Alabama Department of Environmental Management adem.alabama.gov

APRIL 26, 2024

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Montgomery, Alabama 36130-1463

(334) 271-7700 FAX (334) 271-7950

MR. DANIEL COX PLANT MANAGER ARCLIN USA LLC 14139 US HIGHWAY 84 ANDALUSIA, AL 36421

RE:

DRAFT PERMIT

NPDES PERMIT NUMBER AL0000868

Dear Mr. Cox:

Transmitted herein is a draft of the referenced permit.

We would appreciate your comments on the permit within 30 days of the date of this letter. Please direct any comments of a technical or administrative nature to the undersigned.

By copy of this letter and the draft permit, we are also requesting comments within the same time frame from EPA.

Our records indicate that you have utilized the Department's web-based electronic environmental (E2) reporting system for submittal of discharge monitoring reports (DMRs). The Department transitioned from the E2 Reporting System to the Alabama Environmental Permitting and Compliance System (AEPACS) for the submittal of DMRs on November 15, 2021. AEPACS is an electronic system that allows facilities to apply for and maintain permits as well as submit other required applications, registrations, and certifications. In addition, the system allows facilities to submit required compliance reports or other information to the Department. The Department has used the E2 User account information to set up a similar User Profile in AEPACS based on the following criteria:

- The user has logged in to E2 since October 1, 2019; and
- 2. The E2 user account is set up using a unique email address.

E2 users that met the above criteria will only need to establish an ADEM Web Portal account (https://prd.adem.alabama.gov/awp) under the same email address as their E2 account to have the same permissions in AEPACS as they did in E2. They will also automatically be linked to the same facilities they were in E2.

The Alabama Department of Environmental Management encourages you to voluntarily consider pollution prevention practices and alternatives at your facility. Pollution Prevention may assist you in complying with effluent limitations, and possibly reduce or eliminate monitoring requirements.

If you have questions regarding this permit or monitoring requirements, please contact Victoria Kim by e-mail at victoria.kim@adem.alabama.gov or by phone at (334) 271-7895.

Scott Ramsey, Chief

Industrial/Municipal Branch

Water Division

Enclosure:

Draft Permit

pc via website:

Montgomery Field Office

EPA Region IV

U.S. Fish & Wildlife Service AL Historical Commission

Advisory Council on Historic Preservation

Department of Conservation and Natural Resources







NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT

PERMITTEE:	ARCLIN USA LLC
FACILITY LOCATION:	ARCLIN, INC. 14139 US HIGHWAY 84 ANDALUSIA, ALABAMA 36421 COVINGTON COUNTY
PERMIT NUMBER:	AL0000868
RECEIVING WATERS:	001-003 - UNNAMED TRIBUTARY TO PRESTWOOD CREEK 004 - CONECUH RIVER
"FWPCA"), the Alabama Water P the Alabama Environmental Mana	the provisions of the Federal Water Pollution Control Act, as amended, 33 U.S.C. §§1251-1388 (the Pollution Control Act, as amended, Code of Alabama 1975, §§ 22-22-1 to 22-22-14 (the "AWPCA") agement Act, as amended, Code of Alabama 1975, §§22-22A-1 to 22-22A-17, and rules and regulation further to the terms and conditions set forth in this permit, the Permittee is hereby authorized to ecciving waters.
ISSUANCE DATE:	
EFFECTIVE DATE:	
EXPIRATION DATE:	

DRAFT

Alabama Department of Environmental Management

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PART I: DISCHARGE LIMITATIONS, CONDITIONS, AND REQUIREMENTS

A. DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS

DSN 0011: Treated Process Water, boiler blowdown, steam condensate, demineralizer rinse, non-contact cooling water, cooling tower blowdown, and stormwater discharging to an U.T. to Prestwood Creek.

