properly characterized by a West Virginia certified laboratory for all contaminants of concern at the site to determine the appropriate treatment or disposal method.

    b. Storage of all liquid IDW shall be in a segregated manner (by area of concern, type of IDW, etc).

    c. All non-decontamination liquid IDW that meets the groundwater quality standards for the State of West Virginia may be disposed of on-site. Liquid, which exceeds these criteria, shall be taken to a treatment facility specific to the constituents exceeding the groundwater criteria or handled as hazardous waste and disposed of as such.

28. Without prior approval from the agency, the permittee shall not accept and treat wastewater from any facility other than those listed below:

Section C - Other Requirements

28.

Facility Name	Outlet	SIC Code, Category
E.I. DuPont de Nemours - Delrin (Polyacetal Resins)	405	2821, 40 CFR 414
E.I. DuPont de Nemours - Specialty Compounding Unit - Filaments	505	2821, 40 CFR 414
E.I. DuPont de Nemours - Zytel (Nylon Fibers)	102	2821, 40 CFR 414
Kuraray - Butacite(Polyvinyl Butyral Resin)	125	2821, 40 CFR 414
Kuraray (NCCW) - Butacite(Polyvinyl Butyral Resin)	103/202	
E.I. DuPont de Nemours (non-process) - Eng. Polymer Compounding - East - Technical Labs - DuPont Site Operations	NMR	

NMR: No Monitoring Required

a. The acceptance of the wastewater from non-Chemours owned or operated facilities for treatment and disposal through Outlet 005 is contingent upon the following terms and conditions:

1) No discharger shall cause or contribute to pass through, interference, or upset of the Outlet 105/005 treatment plant/disposal system.

2) The wastewater approved for acceptance from E.I. DuPont de Nemours consists of sanitary sewage, process wastewater, non-contact cooling water, steam condensate, and storm water runoff from the manufacturing of Specialty Compounding, Filaments, Zytel (Nylon Fibers), and Delrin (Polyacetal Resins) products and additional non-process miscellaneous wastewater from Du Pont's Engineered Polymer Compounding - East, Technical Labs and Site Operations. The subject wastewater (40 CFR 414 Subparts D) shall monitored per the requirements in Sections A.102, A.405 and A.505 at a location prior to acceptance. De minimus amounts of other process wastewater, non-contact cooling water, and stormwater may be accepted contingent upon compliance with Section C.28.a.1.

The permittee shall not accept process wastewater from the manufacturing of any products that are regulated under any other part/subpart of the federal effluent guidelines from this offsite facility without prior approval from the agency.

3) The wastewater approved for acceptance from Kuraray consists of non-contact cooling water (Outlets 002, 003, 105), steam condensate (Outlet 003), process sanitary wastewater (Outlet 105), and storm water runoff (Outlets 002, 003) from the manufacturing of polyvinyl butyral resins (Butacite). The polyvinyl butyral wastewater (40 CFR 414 Subparts D) shall be monitored per the requirements in Sections A.202, A.103, and A.125 at a location prior to acceptance. De minimus amounts of other process wastewater, non-contact cooling water, and stormwater may be accepted contingent upon compliance with Section C.28.a.1.

The permittee shall not accept process wastewater from the manufacturing of any products that are regulated under any other part/subpart of the federal effluent guidelines from this offsite facility without prior approval from the agency.

29. In order to reassess the mixing zones at the next permit issuance for Outlets 001, 002, 003, 005, 006, and 007, the permittee will be required to assess the background water quality in the Ohio River during the last two years of this permit in accordance with the following.

Section C - Other Requirements

29. a. Background water quality data shall be collected at a location upstream of the discharge for which a mixing zone is being requested and downstream of any discharges that are upstream of the discharge for which a mixing zone is being requested.

    b. A minimum of ten sample results shall be collected for temperature, pH, hardness, total suspended solids, and any other pollutant for which a mixing zone will be requested for each respective discharge outfall. Analytical test methods used shall be in accordance with Section C of this permit. Samples shall be collected during different calendar months.

    c. Width and depth (river bottom samples shall be included) integrated samples shall be collected.

    d. Background water quality data must be completed for each discharge and pollutant for which a mixing zone is being requested.

30. The upstream temperatures and discharge temperatures required by Sections A.001, A.002, A.003, A.005, A.006, and A.007 of this permit shall be collected concurrently. Concurrently shall be defined as no more than one hour between monitoring collected at the upstream location in the Ohio River and the respective discharge.

31. Prior to disposing of any solids generated by either the settling pond or the package sewage treatment plant, the permittee shall submit a letter of acceptance from the disposal facility to this Division. This does not apply to any normal solid wastes (trash/refuse) generated by the standard operation of the facility. However, those normal solid wastes shall be disposed of in a manner consistent with any, and all, appropriate laws and regulations.

32. The permit includes net limits for total suspended solids (TSS) at Outlet Nos. 002 and 205. These net limits shall be determined by utilizing river intake/influent sampling information and the ratio of river water used at each outlet. River Intake/Influent river TSS samples shall be measured after any pretreatment and prior to combination with well water and prior to dissemination to any processes at the facility. Ratios and net mass values are as follows:

    a.

Outlet No.	River Water Ratio
002	0.46
205	0.79

    b. Outlet net mass values shall be determined from the following equation:

    Outlet Net Mass = Outlet Gross TSS Mass (lbs/day) - (Outlet Flow (MGD) x River Intake TSS (mg/l) x River Water Ratio x 8.34)

33. The permittee may use raw glacial acetic acid, acetic anhydride, formaldehyde, and/or methanol to maintain bio-mass in the Outlet 105 treatment system during shutdown and/or maintenance activities at the plant per the following conditions:

    a. The feed rate of the raw materials (i.e. raw glacial acetic acid, acetic anhydride, formaldehyde, methanol) alone or in combination to the plant influent shall not exceed 150 lbs per hour. Only high grade raw materials (99% purity or greater excluding water content) are approved for use. The raw materials shall be introduced into the influent of the WWTP in such a manner to avoid short circuiting. The actual volume fed into the WWTP shall be measured and recorded daily.

    The Materials Safety Data Sheet (MSDS) for formaldehyde indicates a minimum LC50 of 10 mg/l for fish and therefore, to be protective of narrative water quality criteria, at no time shall the concentration of the product exceed 1 mg/l at Outlet 005.

    The Materials Safety Data Sheet (MSDS) for acetic anhydride indicates a minimum LC50 of 265 mg/l for fish and therefore, to be protective of narrative water quality criteria, at no time shall the concentration of the product exceed 26.5 mg/l at Outlet 005.

    The Materials Safety Data Sheet (MSDS) for glacial acetic acid indicates a minimum LC50 of 251 mg/l for fish and therefore, to be protective of narrative water quality criteria, at no time shall the concentration of the product exceed 25.1 mg/l at Outlet 005.

Section C - Other Requirements

33. b. The permittee shall continue to comply with all effluent limitations and sampling frequencies for all parameters at Outlet 105/005 during the application of all chemicals. All chemicals shall be applied in a manner that shall not cause or contribute to a violation of the state's numeric and narrative water quality standards at any permitted outlet.

c. The discharge at Outlet 005 shall be visually inspected on a daily basis for conditions not allowable in State waters including but not limited to: distinct visible floating or settleable solids, scum, foam, oily slicks, odors, visible color, or any other condition as described in 47 CSR 2, Section 3.2 during application of the raw material feed (i.e. raw glacial acetic acid, acetic anhydride, formaldehyde, methanol). Any observed condition not allowable shall be immediately reported to agency personnel and the feed of raw materials ceased. Also, any significant change in continuously monitored parameters at Outlet 105/005 (ex. pH) or in oxygen demanding pollutants (BOD or COD) shall be immediately reported to the agency and the feed of raw materials ceased.

Section D - 316 (b) Intake Requirements

1. Based on a review of the water intake data submitted with the permit application, the agency has determined that the facility operates a water intake structure with a design flow of greater than 2 million gallons a day but less than 125 MGD actual flow and comes into direct contact with fish and other Ohio River organisms. In accordance with 316(b) of the Clean Water Act, the location, design, construction, and capacity of the cooling water intake structures (CWIS) for the permittee's facility shall reflect the best technology available (BTA) for minimizing adverse environmental impingement and entrainment at the intake structure.
2. The permittee shall submit the follow information concerning the construction and operation of its cooling water intake on or before 12 months from the issue date of the permit. At a minimum the following items shall be included:
   a. 40 CFR 122.21(r)(2) – Source Water Physical Data
      1) A narrative description and scaled drawings showing the physical configuration of all source water bodies used by the facility, including areal dimensions, depths, salinity and temperature regimes, and other documentation that supports your determination of the water body type where each cooling water intake structureis located;
      2) Identification and characterization of the source waterbody's hydrological and geomorphological features, as well as the methods used to conduct any physical studies to determine the intake's area of influence within the waterbody and the results of such studies; and
      3) Locational Maps.
   b. 40 CFR 122.21(r)(3) – Cooling Water Intake Structure Data
      1) A narrative description of the configuration of each of the cooling water intake structures and where it is located in the water body and in the water column;
      2) Latitude and longitude in degrees, minutes, and seconds for each of the cooling water intake structures;
      3) A narrative description of the operation of each cooling water intake structure, including design intake flows, daily hours of operation, number of days of the year in operation, and seasonal changes (if applicable);
      4) A flow distribution and water balance diagram that includes all sources of water to the facility, recirculating flows, and discharges; and
      5) Enginering drawings of the cooling water intake structure.
   c. 40 CFR 122.21(r)(4) - Source Water Baseline Biological Characterization Data
      1) A list of data in Sections D.2.c.2 through D.2.c.6 that are not available and documentation of the efforts made to identify the sources of the data;
      2) A list of species (or relevant taxa) for all life stages and their relative abundance in the vicinity of the cooling water intake structure;
      3) Identification of the species and the life stages that would be most susceptible to entrainment. Species evaluated should include the forage base as well as those most important in terms of significance to commercial and recreational fisheries;
      4) Identification and evaluation of the primary period of reproduction, larval recruitment, and period of peak abundance for relevant taxa;
      5) Data representative of the seasonal and daily activities (e.g. feeding and water column migration) of biological organisms in the vicinity of the cooling water intake structure;
      6) Identification of all threatened, endangered, and other protected species that might be susceptible to entrainment at your cooling water intake structures;
      7) Documentation of any public participation or consultation with Federal or State agencies undertaken in development of the plan; and

Section D - 316 (b) Intake Requirements

2. c. 8) If the Source Water Baseline Characterization Data is collected using field studies, a description of all methods and quality assurance procedures for sampling, and data analysis including a description of the study area, taxonomic identification of sampled and evaluated biological assemblages (including all life stages of fish/shellfish); and sampling and data analysis methods. The sampling and/or data analysis methods must be appropriate for a quantitative survey and based on consideration of methods used in other biological studies performed within the same source water body. The study should include, at a minimum, the area of influence of the cooling water intake structure;

9) Identification of protective measures and stabilization activities that have been implemented, and a description of how these measures and activities affected the baseline water condition in the vicinity of the intake;

10) A list of fragile species, as defined at 40 CFR 125.92(m), at the facility.

d. 40 CFR 122.21(r)(5) – Cooling Water System Data

1) A narrative description of the operation of the cooling water system and its relationship to cooling water intake structures; the proportion of the design intake flow that is used in the system; the number of days of the year the cooling water system is in operation and seasonal changes in the operation of the system, if applicable; the proportion of design intake flow for contact cooling, non-contact cooling, and process uses; a distribution of water reuse to include cooling water reused as process water, process water reused for cooling, and the use of gray water for cooling; a description of reductions in total water withdrawals including cooling water intake flow reductions already achieved through minimized process water withdrawals; a description of any cooling water that is used in a manufacturing process either before or after it is used for cooling, including other recycled process water flows; the proportion of the source waterbody withdrawn (on a monthly basis);

2) Design and engineering calculations prepared by a qualified professional and supporting data to support the description required by above; and

3) Description of existing impingement and entrainment technologies or operational measures and a summary of their performance, including but not limited to reductions in impingement mortality and entrainment due to intake location and reductions in total water withdrawals and usage.

e. 40 CFR 122.21(r)(6) – Chosen Method of Compliance with the Impingement Mortality Standard

The owner or operator of the facility must identify the chosen compliance method for the entire facility; alternatively, the applicant must identify the chosen compliance method for each cooling water intake structure at its facility. The applicant must identify any intake structure for which a BTA determination for Impingement Mortality under 40 CFR 125.94 (c)(11) or (12) is requested. In addition, the owner or operator that chooses to comply via 40 CFR 125.94 (c)(5) or (6) must also submit an impingement technology performance optimization study as described below:

1) If the applicant chooses to comply with 40 CFR 125.94(c)(5), subject to the flexibility for timing provided in 40 CFR 125.95(a)(2), the impingement technology performance optimization study must include two years of biological data collection measuring the reduction in impingement mortality achieved by the modified traveling screens as defined at 40 CFR 125.92(s) and demonstrating that the operation has been optimized to minimize impingement mortality. A complete description of the modified traveling screens and associated equipment must be included, including, for example, type of mesh, mesh slot size, pressure sprays and fish return mechanisms. A description of any biological data collection and data collection approach used in measuring impingement mortality must be included:

(A) Collecting data no less frequently than monthly. The Director may establish more frequent data collection;

(B) Biological data collection representative of the impingement and the impingement mortality at the intakes subject to this provision;

(C) A taxonomic identification to the lowest taxon possible of all organisms collected;

(D) The method in which naturally moribund organisms are identified and taken into account;

(E) The method in which mortality due to holding times is taken into account;

Section D - 316 (b) Intake Requirements

2. e. (F) If the facility entraps fish or shellfish, a count of entrapment, as defined at 40 CFR 125.92(j), as impingement mortality; and

(G) The percent impingement mortality reflecting optimized operation of the modified traveling screen and all supporting calculations.

2) If the applicant chooses to comply with 40 CFR 125.94(c)(6), the impingement technology performance optimization study must include biological data measuring the reduction in impingement mortality achieved by operation of the system of technologies, operational measures and best management practices, and demonstrating that operation of the system has been optimized to minimize impingement mortality. This system of technologies, operational measures and best management practices may include flow reductions, seasonal operation, unit closure, credit for intake location, and behavioral deterrent systems. The applicant must document how each system element contributes to the system's performance. The applicant must include a minimum of two years of biological data measuring the reduction in impingement mortality achieved by the system. The applicant must also include a description of any sampling or data collection approach used in measuring the rate of impingement, impingement mortality, or flow reductions.

(A) Rate of Impingement. If the demonstration relies in part on a credit for reductions in the rate of impingement in the system, the applicant must provide an estimate of those reductions to be used as credit towards reducing impingement mortality, and any relevant supporting documentation, including previously collected biological data, performance reviews, and previously conducted performance studies not already submitted to the Director. The submission of studies more than 10 years old must include an explanation of why the data are still relevant and representative of conditions at the facility and explain how the data should be interpreted using the definitions of impingement and entrapment at 40 CFR 125.92(n) and (j), respectively. The estimated reductions in rate of impingement must be based on a comparison of the system to a once-through cooling system with a traveling screen whose point of withdrawal from the surface water source is located at the shoreline of the source waterbody. For impoundments that are waters of the United States in whole or in part, the facility's rate of impingement must be measured at a location within the cooling water intake system that the Director deems appropriate. In addition, the applicant must include two years of biological data collection demonstrating the rate of impingement resulting from the system. For this demonstration, the applicant must collect data no less frequently than monthly. The Director may establish more frequent data collection.

(B) Impingement Mortality. If the demonstration relies in part on a credit for reductions in impingement mortality already obtained at the facility, the applicant must include two years of biological data collection demonstrating the level of impingement mortality the system is capable of achieving. The applicant must submit any relevant supporting documentation, including previously collected biological data, performance reviews, and previously conducted performance studies not already submitted to the Director. The applicant must provide a description of any sampling or data collection approach used in measuring impingement mortality. In addition, for this demonstration the applicant must:

(i) Collect data no less frequently than monthly. The Director may establish more frequent data collection;

(ii) Conduct biological data collection that is representative of the impingement and the impingement mortality at an intake subject to this provision. In addition, the applicant must describe how the location of the cooling water intake structure in the waterbody and the water column are accounted for in the points of data collection;

(iii) Include a taxonomic identification to the lowest taxon possible of all organisms to be collected;

(iv) Describe the method in which naturally moribund organisms are identified and taken into account;

(v) Describe the method in which mortality due to holding times is taken into account; and

(vi) If the facility entraps fish or shellfish, a count of the entrapment, as defined at 40 CFR 125.92(j), as impingement mortality.

Section D - 316 (b) Intake Requirements

2. e. (C) Flow reduction. If the demonstration relies in part on flow reduction to reduce impingement, the applicant must include two years of intake flows, measured daily, as part of the demonstration, and describe the extent to which flow reductions are seasonal or intermittent. The applicant must document how the flow reduction results in reduced impingement. In addition, the applicant must describe how the reduction in impingement has reduced impingement mortality.

(D) Total system performance. The applicant must document the percent impingement mortality reflecting optimized operation of the total system of technologies, operational measures, and best management practices and all supporting calculations. The total system performance is the combination of the impingement mortality performance reflected in paragraphs (r)(6)(ii)(A), (B), and (C) of this section.

f. 40 CFR 122.21(r)(7) - Entrainment Performance Studies

The permittee shall submit any previously conducted studies or studies obtained from other facilities addressing technology efficacy, through-facility entrainment survival, and other entrainment studies. Any such submittals must include a description of each study, together with underlying data, and a summary of any conclusions or results. Any studies conducted at other locations must include an explanation as to why the data from the other locations are relevant and representative of conditions at the facility. In the case of studies more than 10 years old, the applicant must explain why the data are still relevant and representative of conditions at the facility and explain how the data should be interpreted using the definition of entrainment at 40 CFR 125.92(h).

g. 40 CFR 122.21(r)(8) – Operation Status

1) For process units at your facility that use cooling water other than for power production or steam generation, if you intend to use reductions in flow or changes in operations to meet the requirements of 40 CFR 125.94(c), descriptions of individual production processes and product lines, operating status including age of each line, seasonal operation, including any extended or unusual outages that significantly affect current data for flow, impingement, entrainment, or other factors, any major upgrades completed within the last 15 years, and plans or schedules for decommissioning or replacement of process units or production processes and product lines;

2) For all manufacturing facilities, descriptions of current and future production schedules; and

3. Descriptions of plans or schedules for any new units planned within the next 5 years.

The herein-described activity is to be extended, modified, added to, made, enlarged, acquired, constructed or installed, and operated, used and maintained strictly in accordance with the terms and conditions of this permit, with the plans and specifications submitted with Permit Application No. WV0001279; with the plan of maintenance and method of operation thereof submitted with such application(s); and with any applicable rules and regulations promulgated by the Environmental Quality Board and the Secretary of the Department of Environmental Protection.

Failure to comply with the terms and conditions of this permit, with the plans and specifications submitted with Permit Application No. WV0001279; and with the plan of maintenance and method of operation thereof submitted with such application(s) shall constitute grounds for the revocation or suspension of this permit and the invocation of all the enforcement procedures set forth in Chapter 22, Article 11, or 15 of the Code of West Virginia.

This permit is issued in accordance with the provisions of Chapter 22, Article 11 and 12 and/or 15 of the Code of West Virginia and is transferable under the terms of Section 11 of Article 11.

Scott G. Mandirola, Director

Appendix A

I. MANAGEMENT CONDITIONS:

1. Duty to Comply

a) The permittee must comply with all conditions of this permit. Permit noncompliance constitutes a violation of the CWA and State Act and is grounds for enforcement action; for permit modification, revocation and reissuance, suspension or revocation; or for denial of a permit renewal application.

b) The permittee shall comply with all effluent standards or prohibitions established under Section 307(a) of the CWA for toxic pollutants within the time provided in the regulations that establish these standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.

2. Duty to Reapply

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for a new permit at least 180 days prior to expiration of the permit.

3. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit, which has a reasonable likelihood of adversely affecting human health or the environment.

4. Permit Actions

This permit may be modified, revoked and reissued, suspended, or revoked for cause. The filing of a request by the permittee for permit modification, revocation and reissuance, or revocation, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

5. Property Rights

This permit does not convey any property rights of any sort or any exclusive privilege.

6. Signatory Requirements

All applications, reports, or information submitted to the Director shall be signed and certified as required in Title 47, Series 10 , Section 4.6 of the West Virginia Legislative Rules.

7. Transfers

This permit is not transferrable to any person except after notice to the Director. The Director may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary.

8. Duty to Provide Information

The permittee shall furnish to the Director, within a reasonable specified time, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, suspending, or revoking this permit, or to determine compliance with this permit. The permittee shall also furnish to the Director, upon request, copies of records required to be kept by this permit.

9. Other Information

Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or in any report to the Director, it shall promptly submit such facts or information.

10. Inspection and Entry

The permittee shall allow the Director, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:

a) Enter upon the permittee's premises in which an effluent source or activity is located, or where records must be kept under the conditions of this permit;

b) Have access to and copy at reasonable times, any records that must be kept under the conditions of this permit;

c) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and

d) Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the State Act, any substances or parameters at any location.

11. Permit Modification

This permit may be modified, suspended, or revoked in whole or in part during its term in accordance with the provisions of Chapter 22-11-12 of the Code of West Virginia.

12. Water Quality

This discharge shall not cause or materially contribute to: distinctly visible floating or settable solids, suspended solids, scum, foam or oily slicks; deposits or sludge bank on the bottom; odors in the vicinity of the waters; taste or odor that would adversely affect the designated uses of the affected waters; distinctly visible color which may impair or interfere with the designated uses of the affected waters; and shall not cause a fish or mussel kill. The limitations and conditions in this permit for the discharges identified in this permit are limitations and conditions that are necessary to meet applicable West Virginia water quality standards, Requirements Governing Water Quality Standards 47 CSR 2.

13. Outlet Markers

A permanent marker at the establishment shall be posted in accordance with Title 47, Series 11, Section 9 of the West Virginia Legislative Rules.

14. Liabilities

a) Any person who violates a permit condition implementing sections 301, 302, 306, 307, 308, 318, or 405 of the Clean Water Act is subject to a civil penalty not to exceed $25,000 per day of such violation. Any person who willfully or negligently violates permit conditions implementing sections 301, 302, 306, 307, 308 or 405 of the Clean Water Act is subject to a fine of not less than $2,500 nor more than $25,000 per day of violation, or by imprisonment for not more than 1 year, or both.

b) Any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than $10,000 per violation, or by imprisonment for not more than 2 years, or by both.

c) Any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction, be punished by a fine of not more than $10,000 per violation, or by imprisonment for not more than 2 years, or by both.

d) Nothing in I.14 a), b), and c) shall be construed to limit or prohibit any other authority the Director may have under the State Water Pollution Control Act, Chapter 22, Article 11.

II. OPERATION AND MAINTENANCE:

1. Proper Operation and Maintenance

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls, and appropriate quality assurance procedures. Unless otherwise required by Federal or State law, this provision requires the operation of back-up auxiliary facilities or similar systems which are installed by the permittee only when the operation is necessary to achieve compliance with the conditions of the permit. For domestic waste treatment facilities, waste treatment operators as classified by the WV Bureau of Public Health Laws, W. Va. Code Chapter 16-1, will be required except that in circumstances where the domestic waste treatment facility is receiving any type of industrial waste, the Director may require a more highly skilled operator.

2. Need to Halt or Reduce Activity Not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit.

3. Bypass

a) Definitions
- (1) "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility; and
- (2) "Severe property damage" means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

b) Bypass not exceeding limitations. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provision of II.3.c) and II.3.d) of this permit.

c)
- (1) If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least ten (10) days before the date of the bypass;
- (2) If the permittee does not know in advance of the need for bypass, notice shall be submitted as required in IV.2.b) of this permit.

d) Prohibition of bypass
- (1) Bypass is permitted only under the following conditions, and the Director may take enforcement action against a permittee for a bypass, unless;
  - (A) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
  - (B) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate backup equipment should have been installed in the exercise of reasonable engineering judgement to prevent a bypass which occurred during normal periods of equipment downtime or preventative maintenance; and
  - (C) The permittee submitted notices as required under II.3.c) of this permit.
- (2) The Director may approve an anticipated bypass, after considering its adverse effects, if the Director determines that it will meet the three conditions listed in II.3.d.(1) of this permit.

4. Upset

a) Definition. "Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventative maintenance, or careless or improper operation.

b) Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with such technology-based permit effluent limitation if the requirements of II.4.c) are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.

c) Conditions necessary for a demonstration of upset. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
- (1) An upset occurred and that the permittee can identify the cause(s) of the upset;
- (2) The permitted facility was at the time being properly operated;
- (3) The permittee submitted notice of the upset as required in IV.2.b) of this permit.
- (4) The permittee complied with any remedial measures required under I.3. of this permit.

d) Burden of proof. In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof.

5. Removed Substances

Where removed substances are not otherwise covered by the terms and conditions of this permit or other existing permit by the Director, any solids, sludges, filter backwash or other pollutants (removed in the course of treatment or control of wastewaters) and which are intended for disposal within the State, shall be disposed of only in a manner and at a site subject to the approval by the Director. If such substances are intended for disposal outside the State or for reuse, i.e., as a material used for making another product, which in turn has another use, the permittee shall notify the Director in writing of the proposed disposal or use of such substances, the identity of the prospective disposer or users, and the intended place of disposal or use, as appropriate.

III. MONITORING AND REPORTING

1. Representative Sampling

Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.

2. Reporting

a) Permittee shall submit, according to the enclosed format, a Discharge Monitoring Report (DMR) indicating in terms of concentration, and/or quantities, the values of the constituents listed in Part A analytically determined to be in the plant effluent(s). DMR submissions shall be made in accordance with the terms contained in Section C of this permit.

b) Enter reported average and maximum values under "Quantity" and "Concentration" in the units specified for each parameter, as appropriate.

c) Specify the number of analyzed samples that exceed the allowable permit conditions in the columns labeled "N.E." (i.e., number exceeding).

d) Specify frequency of analysis for each parameter as number of analyses/specified period (e.g.,3/month is equivalent to 3 analyses performed every calendar month). If continuous, enter "Cont.". The frequency listed on format is the minimum required.

3. Test Procedures

Samples shall be taken, preserved and analyzed in accordance with the latest edition of 40 CFR Part 136, unless other test procedures have been specified elsewhere in this permit.

4. Recording of Results

For each measurement or sample taken pursuant to the permit, the permittee shall record the following information.

a) The date, exact place, and time of sampling or measurement;

b) The date(s) analyses were performed;

c) The individual(s) who performed the sampling or measurement;

d) The individual(s) who performed the analyses; if a commercial laboratory is used, the name and address of the laboratory;

e) The analytical techniques or methods used, and

f) The results of such analyses. Information not required by the DMR form is not to be submitted to this agency, but is to be retained as required in III.6.

5. Additional Monitoring by Permittee

If the permittee monitors any pollutant at any monitoring point specified in this permit more frequently than required by this permit, using approved test procedures or others as specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the Discharge Monitoring Report Form. Such increased frequency shall also be indicated. Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in the permit.

6. Records Retention

The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for the permit, for a period of at least three (3) years from the date of the sample, measurement, report or application. This period may be extended by request of the Director at any time.

7. Definitions

a) "Daily discharge" means the discharge of a pollutant measured during a calendar day or within any specified period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in units of mass, the daily discharge is calculated as the total mass of the pollutant discharged over the day. For pollutants with limitations expressed in other units of measurement, the daily discharge is calculated as the average measurement of the pollutant over the day.

b) "Average monthly discharge limitation" means the highest allowable average of daily discharges over a calendar month, calculated as the sum of all daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.

c) "Maximum daily discharge limitation" means the highest allowable daily discharge.

d) "Composite Sample" is a combination of individual samples obtained at regular intervals over a time period. Either the volume of each individual sample is proportional to discharge flow rates or the sampling interval (for constant volume samples) is proportional to the flow rates over the time period used to produce the composite. The maximum time period between individual samples shall be two hours.

e) "Grab Sample" is an individual sample collected in less than 15 minutes.

f) "is" = immersion stabilization - a calibrated device is immersed in the effluent stream until the reading is stabilized.

g) The "daily average temperature" means the arithmetic average of temperature measurements made on an hourly basis, or the mean value plot of the record of a continuous automated temperature recording instrument, either during a calendar month, or during the operating month if flows are of shorter duration.

h) The "daily maximum temperature" means the highest arithmetic average of the temperatures observed for any two (2) consecutive hours during a 24 hour day, or during the operating day if flows are of shorter duration.

i) The "monthly average fecal coliform" bacteria is the geometric average of all samples collected during the month.

j) "Measured Flow" means any method of liquid volume measurement, the accuracy of which has been previously demonstrated in engineering practice, or which a relationship to absolute volume has been obtained.

k) "Estimate" means to be based on a technical evaluation of the sources contributing to the discharge including, but not limited to pump capabilities, water meters and batch discharge volumes.

l) "Non-contact cooling water" means the water that is contained in a leak-free system, i.e., no contact with any gas, liquid, or solid other than the container for transport; the water shall have no net poundage addition of any pollutant over intake water levels, exclusive of approved anti-fouling agents.

IV. OTHER REPORTING

1. Reporting Spills and Accidental Discharges

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties established pursuant to Title 47, Series 11, Section 2 of the West Virginia Legislative Rules promulgated pursuant to Chapter 22, Article 11. Attached is a copy of the West Virginia Spill Alert System for use in complying with Title 47, Series 11, Section 2 of the Legislative rules as they pertain to the reporting of spills and accidental discharges.

2. Immediate Reporting

a) The permittee shall report any noncompliance which may endanger health or the environment immediately after becoming aware of the circumstances by using the Agency's designated spill alert telephone number. A written submission shall be provided within five (5) days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.

b) The following shall also be reported immediately:

(1) Any unanticipated bypass which exceeds any effluent limitation in the permit;

(2) Any upset which exceeds any effluent limitation in the permit; and

(3) Violation of a maximum daily discharge limitation for any of the pollutants listed by the Director in the permit shall be reported immediately. This list shall include any toxic pollutant or hazardous substance, or any pollutant specifically identified as the method to control a toxic pollutant or hazardous substance.

c) The Director may waive the written report on a case-by-case basis if the oral report has been received in accordance with the above.

d) Compliance with the requirements of IV.2 of this section, shall not relieve a person of compliance with Title 47, Series 11, Section 2.

3. Reporting Requirements

a) Planned changes. The permittee shall give notice to the Director of any planned physical alterations or additions to the permitted facility which may affect the nature or quantity of the discharge. Notice is required when:

(1) The alteration or addition to a permitted facility may meet one of the criteria for determining whether a facility is a new source in Section 13.7.b of Series 10, Title 47; or

(2) The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to notification requirements under IV.2 of this section.

b) Anticipated noncompliance. The permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

c) In addition to the above reporting requirements, all existing manufacturing, commercial, and silvicultural discharges must notify the Director in writing as soon as they know or have reason to believe:

(1) That any activity has occurred or will occur which would result in the discharge, on a routine or frequent basis, or any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":

(A) One hundred micrograms per liter (100 ug/l);

(B) Two hundred micrograms per liter (200 ug/l) for acrolein and acrylonitrile; five hundred micrograms per liter (500 ug/l) for 2,4-dinitro phenol; and for 2-methyl 4,6-dinitrophenol; and one milligram per liter (1 mg/l) for antimony;

(C) Five (5) times the maximum concentration value reported for that pollutant in the permit application in accordance with Section 4.4.b.9 of Series10, Title 47.

(D) The level established by the Director in accordance with Section 6.3.g of Series 10, Title 47;

(2) That any activity has occurred or will occur which would result in any discharge (on a non-routine or infrequent basis) of a toxic which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels":

(A) Five hundred micrograms per liter (500 ug/l);

(B) One milligram per liter (1 mg/l) for antimony;

(C) Ten (10) times the maximum concentration value reported for that pollutant in the permit application in accordance with Section 4.4.b.7 of Series 10, Title 47;

(D) The level established by the Director in accordance with Section 6.3.g of Series 10, Title 47.

(3) That they have begun or expect to begin to use or manufacture as an intermediate or final product or by-product of any toxic pollutant which was not reported in the permit application under Section 4.4.b.9 of Series 10, Title 47 and which will result in the discharge on a routine or frequent basis of that toxic pollutant at levels which exceed five times the detection limit for that pollutant under approved analytical procedure.

(4) That they have begun or expect to begin to use or manufacture as an intermediate or final product or by-product of any toxic pollutant which was not reported in the permit application under Section 4.4.b.9 of Series 10, Title 47 and which will result in the discharge on a non-routine or infrequent basis of that toxic pollutant at levels which exceed ten times the detection limit for that pollutant under approved analytical procedure.

4. Other Noncompliance

The permittee shall report all instances of noncompliance not reported under the above paragraphs at the time monitoring reports are submitted. The reports shall contain the information listed in IV.2.a). Should other applicable noncompliance reporting be required, these terms and conditions will be found in Section C of this permit.

WRD 2A-82

Permit Limits

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (WASHINGTON WORKS) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 001
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N E				CEL*	Units	N.E		
50050 (ML-1) RF-A Flow,in Conduit or thru plant Year Round	Reported								N/A	mgd		1/month	measured
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily					
00530 (ML-1) RF-A Total Suspended Solids Year Round	Reported								N/A	mg/l		1/month	24 hr Composite
	Permit Limits	Rpt Only Avg. Monthly	Rpt Only Max. Daily	Lbs/Day		N/A	34 Avg. Monthly	59 Max. Daily					
00400 (ML-1) RF-A pH Year Round	Reported								N/A	S.U.		1/month	Grab
	Permit Limits	N/A	N/A			6 Inst. Min.	N/A	9 Inst. Max.					
50060 (ML-1) RF-A Chlorine, Total Residual Year Round	Reported								0.1	mg/l		1/month	Grab
	Permit Limits	N/A	N/A			N/A	0.028 Avg. Monthly	0.057 Max. Daily					
01114 (ML-1) RF-B Lead, Total Recoverable Year Round	Reported								N/A	mg/l		1/quarter	24 hr Composite
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
01094 (ML-1) RF-A Zinc, Total Recoverable Year Round	Reported								N/A	mg/l		1/month	24 hr Composite
	Permit Limits	Rpt Only Avg. Monthly	Rpt Only Max. Daily	Lbs/Day		N/A	0.146 Avg. Monthly	0.371 Max. Daily					

* CEL = Compliance Evaluation Level

Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00095

WRD 2A-82

Permit Limits

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (WASHINGTON WORKS) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 001
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
71900 (ML-1) RF-B Mercury, Total (as Hg) Year Round	Reported								N/A	ug/l		1/quarter	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
01104 (ML-1) RF-B Aluminum, Total Recoverable Year Round	Reported			Lbs/Day					N/A	mg/l		1/quarter	24 hr Composite
	Permit Limits	Rpt Only Avg. Monthly	Rpt Only Max. Daily			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00980 (ML-1) RF-B Iron, Total Recoverable Year Round	Reported			Lbs/Day					N/A	mg/l		1/quarter	24 hr Composite
	Permit Limits	Rpt Only Avg. Monthly	Rpt Only Max. Daily			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
61425 (ML-1) RF-C Acute Tox - Ceriodaphnia Dubia Year Round	Reported								N/A	TUa		1/6 months	24 hr Composite
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
61427 (ML-1) RF-C Acute Toxicity - Pimephales Year Round	Reported								N/A	TUa		1/6 months	24 hr Composite
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00981 (ML-1) RF-B Selenium, Total Recoverable Year Round	Reported								N/A	mg/l		1/quarter	24 hr Composite
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					

* CEL = Compliance Evaluation Level

Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

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WRD 2A-82

Permit Limits

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (WASHINGTON WORKS) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 001
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
00978 (ML-1) RF-B Arsenic, Total Recoverable Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/quarter	24 hr Composite
01097 (ML-1) RF-B Antimony, Total (as Sb) Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/quarter	24 hr Composite
32730 (ML-1) RF-B Phenolics, Total Recoverable Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/quarter	24 hr Composite
00011 (ML-7) RF-A Temperature, F Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	DEG.F		1/month	Insitu
00011 (ML-1) RF-A Temperature, F Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	DEG.F		1/month	Insitu
00680 (ML-1) RF-A Total Organic Carbon Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	8 Avg. Monthly	13 Max. Daily	N/A	mg/l		1/month	24 hr Composite

* CEL = Compliance Evaluation Level

Name of Principal Executive Officer

Title of Officer

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.

Date Completed

Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00097

WRD 2A-82

Permit Limits

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (WASHINGTON WORKS) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 001
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E				CEL*	Units	N.E.		
01059 (ML-1) RF-B	Reported												
Thallium, Total (as Tl)	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/quarter	24 hr Composite
Year Round													
51065 (ML-1) RF-A	Reported												
PFOA	Permit Limits	Rpt Only Avg. Monthly	Rpt Only Max. Daily	Lbs/Day		N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	ug/l		1/month	24 hr Composite
Year Round Interim (Initial 36 months)													
51065 (ML-1) RF-A	Reported												
PFOA	Permit Limits	Rpt Only Avg. Monthly	Rpt Only Max. Daily	Lbs/Day		N/A	2 Avg. Monthly	7.3 Max. Daily	N/A	ug/l		1/month	24 hr Composite
Year Round													
51715 (ML-1) RF-A	Reported												
HFPO Dimer Acid	Permit Limits	Rpt Only Avg. Monthly	Rpt Only Max. Daily	Lbs/Day		N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	ug/l		1/month	24 hr Composite
Year Round Interim (Initial 36 months)													
51715 (ML-1) RF-A	Reported												
HFPO Dimer Acid	Permit Limits	Rpt Only Avg. Monthly	Rpt Only Max. Daily	Lbs/Day		N/A	1.4 Avg. Monthly	2 Max. Daily	N/A	ug/l		1/month	24 hr Composite
Year Round													

* CEL = Compliance Evaluation Level

Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00098

WRD 2A-82

Permit Limits

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (WASHINGTON WORKS) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 002
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N E				CEL*	Units	N.E.		
50050 (ML-1) RF-A Flow,in Conduit or thru plant Year Round	Reported								N/A	mgd		1/week	measured
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00310 (ML-1) RF-A BOD, 5-Day 20 Deg.C Year Round	Reported			Lbs/Day					N/A	mg/l		1/week	24 hr Composite
	Permit Limits	364 Avg. Monthly	970 Max. Daily			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00530 (ML-2) RF-A Total Suspended Solids Year Round	Reported			Lbs/Day					N/A	mg/l		1/week	Calculated
	Permit Limits	612 Avg. Monthly	1988 Max. Daily			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00530 (ML-1) RF-A Total Suspended Solids Year Round	Reported			Lbs/Day					N/A	mg/l		1/week	24 hr Composite
	Permit Limits	Rpt Only Avg. Monthly	Rpt Only Max. Daily			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
74055 (ML-1) RF-A Coliform, Fecal Year Round	Reported								N/A	Cnts/100m		1/month	Grab
	Permit Limits	N/A	N/A			N/A	200 Mon. Geo. Mean	400 Max. Daily					
00400 (ML-1) RF-A pH Year Round	Reported								N/A	S.U.		Continuous	Recorded
	Permit Limits	N/A	N/A			6 Inst. Min.	N/A	9 Inst. Max.					

* CEL = Compliance Evaluation Level

Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00099

WRD 2A-82

Permit Limits

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (WASHINGTON WORKS) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 002
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
00610 (ML-1) RF-A Ammonia Nitrogen Year Round Interim (Initial 36 months)	Reported			Lbs/Day					N/A	mg/l		1/week	24 hr Composite
	Permit Limits	Rpt Only Avg. Monthly	Rpt Only Max. Daily			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00610 (ML-1) RF-A Ammonia Nitrogen Year Round	Reported			Lbs/Day					N/A	mg/l		1/week	24 hr Composite
	Permit Limits	Rpt Only Avg. Monthly	Rpt Only Max. Daily			N/A	3.2 Avg. Monthly	5.4 Max. Daily					
00620 (ML-1) RF-B Nitrogen Nitrate Year Round	Reported								N/A	mg/l		1/quarter	24 hr Composite
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00600 (ML-1) RF-D Nitrogen, Total (as N) Year Round	Reported			Lbs/Day					N/A	mg/l		1/year	24 hr Composite
	Permit Limits	Rpt Only Avg. Monthly	Rpt Only Max. Daily			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00665 (ML-1) RF-D Phosphorus, Total Year Round	Reported			Lbs/Day					N/A	mg/l		1/year	24 hr Composite
	Permit Limits	Rpt Only Avg. Monthly	Rpt Only Max. Daily			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
50060 (ML-1) RF-A Chlorine, Total Residual Year Round	Reported								0.1	mg/l		1/week	Grab
	Permit Limits	N/A	N/A			N/A	0.028 Avg. Monthly	0.057 Max. Daily					

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Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00100

WRD 2A-82

Permit Limits

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (WASHINGTON WORKS) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 002
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
01119 (ML-1) RF-B Copper, Total Recoverable Year Round	Reported								N/A	mg/l		1/quarter	24 hr Composite
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
01094 (ML-1) RF-A Zinc, Total Recoverable Year Round	Reported								N/A	mg/l		1/month	24 hr Composite
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
71900 (ML-1) RF-B Mercury, Total (as Hg) Year Round	Reported								N/A	ug/l		1/quarter	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
01104 (ML-1) RF-B Aluminum, Total Recoverable Year Round	Reported								N/A	mg/l		1/quarter	24 hr Composite
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00980 (ML-1) RF-B Iron, Total Recoverable Year Round	Reported								N/A	mg/l		1/quarter	24 hr Composite
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00940 (ML-1) RF-B Chloride (as Cl) Year Round	Reported								N/A	mg/l		1/quarter	24 hr Composite
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					

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Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00101

WRD 2A-82

Permit Limits

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (WASHINGTON WORKS) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 002
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
61425 (ML-1) RF-B Acute Tox - Ceriodaphnia Dubia Year Round	Reported								N/A	TUa		1/quarter	24 hr Composite
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
61427 (ML-1) RF-B Acute Toxicity - Pimephales Year Round	Reported								N/A	TUa		1/quarter	24 hr Composite
	Permit Limits	N/A	N/A			N/A	Rpt Only Max. Daily	Rpt Only Max. Daily					
34423 (ML-1) RF-A Methylene Chloride Year Round	Reported			Lbs/Day					N/A	ug/l		1/month	Grab
	Permit Limits	0.55 Avg. Monthly	2.6 Max. Daily			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
82581 (ML-1) RF-A pH, No. of Excursions >60 min. Year Round	Reported			Ocur/Mon					N/A			Continuous	Continuous
	Permit Limits	N/A	0 Max. Daily			N/A	N/A	N/A					
82582 (ML-1) RF-A pH Excursions Total Time Year Round	Reported								N/A	Minutes		Continuous	Continuous
	Permit Limits	N/A	N/A			N/A	N/A	446 Monthly Total					
39180 (ML-1) RF-B Trichloroethylene Year Round	Reported			Lbs/Day					N/A	ug/l		1/quarter	Grab
	Permit Limits	0.4 Avg. Monthly	1.1 Max. Daily			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					

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Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00102

WRD 2A-82

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

Permit Limits

FACILITY NAME: (WASHINGTON WORKS) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 002
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E				CEL*	Units	N.E.		
34418 (ML-1) RF-A Methyl Chloride Year Round	Reported			Lbs/Day		N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	ug/l		1/month	Grab
	Permit Limits	1.7 Avg. Monthly	4.5 Max. Daily										
01051 (ML-1) RF-B Lead, Total (as Pb) Year Round	Reported					N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/quarter	24 hr Composite
	Permit Limits	N/A	N/A										
79531 (ML-1) RF-B 3,4 Benzofluoranthene Year Round	Reported			Lbs/Day		N/A	0.0038 Avg. Monthly	0.0055 Max. Daily	N/A	ug/l		1/quarter	24 hr Composite
	Permit Limits	0.31 Avg. Monthly	0.74 Max. Daily										
00981 (ML-1) RF-B Selenium, Total Recoverable Year Round	Reported					N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/quarter	24 hr Composite
	Permit Limits	N/A	N/A										
00978 (ML-1) RF-B Arsenic, Total Recoverable Year Round	Reported					N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/quarter	24 hr Composite
	Permit Limits	N/A	N/A										
34010 (ML-1) RF-A Toluene Year Round	Reported			Lbs/Day		N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/month	Grab
	Permit Limits	0.43 Avg. Monthly	1.1 Max. Daily										

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Name of Principal Executive Officer

Title of Officer

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Date Completed

Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00103

WRD 2A-82

Permit Limits

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (WASHINGTON WORKS) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 002
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
01097 (ML-1) RF-B Antimony, Total (as Sb) Year Round	Reported								N/A	mg/l		1/quarter	24 hr Composite
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
32730 (ML-1) RF-B Phenolics, Total Recoverable Year Round	Reported								N/A	ug/l		1/quarter	24 hr Composite
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00680 (ML-1) RF-A Total Organic Carbon Year Round	Reported								N/A	mg/l		1/month	24 hr Composite
	Permit Limits	N/A	N/A			N/A	5.9 Avg. Monthly	7.9 Max. Daily					
32106 (ML-1) RF-A Chloroform Year Round	Reported			Lbs/Day					N/A	ug/l		1/month	Grab
	Permit Limits	1.7 Avg. Monthly	5 Max. Daily			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
81020 (ML-1) RF-A Sulfate Year Round	Reported								N/A	mg/l		1/month	24 hr Composite
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
01059 (ML-1) RF-B Thallium, Total (as Tl) Year Round	Reported								N/A	mg/l		1/quarter	24 hr Composite
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					

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Name of Principal Executive Officer

Title of Officer

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Date Completed

Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00104

WRD 2A-82

Permit Limits

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (WASHINGTON WORKS) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 002
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
51065 (ML-1) RF-A PFOA Year Round Interim (Initial 36 months)	Reported			Lbs/Day		N/A	18 Avg. Monthly	18 Max. Daily	N/A	ug/l		1/week	24 hr Composite
	Permit Limits	Rpt Only Avg. Monthly	Rpt Only Max. Daily										
51065 (ML-1) RF-A PFOA Year Round	Reported			Lbs/Day		N/A	2 Avg. Monthly	3.3 Max. Daily	N/A	ug/l		1/week	24 hr Composite
	Permit Limits	Rpt Only Avg. Monthly	Rpt Only Max. Daily										
51715 (ML-1) RF-A HFPO Dimer Acid Year Round Interim (Initial 36 months)	Reported			Lbs/Day		N/A	9 Avg. Monthly	32 Max. Daily	N/A	ug/l		1/week	24 hr Composite
	Permit Limits	Rpt Only Avg. Monthly	Rpt Only Max. Daily										
51715 (ML-1) RF-A HFPO Dimer Acid Year Round	Reported			Lbs/Day		N/A	1.4 Avg. Monthly	2.3 Max. Daily	N/A	ug/l		1/week	24 hr Composite
	Permit Limits	Rpt Only Avg. Monthly	Rpt Only Max. Daily										

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Title of Officer		Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00105

WRD 2A-82

Permit Limits

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (WASHINGTON WORKS) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 003
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E				CEL*	Units	N.E.		
50050 (ML-1) RF-A Flow,in Conduit or thru plant Year Round	Reported								N/A	mgd		1/month	measured
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00530 (ML-1) RF-A Total Suspended Solids Year Round	Reported			Lbs/Day					N/A	mg/l		1/month	24 hr Composite
	Permit Limits	Rpt Only Avg. Monthly	Rpt Only Max. Daily			N/A	267 Avg. Monthly	382 Max. Daily					
00400 (ML-1) RF-A pH Year Round	Reported								N/A	S.U.		1/month	Grab
	Permit Limits	N/A	N/A			6 Inst. Min.	N/A	9 Inst. Max.					
00610 (ML-1) RF-B Ammonia Nitrogen Year Round	Reported								N/A	mg/l		1/quarter	24 hr Composite
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
50060 (ML-1) RF-A Chlorine, Total Residual Year Round	Reported								0.1	mg/l		1/month	Grab
	Permit Limits	N/A	N/A			N/A	0.028 Avg. Monthly	0.057 Max. Daily					
01119 (ML-1) RF-B Copper, Total Recoverable Year Round	Reported								N/A	mg/l		1/quarter	24 hr Composite
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					

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Title of Officer		Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00106

WRD 2A-82

Permit Limits

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (WASHINGTON WORKS) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 003
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
01114 (ML-1) RF-B Lead, Total Recoverable Year Round	Reported								N/A	mg/l		1/quarter	24 hr Composite
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
71900 (ML-1) RF-B Mercury, Total (as Hg) Year Round	Reported								N/A	ug/l		1/quarter	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
01104 (ML-1) RF-B Aluminum, Total Recoverable Year Round	Reported								N/A	mg/l		1/quarter	24 hr Composite
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00980 (ML-1) RF-B Iron, Total Recoverable Year Round	Reported								N/A	mg/l		1/quarter	24 hr Composite
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
61425 (ML-1) RF-C Acute Tox - Ceriodaphnia Dubia Year Round	Reported								N/A	TUa		1/6 months	24 hr Composite
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
61427 (ML-1) RF-C Acute Toxicity - Pimephales Year Round	Reported								N/A	TUa		1/6 months	24 hr Composite
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					

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Title of Officer		Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00107

WRD 2A-82

Permit Limits

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (WASHINGTON WORKS) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 003
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E		
00981 (ML-1) RF-B Selenium, Total Recoverable Year Round	Reported								N/A	mg/l		1/quarter	24 hr Composite
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00978 (ML-1) RF-B Arsenic, Total Recoverable Year Round	Reported								N/A	mg/l		1/quarter	24 hr Composite
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
01097 (ML-1) RF-B Antimony, Total (as Sb) Year Round	Reported								N/A	mg/l		1/quarter	24 hr Composite
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
32730 (ML-1) RF-B Phenolics, Total Recoverable Year Round	Reported								N/A	mg/l		1/quarter	24 hr Composite
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00011 (ML-7) RF-A Temperature, F Year Round	Reported								N/A	DEG.F		1/month	Insitu
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00011 (ML-1) RF-A Temperature, F January 1-31	Reported								N/A	DEG.F		1/month	Insitu
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					

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Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00108

WRD 2A-82

Permit Limits

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (WASHINGTON WORKS) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 003
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
00011 (ML-1) RF-A Temperature, F February 1-28	Reported								N/A	DEG.F		1/month	Insitu
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00011 (ML-1) RF-A Temperature, F March 1-31	Reported								N/A	DEG.F		1/month	Insitu
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00011 (ML-1) RF-A Temperature, F April 1-30	Reported								N/A	DEG.F		1/month	Insitu
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00011 (ML-1) RF-A Temperature, F May 1-31	Reported								N/A	DEG.F		1/month	Insitu
	Permit Limits	N/A	N/A			N/A	78 Avg. Monthly	90 Max. Daily					
00011 (ML-1) RF-A Temperature, F June 1-30	Reported								N/A	DEG.F		1/month	Insitu
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00011 (ML-1) RF-A Temperature, F July 1-31	Reported								N/A	DEG.F		1/month	Insitu
	Permit Limits	N/A	N/A			N/A	101 Avg. Monthly	110 Max. Daily					

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Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00109

WRD 2A-82

Permit Limits

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (WASHINGTON WORKS) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 003
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
00011 (ML-1) RF-A Temperature, F August 1-31	Reported								N/A	DEG F		1/month	Insitu
	Permit Limits	N/A	N/A			N/A	98 Avg. Monthly	110 Max. Daily					
00011 (ML-1) RF-A Temperature, F September 1-30	Reported								N/A	DEG.F		1/month	Insitu
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00011 (ML-1) RF-A Temperature, F October 1-31	Reported								N/A	DEG F		1/month	Insitu
	Permit Limits	N/A	N/A			N/A	81 Avg. Monthly	93 Max. Daily					
00011 (ML-1) RF-A Temperature, F November 1-30	Reported								N/A	DEG.F		1/month	Insitu
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00011 (ML-1) RF-A Temperature, F December 1-31	Reported								N/A	DEG F		1/month	Insitu
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00680 (ML-1) RF-A Total Organic Carbon Year Round	Reported								N/A	mg/l		1/month	24 hr Composite
	Permit Limits	N/A	N/A			N/A	5.7 Avg. Monthly	8 Max. Daily					

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Title of Officer		Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00110

WRD 2A-82

Permit Limits

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (WASHINGTON WORKS) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 003
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
01059 (ML-1) RF-B	Reported												
Thallium, Total (as Tl)	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/quarter	24 hr Composite
Year Round													
51065 (ML-1) RF-A	Reported												
PFOA	Permit Limits	Rpt Only Avg. Monthly	Rpt Only Max. Daily	Lbs/Day		N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	ug/l		1/month	24 hr Composite
Year Round													
Interim (Initial 36 months)													
51065 (ML-1) RF-A	Reported												
PFOA	Permit Limits	Rpt Only Avg. Monthly	Rpt Only Max. Daily	Lbs/Day		N/A	2 Avg. Monthly	2.8 Max. Daily	N/A	ug/l		1/month	24 hr Composite
Year Round													
51715 (ML-1) RF-A	Reported												
HFPO Dimer Acid	Permit Limits	Rpt Only Avg. Monthly	Rpt Only Max. Daily	Lbs/Day		N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	ug/l		1/month	24 hr Composite
Year Round													

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Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00111

WRD 2A-82

Permit Limits

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (WASHINGTON WORKS) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 005
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
50050 (ML-1) RF-A Flow,in Conduit or thru plant Year Round	Reported								N/A	mgd		1/week	measured
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
74055 (ML-1) RF-B Coliform, Fecal Year Round	Reported								N/A	Cnts/100m		1/quarter	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Mon. Geo. Mean	Rpt Only Max. Daily					
00400 (ML-1) RF-A pH Year Round	Reported								N/A	S U		1/daily	Grab
	Permit Limits	N/A	N/A			6 Inst. Min	N/A	9 Inst. Max					
00610 (ML-1) RF-B Ammonia Nitrogen Year Round	Reported								N/A	mg/l		1/quarter	24 hr Composite
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00620 (ML-1) RF-B Nitrogen Nitrate Year Round	Reported								N/A	mg/l		1/quarter	24 hr Composite
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00600 (ML-1) RF-D Nitrogen, Total (as N) Year Round	Reported								N/A	mg/l		1/year	24 hr Composite
	Permit Limits	Rpt Only Avg. Monthly	Rpt Only Max. Daily	Lbs/Day		N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					

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Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00112

WRD 2A-82

Permit Limits

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (WASHINGTON WORKS) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 005
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
00665 (ML-1) RF-D Phosphorus, Total Year Round	Reported			Lbs/Day					N/A	mg/l		1/year	24 hr Composite
	Permit Limits	Rpt Only Avg. Monthly	Rpt Only Max. Daily			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
50060 (ML-1) RF-A Chlorine, Total Residual Year Round	Reported								0.1	mg/l		1/week	Grab
	Permit Limits	N/A	N/A			N/A	0.028 Avg. Monthly	0.057 Max. Daily					
01119 (ML-1) RF-B Copper, Total Recoverable Year Round	Reported								N/A	mg/l		1/quarter	24 hr Composite
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
01114 (ML-1) RF-B Lead, Total Recoverable Year Round	Reported								N/A	mg/l		1/quarter	24 hr Composite
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
01094 (ML-1) RF-B Zinc, Total Recoverable Year Round	Reported								N/A	mg/l		1/quarter	24 hr Composite
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
71900 (ML-1) RF-B Mercury, Total (as Hg) Year Round	Reported								N/A	ug/l		1/quarter	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					

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Title of Officer		Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00113

WRD 2A-82

Permit Limits

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (WASHINGTON WORKS) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 005
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E		
01104 (ML-1) RF-B Aluminum, Total Recoverable Year Round	Reported								N/A	mg/l		1/quarter	24 hr Composite
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00960 (ML-1) RF-B Iron, Total Recoverable Year Round	Reported								N/A	mg/l		1/quarter	24 hr Composite
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
61426 (ML-1) RF-B Chronic Tox-Cenodaphnia Dubia Year Round	Reported								N/A	TUc		1/quarter	24 hr Composite
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
61428 (ML-1) RF-B Chronic Toxicity - Pimephales Year Round	Reported								N/A	TUc		1/quarter	24 hr Composite
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
34423 (ML-1) RF-B Methylene Chloride Year Round	Reported								N/A	ug/l		1/quarter	Grab
	Permit Limits	2.3 Avg. Monthly	7.8 Max. Daily	Lbs/Day		N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
39180 (ML-1) RF-B Trichloroethylene Year Round	Reported								N/A	ug/l		1/quarter	Grab
	Permit Limits	1.4 Avg. Monthly	3.7 Max. Daily	Lbs/Day		N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					

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Title of Officer		Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00114

WRD 2A-82

Permit Limits

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (WASHINGTON WORKS) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 005
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N E				CEL*	Units	N.E.		
34418 (ML-1) RF-B Methyl Chloride Year Round	Reported			Lbs/Day		N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	ug/l		1/quarter	Grab
	Permit Limits	5.9 Avg. Monthly	14.6 Max. Daily										
79531 (ML-1) RF-B 3,4 Benzofluoranthene Year Round	Reported			Lbs/Day		N/A	0.0038 Avg. Monthly	0.0055 Max. Daily	N/A	ug/l		1/quarter	24 hr Composite
	Permit Limits	1.3 Avg. Monthly	3.3 Max. Daily										
00981 (ML-1) RF-B Selenium, Total Recoverable Year Round	Reported					N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/quarter	24 hr Composite
	Permit Limits	N/A	N/A										
00978 (ML-1) RF-B Arsenic, Total Recoverable Year Round	Reported					N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/quarter	24 hr Composite
	Permit Limits	N/A	N/A										
34010 (ML-1) RF-B Toluene Year Round	Reported			Lbs/Day		N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	ug/l		1/quarter	Grab
	Permit Limits	1.6 Avg. Monthly	4.6 Max. Daily										
01097 (ML-1) RF-B Antimony, Total (as Sb) Year Round	Reported					N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/quarter	24 hr Composite
	Permit Limits	N/A	N/A										

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Title of Officer		Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00115

WRD 2A-82

Permit Limits

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (WASHINGTON WORKS) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 005
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
32730 (ML-1) RF-B Phenolics, Total Recoverable Year Round	Reported								N/A	mg/l		1/quarter	24 hr Composite
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00011 (ML-1) RF-A Temperature, F Year Round	Reported								N/A	DEG.F		1/month	Insitu
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00011 (ML-7) RF-A Temperature, F Year Round	Reported								N/A	DEG.F		1/month	Insitu
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00680 (ML-1) RF-A Total Organic Carbon Year Round	Reported								N/A	mg/l		1/month	24 hr Composite
	Permit Limits	Rpt Only Avg. Monthly	Rpt Only Max. Daily	Lbs/Day		N/A	6.5 Avg. Monthly	9.1 Max. Daily					
32106 (ML-1) RF-A Chloroform Year Round	Reported								N/A	ug/l		1/month	Grab
	Permit Limits	4 Avg. Monthly	11.3 Max. Daily	Lbs/Day		N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
01059 (ML-1) RF-B Thallium, Total (as Tl) Year Round	Reported								N/A	mg/l		1/quarter	24 hr Composite
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					

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Title of Officer		Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00116

WRD 2A-82

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

Permit Limits

FACILITY NAME: (WASHINGTON WORKS) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 005
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
51065 (ML-1) RF-A PFOA Year Round Interim (Initial 36 months)	Reported			Lbs/Day					N/A	ug/l		1/week	24 hr Composite
	Permit Limits	Rpt Only Avg. Monthly	Rpt Only Max. Daily			N/A	2 Avg. Monthly	2 Max. Daily					
51065 (ML-1) RF-A PFOA Year Round	Reported			Lbs/Day					N/A	ug/l		1/week	24 hr Composite
	Permit Limits	Rpt Only Avg. Monthly	Rpt Only Max. Daily			N/A	0.3 Avg. Monthly	0.7 Max. Daily					
51715 (ML-1) RF-A HFPO Dimer Acid Year Round Interim (Initial 36 months)	Reported			Lbs/Day					N/A	ug/l		1/week	24 hr Composite
	Permit Limits	Rpt Only Avg. Monthly	Rpt Only Max. Daily			N/A	15 Avg. Monthly	43 Max. Daily					
51715 (ML-1) RF-A HFPO Dimer Acid Year Round	Reported			Lbs/Day					N/A	ug/l		1/week	24 hr Composite
	Permit Limits	Rpt Only Avg. Monthly	Rpt Only Max. Daily			N/A	1.1 Avg. Monthly	2.3 Max. Daily					

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Title of Officer		Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00117

WRD 2A-82

Permit Limits

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (WASHINGTON WORKS) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 006
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E				CEL*	Units	N.E		
50050 (ML-1) RF-A Flow,in Conduit or thru plant Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	N/A	Rpt Only Max. Daily	N/A	mgd		1/month	Estimated
00530 (ML-1) RF-A Total Suspended Solids Year Round	Reported												
	Permit Limits	Rpt Only Avg. Monthly	Rpt Only Max. Daily	Lbs/Day		N/A	118 Avg. Monthly	189 Max. Daily	N/A	mg/l		1/month	24 hr Composite
00400 (ML-1) RF-A pH Year Round	Reported												
	Permit Limits	N/A	N/A			6 Inst. Min.	N/A	9 Inst. Max.	N/A	S.U.		1/month	Grab
50060 (ML-1) RF-A Chlorine, Total Residual Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	0.028 Avg. Monthly	0.057 Max. Daily	0.1	mg/l		1/month	Grab
01119 (ML-1) RF-B Copper, Total Recoverable Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/quarter	24 hr Composite
01114 (ML-1) RF-B Lead, Total Recoverable Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/quarter	24 hr Composite

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Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00118

WRD 2A-82

Permit Limits

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (WASHINGTON WORKS) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 006
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E				CEL*	Units	N.E.		
01094 (ML-1) RF-B Zinc, Total Recoverable Year Round	Reported								N/A	mg/l		1/quarter	24 hr Composite
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
71900 (ML-1) RF-B Mercury, Total (as Hg) Year Round	Reported								N/A	ug/l		1/quarter	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00981 (ML-1) RF-B Selenium, Total Recoverable Year Round	Reported								N/A	mg/l		1/quarter	24 hr Composite
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00978 (ML-1) RF-B Arsenic, Total Recoverable Year Round	Reported								N/A	mg/l		1/quarter	24 hr Composite
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
01097 (ML-1) RF-B Antimony, Total (as Sb) Year Round	Reported								N/A	mg/l		1/quarter	24 hr Composite
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
32730 (ML-1) RF-B Phenolics, Total Recoverable Year Round	Reported								N/A	mg/l		1/quarter	24 hr Composite
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					

* CEL = Compliance Evaluation Level

Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00119

WRD 2A-82

Permit Limits

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (WASHINGTON WORKS) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 006
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E				CEL*	Units	N.E		
00011 (ML-7) RF-A Temperature, F Year Round	Reported								N/A	DEG F		1/month	Insitu
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00011 (ML-1) RF-A Temperature, F Year Round	Reported								N/A	DEG.F		1/month	Insitu
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00680 (ML-1) RF-B Total Organic Carbon Year Round	Reported								N/A	mg/l		1/quarter	24 hr Composite
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
81020 (ML-1) RF-B Sulfate Year Round	Reported								N/A	mg/l		1/quarter	24 hr Composite
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
01059 (ML-1) RF-B Thallium, Total (as Tl) Year Round	Reported								N/A	mg/l		1/quarter	24 hr Composite
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
51065 (ML-1) RF-A PFOA Year Round	Reported			Lbs/Day					N/A	ug/l		1/month	24 hr Composite
	Permit Limits	Rpt Only Avg. Monthly	Rpt Only Max. Daily			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					

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Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00120

WRD 2A-82

Permit Limits

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (WASHINGTON WORKS) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 006
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
51715 (ML-1) RF-A HFPO Dimer Acid Year Round Interim (Initial 36 months)	Reported			Lbs/Day					N/A	ug/l		1/month	24 hr Composite
	Permit Limits	Rpt Only Avg. Monthly	Rpt Only Max. Daily			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
51715 (ML-1) RF-A HFPO Dimer Acid Year Round	Reported			Lbs/Day					N/A	ug/l		1/month	24 hr Composite
	Permit Limits	Rpt Only Avg. Monthly	Rpt Only Max. Daily			N/A	0.014 Avg. Monthly	0.0204 Max. Daily					

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Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00121

WRD 2A-82

Permit Limits

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (WASHINGTON WORKS) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 007
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N E				CEL*	Units	N.E.		
50050 (ML-1) RF-A Flow,in Conduit or thru plant Year Round	Reported								N/A	mgd		1/month	Estimated
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00530 (ML-1) RF-A Total Suspended Solids Year Round	Reported								N/A	mg/l		1/month	24 hr Composite
	Permit Limits	Rpt Only Avg. Monthly	Rpt Only Max. Daily	Lbs/Day		N/A	165 Avg. Monthly	256 Max. Daily					
74055 (ML-1) RF-B Coliform, Fecal Year Round	Reported								N/A	Cnts/100m		1/quarter	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Mon. Geo. Mean	Rpt Only Max. Daily					
00400 (ML-1) RF-A pH Year Round	Reported								N/A	S.U.		1/month	Grab
	Permit Limits	N/A	N/A			6 Inst. Min.	N/A	9 Max. Daily					
00610 (ML-1) RF-B Ammonia Nitrogen Year Round	Reported								N/A	mg/l		1/quarter	24 hr Composite
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
50060 (ML-1) RF-A Chlorine, Total Residual Year Round	Reported								0.1	mg/l		1/month	Grab
	Permit Limits	N/A	N/A			N/A	0.028 Avg. Monthly	0.057 Max. Daily					