During the period beginning on the effective date of this permit and lasting through the expiration date of this permit, the Permittee is authorized to discharge from the outfall(s) listed above and described more fully in the Permittee's application. Such discharges shall be limited and monitored by the Permittee as specified below:

Parameter	Quantity o	r Loading	Units	Qu	ality or Concentrat	ion	Units	Sample Frequency ²	Sample Type ¹	Seasonal
Oxygen, Dissolved (DO) (00300) Effluent Gross Value	****	****	****	5.5 Minimum Daily	****	****	mg/l	Weekly	Grab	All Months
pH (00400) Effluent Gross Value	****	****	****	6.0 Minimum Daily	****	8.5 Maximum Daily	S.U.	Weekly	Grab	All Months
Solids, Total Suspended (00530) Effluent Gross Value	3.48 Monthly Average	8.66 Maximum Daily	lbs/day	****	****	****	****	Weekly	Composite	All Months
Nitrogen, Ammonia Total (As N) (00610) Effluent Gross Value	****	****	****	****	2.2 Monthly Average	3.3 Maximum Daily	mg/l	Weekly	Composite	All Months
Arsenic, Total Recoverable (00978) Effluent Gross Value	****	****	****	****	0.303 Monthly Average	0.606 Maximum Daily	ug/l	Monthly	Composite	All Months
Zinc Total Recoverable (01094) Effluent Gross Value	****	. ****	****	****	(Report) Monthly Average	(Report) Maximum Daily	mg/l	Monthly	Composite	All Months
Lead, Total Recoverable (01114) Effluent Gross Value	****	****	****	****	(Report) Monthly Average	(Report) Maximum Daily	mg/l	Monthly	Composite	All Months
Copper Total Recoverable (01119) Effluent Gross Value	****	****	****	****	0.0128 Monthly Average	0.0180 Maximum Daily	mg/l	Monthly	Composite	All Months
Bromoform (32104) Effluent Gross Value	****	****	****	****	78.8 Monthly Average	157.6 Maximum Daily	ug/l	Monthly	Composite	All Months

- Samples collected to comply with the monitoring requirements specified above shall be collected at the following location: At the nearest accessible location just prior to discharge and after final treatment. Unless otherwise specified, composite samples shall be time composite samples collected using automatic sampling equipment or a minimum of eight (8) equal volume grab samples collected over equal time intervals. All composite samples shall be collected for the total period of discharge not to exceed 24 hours.
- 2/ If only one sampling event occurs during a month, the sample result shall be reported on the discharge monitoring report as both the monthly average and daily maximum value for all parameters with a monthly average limitation.
- 3/ See Part IV.A for Best Management Practices (BMP) Plan Requirements.

During the period beginning on the effective date of this permit and lasting through the expiration date of this permit, the Permittee is authorized to discharge from the outfall(s) listed above and described more fully in the Permittee's application. Such discharges shall be limited and monitored by the Permittee as specified below:

Parameter	Quantity or Loading		Units	Units Quality or Concentration			Units	Sample Frequency ²	Sample Type ¹	Seasonal
Flow, In Conduit or Thru Treatment Plant (50050) Effluent Gross Value	(Report) Monthly Average	(Report) Maximum Daily	MGD	****	****	****	****	Daily	Totalizer	All Months
Chlorine, Total Residual (50060) See notes (1,2) Effluent Gross Value	****	****	****	****	0.011 Monthly Average	0.019 Maximum Daily	mg/l	Monthly	Grab	All Months
BOD, Carbonaceous 05 Day, 20C (80082) Effluent Gross Value	2.69 Monthly Average	4.03 Maximum Daily	lbs/day	****	****	****	****	Weekly	Composite	All Months

- Samples collected to comply with the monitoring requirements specified above shall be collected at the following location: At the nearest accessible location just prior to discharge and after final treatment. Unless otherwise specified, composite samples shall be time composite samples collected using automatic sampling equipment or a minimum of eight (8) equal volume grab samples collected over equal time intervals. All composite samples shall be collected for the total period of discharge not to exceed 24 hours.
- 2/ If only one sampling event occurs during a month, the sample result shall be reported on the discharge monitoring report as both the monthly average and daily maximum value for all parameters with a monthly average limitation.
- 3/ See Part IV.A for Best Management Practices (BMP) Plan Requirements.
- 4/ A measurement of Total Residual Chlorine below 0.05 mg/l shall be considered in compliance with the permit limitations above and should be reported as NODI=B or *B on the discharge monitoring reports.