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Name of Principal Executive Officer

Title of Officer

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Date Completed

Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00122

WRD 2A-82

Permit Limits

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (WASHINGTON WORKS) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 007
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
01114 (ML-1) RF-B Lead, Total Recoverable Year Round	Reported								N/A	mg/l		1/quarter	24 hr Composite
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
01094 (ML-1) RF-B Zinc, Total Recoverable Year Round	Reported								N/A	mg/l		1/quarter	24 hr Composite
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
71900 (ML-1) RF-B Mercury, Total (as Hg) Year Round	Reported								N/A	ug/l		1/quarter	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
01104 (ML-1) RF-B Aluminum, Total Recoverable Year Round	Reported								N/A	mg/l		1/quarter	24 hr Composite
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00980 (ML-1) RF-B Iron, Total Recoverable Year Round	Reported								N/A	mg/l		1/quarter	24 hr Composite
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00981 (ML-1) RF-B Selenium, Total Recoverable Year Round	Reported								N/A	mg/l		1/quarter	24 hr Composite
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					

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Name of Principal Executive Officer

Title of Officer

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Date Completed

Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00123

WRD 2A-82

Permit Limits

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (WASHINGTON WORKS) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 007
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
00978 (ML-1) RF-B Arsenic, Total Recoverable Year Round	Reported								N/A	mg/l		1/quarter	24 hr Composite
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
01097 (ML-1) RF-B Antimony, Total (as Sb) Year Round	Reported								N/A	mg/l		1/quarter	24 hr Composite
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
38677 (ML-1) RF-B Bromomethane Year Round	Reported								N/A	mg/l		1/quarter	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
32104 (ML-1) RF-B Bromoform Year Round	Reported								N/A	mg/l		1/quarter	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
32730 (ML-1) RF-B Phenolics, Total Recoverable Year Round	Reported								N/A	mg/l		1/quarter	24 hr Composite
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00011 (ML-7) RF-A Temperature, F Year Round	Reported								N/A	DEG.F		1/month	Insitu
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					

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Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00124

WRD 2A-82

Permit Limits

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (WASHINGTON WORKS) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 007
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E				CEL*	Units	N.E.		
00011 (ML-1) RF-A Temperature, F January 1-31	Reported								N/A	DEG F		1/month	Insitu
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00011 (ML-1) RF-A Temperature, F February 1-28	Reported								N/A	DEG.F		1/month	Insitu
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00011 (ML-1) RF-A Temperature, F March 1-31	Reported								N/A	DEG.F		1/month	Insitu
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00011 (ML-1) RF-A Temperature, F April 1-30	Reported								N/A	DEG.F		1/month	Insitu
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00011 (ML-1) RF-A Temperature, F May 1-31 Interim (Initial 36 months)	Reported								N/A	DEG.F		1/month	Insitu
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00011 (ML-1) RF-A Temperature, F May 1-31	Reported								N/A	DEG.F		1/month	Insitu
	Permit Limits	N/A	N/A			N/A	78 Avg. Monthly	90 Max. Daily					

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Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00125

WRD 2A-82

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

Permit Limits

FACILITY NAME: (WASHINGTON WORKS) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 007
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
00011 (ML-1) RF-A Temperature, F June 1-30	Reported								N/A	DEG.F		1/month	Insitu
	Permit Limits	N/A	N/A			N/A	97 Avg. Monthly	110 Max. Daily					
00011 (ML-1) RF-A Temperature, F July 1-31	Reported								N/A	DEG.F		1/month	Insitu
	Permit Limits	N/A	N/A			N/A	101 Avg. Monthly	110 Max. Daily					
00011 (ML-1) RF-A Temperature, F August 1-31	Reported								N/A	DEG F		1/month	Insitu
	Permit Limits	N/A	N/A			N/A	98 Avg. Monthly	110 Max. Daily					
00011 (ML-1) RF-A Temperature, F September 1-30	Reported								N/A	DEG.F		1/month	Insitu
	Permit Limits	N/A	N/A			N/A	94 Avg. Monthly	109 Max. Daily					
00011 (ML-1) RF-A Temperature, F October 1-31 Interim (Initial 36 months)	Reported								N/A	DEG F		1/month	Insitu
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00011 (ML-1) RF-A Temperature, F October 1-31	Reported								N/A	DEG.F		1/month	Insitu
	Permit Limits	N/A	N/A			N/A	81 Avg. Monthly	93 Max. Daily					

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Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00126

WRD 2A-82

Permit Limits

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (WASHINGTON WORKS) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 007
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E				CEL*	Units	N.E		
00011 (ML-1) RF-A Temperature, F November 1-30	Reported								N/A	DEG F		1/month	Insitu
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00011 (ML-1) RF-A Temperature, F December 1-31	Reported								N/A	DEG.F		1/month	Insitu
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00680 (ML-1) RF-A Total Organic Carbon Year Round	Reported								N/A	mg/l		1/month	24 hr Composite
	Permit Limits	N/A	N/A			N/A	5.2 Avg. Monthly	6.9 Max. Daily					
81020 (ML-1) RF-B Sulfate Year Round	Reported								N/A	mg/l		1/quarter	24 hr Composite
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
01059 (ML-1) RF-B Thallium, Total (as Tl) Year Round	Reported								N/A	mg/l		1/quarter	24 hr Composite
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
51065 (ML-1) RF-A PFOA Year Round	Reported			Lbs/Day					N/A	mg/l		1/month	24 hr Composite
	Permit Limits	Rpt Only Avg. Monthly	Rpt Only Max. Daily			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					

* CEL = Compliance Evaluation Level

Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00127

WRD 2A-82

Permit Limits

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (WASHINGTON WORKS) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 007
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E				CEL*	Units	N.E		
51715 (ML-1) RF-A	Reported												
HFPO Dimer Acid Year Round	Permit Limits	Rpt Only Avg Monthly	Rpt Only Max Daily	Lbs/Day		N/A	Rpt Only Avg Monthly	Rpt Only Max Daily	N/A	mg/l		1/month	24 hr Composite

* CEL = Compliance Evaluation Level

Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00128

WRD 2A-82

Permit Limits

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (WASHINGTON WORKS) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 011
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
50050 (ML-1) RF-B Flow,in Conduit or thru plant Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mgd		1/quarter	Estimated
00530 (ML-1) RF-B Total Suspended Solids Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/quarter	Grab
00400 (ML-1) RF-B pH Year Round	Reported												
	Permit Limits	N/A	N/A			Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	N/A	S.U.		1/quarter	Grab
00610 (ML-1) RF-B Ammonia Nitrogen Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/quarter	Grab
01104 (ML-1) RF-B Aluminum, Total Recoverable Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/quarter	Grab
00980 (ML-1) RF-B Iron, Total Recoverable Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/quarter	Grab

* CEL = Compliance Evaluation Level

Name of Principal Executive Officer

Title of Officer

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.

Date Completed

Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00129

WRD 2A-82

Permit Limits

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (WASHINGTON WORKS) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 011
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E				CEL*	Units	N.E		
81017 (ML-1) RF-B Chem. Oxygen Demand Year Round	Reported								N/A	mg/l		1/quarter	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
51065 (ML-1) RF-B PFOA Year Round	Reported								N/A	ug/l		1/quarter	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
51715 (ML-1) RF-B HFPO Dimer Acid Year Round	Reported								N/A	ug/l		1/quarter	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					

* CEL = Compliance Evaluation Level

Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00130

WRD 2A-82

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

Permit Limits

FACILITY NAME: (WASHINGTON WORKS) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 013
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E				CEL*	Units	N.E		
50050 (ML-1) RF-C Flow,in Conduit or thru plant Year Round	Reported								N/A	mgd		1/6 months	Estimated
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00400 (ML-1) RF-C pH Year Round	Reported								N/A	S.U.		1/6 months	Grab
	Permit Limits	N/A	N/A			6 Inst. Min.	N/A	9 Inst. Max.					
00680 (ML-1) RF-C Total Organic Carbon Year Round	Reported								N/A	mg/l		1/6 months	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					

* CEL = Compliance Evaluation Level

Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00131

WRD 2A-82

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

Permit Limits

FACILITY NAME: (WASHINGTON WORKS) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 016
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E				CEL*	Units	N.E		
50050 (ML-1) RF-B Flow,in Conduit or thru plant Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mgd		1/quarter	Estimated
00530 (ML-1) RF-B Total Suspended Solids Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/quarter	Grab
00400 (ML-1) RF-C pH Year Round	Reported												
	Permit Limits	N/A	N/A			Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	N/A	S.U.		1/6 months	Grab
00610 (ML-1) RF-C Ammonia Nitrogen Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01104 (ML-1) RF-B Aluminum, Total Recoverable Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/quarter	Grab
00980 (ML-1) RF-B Iron, Total Recoverable Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/quarter	Grab

* CEL = Compliance Evaluation Level

Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00132

WRD 2A-82

Permit Limits

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (WASHINGTON WORKS) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 016
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N E				CEL*	Units	N E		
81017 (ML-1) RF-C Chem. Oxygen Demand Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
51065 (ML-1) RF-B PFOA Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	ug/l		1/quarter	Grab
51715 (ML-1) RF-B HFPO Dimer Acid Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	ug/l		1/quarter	Grab

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Title of Officer		Signature of Principal Executive Officer or Authorized Agent

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WRD 2A-82

Permit Limits

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (WASHINGTON WORKS) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 019
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E				CEL*	Units	N.E		
50050 (ML-1) RF-B Flow,in Conduit or thru plant Year Round	Reported								N/A	mgd		1/quarter	Estimated
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00530 (ML-1) RF-B Total Suspended Solids Year Round	Reported								N/A	mg/l		1/quarter	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00400 (ML-1) RF-C pH Year Round	Reported								N/A	S.U.		1/6 months	Grab
	Permit Limits	N/A	N/A			Rpt Only Inst. Min	N/A	Rpt Only Inst. Max					
00610 (ML-1) RF-C Ammonia Nitrogen Year Round	Reported								N/A	mg/l		1/6 months	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
01104 (ML-1) RF-B Aluminum, Total Recoverable Year Round	Reported								N/A	mg/l		1/quarter	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00980 (ML-1) RF-B Iron, Total Recoverable Year Round	Reported								N/A	mg/l		1/quarter	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					

* CEL = Compliance Evaluation Level

Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00134

WRD 2A-82

Permit Limits

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (WASHINGTON WORKS) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 019
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
81017 (ML-1) RF-C Chem. Oxygen Demand Year Round	Reported								N/A	mg/l		1/6 months	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
51065 (ML-1) RF-B PFOA Year Round	Reported								N/A	ug/l		1/quarter	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
51715 (ML-1) RF-B HFPO Dimer Acid Year Round	Reported								N/A	ug/l		1/quarter	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					

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Title of Officer		Signature of Principal Executive Officer or Authorized Agent

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WRD 2A-82

Permit Limits

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (WASHINGTON WORKS) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 022
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
50050 (ML-1) RF-B Flow,in Conduit or thru plant Year Round	Reported								N/A	mgd		1/quarter	Estimated
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00530 (ML-1) RF-B Total Suspended Solids Year Round	Reported								N/A	mg/l		1/quarter	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00400 (ML-1) RF-C pH Year Round	Reported								N/A	S.U.		1/6 months	Grab
	Permit Limits	N/A	N/A			Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.					
00610 (ML-1) RF-C Ammonia Nitrogen Year Round	Reported								N/A	mg/l		1/6 months	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
01104 (ML-1) RF-B Aluminum, Total Recoverable Year Round	Reported								N/A	mg/l		1/quarter	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00980 (ML-1) RF-B Iron, Total Recoverable Year Round	Reported								N/A	mg/l		1/quarter	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					

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Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00136

WRD 2A-82

Permit Limits

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (WASHINGTON WORKS) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 022
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E				CEL*	Units	N.E.		
81017 (ML-1) RF-C Chem. Oxygen Demand Year Round	Reported								N/A	mg/l		1/6 months	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
51065 (ML-1) RF-B PFOA Year Round	Reported								N/A	ug/l		1/quarter	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
51715 (ML-1) RF-B HFPO Dimer Acid Year Round	Reported								N/A	ug/l		1/quarter	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					

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Title of Officer		Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00137

WRD 2A-82

Permit Limits

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (WASHINGTON WORKS) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 023
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
50050 (ML-1) RF-B Flow,in Conduit or thru plant Year Round	Reported								N/A	mgd		1/quarter	Estimated
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00530 (ML-1) RF-B Total Suspended Solids Year Round	Reported								N/A	mg/l		1/quarter	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00400 (ML-1) RF-C pH Year Round	Reported								N/A	S.U.		1/6 months	Grab
	Permit Limits	N/A	N/A			Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.					
00610 (ML-1) RF-C Ammonia Nitrogen Year Round	Reported								N/A	mg/l		1/6 months	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
01104 (ML-1) RF-B Aluminum, Total Recoverable Year Round	Reported								N/A	mg/l		1/quarter	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00980 (ML-1) RF-B Iron, Total Recoverable Year Round	Reported								N/A	mg/l		1/quarter	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					

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Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00138

WRD 2A-82

Permit Limits

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (WASHINGTON WORKS) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 023
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
81017 (ML-1) RF-C Chem. Oxygen Demand Year Round	Reported								N/A	mg/l		1/6 months	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
51065 (ML-1) RF-B PFOA Year Round	Reported								N/A	ug/l		1/quarter	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
51715 (ML-1) RF-B HFPO Dimer Acid Year Round	Reported								N/A	ug/l		1/quarter	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					

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Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00139

WRD 2A-82

Permit Limits

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (WASHINGTON WORKS) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 025
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E				CEL*	Units	N.E		
50050 (ML-1) RF-B Flow,in Conduit or thru plant Year Round	Reported								N/A	mgd		1/quarter	Estimated
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00530 (ML-1) RF-B Total Suspended Solids Year Round	Reported								N/A	mg/l		1/quarter	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00400 (ML-1) RF-C pH Year Round	Reported								N/A	S.U.		1/6 months	Grab
	Permit Limits	N/A	N/A			Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.					
00610 (ML-1) RF-C Ammonia Nitrogen Year Round	Reported								N/A	mg/l		1/6 months	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
01104 (ML-1) RF-B Aluminum, Total Recoverable Year Round	Reported								N/A	mg/l		1/quarter	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00980 (ML-1) RF-B Iron, Total Recoverable Year Round	Reported								N/A	mg/l		1/quarter	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					

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Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00140

WRD 2A-82

Permit Limits

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (WASHINGTON WORKS) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 025
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N E				CEL*	Units	N E		
81017 (ML-1) RF-C Chem. Oxygen Demand Year Round	Reported								N/A	mg/l		1/6 months	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
51065 (ML-1) RF-B PFOA Year Round	Reported								N/A	ug/l		1/quarter	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg Monthly	Rpt Only Max Daily					
51715 (ML-1) RF-B HFPO Dimer Acid Year Round	Reported								N/A	ug/l		1/quarter	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					

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Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00141

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Permit Limits

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (WASHINGTON WORKS) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 026
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E				CEL*	Units	N.E		
50050 (ML-1) RF-B Flow,in Conduit or thru plant Year Round	Reported								N/A	mgd		1/quarter	Estimated
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00530 (ML-1) RF-B Total Suspended Solids Year Round	Reported								N/A	mg/l		1/quarter	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00400 (ML-1) RF-C pH Year Round	Reported								N/A	S.U.		1/6 months	Grab
	Permit Limits	N/A	N/A			Rpt Only Inst. Min	N/A	Rpt Only Inst. Max					
00610 (ML-1) RF-C Ammonia Nitrogen Year Round	Reported								N/A	mg/l		1/6 months	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
01104 (ML-1) RF-B Aluminum, Total Recoverable Year Round	Reported								N/A	mg/l		1/quarter	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00980 (ML-1) RF-B Iron, Total Recoverable Year Round	Reported								N/A	mg/l		1/quarter	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					

* CEL = Compliance Evaluation Level

Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00142

WRD 2A-82

Permit Limits

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (WASHINGTON WORKS) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 026
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
81017 (ML-1) RF-C Chem. Oxygen Demand Year Round	Reported								N/A	mg/l		1/6 months	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
51065 (ML-1) RF-B PFOA Year Round	Reported								N/A	ug/l		1/quarter	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
51715 (ML-1) RF-B HFPO Dimer Acid Year Round	Reported								N/A	ug/l		1/quarter	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					

* CEL = Compliance Evaluation Level

Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00143

WRD 2A-82

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

Permit Limits

FACILITY NAME: (WASHINGTON WORKS) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 028
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E				CEL*	Units	N E		
50050 (ML-1) RF-D	Reported												
Flow,in Conduit or thru plant	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mgd		1/year	Estimated
Year Round													
00400 (ML-1) RF-D	Reported												
pH	Permit Limits	N/A	N/A			6 Inst. Min.	N/A	9 Inst. Max.	N/A	S.U.		1/year	Grab
Year Round													
00680 (ML-1) RF-D	Reported												
Total Organic Carbon	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/year	Grab
Year Round													

* CEL = Compliance Evaluation Level

Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00144

WRD 2A-82

Permit Limits

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (WASHINGTON WORKS) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 030
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
50050 (ML-1) RF-B Flow in Conduit or thru plant Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mgd		1/quarter	Estimated
00530 (ML-1) RF-B Total Suspended Solids Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/quarter	Grab
00400 (ML-1) RF-C pH Year Round	Reported												
	Permit Limits	N/A	N/A			Rpt Only Inst. Min	N/A	Rpt Only Inst. Max	N/A	S.U.		1/6 months	Grab
00610 (ML-1) RF-C Ammonia Nitrogen Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01104 (ML-1) RF-B Aluminum, Total Recoverable Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/quarter	Grab
00980 (ML-1) RF-B Iron, Total Recoverable Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/quarter	Grab

* CEL = Compliance Evaluation Level

Name of Principal Executive Officer

Title of Officer

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.

Date Completed

Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00145

WRD 2A-82

Permit Limits

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (WASHINGTON WORKS) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 030
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
81017 (ML-1) RF-C Chem. Oxygen Demand Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
51065 (ML-1) RF-B PFOA Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	ug/l		1/quarter	Grab
51715 (ML-1) RF-B HFPO Dimer Acid Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	ug/l		1/quarter	Grab

* CEL = Compliance Evaluation Level

Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00146

WRD 2A-82

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

Permit Limits

FACILITY NAME: (WASHINGTON WORKS) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 031
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E				CEL*	Units	N.E.		
50050 (ML-1) RF-B Flow,in Conduit or thru plant Year Round	Reported								N/A	mgd		1/quarter	Estimated
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00530 (ML-1) RF-B Total Suspended Solids Year Round	Reported								N/A	mg/l		1/quarter	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00400 (ML-1) RF-C pH Year Round	Reported								N/A	S.U.		1/6 months	Grab
	Permit Limits	N/A	N/A			Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.					
00610 (ML-1) RF-C Ammonia Nitrogen Year Round	Reported								N/A	mg/l		1/6 months	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
01104 (ML-1) RF-B Aluminum, Total Recoverable Year Round	Reported								N/A	mg/l		1/quarter	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00980 (ML-1) RF-B Iron, Total Recoverable Year Round	Reported								N/A	mg/l		1/quarter	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					

* CEL = Compliance Evaluation Level

Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00147

WRD 2A-82

Permit Limits

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (WASHINGTON WORKS) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 031
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
81017 (ML-1) RF-C Chem. Oxygen Demand Year Round	Reported								N/A	mg/l		1/6 months	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
51065 (ML-1) RF-B PFOA Year Round	Reported								N/A	ug/l		1/quarter	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
51715 (ML-1) RF-B HFPO Dimer Acid Year Round	Reported								N/A	ug/l		1/quarter	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					

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Title of Officer		Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00148

WRD 2A-82

Permit Limits

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (WASHINGTON WORKS) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 032
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N E		
50050 (ML-1) RF-B Flow,in Conduit or thru plant Year Round	Reported								N/A	mgd		1/quarter	Estimated
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00530 (ML-1) RF-B Total Suspended Solids Year Round	Reported								N/A	mg/l		1/quarter	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00400 (ML-1) RF-C pH Year Round	Reported								N/A	S U		1/6 months	Grab
	Permit Limits	N/A	N/A			Rpt Only Inst. Min	N/A	Rpt Only Inst. Max					
00610 (ML-1) RF-C Ammonia Nitrogen Year Round	Reported								N/A	mg/l		1/6 months	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
01104 (ML-1) RF-B Aluminum, Total Recoverable Year Round	Reported								N/A	mg/l		1/quarter	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00980 (ML-1) RF-B Iron, Total Recoverable Year Round	Reported								N/A	mg/l		1/quarter	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					

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Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00149

WRD 2A-82

Permit Limits

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (WASHINGTON WORKS) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 032
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
81017 (ML-1) RF-C Chem. Oxygen Demand Year Round	Reported								N/A	mg/l		1/6 months	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
51065 (ML-1) RF-B PFOA Year Round	Reported								N/A	ug/l		1/quarter	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
51715 (ML-1) RF-B HFPO Dimer Acid Year Round	Reported								N/A	ug/l		1/quarter	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					

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Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00150

WRD 2A-82

Permit Limits

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (WASHINGTON WORKS) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 033
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E				CEL*	Units	N E		
50050 (ML-1) RF-B Flow,in Conduit or thru plant Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mgd		1/quarter	Estimated
00530 (ML-1) RF-B Total Suspended Solids Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/quarter	Grab
00400 (ML-1) RF-C pH Year Round	Reported												
	Permit Limits	N/A	N/A			Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.	N/A	S.U.		1/6 months	Grab
00610 (ML-1) RF-C Ammonia Nitrogen Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
01104 (ML-1) RF-B Aluminum, Total Recoverable Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/quarter	Grab
00980 (ML-1) RF-B Iron, Total Recoverable Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/quarter	Grab

* CEL = Compliance Evaluation Level

Name of Principal Executive Officer

Title of Officer

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.

Date Completed

Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00151

WRD 2A-82

Permit Limits

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (WASHINGTON WORKS) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 033
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
81017 (ML-1) RF-C	Reported												
Chem. Oxygen Demand	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
Year Round													
51065 (ML-1) RF-B	Reported												
PFOA	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	ug/l		1/quarter	Grab
Year Round													
51715 (ML-1) RF-B	Reported												
HFPO Dimer Acid	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	ug/l		1/quarter	Grab
Year Round													

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Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00152

WRD 2A-82

Permit Limits

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (WASHINGTON WORKS) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 034
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
50050 (ML-1) RF-B Flow,in Conduit or thru plant Year Round	Reported								N/A	mgd		1/quarter	Estimated
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00530 (ML-1) RF-B Total Suspended Solids Year Round	Reported								N/A	mg/l		1/quarter	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00400 (ML-1) RF-C pH Year Round	Reported								N/A	S.U.		1/6 months	Grab
	Permit Limits	N/A	N/A			Rpt Only Inst. Min	N/A	Rpt Only Inst. Max					
00610 (ML-1) RF-C Ammonia Nitrogen Year Round	Reported								N/A	mg/l		1/6 months	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
01104 (ML-1) RF-B Aluminum, Total Recoverable Year Round	Reported								N/A	mg/l		1/quarter	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00980 (ML-1) RF-B Iron, Total Recoverable Year Round	Reported								N/A	mg/l		1/quarter	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					

* CEL = Compliance Evaluation Level

Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00153

WRD 2A-82

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

Permit Limits

FACILITY NAME: (WASHINGTON WORKS) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 034
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E				CEL*	Units	N.E.		
81017 (ML-1) RF-C Chem. Oxygen Demand Year Round	Reported								N/A	mg/l		1/6 months	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
51065 (ML-1) RF-B PFOA Year Round	Reported								N/A	ug/l		1/quarter	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
51715 (ML-1) RF-B HFPO Dimer Acid Year Round	Reported								N/A	ug/l		1/quarter	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					

* CEL = Compliance Evaluation Level

Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00154

WRD 2A-82

Permit Limits

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (WASHINGTON WORKS) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 036
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
50050 (ML-1) RF-B Flow,in Conduit or thru plant Year Round	Reported								N/A	mgd		1/quarter	Estimated
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00530 (ML-1) RF-B Total Suspended Solids Year Round	Reported								N/A	mg/l		1/quarter	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00400 (ML-1) RF-C pH Year Round	Reported								N/A	S.U.		1/6 months	Grab
	Permit Limits	N/A	N/A			Rpt Only Inst. Min.	N/A	Rpt Only Inst. Max.					
00610 (ML-1) RF-C Ammonia Nitrogen Year Round	Reported								N/A	mg/l		1/6 months	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
01104 (ML-1) RF-B Aluminum, Total Recoverable Year Round	Reported								N/A	mg/l		1/quarter	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					
00980 (ML-1) RF-B Iron, Total Recoverable Year Round	Reported								N/A	mg/l		1/quarter	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					

* CEL = Compliance Evaluation Level

Name of Principal Executive Officer

Title of Officer

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.

Date Completed

Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00155

WRD 2A-82

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

Permit Limits

FACILITY NAME: (WASHINGTON WORKS) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 036
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
81017 (ML-1) RF-C	Reported												
Chem. Oxygen Demand	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/6 months	Grab
Year Round													
51065 (ML-1) RF-B	Reported												
PFOA	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	ug/l		1/quarter	Grab
Year Round													
51715 (ML-1) RF-B	Reported												
HFPO Dimer Acid	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	ug/l		1/quarter	Grab
Year Round													

* CEL = Compliance Evaluation Level

Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00156

WRD 2A-82

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

Permit Limits

FACILITY NAME: (WASHINGTON WORKS) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 102
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E				CEL*	Units	N.E		
50050 (ML-1) RF-A	Reported												
Flow,in Conduit or thru plant Year Round Interim (Initial 12 months)	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mgd		1/week	Estimated
50050 (ML-1) RF-A	Reported												
Flow,in Conduit or thru plant Year Round	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mgd		1/week	measured

* CEL = Compliance Evaluation Level

Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00157

WRD 2A-82

Permit Limits

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (Internal Outlet 103) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 103
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
50050 (ML-1) RF-A	Reported												
Flow in Conduit or thru plant Year Round Final (Remaining duration)	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mgd		1/month	Estimated

* CEL = Compliance Evaluation Level

Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00158

WRD 2A-82

Permit Limits

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (Internal Outlet 105) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 105
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
50050 (ML-1) RF-A Flow,in Conduit or thru plant Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mgd		Continuous	Recorded
00310 (ML-1) RF-A BOD, 5-Day 20 Deg C Year Round	Reported												
	Permit Limits	370 Avg. Monthly	988 Max. Daily	Lbs/Day		N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/week	24 hr Composite
00530 (ML-1) RF-A Total Suspended Solids Year Round	Reported												
	Permit Limits	548 Avg. Monthly	1777 Max. Daily	Lbs/Day		N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/week	24 hr Composite
01094 (ML-1) RF-B Zinc, Total Recoverable Year Round	Reported												
	Permit Limits	0.89 Avg. Monthly	2.2 Max. Daily	Lbs/Day		N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/quarter	24 hr Composite

* CEL = Compliance Evaluation Level

Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00159

WRD 2A-82

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

Permit Limits

FACILITY NAME: (Internal Outlet 115) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 115
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
50050 (ML-A) RF-B Flow,in Conduit or thru plant Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mgd		1/quarter	measured
00310 (ML-B) RF-B BOD, 5-Day 20 Deg.C Year Round	Reported												
	Permit Limits	Rpt Only Avg. Monthly	Rpt Only Max. Daily	Lbs/Day		N/A	30 Avg. Monthly	60 Max. Daily	N/A	mg/l		1/quarter	Grab
00530 (ML-A) RF-B Total Suspended Solids Year Round	Reported												
	Permit Limits	Rpt Only Avg. Monthly	Rpt Only Max. Daily	Lbs/Day		N/A	30 Avg. Monthly	60 Max. Daily	N/A	mg/l		1/quarter	Grab
74055 (ML-A) RF-B Coliform, Fecal Year Round	Reported												
	Permit Limits	N/A	N/A			N/A	200 Mon. Geo. Mean	400 Max. Daily	N/A	Cnts/100m		1/quarter	Grab
00400 (ML-A) RF-B pH Year Round	Reported												
	Permit Limits	N/A	N/A			6 Inst. Min.	N/A	9 Inst. Max.	N/A	S.U.		1/quarter	Grab
00610 (ML-A) RF-B Ammonia Nitrogen Year Round	Reported												
	Permit Limits	Rpt Only Avg. Monthly	Rpt Only Max. Daily	Lbs/Day		N/A	15 Avg. Monthly	30 Max. Daily	N/A	mg/l		1/quarter	Grab

* CEL = Compliance Evaluation Level

Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00160

WRD 2A-82

Permit Limits

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (Internal Outlet 115) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 115
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E				CEL*	Units	N.E.		
50060 (ML-A) RF-B Chlorine, Total Residual Year Round	Reported								N/A	mg/l		1/quarter	Grab
	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily					

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Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00161

WRD 2A-82

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

Permit Limits

FACILITY NAME: (Internal Outlet 125) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 125
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
50050 (ML-1) RF-A	Reported												
Flow,in Conduit or thru plant Year Round Interim (Initial 3 months)	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mgd		1/week	Estimated
50050 (ML-1) RF-A	Reported												
Flow,in Conduit or thru plant Year Round	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mgd		1/week	Estimated

* CEL = Compliance Evaluation Level

Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00162

WRD 2A-82

Permit Limits

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (Internal Outlet 202) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 202
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E				CEL*	Units	N.E.		
50050 (ML-1) RF-A	Reported												
Flow,in Conduit or thru plant Year Round Final (Remaining duration)	Permit Limits	N/A	N/A			N/A	Rpt Only Avg Monthly	Rpt Only Max Daily	N/A	mgd		1/month	Estimated

* CEL = Compliance Evaluation Level

Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00163

WRD 2A-82

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

Permit Limits

FACILITY NAME: (Internal Outlet 205) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 205
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
50050 (ML-1) RF-A	Reported												
Flow,in Conduit or thru plant	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mgd		1/week	measured
Year Round													
00310 (ML-1) RF-A	Reported												
BOD, 5-Day 20 Deg C	Permit Limits	817 Avg. Monthly	2180 Max. Daily	Lbs/Day		N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/week	24 hr Composite
Year Round													
00530 (ML-2) RF-A	Reported												
Total Suspended Solids	Permit Limits	1128 Avg. Monthly	3655 Max. Daily	Lbs/Day		N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/week	Calculated
Year Round													
00530 (ML-1) RF-A	Reported												
Total Suspended Solids	Permit Limits	Rpt Only Avg. Monthly	Rpt Only Max. Daily	Lbs/Day		N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/week	24 hr Composite
Year Round													
00530 (ML-7) RF-A	Reported												
Total Suspended Solids	Permit Limits	Rpt Only Avg. Monthly	Rpt Only Max. Daily	Lbs/Day		N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mg/l		1/week	24 hr Composite
Year Round													

* CEL = Compliance Evaluation Level

Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00164

WRD 2A-82

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

Permit Limits

FACILITY NAME: (Internal Outlet 305) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 305
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E				CEL*	Units	N.E		
50050 (ML-1) RF-A	Reported												
Flow,in Conduit or thru plant Year Round Interim (Initial 12 months)	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mgd		1/week	Estimated
50050 (ML-1) RF-A	Reported												
Flow,in Conduit or thru plant Year Round Final (Remaining duration)	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mgd		1/week	measured

* CEL = Compliance Evaluation Level

Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00165

WRD 2A-82

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

Permit Limits

FACILITY NAME: (Internal Outlet 405) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 405
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
50050 (ML-1) RF-A	Reported												
Flow,in Conduit or thru plant Year Round Interim (Initial 12 months)	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mgd		1/week	Estimated
50050 (ML-1) RF-A	Reported												
Flow,in Conduit or thru plant Year Round Final (Remaining duration)	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mgd		1/week	measured

* CEL = Compliance Evaluation Level

Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00166

WRD 2A-82

Permit Limits

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

FACILITY NAME: (Internal Outlet 505) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 505
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
50050 (ML-1) RF-A	Reported												
Flow,in Conduit or thru plant	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mgd		1/week	Estimated
Year Round Interim (Initial 12 months)													
50050 (ML-1) RF-A	Reported												
Flow,in Conduit or thru plant	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mgd		1/week	measured
Year Round Final (Remaining duration)													

* CEL = Compliance Evaluation Level

Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00167

WRD 2A-82

STATE OF WEST VIRGINIA
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

Permit Limits

FACILITY NAME: (Internal Outlet 605) THE CHEMOURS COMPANY FC, LLC
LOCATION OF FACILITY: WASHINGTON; Wood County
PERMIT NO.: WV0001279 605
WASTELOAD FOR THE MONTH OF:

CERTIFIED LABORATORY NAME:
CERTIFIED LABORATORY ADDRESS:
INDIVIDUAL PERFORMING ANALYSIS:

Parameter		Quantity				Other Units						Measurement Frequency	Sample Type
				Units	N.E.				CEL*	Units	N.E.		
50050 (ML-1) RF-A	Reported												
Flow,in Conduit or thru plant Year Round Interim (Initial 12 months)	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mgd		1/week	Estimated
50050 (ML-1) RF-A	Reported												
Flow,in Conduit or thru plant Year Round Final (Remaining duration)	Permit Limits	N/A	N/A			N/A	Rpt Only Avg. Monthly	Rpt Only Max. Daily	N/A	mgd		1/week	measured

* CEL = Compliance Evaluation Level

Name of Principal Executive Officer	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of a fine and imprisonment for knowing violations.	Date Completed
Title of Officer		Signature of Principal Executive Officer or Authorized Agent

ED_005478_00010372-00168

EMERGENCY RESPONSE SPILL ALERT SYSTEM
WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

REQUIREMENTS:

Title 47, Series 11, Section 2 of the West Virginia Legislative Rules, Environmental Protection, Water Resources - Waste Management, Effective July 1, 1994.

RESPONSIBILITY FOR REPORTING:

Each and every person who may cause or be responsible for any spill or accidental discharge of pollutants into the waters of the State shall give immediate notification to the Division of Water and Waste Management's Emergency Notification Number, 1-800-642-3074. Such notification shall set forth insofar as possible and as soon thereafter as practical the time and place of such spill or discharge, type or types and quantity or quantities of the material or materials therein, action or actions taken to stop such spill or discharge and to minimize the polluting effect thereof, the measure or measures taken or to be taken in order to prevent a recurrence of any such spill or discharge and such additional information as may be requested by the Division of Water and Waste Management. This also applies to spills to the waters of the State resulting from accidents to common carriers by highway, rail and water.

It shall be the responsibility of each industrial establishment or other entity discharging directly to a stream to have available the following information pertaining to those substances that are employed or handled in its operation in sufficiently large amounts as to constitute a hazard in case of an accidental spill or discharge into a public stream:

(1) Potential toxicity in water to man, animals and aquatic life;
(2) Details on analytical procedures for the quantitative estimation of such substances in water and
(3) Suggestions on safeguards or other precautionary measures to nullify the toxic effects of a substance once it has gotten into a stream.

Failure to furnish such information as required by Section 14, Article 11, Chapter 22, Code of West Virginia may be punishable under Section 24, Article 11, Chapter 22, and/or Section 22, Article 11, Chapter 22, Code of West Virginia.

It shall be the responsibility of any person who causes or contributes in any way to the spill or accidental discharge of any pollutant or pollutants into State waters to immediately take any and all measures necessary to contain such spill or discharge. It shall further be the responsibility of such person to take any and all measures necessary to clean-up, remove and otherwise render such spill or discharge harmless to the waters of the State.

When the Director determines it necessary for the effective containment and abatement of spills and accidental discharges, the Director may require the person or persons responsible for such spill or discharge to monitor affected waters in a manner prescribed by the Director until the possibility of any adverse effect on the waters of the State no longer exists.

VOLUNTARY REPORTING BY LAW OFFICERS, U. S. COAST GUARD, LOCK MASTERS AND OTHERS:

In cases involving river and highway accidents where the responsible party may or may not be available to report the incident, law officers, U. S. Coast Guard, Lock Masters and other interested person(s) should make the report.

WHO TO CONTACT:
Notify the following number: **1-800-642-3074**

INFORMATION NEEDED:
- Source of spill or discharge
- Location of incident
- Time of incident
- Material spilled or discharged
- Amount spilled or discharged
- Toxicity of material spilled or discharged
- Personnel at the scene
- Actions initiated
- Shipper/Manufacturer identification
- Railcar/Truck identification number
- Container type

WV/NPDES Permit No.: WV0001279

NOTICE TO PERMITTEES

The 1999 regular session of the West Virginia legislature revised the Water Pollution Control Act, Chapter 22, Article 11, Section 10 of the Code of West Virginia relating to fees associated with permits. This section of the Code requires all holders of a State water pollution control permit or a national pollutant discharge elimination system permit to be assessed an annual permit fee, based upon rules promulgated by the Secretary of the Department of Environmental Protection. The Secretary has promulgated a final rule in accordance with the code revision to this effect and these rules were effective May 4, 2000. The rules establish an annual permit fee based upon the relative potential to degrade the waters of the State which, in most instances, relate to volume of discharge. However, for sewage facilities, the annual permit fee is based upon the number of customers served by the facility. You may contact the Secretary of State's Office, State Capitol Building, Charleston, WV 25305, to obtain a copy of the rules. The reference is Title 47, Legislative Rules, Department of Environmental Protection, Division of Water Resources, Series 26 Water Pollution Control Permit Fee Schedules.

Based upon the volume of discharge for which your facility is currently permitted, the number of customers served by your facility or for the category you fall within, pursuant to Section 7 of Title 47, Series 26, your annual permit fee is **$5000.00**. This fee is due no later than the anniversary date of permit issuance in each year of the term of the permit or in the case of coverage under a general permit, the fee is due no later than the anniversary date of your coverage under the general permit. **You will be invoiced by this agency at the appropriate time for the fee**. Failure to submit the annual fee within ninety(90) days of the due date will render your permit void upon the date you are mailed a certified written notice to that effect.

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER AND WASTE MANAGEMENT

FACT SHEET

1. **NAME AND ADDRESS OF APPLICANT**

   THE CHEMOURS COMPANY FC, LLC
   PO BOX 1217
   WASHINGTON, WV 26181

2. **NAME AND ADDRESS OF FACILITY**

   WASHINGTON WORKS
   8480 DuPont Road
   Washington, WV 26181

3. **STATE NPDES APPLICATION NO.** WV0001279

4. **COUNTY** Wood

   RECEIVING STREAM Ohio River

5. **PUBLIC NOTICE NO.** L-38-18

   COMMENT PERIOD: From 04/19/2018 To 05/19/2018

6. **SIC CODE(s)** 2821

7. **DESCRIPTION OF APPLICANT'S FACILITY OR ACTIVITY**

   Du Pont de Nemours & Co., Inc. owns and operates a polymenr manufacturing facility at Washington, WV. The facility produces the following products: nylon resins, polyvinyl butyral resin, acrylic resins, fluorocarbon polymers and compounded plastics (SIC 2821; OCPSF Subpart D). The site also produces nylon fibers (SIC 2824; OCPSF Subpart C), and polyacetal resins and formaldehyde (SIC 2869; OCPSF Subpart E). Non-OCPSF production includes fluorocarbon monomers, fluorocarbon telomers and calcium fluoride.

   The facility also operates and maintains a sewage treatment plant and all of the sanitary wastes from the facility are collected and treated here and the treated effluent is discharged via internal outlet 105 and then via outlet 005 to the Ohio River.

8. **DESCRIPTION OF DISCHARGES(as reported by applicant):**

   Effluent Characteristics For Outlet No. 001

			Quantity			Other Units			
Parameter	ML Code	Season	Monthly Avg	Max	Units	Min	Monthly Avg	Max	Units
Chem. Oxygen Demand	1	Year Round	9.20	32.10	Lbs/Day		13.30	44.80	mg/l
Chlorine, Total Residual	1	Year Round	1.47	430.00	Lbs/Day		48.60	2200.00	ug/l
Flow,in Conduit or thru plar	1	Year Round						2.71	mgd
PFOA	1	Year Round	0.12	17.00	Lbs/Day		5.74	50.00	ug/l
pH	1	Year Round				7.29		8.31	S.U.
Temperature, F	1	Year Round					59.99	73.70	DEG F
Total Organic Carbon	1	Year Round	2.98	19.70	Lbs/Day		4.33	24.40	mg/l
Total Suspended Solids	1	Year Round	7.48	233.80	Lbs/Day		10.52	326.00	mg/l

8. DESCRIPTION OF DISCHARGES(as reported by applicant) - continue:

Effluent Characteristics For Outlet No. 001

			Quantity			Other Units			
Parameter	ML Code	Season	Monthly Avg	Max	Units	Min	Monthly Avg	Max	Units
Zinc, Total (as Zn)	1	Year Round	0.06	1.68	Lbs/Day		0.09	2.34	mg/l

Effluent Characteristics For Outlet No. 002

			Quantity			Other Units			
Parameter	ML Code	Season	Monthly Avg	Max	Units	Min	Monthly Avg	Max	Units
1,1 Dichloroethane	1	Year Round	0.01	0.01	Lbs/Day		0.13	0.13	ug/l
1,1,1-Trichloroethane	1	Year Round	0.02	0.02	Lbs/Day		0.25	0.25	ug/l
1,1,2-Trichloroethane	1	Year Round	0.02	0.02	Lbs/Day		0.25	0.25	ug/l
1,1-Dichloroethylene	1	Year Round	0.03	0.03	Lbs/Day		0.50	0.50	ug/l
1,2,4-Trichlorobenzene	1	Year Round	0.01	0.01	Lbs/Day		0.20	0.20	ug/l
1,2-Dichlorobenzene	1	Year Round	0.20	0.20	Lbs/Day		3.13	3.13	ug/l
1,2-Dichloroethane	1	Year Round	0.02	0.02	Lbs/Day		0.25	0.25	ug/l
1,2-Dichloropropane	1	Year Round	0.01	0.01	Lbs/Day		0.20	0.20	ug/l
1,2-Trans-Dichloroethylene	1	Year Round	0.02	0.02	Lbs/Day		0.25	0.25	ug/l
1,3 Dichloropropylene	1	Year Round	0.03	0.03	Lbs/Day		0.50	0.50	ug/l
1,3-Dichlorobenzene	1	Year Round	0.20	0.20	Lbs/Day		3.13	3.13	ug/l
1,4-Dichlorobenzene	1	Year Round	0.20	0.20	Lbs/Day		3.13	3.13	ug/l
2,4-Dimethylphenol	1	Year Round	0.20	0.20	Lbs/Day		3.13	3.13	ug/l
2,4-Dinitrophenol	1	Year Round	1.00	1.00	Lbs/Day		15.60	15.60	ug/l
2-Nitrophenol	1	Year Round	0.20	0.20	Lbs/Day		3.13	3.13	ug/l
3,4 Benzofluoranthene	1	Year Round	0.20	0.20	Lbs/Day		3.13	3.13	ug/l
4,6-Dinitro-o-cresol	1	Year Round	1.00	1.00	Lbs/Day		15.60	15.60	ug/l
4-Nitrophenol	1	Year Round	1.00	1.00	Lbs/Day		15.60	15.60	ug/l
Acenaphthene	1	Year Round	0.20	0.20	Lbs/Day		3.13	3.13	ug/l
Acenaphthylene	1	Year Round	0.20	0.20	Lbs/Day		3.13	3.13	ug/l
Acrylonitrile	1	Year Round	0.16	0.16	Lbs/Day		2.50	2.50	ug/l
Ammonia Nitrogen	1	Year Round	237.61	4223.20	Lbs/Day		4.27	68.70	mg/l
Anthracene	1	Year Round	0.20	0.20	Lbs/Day		3.13	3.13	ug/l
Benzene	1	Year Round	0.01	0.01	Lbs/Day		0.13	0.13	ug/l
Benzo (A) Anthracene	1	Year Round	0.20	0.20	Lbs/Day		3.13	3.13	ug/l
Benzo (A) Pyrene	1	Year Round	0.20	0.20	Lbs/Day		3.13	3.13	ug/l
Benzo (K) Fluoranthene	1	Year Round	0.20	0.20	Lbs/Day		3.13	3.13	ug/l

8. DESCRIPTION OF DISCHARGES(as reported by applicant) - continue:

Effluent Characteristics For Outlet No. 002

			Quantity			Other Units			
Parameter	ML Code	Season	Monthly Avg	Max	Units	Min	Monthly Avg	Max	Units
Beryllium, Total (as Be)	1	Year Round	0.06	0.06	Lbs/Day		1.00	1.00	ug/l
BIS(2-Ethylhexyl) Phthalate	1	Year Round	0.20	0.20	Lbs/Day		3.13	3.13	ug/l
BOD, 5-Day 20 Deg.C	1	Year Round	246.73	1357.20	Lbs/Day		4.31	25.40	mg/l
Carbon Tetrachloride	1	Year Round	0.02	0.02	Lbs/Day		0.25	0.25	ug/l
Chem. Oxygen Demand	1	Year Round	806.14	2114.70	Lbs/Day		14.28	40.50	mg/l
Chloride (as Cl)	1	Year Round	5620.20	17520.20	Lbs/Day		98.79	259.00	mg/l
Chlorine, Total Residual	1	Year Round	2.69	95.00	Lbs/Day		30.24	135.00	ug/l
Chlorobenzene	1	Year Round	0.01	0.08	Lbs/Day		0.13	0.13	ug/l
Chloroethane	1	Year Round	0.03	0.03	Lbs/Day		0.50	0.50	ug/l
Chloroform	1	Year Round	0.07	0.79	Lbs/Day		0.94	3.24	ug/l
Chrysene	1	Year Round	0.20	0.20	Lbs/Day		3.13	3.13	ug/l
Diethyl Phthalate	1	Year Round	0.20	0.20	Lbs/Day		3.13	3.13	ug/l
Dimethyl Phthalate	1	Year Round	0.20	0.20	Lbs/Day		3.13	3.13	ug/l
Di-n-butyl Phthalate	1	Year Round	0.20	0.20	Lbs/Day		3.13	3.13	ug/l
Ethylbenzene	1	Year Round	0.02	0.02	Lbs/Day		0.25	0.25	ug/l
Flow,in Conduit or thru plar	1	Year Round					6.84	14.45	mgd
Fluoranthene	1	Year Round	0.20	0.20	Lbs/Day		3.13	3.13	ug/l
Fluorene	1	Year Round	0.20	0.20	Lbs/Day		3.13	3.13	ug/l
Hexachlorobenzene	1	Year Round	0.20	0.20	Lbs/Day		3.13	3.13	ug/l
Hexachlorobutadiene	1	Year Round	0.20	0.20	Lbs/Day		3.13	3.13	ug/l
Hexachloroethane	1	Year Round	0.20	0.20	Lbs/Day		3.13	3.13	ug/l
HFPO Dimer Acid	1	Year Round					9.22	530.00	ug/l
Methyl Chloride	1	Year Round	0.03	0.05	Lbs/Day		0.50	0.50	ug/l
Methylene Chloride	1	Year Round	0.02	0.13	Lbs/Day		0.30	2.71	ug/l
Naphthalene	1	Year Round	0.20	0.20	Lbs/Day		3.13	3.13	ug/l
Nitrobenzene	1	Year Round	0.20	0.20	Lbs/Day		3.13	3.13	ug/l
Other, Halomethanes	1	Year Round	0.05	0.15	Lbs/Day		0.80	3.21	ug/l
PFOA	1	Year Round	0.57	2.09	Lbs/Day		9.16	28.00	ug/l
pH	1	Year Round				0.01		11.75	S.U.
pH Excursions Total Time	1	Year Round						171.00	Minutes
pH, No. of Excursions >60	1	Year Round		4.02	Ocur/Mon				
Phenanthrene	1	Year Round	0.20	0.20	Lbs/Day		3.13	3.13	ug/l
Phenol, Single Compound	1	Year Round	0.20	0.20	Lbs/Day		3.13	3.13	ug/l
Phenolics, Total Recoverat	1	Year Round	1.23	1.23	Lbs/Day		19.30	19.30	ug/l

8. DESCRIPTION OF DISCHARGES(as reported by applicant) - continue:

Effluent Characteristics For Outlet No. 002

			Quantity			Other Units			
Parameter	ML Code	Season	Monthly Avg	Max	Units	Min	Monthly Avg	Max	Units
Phthalate Esters	1	Year Round	0.80	0.80	Lbs/Day		12.52	12.52	ug/l
Pyrene	1	Year Round	0.20	0.20	Lbs/Day		3.13	3.13	ug/l
Tetrachloroethylene	1	Year Round	0.02	0.02	Lbs/Day		0.25	0.25	ug/l
Toluene	1	Year Round	0.01	0.02	Lbs/Day		0.25	0.25	ug/l
Total Organic Carbon	1	Year Round	218.78	510.70	Lbs/Day		3.87	9.80	mg/l
Total PAH	1	Year Round	3.20	3.20	Lbs/Day		50.08	50.08	ug/l
Total Suspended Solids	2	Year Round	232.94	6361.70	Lbs/Day		3.72	98.80	mg/l
Total Suspended Solids	1	Year Round	804.70	9079.30	Lbs/Day		13.39	169.00	mg/l
Trichloroethylene	1	Year Round	0.02	0.04	Lbs/Day		0.28	0.59	ug/l
Vinyl Chloride	1	Year Round	0.02	0.02	Lbs/Day		0.25	0.25	ug/l

Effluent Characteristics For Outlet No. 003

			Quantity			Other Units			
Parameter	ML Code	Season	Monthly Avg	Max	Units	Min	Monthly Avg	Max	Units
Chem. Oxygen Demand	1	Year Round	299.68	1613.00	Lbs/Day		14.46	43.60	mg/l
Chlorine, Total Residual	1	Year Round	0.80	7.10	Lbs/Day		35.05	215.00	ug/l
Flow,in Conduit or thru plar	1	Year Round					2.55	7.01	mgd
pH	1	Year Round				7.12		8.21	S.U.
Temperature, F	1	Year Round					69.65	88.70	DEG.F
Total Organic Carbon	1	Year Round	82.48	349.20	Lbs/Day		3.77	7.50	mg/l
Total Suspended Solids	1	Year Round	1005.80	16261.30	Lbs/Day		44.22	319.00	mg/l
Total Suspended Solids	2	Year Round	1069.40	15930.80	Lbs/Day		41.91	272.40	mg/l

Effluent Characteristics For Outlet No. 005

			Quantity			Other Units			
Parameter	ML Code	Season	Monthly Avg	Max	Units	Min	Monthly Avg	Max	Units
1,1 Dichloroethane	1	Year Round	0.05	0.05	Lbs/Day		0.13	0.13	ug/l
1,1,1-Trichloroethane	1	Year Round	0.09	0.09	Lbs/Day		0.25	0.25	ug/l
1,1,2-Trichloroethane	1	Year Round	0.09	0.09	Lbs/Day		0.25	0.25	ug/l
1,1-Dichloroethylene	1	Year Round	0.18	0.18	Lbs/Day		0.50	0.50	ug/l

8. DESCRIPTION OF DISCHARGES(as reported by applicant) - continue:

Effluent Characteristics For Outlet No. 005

			Quantity			Other Units			
Parameter	ML Code	Season	Monthly Avg	Max	Units	Min	Monthly Avg	Max	Units
1,2,4-Trichlorobenzene	1	Year Round	1.07	1.07	Lbs/Day		2.91	2.91	ug/l
1,2-Dichlorobenzene	1	Year Round	1.07	1.07	Lbs/Day		2.91	2.91	ug/l
1,2-Dichloroethane	1	Year Round	0.09	0.09	Lbs/Day		0.25	0.03	ug/l
1,2-Dichloropropane	1	Year Round	0.07	0.07	Lbs/Day		0.20	0.20	ug/l
1,2-Trans-Dichloroethylene	1	Year Round	0.09	0.09	Lbs/Day		0.25	0.25	ug/l
1,3 Dichloropropylene	1	Year Round	0.18	0.18	Lbs/Day		0.50	0.50	ug/l
1,3-Dichlorobenzene	1	Year Round	1.07	1.07	Lbs/Day		2.91	2.91	ug/l
1,4-Dichlorobenzene	1	Year Round	0.13	0.13	Lbs/Day		0.05	0.05	ug/l
2,4-Dichlorophenol	1	Year Round	1.07	1.07	Lbs/Day		2.91	2.91	ug/l
2,4-Dimethylphenol	1	Year Round	1.07	1.07	Lbs/Day		2.91	2.91	ug/l
2,4-Dinitrophenol	1	Year Round	5.34	5.34	Lbs/Day		14.50	14.50	ug/l
2,4-Dinitrotoluene	1	Year Round	1.07	1.07	Lbs/Day		2.91	2.91	ug/l
2,6-Dinitrotoluene	1	Year Round	1.07	1.07	Lbs/Day		2.91	2.91	ug/l
2-Chlorophenol	1	Year Round	1.07	1.07	Lbs/Day		2.91	2.91	ug/l
2-Nitrophenol	1	Year Round	1.07	1.07	Lbs/Day		2.91	2.91	ug/l
3,4 Benzofluoranthene	1	Year Round	1.07	1.07	Lbs/Day		2.91	2.91	ug/l
4,6-Dinitro-o-cresol	1	Year Round	5.34	5.34	Lbs/Day		14.50	14.50	ug/l
4-Nitrophenol	1	Year Round	5.34	5.34	Lbs/Day		14.50	14.50	ug/l
Acenaphthene	1	Year Round	1.07	1.07	Lbs/Day		2.91	2.91	ug/l
Acenaphthylene	1	Year Round	1.07	1.07	Lbs/Day		2.91	2.91	ug/l
Acrylonitrile	1	Year Round	0.92	0.92	Lbs/Day		2.50	2.50	ug/l
Anthracene	1	Year Round	1.07	1.07	Lbs/Day		2.91	2.91	ug/l
Benzene	1	Year Round	0.13	0.13	Lbs/Day		0.05	0.05	ug/l
Benzo (A) Anthracene	1	Year Round	1.07	1.07	Lbs/Day		2.91	2.91	ug/l
Benzo (A) Pyrene	1	Year Round	1.07	1.07	Lbs/Day		2.91	2.91	ug/l
Benzo (K) Fluoranthene	1	Year Round	1.07	1.07	Lbs/Day		2.91	2.91	ug/l
BIS(2-Ethylhexyl) Phthalate	1	Year Round	1.07	1.07	Lbs/Day		2.91	2.91	ug/l
BOD, 5-Day 20 Deg.C	1	Year Round	495.06	2186.20	Lbs/Day		1.72	7.00	mg/l
Carbon Tetrachloride	1	Year Round	0.09	0.09	Lbs/Day		0.25	0.25	ug/l
Chem. Oxygen Demand	1	Year Round	3626.38	7559.45	Lbs/Day		13.58	31.30	mg/l
Chlorine, Total Residual	1	Year Round	9.16	24.60	Lbs/Day		32.18	75.00	ug/l
Chlorobenzene	1	Year Round	0.05	0.05	Lbs/Day		0.13	0.13	ug/l
Chloroethane	1	Year Round	0.18	0.18	Lbs/Day		0.50	0.50	ug/l
Chloroform	1	Year Round	0.41	3.24	Lbs/Day		1.72	15.10	ug/l

8. DESCRIPTION OF DISCHARGES(as reported by applicant) - continue:

Effluent Characteristics For Outlet No. 005

			Quantity			Other Units			
Parameter	ML Code	Season	Monthly Avg	Max	Units	Min	Monthly Avg	Max	Units
Chrysene	1	Year Round	1.07	1.07	Lbs/Day		2.91	2.91	ug/l
Diethyl Phthalate	1	Year Round	1.07	1.07	Lbs/Day		2.91	2.91	ug/l
Dimethyl Phthalate	1	Year Round	1.07	1.07	Lbs/Day		2.91	2.91	ug/l
Di-n-butyl Phthalate	1	Year Round	1.07	1.07	Lbs/Day		2.91	2.91	ug/l
Ethyl Benzene	1	Year Round	0.09	0.09	Lbs/Day		0.25	0.25	ug/l
Flow,in Conduit or thru plar	1	Year Round					34.10	60.43	mgd
Fluoranthene	1	Year Round	1.07	1.07	Lbs/Day		2.91	2.91	ug/l
Fluorene	1	Year Round	1.07	1.07	Lbs/Day		2.91	2.91	ug/l
Hexachlorobenzene	1	Year Round	1.07	1.07	Lbs/Day		2.91	2.91	ug/l
Hexachlorobutadiene	1	Year Round	1.07	1.07	Lbs/Day		2.91	2.91	ug/l
Hexachloroethane	1	Year Round	1.07	1.07	Lbs/Day		2.91	2.91	ug/l
HFPO Dimer Acid	1	Year Round					11.06	440.00	ug/l
Methyl Chloride	1	Year Round	0.14	0.24	Lbs/Day		0.50	0.50	ug/l
Methylene Chloride	1	Year Round	0.07	0.12	Lbs/Day		0.27	0.57	ug/l
Naphthalene	1	Year Round	1.07	1.07	Lbs/Day		2.91	2.91	ug/l
Nitrobenzene	1	Year Round	1.07	1.07	Lbs/Day		2.91	2.91	ug/l
Other, Halomethanes	1	Year Round	0.21	0.36	Lbs/Day		0.77	1.07	ug/l
PFOA	1	Year Round	0.48	5.19	Lbs/Day		0.08	2.20	mg/l
pH	1	Year Round				6.47		8.28	S.U.
Phenanthrene	1	Year Round	1.07	1.07	Lbs/Day		2.91	2.91	ug/l
Phenol, Single Compound	1	Year Round	1.07	1.07	Lbs/Day		2.91	2.91	ug/l
Phenolics, Total Recoverat	1	Year Round	1.23	1.23	Lbs/Day		3.33	3.33	ug/l
Phthalate Esters	1	Year Round	4.28	4.28	Lbs/Day		11.64	11.64	ug/l
Pyrene	1	Year Round	1.07	1.07	Lbs/Day		2.91	2.91	ug/l
Tetrachloroethylene	1	Year Round	0.09	0.09	Lbs/Day		0.25	0.25	ug/l
Toluene	1	Year Round	0.12	1.00	Lbs/Day		0.49	4.97	ug/l
Total Organic Carbon	1	Year Round	1229.42	5114.00	Lbs/Day		4.26	12.80	mg/l
Total PAH	1	Year Round	17.14	17.14	Lbs/Day		46.56	46.56	ug/l
Total Suspended Solids	2	Year Round	1486.78	26982.10	Lbs/Day		5.49	84.80	mg/l
Total Suspended Solids	1	Year Round	9170.47	98540.60	Lbs/Day		32.78	401.00	mg/l
Trichloroethylene	1	Year Round	0.07	0.12	Lbs/Day		0.28	0.63	ug/l
Vinyl Chloride	1	Year Round	0.09	0.09	Lbs/Day		0.25	0.25	ug/l

8. DESCRIPTION OF DISCHARGES(as reported by applicant) - continue:

Effluent Characteristics For Outlet No. 006

			Quantity			Other Units			
Parameter	ML Code	Season	Monthly Avg	Max	Units	Min	Monthly Avg	Max	Units
Chemical Oxygen Demand	1	Year Round	0.83	16.60	Lbs/Day		14.88	50.40	mg/l
Chlorine, Total Residual	1	Year Round	0	0.03	Lbs/Day		32.00	32.00	ug/l
Flow,in Conduit or thru plar	1	Year Round						0.10	mgd
pH	1	Year Round				7.46		8.89	S.U.
Temperature, C	1	Year Round						25.61	DEG.C
Total Suspended Solids	1	Year Round	2.75	42.60	Lbs/Day		43.19	1110.00	mg/l

Effluent Characteristics For Outlet No. 007

			Quantity			Other Units			
Parameter	ML Code	Season	Monthly Avg	Max	Units	Min	Monthly Avg	Max	Units
Chlorine, Total Residual	1	Year Round	0.22	1.58	Lbs/Day		47.77	790.00	ug/l
Flow,in Conduit or thru plar	1	Year Round					0.69	1.98	mgd
pH	1	Year Round				7.42		8.50	S.U.
Temperature, F	1	Year Round					84.02	100.70	DEG F
Total Organic Carbon	1	Year Round	20.78	56.60	Lbs/Day		3.65	6.20	mg/l
Total Suspended Solids	1	Year Round	179.51	2797.60	Lbs/Day		29.98	312.00	mg/l

Effluent Characteristics For Outlet No. 011

			Quantity			Other Units			
Parameter	ML Code	Season	Monthly Avg	Max	Units	Min	Monthly Avg	Max	Units
Chem. Oxygen Demand	1	Year Round		38.40	Lbs/Day			50.90	mg/l
Flow,in Conduit or thru plar	1	Year Round						0.15	mgd
pH	1	Year Round				7.61		7.96	S.U.
Total Organic Carbon	1	Year Round		15.50	Lbs/Day			25.60	mg/l
Total Suspended Solids	1	Year Round		14.30	Lbs/Day			212.00	mg/l

8. **DESCRIPTION OF DISCHARGES(as reported by applicant) - continue:**

Effluent Characteristics For Outlet No. 013

			Quantity			Other Units			
Parameter	ML Code	Season	Monthly Avg	Max	Units	Min	Monthly Avg	Max	Units
Chloride (as Cl)	1	Year Round	0.002	0.006	Lbs/Day		21.17	89.10	mg/l
Flow,in Conduit or thru plar	1	Year Round					0.00002	0.0001	mgd
pH	1	Year Round				7.72		8.58	S.U.
Total Organic Carbon	1	Year Round	0.0005	0.002	Lbs/Day		4.57	11.40	mg/l
Total Suspended Solids	1	Year Round	0.002	0.006	Lbs/Day		12.58	28.50	mg/l

Effluent Characteristics For Outlet No. 016

			Quantity			Other Units			
Parameter	ML Code	Season	Monthly Avg	Max	Units	Min	Monthly Avg	Max	Units
Aluminum, Total (as Al)	1	Year Round		1.23	Lbs/Day			4.06	mg/l
Chem. Oxygen Demand	1	Year Round		35.94	Lbs/Day			41.10	mg/l
Chloride (as Cl)	1	Year Round		3.36	Lbs/Day			19.90	mg/l
Flow,in Conduit or thru plar	1	Year Round						0.11	mgd
Iron, Total (as Fe)	1	Year Round		1.32	Lbs/Day			7.36	mg/l
pH	1	Year Round				7.56		7.85	S.U.
Total Suspended Solids	1	Year Round		56.86	Lbs/Day			313.00	mg/l

Effluent Characteristics For Outlet No. 019

			Quantity			Other Units			
Parameter	ML Code	Season	Monthly Avg	Max	Units	Min	Monthly Avg	Max	Units
Aluminum, Total (as Al)	1	Year Round		0.05	Lbs/Day			3.07	mg/l
Chem. Oxygen Demand	1	Year Round		1.65	Lbs/Day			54.20	mg/l
Chloride (as Cl)	1	Year Round		0.28	Lbs/Day			14.20	mg/l
Flow,in Conduit or thru plar	1	Year Round						0.01	mgd
Iron, Total (as Fe)	1	Year Round		0.06	Lbs/Day			4.18	mg/l
pH	1	Year Round				7.72		7.91	S.U.
Total Suspended Solids	1	Year Round		0.82	Lbs/Day			202.00	mg/l

8. DESCRIPTION OF DISCHARGES(as reported by applicant) - continue:

Effluent Characteristics For Outlet No. 022

			Quantity			Other Units			
Parameter	ML Code	Season	Monthly Avg	Max	Units	Min	Monthly Avg	Max	Units
Aluminum, Total (as Al)	1	Year Round		1.53	Lbs/Day			3.37	mg/l
Chem. Oxygen Demand	1	Year Round		6.43	Lbs/Day			36.60	mg/l
Chloride (as Cl)	1	Year Round		3.56	Lbs/Day			305.00	mg/l
Flow,in Conduit or thru plar	1	Year Round						0.06	mgd
Iron, Total (as Fe)	1	Year Round		3.64	Lbs/Day			6.73	mg/l
pH	1	Year Round				7.67		8.97	S.U.
Total Suspended Solids	1	Year Round		185.39	Lbs/Day			343.00	mg/l

Effluent Characteristics For Outlet No. 023

			Quantity			Other Units			
Parameter	ML Code	Season	Monthly Avg	Max	Units	Min	Monthly Avg	Max	Units
Aluminum, Total (as Al)	1	Year Round		0.66	Lbs/Day			1.35	mg/l
Chem. Oxygen Demand	1	Year Round		69.30	Lbs/Day			66.10	mg/l
Chloride (as Cl)	1	Year Round		19.19	Lbs/Day			133.00	mg/l
Flow,in Conduit or thru plar	1	Year Round						0.18	mgd
Iron, Total (as Fe)	1	Year Round		0.98	Lbs/Day			2.32	mg/l
pH	1	Year Round				7.65		8.68	S.U.
Total Suspended Solids	1	Year Round		32.16	Lbs/Day			221.00	mg/l

Effluent Characteristics For Outlet No. 025

			Quantity			Other Units			
Parameter	ML Code	Season	Monthly Avg	Max	Units	Min	Monthly Avg	Max	Units
Aluminum, Total (as Al)	1	Year Round		0.16	Lbs/Day			2.91	mg/l
Chem. Oxygen Demand	1	Year Round		7.15	Lbs/Day			42.10	mg/l
Chloride (as Cl)	1	Year Round		184.37	Lbs/Day			1110.00	mg/l
Flow,in Conduit or thru plar	1	Year Round						0.07	mgd
Iron, Total (as Fe)	1	Year Round		0.18	Lbs/Day			4.63	mg/l
pH	1	Year Round				7.60		8.11	S.U.