During the period beginning on the effective date of this permit and lasting through the expiration date of this permit, the Permittee is authorized to discharge from the outfall(s) listed above and described more fully in the Permittee's application. Such discharges shall be limited and monitored by the Permittee as specified below:

Parameter	Quantity or Loading		Units	Quality or Concentration				Sample Frequency ²	Sample Type ¹	Seasonal
Perfluorooctanoic Acid (51521) Effluent Gross Value	***	***	****	***	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
Perfluorobutanoic Acid (51522) Effluent Gross Value	****	****	****	***	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
Perfluorooctanesulfonamide (51525) Effluent Gross Value	***	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
Perfluoropentanoic Acid (51623) Effluent Gross Value	* * * *	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
Perfluorohexanoic Acid (51624) Effluent Gross Value	***	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
Perfluoroheptanoic Acid (51625) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
Perfluorononanoic acid (51626) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
Perfluorodecanoic Acid (51627) Effluent Gross Value	* * * * *	****	** ** ** **	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
Perfluoroundecanoic Acid (51628) Effluent Gross Value	****	****	****	***	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months

- 1/ Samples collected to comply with the monitoring requirements specified above shall be collected at the following location: At the nearest accessible location just prior to discharge and after final treatment. Unless otherwise specified, composite samples shall be time composite samples collected using automatic sampling equipment or a minimum of eight (8) equal volume grab samples collected over equal time intervals. All composite samples shall be collected for the total period of discharge not to exceed 24 hours.
- 2/ If only one sampling event occurs during a month, the sample result shall be reported on the discharge monitoring report as both the monthly average and daily maximum value for all parameters with a monthly average limitation.
- 3/ EPA Method 1633, or alternative methods specifically approved by the Department, shall be used for the analyses of Per- and Polyfluorinated Alkyl Substances (PFAS).

During the period beginning on the effective date of this permit and lasting through the expiration date of this permit, the Permittee is authorized to discharge from the outfall(s) listed above and described more fully in the Permittee's application. Such discharges shall be limited and monitored by the Permittee as specified below:

Parameter	Quantity	or Loading	Units	Q	uality or Concentra	ation	Units	Sample Frequency ²	Sample Type ¹	Seasonal
Perfluorododecanoic acid (51629) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
Perfluorotridecanoic Acid (51630) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
Perfluorotetradecanoic Acid (51631) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
N-ethyl perfluorooctanesulfonamidoethan ol (51641) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
N-methyl perfluorooctanesulfonamidoethan ol (51642) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
2-(N-ethyl-PFOSA) acetic acid (51643) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
2-(N-methyl-PFOSA) acetic acid (51644) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
Perfluorobutanesulfonic acid (52602) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
Perfluorodecanesulfonic acid (52603) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months

- Samples collected to comply with the monitoring requirements specified above shall be collected at the following location: At the nearest accessible location just prior to discharge and after final treatment. Unless otherwise specified, composite samples shall be time composite samples collected using automatic sampling equipment or a minimum of eight (8) equal volume grab samples collected over equal time intervals. All composite samples shall be collected for the total period of discharge not to exceed 24 hours.
- 2/ If only one sampling event occurs during a month, the sample result shall be reported on the discharge monitoring report as both the monthly average and daily maximum value for all parameters with a monthly average limitation.
- 3/ EPA Method 1633, or alternative methods specifically approved by the Department, shall be used for the analyses of Per- and Polyfluorinated Alkyl Substances (PFAS).

During the period beginning on the effective date of this permit and lasting through the expiration date of this permit, the Permittee is authorized to discharge from the outfall(s) listed above and described more fully in the Permittee's application. Such discharges shall be limited and monitored by the Permittee as specified below:

Parameter	Quantity or Loading		Units	Quality or Concentration			Units	Sample Frequency ²	Sample Type ¹	Seasonal
Perfluoroheptanesulfonic acid (52604) Effluent Gross Value	ajc ajc ajc ajc	******	मेर मेर मेर मेर मेर	*******	*************************************	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
Perfluorohexanesulfonic acid (52605) Effluent Gross Value	****	ale ale ale ale ale	अंद अंद अंद अंद अंद	16 16 16 16 16	अंद अंद अंद अंद अंद	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
Perfluorooctanesulfonic acid (52606) Effluent Gross Value	****	****	****	ale ale ale ale	और और और और और	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (52607) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (52608) Effluent Gross Value	****	* * * * *	***	ate ate ate ate	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
1H, 1H, 2H, 2H-Perfluorodecane sulfonic acid (52609) Effluent Gross Value	****	ale ale ale ale	ale ale ale ale	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
Perfluoropentansulfonic acid (52610) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
Perfluorononanesulfonic acid (52611) Effluent Gross Value	****	ale ale ale ale	***	ale ale ale ale	*****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
Hexafluoropropylene oxide dimer acid (52612) Effluent Gross Value	* * * * *	****	***	***************************************	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months