8. **DESCRIPTION OF DISCHARGES(as reported by applicant) - continue:**

Effluent Characteristics For Outlet No. 025

			Quantity			Other Units			
Parameter	ML Code	Season	Monthly Avg	Max	Units	Min	Monthly Avg	Max	Units
Total Suspended Solids	1	Year Round		6.56	Lbs/Day			396.00	mg/l

Effluent Characteristics For Outlet No. 026

			Quantity			Other Units			
Parameter	ML Code	Season	Monthly Avg	Max	Units	Min	Monthly Avg	Max	Units
Aluminum, Total (as Al)	1	Year Round		0.55	Lbs/Day			6.78	mg/l
Chem. Oxygen Demand	1	Year Round		5.34	Lbs/Day			46.80	mg/l
Chloride (as Cl)	1	Year Round		3.04	Lbs/Day			47.00	mg/l
Flow,in Conduit or thru plar	1	Year Round						0.01	mgd
Iron, Total (as Fe)	1	Year Round		1.03	Lbs/Day			14.50	mg/l
pH	1	Year Round				7.71		8.51	S.U.
Total Suspended Solids	1	Year Round		36.05	Lbs/Day			592.00	mg/l

Effluent Characteristics For Outlet No. 028

			Quantity			Other Units			
Parameter	ML Code	Season	Monthly Avg	Max	Units	Min	Monthly Avg	Max	Units
Chem. Oxygen Demand	1	Year Round		0.003	Lbs/Day			37.80	mg/l
Flow,in Conduit or thru plar	1	Year Round						0.00001	mgd
pH	1	Year Round				7.78		8.71	S.U.
Total Organic Carbon	1	Year Round		0.001	Lbs/Day			15.30	mg/l
Total Suspended Solids	1	Year Round		0.002	Lbs/Day			28.00	mg/l

Effluent Characteristics For Outlet No. 105

			Quantity			Other Units			
Parameter	ML Code	Season	Monthly Avg	Max	Units	Min	Monthly Avg	Max	Units
1,1 Dichloroethane	1	Year Round	0	0	Lbs/Day		0.13	0.13	ug/l
1,1,1-Trichloroethane	1	Year Round	0	0	Lbs/Day		0.25	0.25	ug/l
1,1,2-Trichloroethane	1	Year Round	0	0	Lbs/Day		0.25	0.25	ug/l

8. DESCRIPTION OF DISCHARGES(as reported by applicant) - continue:

Effluent Characteristics For Outlet No. 105

			Quantity			Other Units			
Parameter	ML Code	Season	Monthly Avg	Max	Units	Min	Monthly Avg	Max	Units
1,1-Dichloroethylene	1	Year Round	0.01	0.01	Lbs/Day		0.50	0.50	ug/l
1,2,4-Trichlorobenzene	1	Year Round	0.04	0.04	Lbs/Day		3.05	3.05	ug/l
1,2-Dichlorobenzene	1	Year Round	0.04	0.04	Lbs/Day		3.05	3.05	ug/l
1,2-Dichloroethane	1	Year Round	0	0	Lbs/Day		0.25	0.25	ug/l
1,2-Dichloropropane	1	Year Round	0	0	Lbs/Day		0.20	0.20	ug/l
1,2-Trans-Dichloroethylene	1	Year Round	0	0	Lbs/Day		0.25	0.25	ug/l
1,3 Dichloropropylene	1	Year Round	0.01	0.01	Lbs/Day		0.50	0.50	ug/l
1,3-Dichlorobenzene	1	Year Round	0.04	0.04	Lbs/Day		3.05	3.05	ug/l
1,4-Dichlorobenzene	1	Year Round	0.04	0.04	Lbs/Day		3.05	3.05	ug/l
2,4-Dichlorophenol	1	Year Round	0.04	0.04	Lbs/Day		3.05	3.05	ug/l
2,4-Dimethylphenol	1	Year Round	0.04	0.04	Lbs/Day		3.05	3.05	ug/l
2,4-Dinitrophenol	1	Year Round	0.22	0.22	Lbs/Day		15.20	15.20	ug/l
2,4-Dinitrotoluene	1	Year Round	0.04	0.04	Lbs/Day		3.05	3.05	ug/l
2,6-Dinitrotoluene	1	Year Round	0.04	0.04	Lbs/Day		3.05	3.05	ug/l
2-Chlorophenol	1	Year Round	0.04	0.04	Lbs/Day		3.05	3.05	ug/l
2-Nitrophenol	1	Year Round	0.04	0.04	Lbs/Day		3.05	3.05	ug/l
3,4 Benzofluoranthene	1	Year Round	0.04	0.04	Lbs/Day		3.05	3.05	ug/l
4,6-Dinitro-o-cresol	1	Year Round	0.22	0.22	Lbs/Day		15.20	15.20	ug/l
4-Nitrophenol	1	Year Round	0.22	0.22	Lbs/Day		15.20	15.20	ug/l
Acenaphthene	1	Year Round	0.04	0.04	Lbs/Day		3.05	3.05	ug/l
Acenaphthylene	1	Year Round	0.04	0.04	Lbs/Day		3.05	3.05	ug/l
Acrylonitrile	1	Year Round	0.04	0.04	Lbs/Day		2.50	2.50	ug/l
Ammonia Nitrogen	1	Year Round	15.39	242.00	Lbs/Day		1.18	19.60	mg/l
Anthracene	1	Year Round	0.04	0.04	Lbs/Day		3.05	3.05	ug/l
Benzene	1	Year Round	0	0	Lbs/Day		0.13	0.13	ug/l
Benzo (A) Anthracene	1	Year Round	0.04	0.04	Lbs/Day		3.05	3.05	ug/l
Benzo (A) Pyrene	1	Year Round	0.04	0.04	Lbs/Day		3.05	3.05	ug/l
Benzo (K) Fluoranthene	1	Year Round	0.04	0.04	Lbs/Day		3.05	3.05	ug/l
BIS(2-Ethylhexyl) Phthalate	1	Year Round	0.04	0.04	Lbs/Day		3.05	3.05	ug/l
BOD, 5-Day 20 Deg.C.	1	Year Round	96.88	1427.40	Lbs/Day		7.62	109.00	mg/l
Carbon Tetrachloride	1	Year Round	0	0	Lbs/Day		0.25	0.25	ug/l
Chem. Oxygen Demand	1	Year Round	3393.49	27258.40	Lbs/Day		266.88	2150.00	mg/l
Chlorobenzene	1	Year Round	0	0	Lbs/Day		0.13	0.13	ug/l
Chloroethane	1	Year Round	0.01	0.01	Lbs/Day		0.50	0.50	ug/l

8. DESCRIPTION OF DISCHARGES(as reported by applicant) - continue:

Effluent Characteristics For Outlet No. 105

			Quantity			Other Units			
Parameter	ML Code	Season	Monthly Avg	Max	Units	Min	Monthly Avg	Max	Units
Chloroform	1	Year Round	0.14	0.14	Lbs/Day		9.22	9.22	ug/l
Chrysene	1	Year Round	0.04	0.04	Lbs/Day		3.05	3.05	ug/l
Coliform, Fecal	1	Year Round					2.61	350.00	Cnts/100ml
Diethyl Phthalate	1	Year Round	0.07	0.07	Lbs/Day		5.06	5.06	ug/l
Dimethyl Phthalate	1	Year Round	0.04	0.04	Lbs/Day		3.05	3.05	ug/l
Di-n-butyl Phthalate	1	Year Round	0.04	0.04	Lbs/Day		3.05	3.05	ug/l
Ethylbenzene	1	Year Round	0	0	Lbs/Day		0.25	0.25	ug/l
Flow in Conduit or thru plar	1	Year Round					1.50	2.25	mgd
Fluoranthene	1	Year Round	0.04	0.04	Lbs/Day		3.05	3.05	ug/l
Fluorene	1	Year Round	0.04	0.04	Lbs/Day		3.05	3.05	ug/l
Hexachlorobenzene	1	Year Round	0.04	0.04	Lbs/Day		3.05	3.05	ug/l
Hexachlorobutadiene	1	Year Round	0.04	0.04	Lbs/Day		3.05	3.05	ug/l
Hexachloroethane	1	Year Round	0.04	0.04	Lbs/Day		3.05	3.05	ug/l
Methyl Chloride	1	Year Round	0.01	0.01	Lbs/Day		0.50	0.50	ug/l
Methylene Chloride	1	Year Round	0	0.01	Lbs/Day		0.26	0.50	ug/l
Naphthalene	1	Year Round	0.04	0.04	Lbs/Day		3.05	3.05	ug/l
Nitrobenzene	1	Year Round	0.04	0.04	Lbs/Day		3.05	3.05	ug/l
PFOA	1	Year Round	0.03	0.13	Lbs/Day		2.16	10.00	ug/l
pH	1	Year Round				3.82		8.71	S.U.
pH Excursions Total Time	1	Year Round						7.00	Minutes
pH, No. of Excursions >60	1	Year Round		0	Ocur/Mon				
Phenanthrene	1	Year Round	0.04	0.04	Lbs/Day		3.05	3.05	ug/l
Phenol, Single Compound	1	Year Round	0.04	0.04	Lbs/Day		3.05	3.05	ug/l
Pyrene	1	Year Round	0.04	0.04	Lbs/Day		3.05	3.05	ug/l
Tetrachloroethylene	1	Year Round	0	0	Lbs/Day		0.25	0.25	ug/l
Toluene	1	Year Round	0.04	3.10	Lbs/Day		3.51	248.00	ug/l
Total Organic Carbon	1	Year Round	689.88	10234.40	Lbs/Day		54.27	818.00	mg/l
Total Suspended Solids	1	Year Round	482.48	10237.60	Lbs/Day		37.43	797.00	mg/l
Trichloroethylene	1	Year Round	0	0.01	Lbs/Day		0.26	0.43	ug/l
Vinyl Chloride	1	Year Round	0	0	Lbs/Day		0.25	0.25	ug/l

8. DESCRIPTION OF DISCHARGES(as reported by applicant) - continue:

Effluent Characteristics For Outlet No. 305

			Quantity			Other Units			
Parameter	ML Code	Season	Monthly Avg	Max	Units	Min	Monthly Avg	Max	Units
BOD, 5-Day 20 Deg.C	1	Year Round	0.70	1.10	Lbs/Day		1.07	1.50	mg/l
Chem. Oxygen Demand	1	Year Round	8.87	24.20	Lbs/Day		13.39	33.70	mg/l
Flow,in Conduit or thru plar	1	Year Round					0.07	0.13	mgd
HFPO Dimer Acid	G	Year Round					17937.97	325000.0l	ug/l
HFPO Dimer Acid	1	Year Round					2522.76	121400.00	ug/l
PFOA	1	Year Round	0.05	0.10	Lbs/Day		100.00	100.00	ug/l
pH	1	Year Round				3.44		8.66	S.U.
Total Suspended Solids	1	Year Round	4.66	7.50	Lbs/Day		6.57	10.50	mg/l

Effluent Characteristics For Outlet No. 605

			Quantity			Other Units			
Parameter	ML Code	Season	Monthly Avg	Max	Units	Min	Monthly Avg	Max	Units
HFPO Dimer Acid	G	Year Round					1077.30	30900.00	ug/l
HFPO Dimer Acid	1	Year Round					931.11	1100.00	ug/l

9. PROPOSED EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Refer to attached Section A and DMR pages of the Draft Permit.

10. RATIONALE FOR PROPOSED EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Background Information

E.I. DuPont de Nemours & Company (DuPont) was the permit holder until 2015. In 2015, the permit was transferred to the Chemours Company FC, LLC (Chemours or Permittee).

During the term of the previous permit, Dupont phased out the use of perfluorooctanoic acid (PFOA) at the Washington Works site. DuPont developed a replacement compound for PFOA (CAS# 335-67-1) which is perfluoro-2-propoxypropanoic acid (CAS# 13252-13-6) also known as GenX, HFPO-Dimer Acid, C3 Dimer Acid/Salt, or PFPrOPrA (herein after "HFPO-DA") which was presented by DuPont as a new-generation processing aid for the production of high-performance fluoropolymers. DuPont represented that this technology was a sustainable solution that included a new processing aid (HFPO-DA) with a favorable toxicological profile and rapid bioelimination. The U.S. EPA, through a Toxic Substances Control Act Section 5(e) Consent Order ("TSCA Order") executed by DuPont on January 28, 2009, granted DuPont approval, under conditions set forth in the TSCA Order, to commercially manufacture, process, and distribute the processing aid (HFPO-DA). The TSCA Order required that DuPont shall recover and capture (destroy) or

10. RATIONALE FOR PROPOSED EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)
recycle HFPO-DA (FRD903/902 as identified in the TSCA Order) "at an overall efficiency of 99% from all the effluent streams and the air emissions (point source and fugitive)." This requirement was interpreted by Dupont to be applied in the aggregate on an annual basis, for all U.S. sites where the HFPO-DA (GenX) processing aid is used. Ultimately, HFPO-DA would be used as a replacement for PFOA which DuPont would phase out by 2015.

DuPont contacted the WVDEP in regard to beginning the use of HFPO-DA in its processes as well as installing various treatment systems. It was determined that a Consent Order was the most expedient methodology to address these specific issues. Outlets 002 and 005 in WV/NPDES Permit No. WV0001279 contain the process wastewaters associated with the HFPO-DA compound and the previously used PFOA compound. In consideration of the prior history with PFOA and its toxicity, the WVDEP had concerns with this new compound and sought to assess the potential toxicity with HFPO-DA in the process wastewater discharges to the Ohio River. Limited toxicological studies on HFPO-DA were available at the time that the WVDEP was evaluating the Consent Order; however, upon request by the WVDEP, DuPont provided toxicological studies conducted by DuPont to the WVDEP in March 2011 and in August 2011. These studies were reviewed by a WVDEP toxicologist in order to determine an appropriate threshold level for HFPO-DA that would be protective of WV's narrative water quality standards and designated uses of the Ohio River. The WVDEP determined, based on the toxicological information provided and all other information available at that time, that a level of at least 17.5 ug/l must be maintained in the receiving stream in order to be protective of WV's narrative water quality standards and the designated uses of the Ohio River. Water quality based effluent limits were determined using this value in conjunction with a mixing zone at Outlets 002 and 005. These water quality-based effluent limits were imposed as terms of the Consent Order.

After a public notice period, the WVDEP and DuPont entered into Consent Order No. 7418 issued on January 31, 2012 which: allowed the construction of various treatment units, allowed the use of HFPO-DA in DuPont's processes, and imposed effluent limitations and monitoring requirements for HFPO-DA (identified in said Order as C3 Dimer Acid/Salt). This Consent Order also provided for a reassessment of effluent limitations based upon new studies or information regarding HFPO-DA.

New information is available regarding PFOA and HFPO-DA. This information is being utilized in this permit reissuance to assess legacy PFOA levels as well as current HFPO-DA levels contained in discharges in this permit.

Limitations must control all pollutants which may be discharged at a level which will cause, or have the reasonable potential to cause, or contribute to an excursion above any State water quality standard, including State narrative criteria for water quality. Additionally, where a State has not established a water quality criterion for a specific chemical pollutant that is present in an effluent at a concentration that causes, has the reasonable potential to cause, or contributes to an excursion above a narrative criterion within an applicable State water quality standard, the permitting authority must establish effluent limits. In determining an appropriate value to be protective of narrative criterion, risk assessment data may be considered. West Virginia does not currently have any numeric water quality criteria prescribed for PFOA or HFPO-DA. However, the agency does have concerns with the toxicity from PFOA and HFPO-DA and its impact on the narrative water quality criteria found in 47 CSR 2, Section 3.2.e which prohibits discharges from discharging materials in concentrations which are harmful to or toxic to man, animal, or aquatic life. Therefore, the agency does possess a narrative water quality criterion which can be used for limiting specific pollutants where the State has no numeric criteria for those pollutants.

In 2016, the US EPA updated its human health advisory level for PFOA which was developed using risk assessment procedures. EPA's health advisories are based on the best available peer-reviewed studies of

10. RATIONALE FOR PROPOSED EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

the effects of PFOA and PFOS (perfluorooctanesulfonic acid) on laboratory animals (rats and mice) and were also informed by epidemiological studies of human populations that have been exposed to perfluoroalkyl substances (PFASs). These studies indicate that exposure to PFOA and PFOS over certain levels may result in adverse health effects, including developmental effects to fetuses during pregnancy or to breastfed infants (e.g., low birth weight, accelerated puberty, skeletal variations), cancer (e.g., testicular, kidney), liver effects (e.g., tissue damage), immune effects (e.g., antibody production and immunity), thyroid effects and other effects (e.g., cholesterol changes). The US EPA has established a human health advisory level of 70 nanograms per liter (ng/L) or parts per trillion (ppt) for PFOA + PFOS combined. The WVDEP is using this value to be protective of the State's narrative water quality criteria for human health and the designated uses of the Ohio River.

In June 2017, HFPO-DA (GenX) became a concern in the Cape Fear River in North Carolina at the Chemours-Fayetteville Works plant where Chemours operates another chemical manufacturing facility. The North Carolina Department of Environmental Quality and Health and Human Services investigation focused on the protection of public health and drinking water. As part of the North Carolina's investigation, numerous water samples were tested to analyze drinking water safety. There is limited information about the health effects of HFPO-DA (GenX). There are no federal health guidelines for HFPO-DA (GenX). In July 2017, North Carolina reached out to the US EPA for assistance in developing an updated health screening level for HFPO-DA (GenX) to help with this process. Laboratory studies on animals show negative effects to the liver and blood, along with cancer of the liver, pancreas, and testicles. North Carolina in conjunction with the US EPA used available toxicity information to set a health goal for HFPO-DA (GenX) in drinking water at 140 nanograms per liter (ng/L) or parts per trillion (ppt). This health goal may change as new information becomes available. The WVDEP is using this value to be protective of the State's narrative water quality criteria for human health and the designated uses of the Ohio River.

In order to be protective of the narrative water quality and the designated uses of the Ohio River, the WVDEP believes it is necessary to evaluate the necessity of water quality-based effluent limits for PFOA and HFPO-DA at the facility. These evaluations are discussed later on in this section of the fact sheet.

Receiving Waters and Water Use Classification

The receiving water for these outlets is the Ohio River, which is listed on the 303(d) list for Iron and Dioxin (2012, WVDEP) with TMDLs developed for Dioxin (2000) and PCBs (2002).

7Q10 Ohio River = 6560 cfs
1Q10 Ohio River = 5170 cfs
Assumed Temperature for WQBELs: 27 C
pH: 8.1 s.u.

Background data for Ohio River from ORSANCO 2014-2016

Stream Hardness:	109 mg/l
Aluminum	0.392 mg/l
Ammonia:	0.03 mg/l
Chloride:	33.9 mg/l
Copper:	0.0024 mg/l
Lead:	0.0009 mg/l
Zinc:	0.0008 mg/l

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Iron:	0.73 mg/l
Sulfate:	64.3 mg/l
Phenolics:	0.0024 mg/l
Methylene Chloride:	0.125 ug/l (Chemours, 2015-2017)
Trichloroethene:	0.125 ug/l (Chemours, 2015-2017)
Chloroform:	0.5 ug/l (Chemours, 2015-2017)
PFOA:	0.0025 - 0.0614 ug/l (Chemours, 2016/17)
HFPO:	0.005 - 0365 ug/l (Chemours, 2017)

Outlet 002/005 - Summary of Wastewater and Treatment Technologies

Chemours operates multiple separate manufacturing units onsite that produce a variety of organic chemical products. In addition, Chemours accepts wastewater from E.I. DuPont de Nemours and Kuraray into their primary biological treatment system (Outlet 005). Chemours also operates non-biological / physical treatment systems via Outlet 002.

The facility employs the following treatment for process wastewater that is discharged via outlet 002. Non-biological end of pipe treatment (40 CFR 414 Subpart J) is primarily used to treat the process wastewater:

pH Neutralization / Demineralization (P&S Site)
pH Neutralization / Clarification / Filtration / Carbon Adsorption (Fluoroproducts East)
Sedimentation (Polymer Compounding East)
Chemical Precipitation / Equalization / Filtration (Fluoropolymers East)
Dechlorination (P&S Site, Fluoroproducts East, Nylon Resins, Nylon Fibers, Polymer Compounding East)

The facility employs the following treatment for process wastewater that is discharged via outlet 005. Biological end of pipe treatment (40 CFR 414 Subpart I) is primarily used to treat the process wastewater:

Sedimentation Tanks
Equalization
In-Line Neutralization
Bio-Oxidation Waste Treatment
Activated Sludge
Clarification
Sludge Recycling
Sludge Filtering

Outlet 001

A default mixing zone (zid=3, cmz=10, HHCmz=30) is granted for Outlet 001 for PFOA, HFPO, zinc, phenolics, and total residual chlorine. All of these parameters indicate a reasonable potential to exceed water quality criteria (WQC) at the end of pipe. PFOA, HFPO, total residual chlorine and zinc indicate a reasonable potential to exceed a water quality criteria with a default mixing zone. WQBELs are imposed for these parameters.The permittee cannot consistently achieve the HFPO or PFOA limitations; therefore, a 36 month compliance schedule has been granted.

A reasonable potential assessment was conducted to determine if WQBELs were needed to protect the temperature WQC. Background data for the Ohio River was prescribed for the individual months to account

10. RATIONALE FOR PROPOSED EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

for seasonal variations. A default mixing zone of 3 dilutions for the ZID and 10 dilutions for the CMZ was granted. A reasonable potential assessment was conducted over each of the aforementioned time frames using each time frame's corresponding background data and projected temperature discharge levels provided. There was reasonable potential to exceed WQC at the end of pipe but not at the edge of a default mixing zone (zid=3, cmz=10) for the month of May. Monitoring is imposed.

The agency evaluated the need for technology-based effluent limitations to ensure the operation and maintenance of the units meets a minimum standard to ensure adequate operation, maintenance, pollution prevention, and waste minimization practices at the facility. The agency established technology-based effluent limitations for total suspended solids and total organic carbon on a Best Professional Judgment (BPJ) basis in accordance with Section 402(a)(1) of the Clean Water Act. Derivations of the performance-based limitations were based on EPA's NPDES Permit Writer's Manual, EPA's Technical Support Document (Appendix E), and 40 CFR 125.3(d).

The following considerations were given in the development of BPJ limits:

1. Cost of technology in relation to effluent reduction benefits to be achieved from such application.
2. Age of equipment and facilities involved.
3. Processes employed.
4. Engineering aspects of the application of various types of control techniques.
5. Process Changes.
6. Non-water quality environmental impact including energy requirements.

As a result of the BPJ-based limit imposed, there is no additional cost to the permittee to meet these limits as these limits are based off of the permittee's existing technology. The age of equipment and facilities involved were considered in that the basis of these limits captures the existing performance of the permittee's equipment. The processes employed and any variation due to process changes at the facility were considered by the agency by using recent actual performance discharge data by the permittee which accounts for variability in the processes. Engineering aspects of control techniques were considered because the limits are based upon the existing techniques employed by the permittee. Non-water quality environmental impacts such as energy requirements are also considered because this limit is based upon the permittee's existing technology and pollution control techniques. In general, the imposition of this BPJ-based limitation considered the existing technology currently being utilized by the permittee in addition to its existing performance levels. The agency followed the procedures in the NPDES Permit Writer's Manual along with the statistical equations in the Technical Support Document (TSD) to develop the BPJ limit. In general, the BPJ limit is the product of the long-term average and a variability factor. The agency used the historical DMR data reported for the respective parameter to establish a long-term average (LTA) and determined a variability factor using the lognormal distribution equations in Appendix E of the TSD. These limitations should further be protective of narrative water quality standards since, to the agency's knowledge, current discharge levels at the facility have not violated narrative water quality criteria. Calculations are attached to the fact sheet.

Outlet 002 - OCPSF Effluent Guidelines

Outlet 002 is subject to OCPSF effluent limit guidelines (ELG) in 40 CFR 414 Subpart C (Other Fibers), Subpart D (Thermoplastic Resins) and Subpart J (Direct discharge point sources that do not use end-of-pipe biological treatment).

The respective percentage of flows subject to Subparts C, D, and J were determined from the flows reported

10. RATIONALE FOR PROPOSED EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

by the permittee in the permit application. The overall long-term average (LTA) flow at Outlet 002 is listed below. The relative LTA flows subject to each part of the OCPSF guideline are listed below. These flows were used in calculating the respective mass limits subject to the OCPSF Guideline.

Total Outlet 002 Flow: 9.457 MGD (application)
Total Long Term Average Flow as Reported in DMRs = 6.06 MGD

Relative % of flow subject to 40 CFR 414 Subpart C: 1.89 %
Relative % of flow subject to 40 CFR 414 Subpart D: 28.6 %
Relative % of flow subject to 40 CFR 414 Subpart J: 30.5 %
Relative % of flow subject to 40 CFR 414 Appendix A (Zn): 11.4 %

In conformance with 40 CFR 122.44(a)(2), a monitoring waiver may be granted for those pollutants which the permittee can justify are not present in the discharge. The permittee has indicated that it does not manufacture or generate as a by-product many of the chemicals listed in the guideline (except 3,4-Benzofluoranthene, Chloroform, methyl chloride, methylene chloride, toluene, and trichloroethylene). Historical data has shown consistent non-detects for numerous pollutants and the waiver has been granted. However, this regulation does not waive the permit limitations for all applicable guideline-listed pollutants in 40 CFR 414 Subpart J. Therefore, a monitoring waiver is granted for the pollutants; however, the limitations shall remain in effect as indicated in the permit. The permittee must still sample the pollutants being granted a waiver as part of the required testing for the next permit renewal application.

The permittee has also certified that no chromium, lead, copper, or nickel metal bearing wastestreams or cyanide bearing wastestreams as listed in Appendix A of 40 CFR 414 Appendix A are used in the manufacturing processes.

Calculations are attached to the Fact Sheet.

Outlet 002

A default mixing zone (zid=3, cmz=10, HHCmz=30) is granted for Outlet 002 for PFOA, HFPO, ammonia, chloride, copper, phenolics, zinc, and total residual chlorine. All of these parameters indicate a reasonable potential to exceed water quality criteria (WQC) at the end of pipe except for zinc. PFOA, HFPO, ammonia and total residual chlorine indicate a reasonable potential to exceed a water quality criteria with a default mixing zone. WQBELs are imposed for these parameters. The permittee cannot consistently achieve the PFOA, HFPO, or ammonia limitations; therefore, a 36 month compliance schedule has been granted. Interim limitations for PFOA and HFPO have been imposed based on a review of the prior two years of effluent data. A review of this data indicates the permittee can achieve the interim limitations being imposed.

Fecal coliform indicates a reasonable potential to exceed water quality criteria (WQC) at the end of pipe. WQBELs are imposed. A mixing zone cannot be granted since a background value has not been established for the receiving stream for chloroform. The permittee cannot consistently achieve the fecal coliform limitations (based on one sample result) and therefore Administrative Order No. 8797 is being issued with the permit to address compliance.

3,4-benzofluoranthene does not have a reasonable potential to exceed a water quality criteria end of pipe; however, the calculated WQBELs for this parameter are more stringent than the imposed 40 CFR 414 ELGs at this outlet and therefore must be imposed.

10. RATIONALE FOR PROPOSED EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

The agency evaluated the need for technology-based effluent limitations to ensure the operation and maintenance of the units meets a minimum standard to ensure adequate operation, maintenance, pollution prevention, and waste minimization practices at the facility. The agency established technology-based effluent limitations for total organic carbon on a Best Professional Judgment (BPJ) basis in accordance with Section 402(a)(1) of the Clean Water Act. Derivations of the performance-based limitations were based on EPA's NPDES Permit Writer's Manual, EPA's Technical Support Document (Appendix E), and 40 CFR 125.3 (d).

The following considerations were given in the development of BPJ limits:

1. Cost of technology in relation to effluent reduction benefits to be achieved from such application.
2. Age of equipment and facilities involved.
3. Processes employed.
4. Engineering aspects of the application of various types of control techniques.
5. Process Changes.
6. Non-water quality environmental impact including energy requirements.

As a result of the BPJ-based limit imposed, there is no additional cost to the permittee to meet these limits as these limits are based off of the permittee's existing technology. The age of equipment and facilities involved were considered in that the basis of these limits captures the existing performance of the permittee's equipment. The processes employed and any variation due to process changes at the facility were considered by the agency by using recent actual performance discharge data by the permittee which accounts for variability in the processes. Engineering aspects of control techniques were considered because the limits are based upon the existing techniques employed by the permittee. Non-water quality environmental impacts such as energy requirements are also considered because this limit is based upon the permittee's existing technology and pollution control techniques. In general, the imposition of this BPJ-based limitation considered the existing technology currently being utilized by the permittee in addition to its existing performance levels. The agency followed the procedures in the NPDES Permit Writer's Manual along with the statistical equations in the Technical Support Document (TSD) to develop the BPJ limit. In general, the BPJ limit is the product of the long-term average and a variability factor. The agency used the historical DMR data reported for the respective parameter to establish a long-term average (LTA) and determined a variability factor using the lognormal distribution equations in Appendix E of the TSD. These limitations should further be protective of narrative water quality standards since, to the agency's knowledge, current discharge levels at the facility have not violated narrative water quality criteria. Calculations are attached to the fact sheet.

Outlet 003

A default mixing zone (zid=3, cmz=10, HHCmz=30) is granted for Outlet 003 for PFOA, HFPO, total residual chlorine and phenolics. All of these parameters indicate a reasonable potential to exceed water quality criteria (WQC) at the end of pipe. PFOA, and total residual chlorine indicate a reasonable potential to exceed a water quality criteria with a default mixing zone. WQBELs are imposed. The permittee cannot consistently achieve the PFOA limitations; therefore, a 36 month compliance schedule has been granted.

A reasonable potential assessment was conducted to determine if WQBELs were needed to protect the temperature WQC. Background data for the Ohio River was prescribed for the individual months to account for seasonal variations. A default mixing zone of 3 dilutions for the ZID and 10 dilutions for the CMZ was

10. RATIONALE FOR PROPOSED EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

granted. A reasonable potential assessment was conducted over each of aforementioned time frames using each time frame's corresponding background data and projected temperature discharge levels provided. There was reasonable potential to exceed WQC at end of pipe and at the edge of a default mixing zone (zid=3, cmz=10) for the months of May, July, August, and October. WQBELs are imposed.

The agency evaluated the need for technology-based effluent limitations to ensure the operation and maintenance of the units meets a minimum standard to ensure adequate operation, maintenance, pollution prevention, and waste minimization practices at the facility. The agency established technology-based effluent limitations for total suspended solids and total organic carbon on a Best Professional Judgment (BPJ) basis in accordance with Section 402(a)(1) of the Clean Water Act. Derivations of the performance-based limitations were based on EPA's NPDES Permit Writer's Manual, EPA's Technical Support Document (Appendix E), and 40 CFR 125.3(d).

The following considerations were given in the development of BPJ limits:

1. Cost of technology in relation to effluent reduction benefits to be achieved from such application.
2. Age of equipment and facilities involved.
3. Processes employed.
4. Engineering aspects of the application of various types of control techniques.
5. Process Changes.
6. Non-water quality environmental impact including energy requirements.

As a result of the BPJ-based limit imposed, there is no additional cost to the permittee to meet these limits as these limits are based off of the permittee's existing technology. The age of equipment and facilities involved were considered in that the basis of these limits captures the existing performance of the permittee's equipment. The processes employed and any variation due to process changes at the facility were considered by the agency by using recent actual performance discharge data by the permittee which accounts for variability in the processes. Engineering aspects of control techniques were considered because the limits are based upon the existing techniques employed by the permittee. Non-water quality environmental impacts such as energy requirements are also considered because this limit is based upon the permittee's existing technology and pollution control techniques. In general, the imposition of this BPJ-based limitation considered the existing technology currently being utilized by the permittee in addition to its existing performance levels. The agency followed the procedures in the NPDES Permit Writer's Manual along with the statistical equations in the Technical Support Document (TSD) to develop the BPJ limit. In general, the BPJ limit is the product of the long-term average and a variability factor. The agency used the historical DMR data reported for the respective parameter to establish a long-term average (LTA) and determined a variability factor using the lognormal distribution equations in Appendix E of the TSD. These limitations should further be protective of narrative water quality standards since, to the agency's knowledge, current discharge levels at the facility have not violated narrative water quality criteria. Calculations are attached to the fact sheet.