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- 2/ If only one sampling event occurs during a month, the sample result shall be reported on the discharge monitoring report as both the monthly average and daily maximum value for all parameters with a monthly average limitation.
- 3/ EPA Method 1633, or alternative methods specifically approved by the Department, shall be used for the analyses of Per- and Polyfluorinated Alkyl Substances (PFAS).

During the period beginning on the effective date of this permit and lasting through the expiration date of this permit, the Permittee is authorized to discharge from the outfall(s) listed above and described more fully in the Permittee's application. Such discharges shall be limited and monitored by the Permittee as specified below:

Parameter	Quantity	or Loading	Units	(Quality or Concentr	ation	Units	Sample Frequency ²	Sample Type ¹	Seasonal
Nonafluoro-3,6-dioxaheptanoic acid (52626) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
Perfluoro(2-ethoxyethane)sulfonic acid (52629) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
Perfluorododecanesulfonic acid (52632) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
4,8-Dioxa-3H-perfluorononanoic acid (52636) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
N-methyl perfluorooctanesulfonamide (52641) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
N-ethyl perfluorooctanesulfonamide (52642) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
3-Perfluoropropyl propanoic acid (PF001) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
Perfluoro-3-methoxypropanoic acid (PF002) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
9-Chlorohexadecafluoro-3- oxanonane-1-sulfonic acid (PF003) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months

- 1/ Samples collected to comply with the monitoring requirements specified above shall be collected at the following location: At the nearest accessible location just prior to discharge and after final treatment. Unless otherwise specified, composite samples shall be time composite samples collected using automatic sampling equipment or a minimum of eight (8) equal volume grab samples collected over equal time intervals. All composite samples shall be collected for the total period of discharge not to exceed 24 hours.
- 2/ If only one sampling event occurs during a month, the sample result shall be reported on the discharge monitoring report as both the monthly average and daily maximum value for all parameters with a monthly average limitation.
- 3/ EPA Method 1633, or alternative methods specifically approved by the Department, shall be used for the analyses of Per- and Polyfluorinated Alkyl Substances (PFAS).

During the period beginning on the effective date of this permit and lasting through the expiration date of this permit, the Permittee is authorized to discharge from the outfall(s) listed above and described more fully in the Permittee's application. Such discharges shall be limited and monitored by the Permittee as specified below:

Parameter	Quantity (or Loading	Units	Qı	Quality or Concentration			Sample Frequency ²	Sample Type ¹	Seasonal
11-Chloroeicosafluoro-3- oxaundecane-1-sulfonic acid (PF004) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
3-Perfluoroheptyl propanoic acid (PF005) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
Perfluoro-4- methoxybutanoic acid (PF006) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
2H,2H,3H,3H- Perfluorooctanoic acid (PF007) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months

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- 3/ EPA Method 1633, or alternative methods specifically approved by the Department, shall be used for the analyses of Per- and Polyfluorinated Alkyl Substances (PFAS).

During the period beginning on the effective date of this permit and lasting through the expiration date of this permit, the Permittee is authorized to discharge from the outfall(s) listed above and described more fully in the Permittee's application. Such discharges shall be limited and monitored by the Permittee as specified below:

Parameter	Parameter Quantity or Loading		Units	Units Quality or Concentration			Units	Sample Frequency ²	Sample Type ¹	Seasonal
Toxicity, Ceriodaphnia Chronic (61426) Effluent Gross Value	****	0 Single Sample	pass=0;fail=1	****	****	****	****	Semi- Annually	Composite	All Months
Toxicity, Pimephales Chronic (61428) Effluent Gross Value	****	0 Single Sample	pass=0;fail=1	****	****	****	****	Semi- Annually	Composite	All Months

- 1/ Samples collected to comply with the monitoring requirements specified above shall be collected at the following location: At the nearest accessible location just prior to discharge and after final treatment. Unless otherwise specified, composite samples shall be time composite samples collected using automatic sampling equipment or a minimum of eight (8) equal volume grab samples collected over equal time intervals. All composite samples shall be collected for the total period of discharge not to exceed 24 hours.
- 2/ If only one sampling event occurs during a month, the sample result shall be reported on the discharge monitoring report as both the monthly average and daily maximum value for all parameters with a monthly average limitation.
- 3/ See Part IV.D for Chronic Toxicity Requirements.