Outlet 005 - OCPSF Effluent Guidelines

Outlet 005 is subject to OCPSF effluent limit guidelines (ELG) in 40 CFR 414. Out of the approximately 34 MGD of flow at Outlet 005, only 3 MGD of the wastewater gets biological treatment (Internal Outlet 105). Internal Outlet 105 also receives offsite wastewater from Kuraray (new Internal Outlet 125) and from a sanitary sewage package plant (new Internal Outlet 115). After treatment, the Internal Outlet 105 wastewater combines with additional 40 CFR 414 wastewaters (approximately 3.1 MGD) from the Fluoroproducts West

10. RATIONALE FOR PROPOSED EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

Unit (Internal Outlet 305), Polyacetal Resins (new Internal Outlet 405), Specialty Compounding (new Internal Outlet 505, E.I. DuPont de Nemours), and Fluoropolymers (new Internal Outlet 605). These wastewaters do not receive biological end of pipe treatment. The remaining wastewater is generated from non-contact cooling and other miscellaneous operations (new Internal Outlet 205).

Outlet 005 and its internal outlets are subject to 40 CFR Subpart D (Thermoplastic Resins), Subpart E (Thermosetting Resins), Subpart I (Direct discharge point sources that use end-of-pipe biological treatment) , and Subpart J (Direct discharge point sources that do not use end-of-pipe biological treatment). Due to the large amount of non-process wastewater that is generated at this outlet, BOD and TSS ELG limitations are being imposed at Internal Outlet 205 which is the sum of the individual manufacturing units (Internal Outlets 305, 405, 505, and 605) because the permittee does not currently have a means to sample Internal Outlets 305, 405, 505, and 605 separately. Subpart I and J ELG limitations are being imposed at Outlet 005 directly.

***Outlet 005 Flow Calculations

Total Outlet 005 Flow: 35.49 MGD (application)
Total Long Term Average Flow as Reported in DMRs = 34.67 MGD

Relative % of flow subject to 40 CFR 414 Subpart I: 10.32 %
Relative % of flow subject to 40 CFR 414 Subpart J: 10.52 %

***Internal Outlet 105 Flow Calculations

Total Internal Outlet 105 Flow: 3.66 MGD (application)
Total Long Term Average Flow as Reported in DMRs = 1.48 MGD

Relative % of flow subject to 40 CFR 414 Subpart D: 83.8 %
Relative % of flow subject to 40 CFR 414 Subpart E: 16.2 %
Relative % of flow subject to 40 CFR 414 Appendix A (Zn): 6.84 %

***Internal Outlet 305 Flow Calculations

Total Internal Outlet 305 Flow: 0.9 MGD (application)
Total Long Term Average Flow as Reported in DMRs = 0.071
Estimated Long Term Average Flow to 40 CFR 414 Subpart D and J: 0.069 MGD

***New Internal Outlet 405 Flow Calculations

Total Internal Outlet 405 Flow: 0.825 MGD (application)
Total Long Term Average Flow as Reported in DMRs = unknown (new Outlet)
Estimated Long Term Average Flow to 40 CFR 414 Subpart E and J: 0.806 MGD

***New Internal Outlet 505 Flow Calculations (E.I. DuPont de Nemours)

Total Internal Outlet 505 Flow: 0.337 MGD (application)
Total Long Term Average Flow as Reported in DMRs = unknown (new Outlet)
Estimated Long Term Average Flow to 40 CFR 414 Subpart D and J: 0.329 MGD

10. RATIONALE FOR PROPOSED EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

***New Internal Outlet 605 Flow Calculations

Total Internal Outlet 605 Flow: 1.67 MGD (application)
Total Long Term Average Flow as Reported in DMRs = unknown (new Outlet)
Estimated Long Term Average Flow to 40 CFR 414 Subpart D and J: 1.63 MGD

In conformance with 40 CFR 122.44(a)(2), a monitoring waiver may be granted for those pollutants which the permittee can justify are not present in the discharge. The permittee has indicated that it does not manufacture or generate as a by-product many of the chemicals listed in the guideline (except 3,4-Benzofluoranthene, Chloroform, methyl chloride, methylene chloride, toluene, and trichloroethylene). Historical data has shown consistent non-detects for numerous pollutants and the waiver has been granted. However, this regulation does not waive the permit limitations for all applicable guideline-listed pollutants in 40 CFR 414 Subpart I and J. Therefore, a monitoring waiver is granted for the pollutants; however, the limitations shall remain in effect as indicated in the permit. The permittee must still sample the pollutants being granted a waiver as part of the required testing for the next permit renewal application.

The permittee has also certified that no chromium, lead, copper, or nickel metal bearing wastestreams or cyanide bearing wastestreams as listed in Appendix A of 40 CFR 414 Appendix A are used in the manufacturing processes.

***Internal Outlet 115 - Sanitary Wastewater
All of the sanitary wastes from the facility are collected and treated at the package sewage treatment plant. The treated effluent is discharged From Internal Outlet 115 to Internal Outlet 105 and ultimately to Outlet 005 to the Ohio River. Effluent limitations in conformance with secondary treatment standards for a sewage treatment plant are imposed at this internal outfall.

***Internal Outlet 125 - Kuraray (Butacite / Polyvinyl Butyral)
The permittee accepts offsite wastewater from Kuraray for ultimate treatment and disposal in the Internal Outlet 105 biological treatment unit. Flow monitoring is imposed for mass balance purposes.

***Internal Outlet 205
Internal Outlet 205 serves as the compliance monitoring location for BOD and TSS technology based effluent limitations required under 40 CFR 414. Compliance with effluent guideline effluent limits are required to be imposed at the discharge location where the process wastewater is generated. In this case, certain process wastewaters generated from various units are represented by Internal Outlets 305, 405, 505, and 605 in this permit. Each of these units had their respective BOD and TSS limitations calculated. All wastewater from these internal outfalls combine and are dechlorinated and this location is being designated as Internal Outlet 205; however, there is no other treatment provided for these wastewaters even though they are subject to 40 CFR 414. Wastewater from Internal Outlet 205 ultimately mixes with wastewaters from Internal Outlet 105 prior to all of these wastewaters (Internal Outlet 105 and 205) discharging through Outlet 005 directly to the Ohio River. There is a significant amount of cooling water that is also mixed with wastewater from Internal Outlets 305, 405, 505, and 605 which is captured in monitoring at Internal Outlet 205. This is a concern due to the potential of the cooling water serving as dilution (masking) to achieve the effluent guideline limitations. This is further complicated because the permittee utilizes both groundwater and river water as its source of cooling water. Net TSS limitations have been developed and imposed at Internal Outlet 205 only because the permittee has indicated that it does not have a means to sample the individual units represented by Internal Outlets 305, 405, 505, and 605. Net limitations can only be considered if the source water is the same as the receiving water; therefore, the agency determined the relative percentage of flow of cooling water that comes from the river water intake for Internal Outlet 205. Net

10. RATIONALE FOR PROPOSED EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

TSS calculated values are to be calculated in accordance with Section C.32 of the permit which defines the calculation which is a function of the discharge flow at Internal Outlet 205, the river water percentage, and the TSS gross values collected at Internal Outlet 205 and the river water intake. The prior permit imposed a similar concept at the main discharge from Outlet 005 after the other wastewaters from Internal Outlet 105 were mixed with it (although, the agency is unclear on the basis of the actual TSS effluent limitations imposed). The agency believes this is inappropriate as further mixing additional treated wastewaters from Internal Outlet 105 will further contribute to potential dilution (masking) to ensure compliance with the effluent guideline requirements of other units.

Calculations are attached to the Fact Sheet.

Outlet 005

A default mixing zone (zid=3, cmz=10, HHCmz=30) is granted for Outlet 005 for PFOA, HFPO, ammonia and total residual chlorine. Ammonia and total residual chlorine indicate a reasonable potential to exceed water quality criteria (WQC) at the end of pipe. PFOA, HFPO, and total residual chlorine indicate a reasonable potential to exceed a water quality criteria with a default mixing zone. WQBELs are imposed. The permittee cannot consistently achieve the HFPO or PFOA limitations; therefore, a 36 month compliance schedule has been granted. Interim limitations for PFOA and HFPO have been imposed based on a review of the prior two years of effluent data. A review of this data indicates the permittee can achieve the interim limitations being imposed.

3,4-benzofluoranthene does not have a reasonable potential to exceed a water quality criteria end of pipe; however, the calculated WQBELs for this parameter is more stringent than the imposed 40 CFR 414 ELGs at this outlet and therefore must be imposed.

The agency evaluated the need for technology-based effluent limitations to ensure the operation and maintenance of the units meets a minimum standard to ensure adequate operation, maintenance, pollution prevention, and waste minimization practices at the facility. The agency established technology-based effluent limitations for total organic carbon on a Best Professional Judgment (BPJ) basis in accordance with Section 402(a)(1) of the Clean Water Act. Derivations of the performance-based limitations were based on EPA's NPDES Permit Writer's Manual, EPA's Technical Support Document (Appendix E), and 40 CFR 125.3 (d).

The following considerations were given in the development of BPJ limits:

1. Cost of technology in relation to effluent reduction benefits to be achieved from such application.
2. Age of equipment and facilities involved.
3. Processes employed.
4. Engineering aspects of the application of various types of control techniques.
5. Process Changes.
6. Non-water quality environmental impact including energy requirements.

As a result of the BPJ-based limit imposed, there is no additional cost to the permittee to meet these limits as these limits are based off of the permittee's existing technology. The age of equipment and facilities involved were considered in that the basis of these limits captures the existing performance of the permittee's equipment. The processes employed and any variation due to process changes at the facility were considered by the agency by using recent actual performance discharge data by the permittee which

10. RATIONALE FOR PROPOSED EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

accounts for variability in the processes. Engineering aspects of control techniques were considered because the limits are based upon the existing techniques employed by the permittee. Non-water quality environmental impacts such as energy requirements are also considered because this limit is based upon the permittee's existing technology and pollution control techniques. In general, the imposition of this BPJ-based limitation considered the existing technology currently being utilized by the permittee in addition to its existing performance levels. The agency followed the procedures in the NPDES Permit Writer's Manual along with the statistical equations in the Technical Support Document (TSD) to develop the BPJ limit. In general, the BPJ limit is the product of the long-term average and a variability factor. The agency used the historical DMR data reported for the respective parameter to establish a long-term average (LTA) and determined a variability factor using the lognormal distribution equations in Appendix E of the TSD. These limitations should further be protective of narrative water quality standards since, to the agency's knowledge, current discharge levels at the facility have not violated narrative water quality criteria. Calculations are attached to the fact sheet.

Outlet 006

A default mixing zone (zid=3 and cmz=10) is granted for Outlet 006 for total residual chlorine and phenolics. All of these parameters indicate a reasonable potential to exceed water quality criteria (WQC) at the end of pipe. Total residual chlorine indicates a reasonable potential to exceed a water quality criteria with a default mixing zone. WQBELs are imposed.

HFPO indicate a reasonable potential to exceed water quality criteria (WQC) at end of pipe. A mixing zone cannot be granted since a background value has not been established for the receiving stream for HFPO that is representative of the discharge location. WQBELs are imposed. The permittee cannot consistently achieve the HFPO limitations; therefore, a 36 month compliance schedule has been granted.

The agency evaluated the need for technology-based effluent limitations to ensure the operation and maintenance of the units meets a minimum standard to ensure adequate operation, maintenance, pollution prevention, and waste minimization practices at the facility. The agency established technology-based effluent limitations for total suspended solids on a Best Professional Judgment (BPJ) basis in accordance with Section 402(a)(1) of the Clean Water Act. Derivations of the performance-based limitations were based on EPA's NPDES Permit Writer's Manual, EPA's Technical Support Document (Appendix E), and 40 CFR 125.3(d).

The following considerations were given in the development of BPJ limits:

1. Cost of technology in relation to effluent reduction benefits to be achieved from such application.
2. Age of equipment and facilities involved.
3. Processes employed.
4. Engineering aspects of the application of various types of control techniques.
5. Process Changes.
6. Non-water quality environmental impact including energy requirements.

11. RATIONALE FOR VARIANCE DECISIONS

N/A

12. DETAILED DESCRIPTION OF LOCATION OF DISCHARGE(s)

Outlet No.	Latitude	Longitude	Receiving Stream
001	39°16'19"	81°39'42"	OHIO RV
002	39°16'20"	81°40'00"	OHIO RV
003	39°16'20"	81°40'01"	OHIO RV
005	39°16'18"	81°40'30"	OHIO RV
006	39°15'58"	81°40'43"	Unnamed Tributary Of OHIO RV
007	39°16'19"	81°40'16"	OHIO RV
011	39°16'13"	81°39'21"	COAL HL
013	39°16'18"	81°40'10"	OHIO RV
016	39°16'15"	81°40'31"	OHIO RV
019	39°16'13"	81°40'34"	OHIO RV
022	39°15'52"	81°40'24"	Unnamed Tributary Of OHIO RV
023	39°15'50"	81°40'35"	Unnamed Tributary Of OHIO RV
025	39°15'53"	81°40'29"	Unnamed Tributary Of OHIO RV
026	39°16'07"	81°40'39"	OHIO RV
028	39°15'52"	81°40'33"	Unnamed Tributary Of OHIO RV
030	39°16'21"	81°39'59"	OHIO RV
031	39°16'20"	81°40'07"	OHIO RV
032	39°16'20"	81°40'12"	OHIO RV
033	39°16'19"	81°40'17"	OHIO RV
034	39°16'18"	81°40'23"	OHIO RV
036	39°16'15"	81°40'34"	OHIO RV
102	39°16'19"	81°40'05"	N/A
103	39°16'19"	81°40'05"	N/A
105	39°16'18"	81°40'30"	N/A
115	39°16'15"	81°40'35"	N/A
125	39°15'58"	81°40'43"	N/A
202	39°16'19"	81°40'05"	N/A
205	39°16'18"	81°40'30"	N/A
305	39°16'18"	81°40'30"	N/A
405	39°16'18"	81°40'30"	N/A
505	39°16'15"	81°40'35"	N/A

12. DETAILED DESCRIPTION OF LOCATION OF DISCHARGE(s)

Outlet No.	Latitude	Longitude	Receiving Stream
605	39°15'58"	81°40'43"	N/A

13. ANTIDEGRADATION

The outlets identified in this permit are existing outlets. During the term of the previous WV/NPDES Permit for Dupont, Washington Works, the permittee has shown general compliance with established effluent limitations. There are no proposed increases in the volume of discharges or quantity of the pollutants to be discharged from these existing outlets or increase to the existing treatment capacity of the treatment facility. The receiving stream (Ohio River and unnamed tributaries of the Ohio River) are designated for all water use categories as defined in 47 CSR 2, Section 6. An antidegradation review has been conducted. Tier 1 protection is provided for uses specified in Title 47, Series 2, Section 6. The permit writer believes that the terms and conditions proposed in this draft permit will maintain and protect the designated water uses of the receiving stream as well as the level of water quality necessary to protect said water uses.

14. OTHER REQUIREMENT(s)

316(b) of the Clean Water Act

This facility operates a cooling water structure potentially subject to 316(b) of the Clean Water Act; however, did not submit the required information in 40 CFR 122.21(r) with the application. This information is required for the agency to make a determination if the intake structure satisfies the requirements of 316(b). Therefore, Section D has been imposed detailing the required information to be submitted by the deadline imposed in Section B.

Permit Compliance Schedule

As noted throughout the fact sheet, the agency has granted a 36-month compliance schedule for the permittee to achieve final effluent limitations for various pollutants at various outfalls in the permit. The agency met with the permittee regarding the preliminary draft permit on February 23, 2018 and the permittee provided additional information on March 12, 2018 which included milestones for achieving the final effluent limitations. In general, the permittee has proposed the following: identify sources, perform internal wastewater sampling as necessary, identify potential waste minimization alternatives to reduce waste, identify potential wastewater treatment systems, and develop cost estimates in year one; choose waste minimization and/or wastewater treatment alternatives and begin bench/pilot scale treatability studies in year two; and complete waste minimization and/or treatment design and start and complete construction of the chosen alternates by the end of year three. Milestones contained in Section B of the permit conform with this approach. During the compliance schedule period prescribed in the permit, the permittee may submit additional information, data, or materials which may ultimately impact conditions in the permit such as effluent limitations or compliance schedule milestones. Any such information would be addressed in a permit modification application that the agency would process in accordance with Title 47 Series 10 Sections 4, 10, and 12 of the WV Legislative Rules and other relevant rules and regulations.

The State of West Virginia, Department of Environmental Protection, Division of Water and Waste Management, has made tentative decisions on the application for a State NPDES Permit listed on this Fact Sheet. In order to provide public participation on the proposed issuance of the required permit, the following information is being supplied in accordance with 47 CSR, Series 10, Section 11.3.e.2 and 3, of the West Virginia Legislative Rules.

During the public comment period, any interested person may submit written comments on the draft permit and may request a public hearing, if no public hearing has already been scheduled. A request for a public hearing shall be made in writing and addressed to:

Director, Division of Water and Waste Management, DEP
601 57th Street SE
Charleston, West Virginia 25304-2345
Attention: Lori Derrick

The request shall state the nature of the issues proposed to be raised in the hearing, and must be received within the comment period. The Director shall hold a public hearing whenever he, or she, finds, on the basis of requests, a significant degree of public interest on issues relevant to the draft permit. Any person may submit oral or written statements and data concerning the draft permit, however, reasonable limits may be set upon the time allowed for oral statements, and the submission of statements in writing may be required. A tape recording or written transcript of the hearing shall be made available to the public, upon request.

If information received during the public comment period appears to raise substantial new questions, the Director may reopen the public comment period.

All applicable information concerning the permit application and the tentative decisions is on file and may be inspected, by appointment, or copies obtained, at a nominal cost, at the offices of the Division of Water and Waste Management, 601 57th Street SE, Charleston, West Virginia 25304-2345, Monday through Friday (except State holidays) between 8:00 a.m. and 4:00 p.m.

Requests for additional information should be directed to Lori Derrick at (304) 926-0499 ext 1057.

WATER QUALITY BASED EFFLUENT LIMITATIONS

v 10.2

Chemours Washington Works

Outlet: 001

Stream: Ohio River

Hardness (mg/l):	109	**Instream Waste %:**	0.00
Temperature (°C):	27	**ZID:**	3.0
pH:	8.1	**CMZ:**	10.0
Stream 1Q10 (CFS):	5170	**HH CMZ:**	10.0
Stream 7Q10 (CFS):	6560	**HHA 1/2 Mile Rule CMZ:**	10.0
Effluent Flow (MGD):	0.086		

PARAMETER	Baseline Water Quality (mg/l)	Stream Background (mg/l)	End of Pipe WQC RP	RWC WQC RP	Average Monthly Limit (mg/l)	Maximum Daily Limit (mg/l)	Tier Protection Level
Total Residual Chlorine	NA	NA	No Data	No Data	0.0284	0.0570	Tier 1
Zinc	NA	0.008	Yes	Yes	0.146	0.371	Tier 1
HFPO	NA	0.0000050	Yes	Yes	0.0013550	0.0019767	Tier 1
Phenolics	NA	0.00241	Yes	No	Monitor	Monitor	Tier 1

Outfall discharges to Ohio River and is subject to ORSANCO Pollution Control Standards:	Yes
Outfall discharges to a Trout Stream:	No
Outfall discharges to a stream exempt from Human Health A Criteria:	No
Outfall discharges to a stream exempt from all Human Health Criteria:	No
Outfall discharges within 1/2 mile upstream of a public drinking water intake:	No
Outfall has limitations for at least one metal using a site specific translator:	No
Outfall has Tier 2.0 antidegradation limitations for at least one pollutant:	No

WATER QUALITY BASED EFFLUENT LIMITATIONS

v 10.2

Chemours Washington Works

Outlet: 001

Stream: Ohio River

Hardness (mg/l):	109	**Instream Waste %:**	0.00
Temperature (°C):	27	**ZID:**	3.0
pH:	8.1	**CMZ:**	10.0
Stream 1Q10 (CFS):	5170	**HH CMZ:**	30.0
Stream 7Q10 (CFS):	6560	**HHA 1/2 Mile Rule CMZ:**	30.0
Effluent Flow (MGD):	0.086		

PARAMETER	Baseline Water Quality (mg/l)	Stream Background (mg/l)	End of Pipe WQC RP	RWC WQC RP	Average Monthly Limit (mg/l)	Maximum Daily Limit (mg/l)	Tier Protection Level
PFOA	NA	0.0000025	Yes	Yes	0.00203	0.00730	Tier 1

Outfall discharges to Ohio River and is subject to ORSANCO Pollution Control Standards:	Yes
Outfall discharges to a Trout Stream:	No
Outfall discharges to a stream exempt from Human Health A Criteria:	No
Outfall discharges to a stream exempt from all Human Health Criteria:	No
Outfall discharges within 1/2 mile upstream of a public drinking water intake:	No
Outfall has limitations for at least one metal using a site specific translator:	No
Outfall has Tier 2.0 antidegradation limitations for at least one pollutant:	No

WATER QUALITY BASED EFFLUENT LIMITATIONS

Chemours Washington Works

Outlet: 001

version 4.0

Stream: Ohio River

Stream 1Q10 (CFS):	5170	**Instream Waste %:**	0.00
Stream 7Q10 (CFS):	6560	**ZID:**	3.0
Effluent Flow (MGD):	0.086	**CMZ:**	10.0

PARAMETER	Stream Background (F)	End of Pipe WQC RP	RWC WQC RP	Ave Mon (F)	Max Daily (F)
May (Temp Max)	64.5	Yes	No	Monitor	Monitor
June (Temp Max)	71.5	No	No	Monitor	Monitor
July (Temp Max)	75.2	No	No	Monitor	Monitor
August (Temp Max)	77.0	No	No	Monitor	Monitor
September (Temp Max)	74.5	No	No	Monitor	Monitor
October (Temp Max)	68.8	No	No	Monitor	Monitor

Outfall discharges to Ohio River and is subject to ORSANCO Pollution Control Standards:	Yes
Outfall discharges to Kanawha River:	No
Outfall discharges to a Trout Stream:	No

PERFORMANCE-BASED EFFLUENT LIMITS								Outlet 001 - TOC
USE EXCEL TO PERFORM THE LOGNORMAL TRANSFORMATION								
AND CALCULATE THE TRANSFORMED MEAN AND VARIANCE								
			LOGNORMAL TRANSFORMED MEAN =				1.3340	
			LOGNORMAL TRANSFORMED VARIANCE =				0.2625	
	NUMBER OF SAMPLES/MONTH FOR COMPLIANCE MONITORING =						2	
	AUTOCORRELATION FACTOR(ne)(USE 0 IF UNKNOWN) =						0	
					n>10	E(X)	4.3287	4.3287
					n>10	V(X)	5.626	5.626
					n<10	σ_n^2	0.1399	N/A
					n<10	μ_n	1.3953	N/A
					n>10	$V(X_n)$	2.813	N/A
						X.95=	7.467	N/A
						X.99=	N/A	12.501
						VF=	1.850	2.888
			MAXIMUM DAILY EFFLUENT LIMIT =				N/A	12.843
			AVERAGE MONTHLY EFFLUENT LIMIT =				8.228	N/A

PERFORMANCE-BASED EFFLUENT LIMITS								Outlet 001 - TSS
USE EXCEL TO PERFORM THE LOGNORMAL TRANSFORMATION								
AND CALCULATE THE TRANSFORMED MEAN AND VARIANCE								
			LOGNORMAL TRANSFORMED MEAN =				1.4148	
			LOGNORMAL TRANSFORMED VARIANCE =				0.7988	
	NUMBER OF SAMPLES/MONTH FOR COMPLIANCE MONITORING =						2	
	AUTOCORRELATION FACTOR(ne)(USE 0 IF UNKNOWN) =						0	
					n>10	E(X)	6.1365	6.1365
					n>10	V(X)	46.054	46.054
					n<10	σ_n^2	0.4772	N/A
					n<10	μ_n	1.5757	N/A
					n>10	$V(X_n)$	23.027	N/A
						X.95=	15.059	N/A
						X.99=	N/A	32.910
						VF=	3.115	5.363
			MAXIMUM DAILY EFFLUENT LIMIT =				N/A	58.661
			AVERAGE MONTHLY EFFLUENT LIMIT =				34.075	N/A

WATER QUALITY BASED EFFLUENT LIMITATIONS

v 10.2

Chemours Washington Works

Outlet: 002

Stream: Ohio River

Hardness (mg/l):	109	**Instream Waste %:**	0.36
Temperature (°C):	27	**ZID:**	3.0
pH:	8.1	**CMZ:**	10.0
Stream 1Q10 (CFS):	5170	**HH CMZ:**	10.0
Stream 7Q10 (CFS):	6560	**HHA 1/2 Mile Rule CMZ:**	10.0
Effluent Flow (MGD):	12.1		

PARAMETER	Baseline Water Quality (mg/l)	Stream Background (mg/l)	End of Pipe WQC RP	RWC WQC RP	Average Monthly Limit (mg/l)	Maximum Daily Limit (mg/l)	Tier Protection Level
Ammonia	NA	0.0300	Yes	Yes	3.1862	5.3586	Tier 1
Chloride	NA	34	Yes	No	Monitor	Monitor	Tier 1
Copper	NA	0.0024	Yes	No	Monitor	Monitor	Tier 1
Total Residual Chlorine	NA	NA	No Data	No Data	0.0284	0.0570	Tier 1
Zinc	NA	0.008	No	No	Monitor	Monitor	Tier 1
HFPO	NA	0.0000050	Yes	Yes	0.0013550	0.0023067	Tier 1
Phenolics	NA	0.00241	Yes	No	Monitor	Monitor	Tier 1

Outfall discharges to Ohio River and is subject to ORSANCO Pollution Control Standards:	Yes
Outfall discharges to a Trout Stream:	No
Outfall discharges to a stream exempt from Human Health A Criteria:	No
Outfall discharges to a stream exempt from all Human Health Criteria:	No
Outfall discharges within 1/2 mile upstream of a public drinking water intake:	No
Outfall has limitations for at least one metal using a site specific translator:	No
Outfall has Tier 2.0 antidegradation limitations for at least one pollutant:	No

WATER QUALITY BASED EFFLUENT LIMITATIONS

v 10.2

Chemours Washington Works

Outlet: 002

Stream: Ohio River

Hardness (mg/l):	109	**Instream Waste %:**	0.36
Temperature (°C):	27	**ZID:**	3.0
pH:	8.1	**CMZ:**	10.0
Stream 1Q10 (CFS):	5170	**HH CMZ:**	30.0
Stream 7Q10 (CFS):	6560	**HHA 1/2 Mile Rule CMZ:**	30.0
Effluent Flow (MGD):	12.1		

PARAMETER	Baseline Water Quality (mg/l)	Stream Background (mg/l)	End of Pipe WQC RP	RWC WQC RP	Average Monthly Limit (mg/l)	Maximum Daily Limit (mg/l)	Tier Protection Level
Chloroform	NA	0.0005	Yes	No	Monitor	Monitor	Tier 1
Trichloroethylene	NA	0.0001	No	No	Monitor	Monitor	Tier 1
PFOA	NA	0.0000025	Yes	Yes	0.00203	0.00331	Tier 1
Methylene Chloride	NA	0.00013	No	No	Monitor	Monitor	Tier 1

Outfall discharges to Ohio River and is subject to ORSANCO Pollution Control Standards:	Yes
Outfall discharges to a Trout Stream:	No
Outfall discharges to a stream exempt from Human Health A Criteria:	No
Outfall discharges to a stream exempt from all Human Health Criteria:	No
Outfall discharges within 1/2 mile upstream of a public drinking water intake:	No
Outfall has limitations for at least one metal using a site specific translator:	No
Outfall has Tier 2.0 antidegradation limitations for at least one pollutant:	No

WATER QUALITY BASED EFFLUENT LIMITATIONS

v 10.2

Chemours Washington Works

Outlet: 002

Stream: Ohio River

Hardness (mg/l):	109	**Instream Waste %:**	0.36
Temperature (°C):	27	**ZID:**	1.0
pH:	8.1	**CMZ:**	1.0
Stream 1Q10 (CFS):	5170	**HH CMZ:**	1.0
Stream 7Q10 (CFS):	6560	**HHA 1/2 Mile Rule CMZ:**	1.0
Effluent Flow (MGD):	12.1		

PARAMETER	Baseline Water Quality (mg/l)	Stream Background (mg/l)	End of Pipe WQC RP	RWC WQC RP	Average Monthly Limit (mg/l)	Maximum Daily Limit (mg/l)	Tier Protection Level
Benzo(b) Fluoranthene	NA	NA	No Data	No Data	0.00000390	0.00000554	Tier 1

Outfall discharges to Ohio River and is subject to ORSANCO Pollution Control Standards:	Yes
Outfall discharges to a Trout Stream:	No
Outfall discharges to a stream exempt from Human Health A Criteria:	No
Outfall discharges to a stream exempt from all Human Health Criteria:	No
Outfall discharges within 1/2 mile upstream of a public drinking water intake:	No
Outfall has limitations for at least one metal using a site specific translator:	No
Outfall has Tier 2.0 antidegradation limitations for at least one pollutant:	No

40 CFR 414 Subparts C, D, J - Outlet 002 - WV0001279

Nylon Fibers		Subpart C, J	0.17770	Metal Bearing Wastestream (Zn)
	Main		0.16660	
	Steam Condensate		0.01110	
Acrylic Resins		Subpart D, J	0.21600	
Polymer Compounding East		Subpart D, J	0.28110	
Nylon Resins		Subpart D, J	0.90420	Metal Bearing Wastestream (Zn)
Fluoropolymers East		Subpart D, J	0.63200	
	Neutralization + Waste		0.16000	
	Steam Condensate		0.01440	
	Chemical Precip + Equalization + Filtration		0.05760	
	Oberlin Filter		0.40000	
P&S		Subpart D, J	0.66000	
	Demineralization		0.58300	
	Boiler Blowdown		0.07700	
002 Drainage Area Stormwater		Subpart C,D,J	0.01068	Contaminated BOD & TSS
Total NCCW / Blowdown			6.57580	Non-Process
	Nylon Fibers		0.27370	Non-Process
	Acrylic Resins		0.74100	Non-Process
	Polymer Compounding East		0.02120	Non-Process
	Nylon Resins		0.81690	Non-Process
	Polyvinyl Butyral		1.12500	Non-Process
	Fluoropolymers East		2.24000	Non-Process
	P&S		1.41600	Non-Process
	Miscellaneous		0.60200	Non-Process

Total Flow from Outlet 002	9.457	mgd
Total Process Wastewater	2.882	mgd
Long Term Average Flow at 002 (2015 to 2018)	6.060	mgd
Ratio of D/C Flows	0.93811	
Flow subject to 40 CFR 414, Subpart C	0.178	mgd
Flow subject to 40 CFR 414, Subpart D	2.703	mgd
Flow subject to 40 CFR 414, Subpart J	2.882	mgd
Metal Bearing Wastestream Flow (Zn)	1.082	mgd
Non - Process Wasewater	6.576	mgd
% Flow subject to 40 CFR 414, Subpart C	1.89%	
% Flow subject to 40 CFR 414, Subpart D	28.58%	
% Flow subject to 40 CFR 414, Subpart J	30.47%	
Metal Bearing Wastestream Flow (Zn)	11.44%	
Non - Process Wasewater	69.53%	

DuPont Washington Works **Outlet 002**
WV0001279
40 CFR 414 Subpart C and Subpart D

LTA Outlet 002 (DMRs - 2015 to 2018)	6.06	MGD
% of flow subject to 414, Subpart C:	1.89%	
% of flow subject to 414, Subpart D:	28.58%	
414 Subpart C LTA Flow:	0.114	MGD
414 Subpart D LTA Flow:	1.732	MGD

Pollutant	BPT Factors 40 CFR 414.31 (mg/l)		BPT Factors 40 CFR 414.41 (mg/l)		Effluent Guideline Limits (lbs/day)	
	Mon. Ave.	Max. Daily	Mon. Ave.	Max. Daily	Mon. Ave.	Max. Daily
BOD5	18	48	24	64	363.9	970.3
TSS	36	115	40	130	612.2	1987.6
pH	6.0-9.0 Range		6.0-9.0 Range		6.0-9.0 Range	

DuPont Washington Works **Outlet 002**
WV0001279
40 CFR 414 Subpart J

Outlet 002 (DMRs - 2015 to 2018) =	6.060 MGD
% of flow subject to 414, Subpart J =	30.47%
% of flow subject to 414, Appendix (Zn) =	11.44%
Total Process Wastewater subject to 414.101 (LTA) =	1.846 MGD
Metal bearing wastestream (Nylon) =	0.693 MGD

Effluent Characteristics	40 CFR 414.101 - BAT Effluent Limitations				Monitoring Waiver
			MASS		
	Average Monthly (ug/l)	Max. daily (ug/l)	Avg Monthly (lbs/day)	Max. Daily (lbs/day)	
Acenaphthene	19	47	0.29	0.72	Y
Acenaphthylene	19	47	0.29	0.72	Y
Acrylonitrile	94	232	1.45	3.57	Y
Anthracene	19	47	0.29	0.72	Y
Benzene	57	134	0.88	2.06	Y
Benzo(a)anthracene	19	47	0.29	0.72	Y
3,4-Benzofluoranthene	20	48	0.31	0.74	
Benzo(k)fluoranthene	19	47	0.29	0.72	Y
Benzo(a)pyrene	20	48	0.31	0.74	Y
Bis(2-ethylhexyl) phthalate	95	258	1.46	3.97	Y
Carbon Tetrachloride	142	380	2.19	5.85	Y
Chlorobenzene	142	380	2.19	5.85	Y
Chloroethane	110	295	1.69	4.54	Y
Chloroform	111	325	1.71	5.00	
Chrysene	19	47	0.29	0.72	Y
Di-n-butyl phthalate	20	43	0.31	0.66	Y
1,2-Dichlorobenzene	196	794	3.02	12.23	Y
1,3-Dichlorobenzene	142	380	2.19	5.85	Y
1,4-Dichlorobenzene	142	380	2.19	5.85	Y
1,1-Dichloroethane	22	59	0.34	0.91	Y
1,2-Dichloroethane	180	974	2.77	8.84	Y
1,1-Dichloroethylene	22	60	0.34	0.92	Y
1,2-trans-Dichloroethylene	25	66	0.38	1.02	Y
1,2-Dichloropropane	196	794	3.02	12.23	Y
1,3-Dichloropropylene	196	794	3.02	12.23	Y
Diethyl phthalate	46	113	0.71	1.74	Y
2,4-Dimethylphenol	19	47	0.29	0.72	Y
Dimethyl phthalate	19	47	0.29	0.72	Y
4,6-Dinitro-o-cresol	78	277	1.20	4.27	Y
2,4-Dinitrophenol	1207	4291	18.59	66.08	Y
Ethylbenzene	142	380	2.19	5.85	Y
Fluoranthene	22	54	0.34	0.83	Y
Fluorene	19	47	0.29	0.72	Y
Hexachlorobenzene	196	794	3.02	12.23	Y
Hexachlorobutadiene	142	380	2.19	5.85	Y
Hexachloroethane	196	794	3.02	12.23	Y
Methyl Chloride	110	295	1.69	4.54	
Methylene Chloride	36	170	0.55	2.62	
Naphthalene	19	47	0.29	0.72	Y
Nitrobenzene	2237	6402	34.45	98.59	Y
2-Nitrophenol	65	231	1.00	3.56	Y
4-Nitrophenol	162	576	2.49	8.87	Y
Phenanthrene	19	47	0.29	0.72	Y
Phenol	19	47	0.29	0.72	Y
Pyrene	20	48	0.31	0.74	Y
Tetrachloroethylene	52	164	0.80	2.53	Y
Toluene	28	74	0.43	1.14	
Total Chromium	1110	2770			
Total Copper	1450	3380			
Total Cyanide	420	1200			
Total Lead	320	690			
Total Nickel	1,690	3,980			
Total Zinc	1,050	2,610			
1,2,4-Trichlorobenzene	196	794	3.02	12.23	Y
1,1,1-Trichloroethane	22	59	0.34	0.91	Y
1,1,2-Trichloroethane	32	127	0.49	1.96	Y
Trichloroethylene	26	69	0.40	1.06	
Vinyl Chloride	97	172	1.49	2.65	Y

Chemours Washington Works -- WV0001279
Outlet 002 - Effluent Guidline Limitation Evaluation (40 CFR 414)

LTA Flow Outlet 002 **6.06** **mgd** Combined WWTP (2015 through 2018)

Pollutant	Sum of ELGs (lbs/day)		Equivalent Conc. @ 002 (mg/l)		Outlet 002 WQBELs (mg/l)		Outlet 002 Permit Limits (mg/l)	
	Mon. Ave.	Max. Daily	Mon. Ave.	Max. Daily	Mon. Ave.	Max. Daily	Mon. Ave.	Max. Daily
3,4-benzofluoranthene	0.308	0.739	0.006	0.015	0.0000038	0.00000554	0.0000038	0.0000055
Chloroform	1.71	5.00	0.034	0.099	0.164	0.345	--	--
Methyl Chloride	1.69	4.54	0.034	0.090	--	--	--	--
Methylene Chloride	0.554	2.62	0.011	0.052	0.134	0.188	--	--
Toluene	0.43	1.14	0.009	0.023	1.3	1.89	--	--
Zinc	0.00	0.00	0.000	0.000	0.185	0.371	--	--
Trichloroethylene	0.400	1.063	0.008	0.021	0.071	0.09	--	--
pH	6.0-9.0 Range		6.0-9.0 Range		6.0-9.0 Range		6.0-9.0 Range	

PERFORMANCE-BASED EFFLUENT LIMITS							Outlet 002 - TOC
USE EXCEL TO PERFORM THE LOGNORMAL TRANSFORMATION							
AND CALCULATE THE TRANSFORMED MEAN AND VARIANCE							
			LOGNORMAL TRANSFORMED MEAN =			1.3726	
		LOGNORMAL TRANSFORMED VARIANCE =				0.0877	
	NUMBER OF SAMPLES/MONTH FOR COMPLIANCE MONITORING =					2	
	AUTOCORRELATION FACTOR(ne)(USE 0 IF UNKNOWN) =					0	
					n>10	E(X)	4.1225	4.1225
					n>10	V(X)	1.558	1.558
					n<10	σ_n^2	0.0448	N/A
					n<10	μ_n	1.3941	N/A
					n>10	$V(X_n)$	0.779	N/A
						X.95=	5.710	N/A
						X.99=	N/A	7.857
						VF=	1.417	1.906
			MAXIMUM DAILY EFFLUENT LIMIT =				N/A	7.890
			AVERAGE MONTHLY EFFLUENT LIMIT =				5.864	N/A

WATER QUALITY BASED EFFLUENT LIMITATIONS

v 10.2

Chemours Washington Works

Outlet: 003

Stream: Ohio River

Hardness (mg/l):	109	**Instream Waste %:**	0.21
Temperature (°C):	27	**ZID:**	3.0
pH:	8.1	**CMZ:**	10.0
Stream 1Q10 (CFS):	5170	**HH CMZ:**	10.0
Stream 7Q10 (CFS):	6560	**HHA 1/2 Mile Rule CMZ:**	10.0
Effluent Flow (MGD):	7		

PARAMETER	Baseline Water Quality (mg/l)	Stream Background (mg/l)	End of Pipe WQC RP	RWC WQC RP	Average Monthly Limit (mg/l)	Maximum Daily Limit (mg/l)	Tier Protection Level
Total Residual Chlorine	NA	NA	No Data	No Data	0.0284	0.0570	Tier 1
HFPO	NA	0.0000057	Yes	No	Monitor	Monitor	Tier 1
Phenolics	NA	0.00241	Yes	No	Monitor	Monitor	Tier 1

Outfall discharges to Ohio River and is subject to ORSANCO Pollution Control Standards:	Yes
Outfall discharges to a Trout Stream:	No
Outfall discharges to a stream exempt from Human Health A Criteria:	No
Outfall discharges to a stream exempt from all Human Health Criteria:	No
Outfall discharges within 1/2 mile upstream of a public drinking water intake:	No
Outfall has limitations for at least one metal using a site specific translator:	No
Outfall has Tier 2.0 antidegradation limitations for at least one pollutant:	No

WATER QUALITY BASED EFFLUENT LIMITATIONS

v 10.2

Chemours Washington Works

Outlet: 003

Stream: Ohio River

Hardness (mg/l):	109	**Instream Waste %:**	0.21
Temperature (°C):	27	**ZID:**	3.0
pH:	8.1	**CMZ:**	10.0
Stream 1Q10 (CFS):	5170	**HH CMZ:**	30.0
Stream 7Q10 (CFS):	6560	**HHA 1/2 Mile Rule CMZ:**	30.0
Effluent Flow (MGD):	7		

PARAMETER	Baseline Water Quality (mg/l)	Stream Background (mg/l)	End of Pipe WQC RP	RWC WQC RP	Average Monthly Limit (mg/l)	Maximum Daily Limit (mg/l)	Tier Protection Level
PFOA	NA	0.0000052	Yes	Yes	0.00195	0.00284	Tier 1

Outfall discharges to Ohio River and is subject to ORSANCO Pollution Control Standards:	Yes
Outfall discharges to a Trout Stream:	No
Outfall discharges to a stream exempt from Human Health A Criteria:	No
Outfall discharges to a stream exempt from all Human Health Criteria:	No
Outfall discharges within 1/2 mile upstream of a public drinking water intake:	No
Outfall has limitations for at least one metal using a site specific translator:	No
Outfall has Tier 2.0 antidegradation limitations for at least one pollutant:	No

WATER QUALITY BASED EFFLUENT LIMITATIONS

Chemours Washington Works

Outlet: 003

version 4.0

Stream: Ohio River

Stream 1Q10 (CFS):	5170	**Instream Waste %:**	0.21
Stream 7Q10 (CFS):	6560	**ZID:**	3.0
Effluent Flow (MGD):	7	**CMZ:**	10.0

PARAMETER	Stream Background (F)	End of Pipe WQC RP	RWC WQC RP	Ave Mon (F)	Max Daily (F)
May (Temp Max)	64.5	Yes	Yes	77.7	90.0
June (Temp Max)	71.5	Yes	No	Monitor	Monitor
July (Temp Max)	75.2	Yes	Yes	100.8	110.0
August (Temp Max)	77.0	Yes	Yes	97.7	110.0
September (Temp Max)	74.5	Yes	No	Monitor	Monitor
October (Temp Max)	68.8	Yes	Yes	80.7	93.4

Outfall discharges to Ohio River and is subject to ORSANCO Pollution Control Standards:	Yes
Outfall discharges to Kanawha River:	No
Outfall discharges to a Trout Stream:	No

PERFORMANCE-BASED EFFLUENT LIMITS								Outlet 003 - TOC
USE EXCEL TO PERFORM THE LOGNORMAL TRANSFORMATION								
AND CALCULATE THE TRANSFORMED MEAN AND VARIANCE								
			LOGNORMAL TRANSFORMED MEAN =				1.2769	
			LOGNORMAL TRANSFORMED VARIANCE =				0.1251	
			NUMBER OF SAMPLES/MONTH FOR COMPLIANCE MONITORING =				2	
			AUTOCORRELATION FACTOR(ne)(USE 0 IF UNKNOWN) =				0	
					n>10	E(X)	3.8171	3.8171
					n>10	V(X)	1.942	1.942
					n<10	σ_n^2	0.0845	N/A
					n<10	μ_n	1.3072	N/A
					n>10	$V(X_n)$	0.971	N/A
						X.95=	5.613	N/A
						X.99=	N/A	8.163
						VF=	1.519	2.139
			MAXIMUM DAILY EFFLUENT LIMIT =				N/A	8.064
			AVERAGE MONTHLY EFFLUENT LIMIT =				5.727	N/A

PERFORMANCE-BASED EFFLUENT LIMITS								Outlet 003 - TSS
USE EXCEL TO PERFORM THE LOGNORMAL TRANSFORMATION								
AND CALCULATE THE TRANSFORMED MEAN AND VARIANCE								
			LOGNORMAL TRANSFORMED MEAN =				2.8451	
			LOGNORMAL TRANSFORMED VARIANCE =				1.8669	
	NUMBER OF SAMPLES/MONTH FOR COMPLIANCE MONITORING =						2	
	AUTOCORRELATION FACTOR(n_e)(USE 0 IF UNKNOWN) =						0	
					n>10	E(X)	43.7546	43.7546
					n>10	V(X)	10469.073	10469.073
					n<10	σ_n^2	1.3175	N/A
					n<10	μ_n	3.1198	N/A
					n>10	$V(X_{n})$	5234.536	N/A
						X.95=	149.609	N/A
						X.99=	N/A	412.929
						VF=	6.607	9.437
			MAXIMUM DAILY EFFLUENT LIMIT =				N/A	381.770
			AVERAGE MONTHLY EFFLUENT LIMIT =				267.290	N/A

WATER QUALITY BASED EFFLUENT LIMITATIONS

v 10.2

Chemours Washington Works

Outlet: 005

Stream: Ohio River

Hardness (mg/l):	109	**Instream Waste %:**	1.78
Temperature (°C):	27	**ZID:**	3.0
pH:	8.1	**CMZ:**	10.0
Stream 1Q10 (CFS):	5170	**HH CMZ:**	10.0
Stream 7Q10 (CFS):	6560	**HHA 1/2 Mile Rule CMZ:**	10.0
Effluent Flow (MGD):	60.4		

PARAMETER	Baseline Water Quality (mg/l)	Stream Background (mg/l)	End of Pipe WQC RP	RWC WQC RP	Average Monthly Limit (mg/l)	Maximum Daily Limit (mg/l)	Tier Protection Level
Ammonia	NA	0.0300	Yes	No	Monitor	Monitor	Tier 1
Total Residual Chlorine	NA	NA	No Data	No Data	0.0284	0.0570	Tier 1
HFPO	NA	0.0000365	Yes	Yes	0.0010715	0.0022931	Tier 1

Outfall discharges to Ohio River and is subject to ORSANCO Pollution Control Standards:	Yes
Outfall discharges to a Trout Stream:	No
Outfall discharges to a stream exempt from Human Health A Criteria:	No
Outfall discharges to a stream exempt from all Human Health Criteria:	No
Outfall discharges within 1/2 mile upstream of a public drinking water intake:	No
Outfall has limitations for at least one metal using a site specific translator:	No
Outfall has Tier 2.0 antidegradation limitations for at least one pollutant:	No

WATER QUALITY BASED EFFLUENT LIMITATIONS

v 10.2

Chemours Washington Works

Outlet: 005

Stream: Ohio River

Hardness (mg/l):	109	**Instream Waste %:**	1.78
Temperature (°C):	27	**ZID:**	3.0
pH:	8.1	**CMZ:**	10.0
Stream 1Q10 (CFS):	5170	**HH CMZ:**	30.0
Stream 7Q10 (CFS):	6560	**HHA 1/2 Mile Rule CMZ:**	30.0
Effluent Flow (MGD):	60.4		

PARAMETER	Baseline Water Quality (mg/l)	Stream Background (mg/l)	End of Pipe WQC RP	RWC WQC RP	Average Monthly Limit (mg/l)	Maximum Daily Limit (mg/l)	Tier Protection Level
Chloroform	NA	0.0005	Yes	No	Monitor	Monitor	Tier 1
PFOA	NA	0.0000614	Yes	Yes	0.00032	0.00065	Tier 1

Outfall discharges to Ohio River and is subject to ORSANCO Pollution Control Standards:	Yes
Outfall discharges to a Trout Stream:	No
Outfall discharges to a stream exempt from Human Health A Criteria:	No
Outfall discharges to a stream exempt from all Human Health Criteria:	No
Outfall discharges within 1/2 mile upstream of a public drinking water intake:	No
Outfall has limitations for at least one metal using a site specific translator:	No
Outfall has Tier 2.0 antidegradation limitations for at least one pollutant:	No

WATER QUALITY BASED EFFLUENT LIMITATIONS

v 10.2

Chemours Washington Works

Outlet: 005

Stream: Ohio River

Hardness (mg/l):	109	**Instream Waste %:**	1.78
Temperature (°C):	27	**ZID:**	1.0
pH:	8.1	**CMZ:**	1.0
Stream 1Q10 (CFS):	5170	**HH CMZ:**	1.0
Stream 7Q10 (CFS):	6560	**HHA 1/2 Mile Rule CMZ:**	1.0
Effluent Flow (MGD):	60.4		

PARAMETER	Baseline Water Quality (mg/l)	Stream Background (mg/l)	End of Pipe WQC RP	RWC WQC RP	Average Monthly Limit (mg/l)	Maximum Daily Limit (mg/l)	Tier Protection Level
Benzo(b) Fluoranthene	NA	NA	No Data	No Data	0.00000380	0.00000554	Tier 1

Outfall discharges to Ohio River and is subject to ORSANCO Pollution Control Standards:	Yes
Outfall discharges to a Trout Stream:	No
Outfall discharges to a stream exempt from Human Health A Criteria:	No
Outfall discharges to a stream exempt from all Human Health Criteria:	No
Outfall discharges within 1/2 mile upstream of a public drinking water intake:	No
Outfall has limitations for at least one metal using a site specific translator:	No
Outfall has Tier 2.0 antidegradation limitations for at least one pollutant:	No

40 CFR Suparts D, E, I, J - Outlet 005 - WV0001279

Specialty Polymer Compounding (E.I. Du Pont)		Subpart D, J	0.33660	Internal Outlet 505
Polyacetal Resins (E.I. Du Pont)		Subpart E, J	0.82490	Internal Outlet 405
	Main		0.36120	
	Steam Condensate		0.46370	
Fluoropolymers		Subpart D, J	1.673	Internal Outlet 605
	Main		0.303	
	Steam Condensate		0.01	
	Process Water		1.36	
Fluoroproducts West (Oberlin Filters)		Subpart D, J	0.90000	Internal Outlet 305
Internal Outlet 105 (WWTP)			3.66420	
	Sanitary Sewer	Subpart D, E , I	0.10800	Contaminated BOD & TSS
	Acrylic Resins	Subpart D, I	0.19400	
	Nylon Fibers	Subpart D, I	0.03630	
	Polyvinyl Butyral	Subpart D, I	0.57500	
	Polyacetal Resins	Subpart E, I	0.29220	
	Formadehyde	Subpart E, I	0.01600	
	Technical Labs	Subpart D, E, I	0.00330	Contaminated BOD & TSS
	Resesearch Labs	Subpart D, E, I	0.15000	Contaminated BOD & TSS
	Nylon Resins	Subpart D, I	0.14110	
	Haz Drum Process	Subpart D, E, I	0.02000	Contaminated BOD & TSS
	Dry Run Leachate	Subpart D, E, I	0.02000	Contaminated BOD & TSS
	Bio-oxidation waste	Subpart D, E, I	1.46000	Contaminated BOD & TSS
	Nylon Resins	Subpart D, I	0.07330	
	Butacite (Kuraray)	Subpart D, I	0.57500	
Total NCCW / Blowdown			28.02720	Non-Process
	Specialty Polymer Compounding		0.01080	Non-Process
	Fluoropolymers East		3.82900	Non-Process
	Fluoropolymers West		3.73000	Non-Process
	Polyacetal Resins		19.21200	Non-Process
	Formadehyde Area CTB		0.17300	Non-Process
	P&S		0.61600	Non-Process
	WWTP (Acrylic)		0.04300	Non-Process
	WWTP (Polyvinyl)		0.01000	Non-Process
	WWTP (Formadehyde)		0.00400	Non-Process
	Technical Labs		0.16260	Non-Process
	Research Labs		0.18100	Non-Process
	Nylon Resins		0.05580	Non-Process
Uncontaminated Stormwater (017/018 to 037 to 005)			0.01150	Non-Process
Drainage Area Stormwater			0.05330	Non-Process

Total Flow Outlet 005	35.49 mgd
Long Term Average Flow Outlet 005 (2015 to 2018)	34.67 mgd
Ratio	0.98
Total Flow from Internal Outlet 105	3.66 mgd
Long Term Average Flow at 105 (2015 to 2018)	1.48 mgd
Ratio of D/E Flows	0.84
Flow subject to 40 CFR 414, Subpart D	3.07 mgd
Flow subject to 40 CFR 414, Subpart E	0.59 mgd
Flow subject to 40 CFR 414, Subpart I	3.66 mgd
Flow subject to 40 CFR 414, Subpart J	3.73 mgd
Metal Bearing Wastestream Flow (Zn)	0.25 mgd
% 105 Flow subject to 40 CFR 414, Subpart D	83.80%
% 105 Flow subject to 40 CFR 414, Subpart E	16.20%
% 005 Flow subject to 40 CFR 414, Subpart I	10.32%
% 005 Flow subject to 40 CFR 414, Subpart J	10.52%
% 105 Metal Bearing Wastestream Flow (Zn)	6.84%

Chemours Washington Works — **Internal Outlet 105**
WV0001279
40 CFR 414 Subpart D and Subpart E

Outlet 005 (DMRs - 2015 to 2018): 1.48 MGD
% of flow subject to 414, Subpart D: 83.80%
% of flow subject to 414, Subpart E: 16.20%
414 Subpart D LTA Flow: 1.240 MGD
414 Subpart E LTA Flow: 0.240 MGD

Pollutant	BPT Factors 40 CFR 414.41 (mg/l)		BPT Factors 40 CFR 414.51 (mg/l)		Effluent Guideline Limits (lbs/day)	
	Mon. Ave.	Max. Daily	Mon. Ave.	Max. Daily	Mon. Ave.	Max. Daily
BOD5	24	64	61	163	370	988
TSS	40	130	67	216	548	1777
pH	6.0-9.0 Range		6.0-9.0 Range		6.0-9.0 Range	

Chemours Washington Works — **Internal Outlet 205 (Sum of 305, 405, 505, 605)**
WV0001279
40 CFR 414 Subpart D

Outlet 305 (DMRs - 2013 to 2018): 0.071 MGD
% of flow subject to 414, Subpart D: 100.00%
414 Subpart D LTA Flow: 0.069 MGD

Pollutant	Effluent Guideline Limits (lbs/day)	
	Mon. Ave.	Max. Daily
BOD5	817	2180
TSS	1128	3655
pH	6.0-9.0 Range	

Chemours Washington Works — **Internal Outlet 305**
WV0001279
40 CFR 414 Subpart D

Outlet 305 (DMRs - 2013 to 2018): 0.071 MGD
% of flow subject to 414, Subpart D: 100.00%
414 Subpart D LTA Flow: 0.069 MGD

Pollutant	BPT Factors 40 CFR 414.41 (mg/l)		Effluent Guideline Limits (lbs/day)	
	Mon. Ave.	Max. Daily	Mon. Ave.	Max. Daily
BOD5	24	64	14	37
TSS	40	130	23	75
pH	6.0-9.0 Range		6.0-9.0 Range	

Chemours Washington Works — **Internal Outlet 505**
WV0001279
40 CFR 414 Subpart D

Outlet 505 (From Application): 0.3366 MGD
% of flow subject to 414, Subpart D: 100.00%
414 Subpart D LTA Flow: 0.329 MGD

Pollutant	BPT Factors 40 CFR 414.41 (mg/l)		Effluent Guideline Limits (lbs/day)	
	Mon. Ave.	Max. Daily	Mon. Ave.	Max. Daily
BOD5	24	64	66	176
TSS	40	130	110	357
pH	6.0-9.0 Range		6.0-9.0 Range	

Chemours Washington Works — **Internal Outlet 405**
WV0001279
40 CFR 414 Subpart E

Outlet 405 (From Application): 0.8249 MGD
% of flow subject to 414, Subpart D: 100.00%
414 Subpart D LTA Flow: 0.806 MGD

Pollutant	BPT Factors 40 CFR 414.51 (mg/l)		Effluent Guideline Limits (lbs/day)	
	Mon. Ave.	Max. Daily	Mon. Ave.	Max. Daily
BOD5	61	163	410	1095
TSS	67	216	450	1452
pH	6.0-9.0 Range		6.0-9.0 Range	

Chemours Washington Works — **Internal Outlet 605**
WV0001279
40 CFR 414 Subpart D

Outlet 605 (From Application): 1.673 MGD
% of flow subject to 414, Subpart D: 100.00%
414 Subpart D LTA Flow: 1.634 MGD

Pollutant	BPT Factors 40 CFR 414.41 (mg/l)		Effluent Guideline Limits (lbs/day)	
	Mon. Ave.	Max. Daily	Mon. Ave.	Max. Daily
BOD5	24	64	327	872
TSS	40	130	545	1772
pH	6.0-9.0 Range		6.0-9.0 Range	

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Chemours Washington Works **Outlet 005**
WV0001279
40 CFR 414 Subpart I

Outlet 105 (DMRs - 2015 to 2018) =	1.480 MGD
Outlet 005 (DMRs - 2015 to 2018) =	34.670 MGD
% of 005 flow subject to 414, Subpart I =	10.32%
% of 105 flow subject to 414 Appendix A (Zn) =	6.84%
005 Process Wastewater subject to 414.91 (LTA) =	3.579 MGD
105 metal bearing wastestream (Nylon) =	0.101 MGD

Effluent Characteristics	40 CFR 414.91 - BAT Effluent Limitations				Monitoring Waiver
			MASS		
	Average Monthly (ug/l)	Max. daily (ug/l)	Avg Monthly (lbs/day)	Max. Daily (lbs/day)	
Acenaphthene	22	59	0.657	1.761	Y
Acenaphthylene	22	59	0.657	1.761	Y
Acrylonitrile	96	242	2.866	7.224	Y
Anthracene	22	59	0.657	1.761	Y
Benzene	37	136	1.105	4.060	Y
Benzo(a)anthracene	22	59	0.657	1.761	Y
3,4-Benzofluoranthene	23	61	0.687	1.821	
Benzo(k)fluoranthene	22	59	0.657	1.761	Y
Benzo(a)pyrene	23	61	0.687	1.821	Y
Bis(2-ethylhexyl) phthalate	103	279	3.075	8.329	Y
Carbon Tetrachloride	18	38	0.537	1.134	Y
Chlorobenzene	15	28	0.448	0.836	Y
Chloroethane	104	268	3.105	8.001	Y
Chloroform	21	46	0.627	1.373	
2-Chlorophenol	31	98	0.925	2.926	Y
Chrysene	22	59	0.657	1.761	Y
Di-n-butyl phthalate	27	57	0.806	1.702	Y
1,2-Dichlorobenzene	77	163	2.299	4.866	Y
1,3-Dichlorobenzene	31	44	0.925	1.314	Y
1,4-Dichlorobenzene	15	28	0.448	0.836	Y
1,1-Dichloroethane	22	59	0.657	1.761	Y
1,2-Dichloroethane	68	211	2.030	6.299	Y
1,1-Dichloroethylene	16	25	0.478	0.746	Y
1,2-trans-Dichloroethylene	21	54	0.627	1.612	Y
2,4-Dichlorophenol	39	112	1.164	3.344	
1,2-Dichloropropane	153	230	4.567	6.866	Y
1,3-Dichloropropylene	29	44	0.866	1.314	Y
Diethyl phthalate	81	203	2.418	6.060	Y
2,4-Dimethylphenol	18	36	0.537	1.075	Y
Dimethyl phthalate	19	47	0.567	1.403	Y
4,6-Dinitro-o-cresol	78	277	2.329	8.269	Y
2,4-Dinitrophenol	71	123	2.120	3.672	Y
2,4-Dinitrotoluene	113	285	3.373	8.508	
2,6-Dinitrotoluene	255	641	7.612	19.136	
Ethylbenzene	32	108	0.955	3.224	Y
Fluoranthene	25	68	0.746	2.030	Y
Fluorene	22	59	0.657	1.761	Y
Hexachlorobenzene	15	28	0.448	0.836	Y
Hexachlorobutadiene	20	49	0.597	1.463	Y
Hexachloroethane	21	54	0.627	1.612	Y
Methyl Chloride	86	190	2.567	5.672	
Methylene Chloride	40	89	1.194	2.657	
Naphthalene	22	59	0.657	1.761	Y
Nitrobenzene	27	68	0.806	2.030	Y
2-Nitrophenol	41	69	1.224	2.060	Y
4-Nitrophenol	72	124	2.149	3.702	Y
Phenanthrene	22	59	0.657	1.761	Y
Phenol	15	26	0.448	0.776	Y
Pyrene	25	67	0.746	2.000	Y
Tetrachloroethylene	22	56	0.657	1.672	Y
Toluene	26	80	0.776	2.388	
Total Chromium	1110	2770			Y
Total Copper	1450	3380			Y
Total Cyanide	420	1200			Y
Total Lead	320	690			Y
Total Nickel	1,690	3,980			Y
Total Zinc (Imposed at 105)	1,050	2,610	0.887	2.204	
1,2,4-Trichlorobenzene	68	140	2.030	4.179	Y
1,1,1-Trichloroethane	21	54	0.627	1.612	Y
1,1,2-Trichloroethane	21	54	0.627	1.612	Y
Trichloroethylene	21	54	0.627	1.612	
Vinyl Chloride	104	268	3.105	8.001	Y

Chemours Washington Works **Outlet 005**
WV0001279
40 CFR 414 Subpart J

Outlet 305 (DMRs - 2013 to 2018) = 34.670 MGD
% of flow subject to 414, Subpart J = 10.52%
Total Process Wastewater subject to 414.101 (LTA) = 3.648 MGD

Effluent Characteristics	40 CFR 414.101 - BAT Effluent Limitations				Monitoring Waiver
			MASS		
	Average Monthly (ug/l)	Max. daily (ug/l)	Avg Monthly (lbs/day)	Max. Daily (lbs/day)	
Acenaphthene	19	47	0.578	1.430	Y
Acenaphthylene	19	47	0.578	1.430	Y
Acrylonitrile	94	232	2.860	7.059	Y
Anthracene	19	47	0.578	1.430	Y
Benzene	57	134	1.734	4.077	Y
Benzo(a)anthracene	19	47	0.578	1.430	Y
3,4-Benzofluoranthene	20	48	0.609	1.460	
Benzo(k)fluoranthene	19	47	0.578	1.430	Y
Benzo(a)pyrene	20	48	0.609	1.460	Y
Bis(2-ethylhexyl) phthalate	95	258	2.890	7.850	Y
Carbon Tetrachloride	142	380	4.320	11.562	Y
Chlorobenzene	142	380	4.320	11.562	Y
Chloroethane	110	295	3.347	8.976	Y
Chloroform	111	325	3.377	9.888	
Chrysene	19	47	0.578	1.430	Y
Di-n-butyl phthalate	20	43	0.609	1.308	Y
1,2-Dichlorobenzene	196	794	5.963	24.158	Y
1,3-Dichlorobenzene	142	380	4.320	11.562	Y
1,4-Dichlorobenzene	142	380	4.320	11.562	Y
1,1-Dichloroethane	22	59	0.669	1.795	Y
1,2-Dichloroethane	180	574	5.477	17.464	Y
1,1-Dichloroethylene	22	60	0.669	1.826	Y
1,2-trans-Dichloroethylene	25	66	0.761	2.008	Y
1,2-Dichloropropane	196	794	5.963	24.158	Y
1,3-Dichloropropylene	196	794	5.963	24.158	Y
Diethyl phthalate	46	113	1.400	3.438	Y
2,4-Dimethylphenol	19	47	0.578	1.430	Y
Dimethyl phthalate	19	47	0.578	1.430	Y
4,6-Dinitro-o-cresol	78	277	2.373	8.428	Y
2,4-Dinitrophenol	1207	4291	36.724	130.556	Y
Ethylbenzene	142	380	4.320	11.562	Y
Fluoranthene	22	54	0.669	1.643	Y
Fluorene	19	47	0.578	1.430	Y
Hexachlorobenzene	196	794	5.963	24.158	Y
Hexachlorobutadiene	142	380	4.320	11.562	Y
Hexachloroethane	196	794	5.963	24.158	Y
Methyl Chloride	110	295	3.347	8.976	
Methylene Chloride	36	170	1.095	5.172	
Naphthalene	19	47	0.578	1.430	Y
Nitrobenzene	2237	6402	68.062	194.784	Y
2-Nitrophenol	65	231	1.978	7.028	Y
4-Nitrophenol	162	576	4.929	17.525	Y
Phenanthrene	19	47	0.578	1.430	Y
Phenol	19	47	0.578	1.430	Y
Pyrene	20	48	0.609	1.460	Y
Tetrachloroethylene	52	164	1.582	4.990	Y
Toluene	28	74	0.852	2.251	
Total Chromium	1110	2770			Y
Total Copper	1450	3380			Y
Total Cyanide	420	1200			Y
Total Lead	320	690			Y
Total Nickel	1,690	3,980			Y
Total Zinc	1,050	2,610			Y
1,2,4-Trichlorobenzene	196	794	5.963	24.158	Y
1,1,1-Trichloroethane	22	59	0.669	1.795	Y
1,1,2-Trichloroethane	32	127	0.974	3.864	Y
Trichloroethylene	26	69	0.791	2.099	
Vinyl Chloride	97	172	2.951	5.233	Y