During the period beginning on the effective date of this permit and lasting through the expiration date of this permit, the Permittee is authorized to discharge from the outfall(s) listed above and described more fully in the Permittee's application. Such discharges shall be limited and monitored by the Permittee as specified below:

Parameter	Quantity o	Quantity or Loading		Quality or Concentration				Sample Frequency ²	Sample Type ¹	Seasonal
Cyanide, Total (As CN) (00720) Effluent Gross Value	****	(Report) Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
Chromium, Total (As Cr) (01034) Effluent Gross Value	****	(Report) Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
Copper, Total (As Cu) (01042) Effluent Gross Value	****	(Report) Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
Lead, Total (As Pb) (01051) Effluent Gross Value	****	(Report) Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
Nickel, Total (As Ni) (01067) Effluent Gross Value	****	(Report) Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
Zinc, Total (As Zn) (01092) Effluent Gross Value	****	(Report) Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
Carbon Tetrachloride (32102) Effluent Gross Value	0.0001 Monthly Average	0.0001 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
1,2-Dichloroethane (32103) Effluent Gross Value	0.0023 Monthly Average	0.0023 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
Chloroform (32106) Effluent Gross Value	0.0023 Monthly Average	0.0049 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months

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- 2/ If only one sampling event occurs during a month, the sample result shall be reported on the discharge monitoring report as both the monthly average and daily maximum value for all parameters with a monthly average limitation.
- 3/ See Part IV.A for Best Management Practices (BMP) Plan Requirements.

During the period beginning on the effective date of this permit and lasting through the expiration date of this permit, the Permittee is authorized to discharge from the outfall(s) listed above and described more fully in the Permittee's application. Such discharges shall be limited and monitored by the Permittee as specified below:

Parameter	Quantity o	or Loading	Units	Qı	uality or Concentrat	tion	Units	Sample Frequency ²	Sample Type ¹	Seasonal
Toluene (34010) Effluent Gross Value	0.002 Monthly Average	0.004 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
Benzene (34030) Effluent Gross Value	0.0017 Monthly Average	0.0017 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
Acenaphthylene (34200) Effluent Gross Value	0.001 Monthly Average	0.003 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
Acenaphthene (34205) Effluent Gross Value	0.001 Monthly Average	0.003 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
Acrylonitrile (34215) Effluent Gross Value	0.000015 Monthly Average	0.000015 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
Anthracene (34220) Effluent Gross Value	0.001 Monthly Average	0.003 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
Benzo (K) Fluoranthene (34242) Effluent Gross Value	0.000001 Monthly Average	0.000001 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
Benzo (A) Pyrene (34247) Effluent Gross Value	0.000001 Monthly Average	0.000001 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
Chlorobenzene (34301) Effluent Gross Value	0.0016 Monthly Average	0.0030 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months

- 1/ Samples collected to comply with the monitoring requirements specified above shall be collected at the following location: At the nearest accessible location just prior to discharge and after final treatment. Unless otherwise specified, composite samples shall be time composite samples collected using automatic sampling equipment or a minimum of eight (8) equal volume grab samples collected over equal time intervals. All composite samples shall be collected for the total period of discharge not to exceed 24 hours.
- 2/ If only one sampling event occurs during a month, the sample result shall be reported on the discharge monitoring report as both the monthly average and daily maximum value for all parameters with a monthly average limitation.
- 3/ See Part IV.A for Best Management Practices (BMP) Plan Requirements.