Chemours Washington Works **Outlet 005**
WV0001279
40 CFR 414 Subparts I and J

Effluent Characteristics	MASS		Waiver?
	Avg Monthly (lbs/day)	Max. Daily (lbs/day)	
Acenaphthene	1.235	3.191	Y
Acenaphthylene	1.235	3.191	Y
Acrylonitrile	5.726	14.283	Y
Anthracene	1.235	3.191	Y
Benzene	2.839	8.137	Y
Benzo(a)anthracene	1.235	3.191	Y
3,4-Benzofluoranthene	1.295	3.281	
Benzo(k)fluoranthene	1.235	3.191	Y
Benzo(a)pyrene	1.295	3.281	Y
Bis(2-ethylhexyl) phthalate	5.965	16.179	Y
Carbon Tetrachloride	4.858	12.696	Y
Chlorobenzene	4.768	12.398	Y
Chloroethane	6.451	16.976	Y
Chloroform	4.004	11.262	
2-Chlorophenol	0.925	2.926	Y
Chrysene	1.235	3.191	Y
Di-n-butyl phthalate	1.415	3.010	Y
1,2-Dichlorobenzene	8.262	29.024	Y
1,3-Dichlorobenzene	5.246	12.875	Y
1,4-Dichlorobenzene	4.768	12.398	Y
1,1-Dichloroethane	1.326	3.556	Y
1,2-Dichloroethane	7.507	23.763	Y
1,1-Dichloroethylene	1.147	2.572	Y
1,2-trans-Dichloroethylene	1.388	3.620	Y
2,4-Dichlorophenol	1.164	3.344	Y
1,2-Dichloropropane	10.531	31.024	Y
1,3-Dichloropropylene	6.829	25.471	Y
Diethyl phthalate	3.818	9.498	Y
2,4-Dimethylphenol	1.115	2.505	Y
Dimethyl phthalate	1.145	2.833	Y
4,6-Dinitro-o-cresol	4.702	16.697	Y
2,4-Dinitrophenol	38.843	134.228	Y
2,4-Dinitrotoluene	3.373	8.508	Y
2,6-Dinitrotoluene	7.612	19.136	Y
Ethylbenzene	5.276	14.786	Y
Fluoranthene	1.416	3.673	Y
Fluorene	1.235	3.191	Y
Hexachlorobenzene	6.411	24.994	Y
Hexachlorobutadiene	4.917	13.024	Y
Hexachloroethane	6.590	25.770	Y
Methyl Chloride	5.914	14.648	
Methylene Chloride	2.289	7.829	
Naphthalene	1.235	3.191	Y
Nitrobenzene	68.868	196.814	Y
2-Nitrophenol	3.202	9.088	Y
4-Nitrophenol	7.078	21.227	Y
Phenanthrene	1.235	3.191	Y
Phenol	1.026	2.206	Y
Pyrene	1.355	3.461	Y
Tetrachloroethylene	2.239	6.662	Y
Toluene	1.628	4.640	
Total Chromium			Y
Total Copper			Y
Total Cyanide			Y
Total Lead			Y
Total Nickel			Y
Total Zinc (Imposed at 105)	0.887	2.204	
1,2,4-Trichlorobenzene	7.993	28.337	Y
1,1,1-Trichloroethane	1.296	3.407	Y
1,1,2-Trichloroethane	1.601	5.476	Y
Trichloroethylene	1.418	3.711	
Vinyl Chloride	6.056	13.234	Y

Chemours Washington Works -- WV0001279
Outlet 005 - Effluent Guidline Limitation Evaluation (40 CFR 414)

LTA Flow Outlet 005 **34.67** **mgd** Combined WWTP (2015 through 2018)

Pollutant	Sum of ELGs (lbs/day)		Equivalent Conc. @ 005 (mg/l)		Outlet 005 WQBELs (mg/l)		Outlet 005 Permit Limits (mg/l)	
	Mon. Ave.	Max. Daily	Mon. Ave.	Max. Daily	Mon. Ave.	Max. Daily	Mon. Ave.	Max. Daily
3,4-benzofluoranthene	1.295	3.281	0.004	0.011	0.0000038	0.00000554	0.0000038	0.0000055
Chloroform	4.00	11.26	0.014	0.039	0.157	0.404	--	--
Methyl Chloride	5.91	14.65	0.020	0.051	--	--	--	--
Methylene Chloride	2.289	7.83	0.008	0.027	0.134	0.196	--	--
Toluene	1.63	4.64	0.006	0.016	1.3	1.89	--	--
Trichloroethylene	1.418	3.711	0.005	0.013	0.071	0.104	--	--
pH	6.0-9.0 Range		6.0-9.0 Range		6.0-9.0 Range		6.0-9.0 Range	

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PERFORMANCE-BASED EFFLUENT LIMITS							Outlet 005 - TOC
USE EXCEL TO PERFORM THE LOGNORMAL TRANSFORMATION							
AND CALCULATE THE TRANSFORMED MEAN AND VARIANCE							
			LOGNORMAL TRANSFORMED MEAN =			1.3900	
			LOGNORMAL TRANSFORMED VARIANCE =			0.1259	
	NUMBER OF SAMPLES/MONTH FOR COMPLIANCE MONITORING =					2	
	AUTOCORRELATION FACTOR(ne)(USE 0 IF UNKNOWN) =					0	
					n>10	E(X)	4.2759	4.2759
					n>10	V(X)	2.453	2.453
					n<10	σ_n^2	0.0649	N/A
					n<10	μ_n	1.4205	N/A
					n>10	$V(X_n)$	1.226	N/A
						X.95=	8.295	N/A
						X.99=	N/A	9.165
						VF=	1.521	2.143
			MAXIMUM DAILY EFFLUENT LIMIT =				N/A	9.119
			AVERAGE MONTHLY EFFLUENT LIMIT =				6.470	N/A

WATER QUALITY BASED EFFLUENT LIMITATIONS

v 10.2

Chemours Washington Works

Outlet: 006

Stream: Ohio River

Hardness (mg/l):	109	**Instream Waste %:**	0.00
Temperature (°C):	27	**ZID:**	3.0
pH:	8.1	**CMZ:**	10.0
Stream 1Q10 (CFS):	5170	**HH CMZ:**	10.0
Stream 7Q10 (CFS):	6560	**HHA 1/2 Mile Rule CMZ:**	10.0
Effluent Flow (MGD):	0.01		

PARAMETER	Baseline Water Quality (mg/l)	Stream Background (mg/l)	End of Pipe WQC RP	RWC WQC RP	Average Monthly Limit (mg/l)	Maximum Daily Limit (mg/l)	Tier Protection Level
Total Residual Chlorine	NA	NA	No Data	No Data	0.0284	0.0570	Tier 1
Phenolics	NA	0.00241	Yes	No	Monitor	Monitor	Tier 1

Outfall discharges to Ohio River and is subject to ORSANCO Pollution Control Standards:	Yes
Outfall discharges to a Trout Stream:	No
Outfall discharges to a stream exempt from Human Health A Criteria:	No
Outfall discharges to a stream exempt from all Human Health Criteria:	No
Outfall discharges within 1/2 mile upstream of a public drinking water intake:	No
Outfall has limitations for at least one metal using a site specific translator:	No
Outfall has Tier 2.0 antidegradation limitations for at least one pollutant:	No

WATER QUALITY BASED EFFLUENT LIMITATIONS

v 10.2

Chemours Washington Works

Outlet: 006

Stream: Ohio River

Hardness (mg/l):	109	**Instream Waste %:**	0.00
Temperature (°C):	27	**ZID:**	1.0
pH:	8.1	**CMZ:**	1.0
Stream 1Q10 (CFS):	5170	**HH CMZ:**	1.0
Stream 7Q10 (CFS):	6560	**HHA 1/2 Mile Rule CMZ:**	1.0
Effluent Flow (MGD):	0.01		

PARAMETER	Baseline Water Quality (mg/l)	Stream Background (mg/l)	End of Pipe WQC RP	RWC WQC RP	Average Monthly Limit (mg/l)	Maximum Daily Limit (mg/l)	Tier Protection Level
HFPO	NA	NA	Yes	Yes	0.0001400	0.0002042	Tier 1

Outfall discharges to Ohio River and is subject to ORSANCO Pollution Control Standards:	Yes
Outfall discharges to a Trout Stream:	No
Outfall discharges to a stream exempt from Human Health A Criteria:	No
Outfall discharges to a stream exempt from all Human Health Criteria:	No
Outfall discharges within 1/2 mile upstream of a public drinking water intake:	No
Outfall has limitations for at least one metal using a site specific translator:	No
Outfall has Tier 2.0 antidegradation limitations for at least one pollutant:	No

PERFORMANCE-BASED EFFLUENT LIMITS							Outlet 006 - TSS
USE EXCEL TO PERFORM THE LOGNORMAL TRANSFORMATION							
AND CALCULATE THE TRANSFORMED MEAN AND VARIANCE							
			LOGNORMAL TRANSFORMED MEAN =			2.4549	
			LOGNORMAL TRANSFORMED VARIANCE =			1.3703	
	NUMBER OF SAMPLES/MONTH FOR COMPLIANCE MONITORING =					2	
	AUTOCORRELATION FACTOR(η_e)(USE 0 IF UNKNOWN) =					0	
					n>10	E(X)	23.1046	23.1046
					n>10	V(X)	1567.647	1567.647
					n<10	σ_n^2	0.9035	N/A
					n<10	μ_n	2.6883	N/A
					n>10	$V(X_n)$	783.824	N/A
						X.95=	70.240	N/A
						X.99=	N/A	177.278
						VF=	4.776	7.673
			MAXIMUM DAILY EFFLUENT LIMIT =			N/A	189.446
			AVERAGE MONTHLY EFFLUENT LIMIT =			117.928	N/A

WATER QUALITY BASED EFFLUENT LIMITATIONS

v 10.2

Chemours Washington Works

Outlet: 007

Stream: Ohio River

Hardness (mg/l):	109	**Instream Waste %:**	0.02
Temperature (°C):	27	**ZID:**	3.0
pH:	8.1	**CMZ:**	10.0
Stream 1Q10 (CFS):	5170	**HH CMZ:**	10.0
Stream 7Q10 (CFS):	6560	**HHA 1/2 Mile Rule CMZ:**	10.0
Effluent Flow (MGD):	0.7		

PARAMETER	Baseline Water Quality (mg/l)	Stream Background (mg/l)	End of Pipe WQC RP	RWC WQC RP	Average Monthly Limit (mg/l)	Maximum Daily Limit (mg/l)	Tier Protection Level
Total Residual Chlorine	NA	NA	No Data	No Data	0.0284	0.0570	Tier 1
HFPO	NA	0.0000057	No	No	Monitor	Monitor	Tier 1

Outfall discharges to Ohio River and is subject to ORSANCO Pollution Control Standards:	Yes
Outfall discharges to a Trout Stream:	No
Outfall discharges to a stream exempt from Human Health A Criteria:	No
Outfall discharges to a stream exempt from all Human Health Criteria:	No
Outfall discharges within 1/2 mile upstream of a public drinking water intake:	No
Outfall has limitations for at least one metal using a site specific translator:	No
Outfall has Tier 2.0 antidegradation limitations for at least one pollutant:	No

WATER QUALITY BASED EFFLUENT LIMITATIONS

v 10.2

Chemours Washington Works

Outlet: 007

Stream: Ohio River

Hardness (mg/l):	109	**Instream Waste %:**	0.02
Temperature (°C):	27	**ZID:**	3.0
pH:	8.1	**CMZ:**	10.0
Stream 1Q10 (CFS):	5170	**HH CMZ:**	30.0
Stream 7Q10 (CFS):	6560	**HHA 1/2 Mile Rule CMZ:**	30.0
Effluent Flow (MGD):	0.7		

PARAMETER	Baseline Water Quality (mg/l)	Stream Background (mg/l)	End of Pipe WQC RP	RWC WQC RP	Average Monthly Limit (mg/l)	Maximum Daily Limit (mg/l)	Tier Protection Level
PFOA	NA	0.0000136	Yes	No	Monitor	Monitor	Tier 1

Outfall discharges to Ohio River and is subject to ORSANCO Pollution Control Standards:	Yes
Outfall discharges to a Trout Stream:	No
Outfall discharges to a stream exempt from Human Health A Criteria:	No
Outfall discharges to a stream exempt from all Human Health Criteria:	No
Outfall discharges within 1/2 mile upstream of a public drinking water intake:	No
Outfall has limitations for at least one metal using a site specific translator:	No
Outfall has Tier 2.0 antidegradation limitations for at least one pollutant:	No

WATER QUALITY BASED EFFLUENT LIMITATIONS

Chemours Washington Works

Outlet: 007

version 4.0

Stream: Ohio River

Stream 1Q10 (CFS):	5170	**Instream Waste %:**	0.02
Stream 7Q10 (CFS):	6560	**ZID:**	3.0
Effluent Flow (MGD):	0.7	**CMZ:**	10.0

PARAMETER	Stream Background (F)	End of Pipe WQC RP	RWC WQC RP	Ave Mon (F)	Max Daily (F)
May (Temp Max)	64.5	Yes	Yes	77.7	90.0
June (Temp Max)	71.5	Yes	Yes	96.8	110.0
July (Temp Max)	75.2	Yes	Yes	100.8	110.0
August (Temp Max)	77.0	Yes	Yes	97.7	110.0
September (Temp Max)	74.5	Yes	Yes	94.1	108.9
October (Temp Max)	68.8	Yes	Yes	80.7	93.4

Outfall discharges to Ohio River and is subject to ORSANCO Pollution Control Standards:	Yes
Outfall discharges to Kanawha River:	No
Outfall discharges to a Trout Stream:	No

PERFORMANCE-BASED EFFLUENT LIMITS								Outlet 007 - TOC
USE EXCEL TO PERFORM THE LOGNORMAL TRANSFORMATION								
AND CALCULATE THE TRANSFORMED MEAN AND VARIANCE								
			LOGNORMAL TRANSFORMED MEAN =				1.2812	
			LOGNORMAL TRANSFORMED VARIANCE =				0.0807	
			NUMBER OF SAMPLES/MONTH FOR COMPLIANCE MONITORING =				2	
			AUTOCORRELATION FACTOR(ne)(USE 0 IF UNKNOWN) =				0	
					n>10	E(X)	3.7494	3.7494
					n>10	V(X)	1.182	1.182
					n<10	σ_n^2	0.0412	N/A
					n<10	μ_n	1.3010	N/A
					n>10	$V(X_n)$	0.591	N/A
						X.95=	5.129	N/A
						X.99=	N/A	6.974
						VF=	1.396	1.860
			MAXIMUM DAILY EFFLUENT LIMIT =				N/A	6.946
			AVERAGE MONTHLY EFFLUENT LIMIT =				5.215	N/A

PERFORMANCE-BASED EFFLUENT LIMITS								Outlet 007 - TSS
USE EXCEL TO PERFORM THE LOGNORMAL TRANSFORMATION								
AND CALCULATE THE TRANSFORMED MEAN AND VARIANCE								
			LOGNORMAL TRANSFORMED MEAN =				2.6244	
		LOGNORMAL TRANSFORMED VARIANCE =					1.5362	
	NUMBER OF SAMPLES/MONTH FOR COMPLIANCE MONITORING =						2	
	AUTOCORRELATION FACTOR(ne)(USE 0 IF UNKNOWN) =						0	
					n>10	E(X)	29.7401	29.7401
					n>10	V(X)	3225.728	3225.728
					n<10	σ_n^2	1.0360	N/A
					n<10	μ_n	2.8735	N/A
					n>10	$V(X_n)$	1612.864	N/A
						X.95=	94.581	N/A
						X.99=	N/A	246.494
						VF=	5.344	8.288
			MAXIMUM DAILY EFFLUENT LIMIT =				N/A	258.258
			AVERAGE MONTHLY EFFLUENT LIMIT =				165.223	N/A

Part I. State Draft Permit Submission Checklist

In accordance with the MOA established between the State of West Virginia and the United States Environmental Protection Agency, Region III, the Commonwealth submits the following draft National Pollutant Discharge Elimination System (NPDES) permit for Agency review and concurrence.

Facility Name: Chemours Washington Works

NPDES Permit Number: WV0001279

Permit Writer Name: John Lockhart, P.E. and Matt Sweeney, P.E.

Date: 2/7/18 Revised 3-14-18 MLS

Major [✓] **Minor** [ ] **Industrial** [✓] **Municipal** [ ]

I.A. Draft Permit Package Submittal Includes:	Yes	No	N/A
1. Permit Application?	X		
2. Complete Draft Permit (for renewal or first time permit – entire permit, including boilerplate information)?	X		
3. Copy of Public Notice?	X		
4. Complete Fact Sheet?	X		
5. A Priority Pollutant Screening to determine parameters of concern?			X
6. A Reasonable Potential analysis showing calculated WQBELs?	X		
7. Dissolved Oxygen calculations?			X
8. Whole Effluent Toxicity Test summary and analysis?	X		
9. Permit Rating Sheet for new or modified industrial facilities?			X

I.B. Permit/Facility Characteristics	Yes	No	N/A
1. Is this a new, or currently unpermitted facility?		X	
2. Are all permissible outfalls (including combined sewer overflow points, non-process water and storm water) from the facility properly identified and authorized in the permit?	X		
3. Does the fact sheet **or** permit contain a description of the wastewater treatment process?	X		
4. Does the review of PCS/DMR data for at least the last 3 years indicate significant non-compliance with the existing permit?		X	
5. Has there been any change in streamflow characteristics since the last permit was developed?	X		
6. Does the permit allow the discharge of new or increased loadings of any pollutants?	X		

I.B. Permit/Facility Characteristics – cont.	Yes	No	N/A
7. Does the fact sheet or permit provide a description of the receiving water body(s) to which the facility discharges, including information on low/critical flow conditions and designated/existing uses?	X		
8. Does the facility discharge to a 303(d) listed water?	X		
a. Has a TMDL been developed and approved by EPA for the impaired water?	X		
b. Does the record indicate that the TMDL development is on the State priority list and will most likely be developed within the life of the permit?			X
c. Does the facility discharge a pollutant of concern identified in the TMDL or 303(d) listed water?	X		
9. Have any limits been removed, or are any limits less stringent, than those in the current permit?		X	
10. Does the permit authorize discharges of storm water?	X		
11. Has the facility substantially enlarged or altered its operation or substantially increased its flow or production?	X		
12. Are there any production-based, technology-based effluent limits in the permit?	X		
13. Do any water quality-based effluent limit calculations differ from the State's standard policies or procedures?		X	
14. Are any WQBELs based on an interpretation of narrative criteria?	X		
15. Does the permit incorporate any variances or other exceptions to the State's standards or regulations?		X	
16. Does the permit contain a compliance schedule for any limit or condition?	X		
17. Is there a potential impact to endangered/threatened species or their habitat by the facility's discharge(s)?			X
18. Have impacts from the discharge(s) at downstream potable water supplies been evaluated?	X		
19. Is there any indication that there is significant public interest in the permit action proposed for this facility?	X		
20. Have previous permit, application, and fact sheet been examined?	X		

Part II. NPDES Draft Permit Checklist

Region III NPDES Permit Quality Review Checklist – For Non-Municipals

(To be completed and included in the record for all non-POTWs)

II.A. Permit Cover Page/Administration	Yes	No	N/A
1. Does the fact sheet or permit describe the physical location of the facility, including latitude and longitude (not necessarily on permit cover page)?	X		
2. Does the permit contain specific authorization-to-discharge information (from where to where, by whom)?	X		

II.B. Effluent Limits – General Elements	Yes	No	N/A
1. Does the fact sheet describe the basis of final limits in the permit (e.g., that a comparison of technology and water quality-based limits was performed, and the most stringent limit selected)?	X		
2. Does the fact sheet discuss whether "antibacksliding" provisions were met for any limits that are less stringent than those in the previous NPDES permit?			X

II.C. Technology-Based Effluent Limits (Effluent Guidelines & BPJ)	Yes	No	N/A
1. Is the facility subject to a national effluent limitations guideline (ELG)?	X		
a. If yes, does the record adequately document the categorization process, including an evaluation of whether the facility is a new source or an existing source?	X		
b. If no, does the record indicate that a technology-based analysis based on Best Professional Judgement (BPJ) was used for all pollutants of concern discharged at treatable concentrations?	X		
2. For all limits developed based on BPJ, does the record indicate that the limits are consistent with the criteria established at 40 CFR 125.3(d)?	X		
3. Does the fact sheet adequately document the calculations used to develop both ELG and /or BPJ technology-based effluent limits?	X		
4. For all limits that are based on production or flow, does the record indicate that the calculations are based on a "reasonable measure of ACTUAL production" for the facility (not design)?	X		
5. Does the permit contain "tiered" limits that reflect projected increases in production or flow?		X	
a. If yes, does the permit require the facility to notify the permitting authority when alternate levels of production or flow are attained?			X
6. Are technology-based permit limits expressed in appropriate units of measure (e.g., concentration, mass, SU)?	X		
7. Are all technology-based limits expressed in terms of both maximum daily, weekly average, and/or monthly average limits?	X		
8. Are any final limits less stringent than required by applicable effluent limitations guidelines or BPJ?		X	

II.D. Water Quality-Based Effluent Limits	Yes	No	N/A
1. Does the permit include appropriate limitations consistent with 40 CFR 122.44(d) covering State narrative and numeric criteria for water quality?	X		
2. Does the record indicate that any WQBELs were derived from a completed and EPA approved TMDL?			X
3. Does the fact sheet provide effluent characteristics for each outfall?	X		
4. Does the fact sheet document that a "reasonable potential" evaluation was performed?	X		
a. If yes, does the fact sheet indicate that the "reasonable potential" evaluation was performed in accordance with the State's approved procedures?	X		
b. Does the fact sheet describe the basis for allowing or disallowing in-stream dilution or a mixing zone?	X		
c. Does the fact sheet present WLA calculation procedures for all pollutants that were found to have "reasonable potential"?	X		
d. Does the fact sheet indicate that the "reasonable potential" and WLA calculations accounted for contributions from upstream sources (i.e., do calculations include ambient/background concentrations where data are available)?	X		
e. Does the permit contain numeric effluent limits for all pollutants for which "reasonable potential" was determined?	X		
5. Are all final WQBELs in the permit consistent with the justification and/or documentation provided in the fact sheet?	X		
6. For all final WQBELs, are BOTH long-term (e.g., average monthly) AND short-term (e.g., maximum daily, weekly average, instantaneous) effluent limits established?	X		
7. Are WQBELs expressed in the permit using appropriate units of measure (e.g., mass, concentration)?	X		
8. Does the fact sheet indicate that an "antidegradation" review was performed in accordance with the State's approved antidegradation policy?	X		

II.E. Monitoring and Reporting Requirements	Yes	No	N/A
1. Does the permit require at least annual monitoring for all limited parameters?	X		
a. If no, does the fact sheet indicate that the facility applied for and was granted a monitoring waiver, AND, does the permit specifically incorporate this waiver?			
2. Does the permit identify the physical location where monitoring is to be performed for each outfall?	X		
3. Does the permit require testing for Whole Effluent Toxicity in accordance with the State's standard practices?	X		

II.F. Special Conditions	Yes	No	N/A
1. Does the permit require development and implementation of a Best Management Practices (BMP) plan or site-specific BMPs?	X		
a. If yes, does the permit adequately incorporate and require compliance with the BMPs?	X		
2. If the permit contains compliance schedule(s), are they consistent with statutory and regulatory deadlines and requirements?	X		
3. Are other special conditions (e.g., ambient sampling, mixing studies, TIE/TRE, BMPs, special studies) consistent with CWA and NPDES regulations?	X		

II.G. Standard Conditions	Yes	No	N/A
1. Does the **permit** contain all 40 CFR 122.41 standard conditions or the State equivalent (or more stringent) conditions?	X		

List of Standard Conditions – 40 CFR 122.41

Duty to comply
Duty to reapply
Need to halt or reduce activity not a defense
Duty to mitigate
Proper O & M
Permit actions

Property rights
Duty to provide information
Inspections and entry
Monitoring and records
Signatory requirement
Bypass
Upset

Reporting Requirements
- Planned change
- Anticipated noncompliance
- Transfers
- Monitoring reports
- Compliance schedules
- 24-Hour reporting
- Other non-compliance

2. Does the permit contain the additional standard condition (or the State equivalent or more stringent conditions) for existing non-municipal dischargers regarding pollutant notification levels [40 CFR 122.42(a)]?	X		

Part III. Signature Page

Based on a review of the data and other information submitted by the permit applicant, and the draft permit and other administrative records generated by the Department/Division and/or made available to the Department/Division, the information provided on this checklist is accurate and complete, to the best of my knowledge.

Name	JVL / MLS
Title	Engineer
Signature	
Date	3-14-18

NPDES Permit Rating Work Sheet

[ ] Regular Addition
[ ] Discretionary Addition
[X] Score change, but no status change
[ ] Deletion

NPDES No.: WV0001279

Facility Name: Chemours Washington Works

City: Washington

Receiving Water: Ohio River

Reach Number: 05030202

Is this facility a steam electric power plant (SIC=4911) with one or more of the following characteristics?
1. Power output 500 MW or greater (not using a cooling pond/lake)
2. A nuclear power plant
3. Cooling water discharge greater than 25% of the receiving stream's 7Q10 flow rate

[ ] Yes; score is 600 (stop here) [X] No (Continue)

Is this permit for a municipal separate storm sewer serving a population greater than 100,000?

[ ] Yes; score is 700 (stop here)
[X] No

FACTOR 1: Toxic Pollutant Potential

PCS SIC Code: 2821 Primary SIC Code: 2821

Other SIC Codes: ____ ____ ____ ____

Industrial SubCategory Code: 000 (Code 000 if no category) 40 CFR 414 C (8 9) CFR Subpart (if applicable)

Determine the Toxicity potential from Appendix A. Be sure to use the Total toxicity potential column and check one

Toxicity Group	Code	Points	Toxicity Group	Code	Points	Toxicity Group	Code	Points
[ ] No process wastestreams	0	0	[ ] 3.	3	15	[ ] 7.	7	35
			[ ] 4.	4	20	[ ] 8.	8	40
[ ] 1.	1	5	[ ] 5.	5	25	[X] 9.	9	45
[ ] 2.	2	10	[ ] 6.	6	30	[ ] 10.	10	50

Code Number Checked: 09

Total Points Factor 1: 45

FACTOR 2: Flow/Stream Flow Volume (complete either Section A or Section B; check only one)

Section A - Wastewater Flow Only Considered

Wastewater Type (See Instructions)			Code	Points
Type I: NCCW	Flow < 5 MGD	[ ]	11	0
	Flow 5 to 10 MGD	[ ]	12	10
	Flow >10 to 50 MGD	[ ]	13	20
	Flow >50 MGD	[ ]	14	30
Type II: Process CCW	Flow < 1 MGD	[ ]	21	10
	Flow 1 to 5 MGD	[ ]	22	20
	Flow >5 to 10 MGD	[ ]	23	30
	Flow >10 MGD	[X]	24	50
Type III: Other SW Runoff	Flow < 1 MGD	[ ]	31	0
	Flow 1 to 5 MGD	[ ]	32	10
	Flow >5 to 10 MGD	[ ]	33	20
	Flow >10 MGD	[ ]	34	30

Section B - Wastewater and Streamflow Considered

Wastewater Type (See Instructions)	Percent of Instream Wastewater Concentration at Receiving Stream Low Flow		Code	Points
Type I/III:	< 10 %	[ ]	41	0
	>= 10 % to <= 50 %	[ ]	42	10
	>= 50 %	[ ]	43	20
Type II:	< 10 %	[ ]	51	0
	>= 10 % to <= 50 %	[ ]	52	20
	>= 50 %	[ ]	53	30

Code Number Checked: 24

Total Points Factor 2: 50

NPDES Permit Rating Work Sheet

FACTOR 3: Conventional Pollutants
(only when limited by the permit)

NPDES No.: W V 0 0 0 1 2 7 9

A. Oxygen Demanding Pollutant (check one): [ ] BOD [X] COD [ ] Other: _____

			Code	Points
Permit Limits (check one)	[ ]	< 100 lbds/day	1	0
	[ ]	100 to 1000 lbs/day	2	5
	[ ]	> 1000 to 3000 lbs/day	3	15
	[X]	> 3000 lbs/day	4	25

Code Number Checked: 0 4

Points Scored: 2 5

B. Total Suspended Solids (check one):

			Code	Points
Permit Limits (check one)	[ ]	< 100 lbds/day	1	0
	[ ]	100 to 1000 lbs/day	2	5
	[ ]	> 1000 to 5000 lbs/day	3	15
	[X]	> 5000 lbs/day	4	20

Code Number Checked: 0 4

Points Scored: 2 0

C. Nitrogen Pollutants (check one): [X] Ammonia [ ] Other: _____

			Code	Points
Permit Limits (check one)	[ ]	< 300 lbds/day	1	0
	[X]	300 to 1000 lbs/day	2	5
	[ ]	> 1000 to 3000 lbs/day	3	15
	[ ]	> 3000 lbs/day	4	25

Code Number Checked: 0 2

Points Scored: 0 5

Total Points Factor 3: 5 0

FACTOR 4: Public Health Impact
Is there a public drinking water supply located within 50 miles downstream of the effluent discharge (this includes any body of water to which the receiving stream is a tributary)? A public water supply may include infiltration galleries, or other methods of conveyance that ultimately get water from the above referenced supply.

[X] Yes (If yes, check toxicity potential number below)
[ ] No (If no, go to Factor 5)

Determine the human health toxicity potential from Appendix A. Use the same SIC code and subcategory references as in Factor 1. (Be sure to use the human health toxicity group column - check one below)

Toxicity Group	Code	Points	Toxicity Group	Code	Points	Toxicity Group	Code	Points
[ ] No process wastestreams	0	0	[ ] 3.	3	0	[ ] 7.	7	15
			[ ] 4.	4	0	[X] 8.	8	20
[ ] 1.	1	0	[ ] 5.	5	5	[ ] 9.	9	25
[ ] 2.	2	0	[ ] 6.	6	10	[ ] 10.	10	30

Code Number Checked: 0 8

Total Points Factor 4: 2 0

NPDES Permit Rating Work Sheet

FACTOR 5: Water Quality Factors NPDES No.: W V 0 0 0 1 2 7 9

A. Is (or will) one or more of the effluent discharge limits based on water quality factors of the receiving stream (rather than technology-based federal guidelines, or technology-based state effluent guidelines); or has a wasteload allocation been assigned to the discharge?

		Code	Points
X	Yes	1	10
	No	2	0

B. Is the receiving water in compliance with applicable water quality standards for pollutants that are water quality limited in the permit?

		Code	Points
	Yes	1	0
X	No	2	5

C. Does the effluent discharged from this facility exhibit the reasonable potential to violate water quality standards due to whole effluent toxicity?

		Code	Points
	Yes	1	10
X	No	2	0

Code Number Checked: A: 1 B: 2 C: 2

Total Points Factor 5: A: 1 0 B: 0 5 C: 0 0 = 1 5 Total

FACTOR 6: Proximity to Coastal Waters

A. Base Score: Enter Flow Code Here (from Factor 2): 2 4

Check appropriate facility HPRI Code (from PCS): 0 4

Enter the multiplication factor that corresponds to the flow code: 1 0 1

	HPRI #	Code	HPRI Score
	1	1	20
	2	2	0
	3	3	30
X	4	4	0
	5	5	20

HPRI code checked: 4

Flow Code	Multiplication Factor
11,31, or 41	0.00
12,32, or 42	0.05
13,33, or 43	0.10
14 or 34	0.15
21 or 51	0.10
22 or 52	0.30
23 or 53	0.60
24	1.00

Base Score: (HPRI Score) 0 0 x (Multiplication Factor) 1. 0 1 = 0 (Total Points)

B. Additional Points - NEP Program
For a facility that has an HPRI Code of 3, does the facility discharge to one of the estuaries enrolled in the National Estuary Protection (NEP) program (see instructions) or the Chesapeake Bay?

		Code	Points
	Yes	1	10
X	No	2	0

C. Additional Points - Great Lakes Area of Concern
For a facility that has an HPRI Code of 5, does the facility discharge any of the pollutants of concern into one of the Great Lakes' 31 areas of concern (see instructions)?

		Code	Points
	Yes	1	10
X	No	2	0

Code Number Checked: A: 4 B: 2 C: 2

Total Points Factor 5: A: 0 0 B: 0 0 C: 0 0 = 0 0 Total

NPDES Permit Rating Work Sheet

SCORE SUMMARY

NPDES No.: | W | V | 0 | 0 | 0 | 1 | 2 | 7 | 9 |

Factor	Description	Total Points
1	Toxic Pollutant Potential	4 5
2	Flow/Stream Flow Volume	5 0
3	Conventional Pollutants	5 0
4	Public Health Impacts	2 0
5	Water Quality Factors	1 5
6	Proximity to Near Coastal Waters	0 0
	TOTAL (Factors 1 through 6)	1 8 0

S1. Is the total score equal to or greater than 80? [X] Yes (facility is a major) [ ] No

S2. If the answer to the above question is no, would you like this facility to be a discretionary major?

[X] No
[ ] Yes (Add 500 points to the above score and provide reason below):

Reason: _____

NEW SCORE: 1 8 0

OLD SCORE: _____

JVP
Permit Reviewer's Name

1028
Phone Number

1/25/18
Date