During the period beginning on the effective date of this permit and lasting through the expiration date of this permit, the Permittee is authorized to discharge from the outfall(s) listed above and described more fully in the Permittee's application. Such discharges shall be limited and monitored by the Permittee as specified below:

Parameter	Quantity o	or Loading	Units	Qı	uality or Concentrat	tion	Units	Sample Frequency ²	Sample Type ¹	Seasonal
Chrysene (34320) Effluent Gross Value	0.000001 Monthly Average	0.000001 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
Diethyl Phthalate (34336) Effluent Gross Value	0.0030 Monthly Average	0.0060 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
Dimethyl Phthalate (34341) Effluent Gross Value	0.001 Monthly Average	0.003 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
Ethylbenzene (34371) Effluent Gross Value	0.0034 Monthly Average	0.0116 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
Fluoranthene (34376) Effluent Gross Value	0.001 Monthly Average	0.003 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
Fluorene (34381) Effluent Gross Value	0.001 Monthly Average	0.003 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
Hexachlorobutadiene (34391) Effluent Gross Value	0.0012 Monthly Average	0.0012 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
Hexachloroethane (34396) Effluent Gross Value	0.00025 Monthly Average	0.00025 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
Methyl Chloride (34418) Effluent Gross Value	0.006 Monthly Average	0.016 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months

- Samples collected to comply with the monitoring requirements specified above shall be collected at the following location: At the nearest accessible location just prior to discharge and after final treatment. Unless otherwise specified, composite samples shall be time composite samples collected using automatic sampling equipment or a minimum of eight (8) equal volume grab samples collected over equal time intervals. All composite samples shall be collected for the total period of discharge not to exceed 24 hours.
- 2/ If only one sampling event occurs during a month, the sample result shall be reported on the discharge monitoring report as both the monthly average and daily maximum value for all parameters with a monthly average limitation.
- 3/ See Part IV.A for Best Management Practices (BMP) Plan Requirements.

During the period beginning on the effective date of this permit and lasting through the expiration date of this permit, the Permittee is authorized to discharge from the outfall(s) listed above and described more fully in the Permittee's application. Such discharges shall be limited and monitored by the Permittee as specified below:

Parameter	Quantity o	r Loading	Units	Qı	uality or Concentrat	tion	Units	Sample Frequency ²	Sample Type ¹	Seasonal
Methylene Chloride (34423)	0.002 Monthly Average	0.009 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
Effluent Gross Value Nitrobenzene (34447) Effluent Gross Value	0.0029 Monthly Average	0.0073 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
Phenanthrene (34461) Effluent Gross Value	0.001 Monthly Average	0.003 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
Pyrene (34469) Effluent Gross Value	0.001 Monthly Average	0.003 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
Tetrachloroethylene (34475) Effluent Gross Value	0.0002 Monthly Average	0.0002 Maximum Daily	lbs/day	****	* * * *	****	****	Annually	Grab	All Months
1,1-Dichloroethane (34496) Effluent Gross Value	0.001 Monthly Average	0.003 Maximum Daily	lbs/day	****	****	* * * *	****	Annually	Grab	All Months
1,1-Dichloroethylene (34501) Effluent Gross Value	0.0012 Monthly Average	0.0033 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
1,1,1-Trichloroethane (34506) Effluent Gross Value	0.0012 Monthly Average	0.0033 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
1,1,2-Trichloroethane (34511) Effluent Gross Value	0.0010 Monthly Average	0.0010 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months

- Samples collected to comply with the monitoring requirements specified above shall be collected at the following location: At the nearest accessible location just prior to discharge and after final treatment. Unless otherwise specified, composite samples shall be time composite samples collected using automatic sampling equipment or a minimum of eight (8) equal volume grab samples collected over equal time intervals. All composite samples shall be collected for the total period of discharge not to exceed 24 hours.
- 2/ If only one sampling event occurs during a month, the sample result shall be reported on the discharge monitoring report as both the monthly average and daily maximum value for all parameters with a monthly average limitation.
- 3/ See Part IV.A for Best Management Practices (BMP) Plan Requirements.

During the period beginning on the effective date of this permit and lasting through the expiration date of this permit, the Permittee is authorized to discharge from the outfall(s) listed above and described more fully in the Permittee's application. Such discharges shall be limited and monitored by the Permittee as specified below:

Parameter	Quantity o	r Loading	Units	Qı	uality or Concentrat	tion	Units	Sample Frequency ²	Sample Type ¹	Seasonal
Benzo (A) Anthracene (34526) Effluent Gross Value	0.000001 Monthly Average	0.000001 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
1,2-Dichlorobenzene (34536) Effluent Gross Value	0.0083 Monthly Average	0.0175 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
1,2-Dichloropropane (34541) Effluent Gross Value	0.000912 Monthly Average	0.000912 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
1,2-Trans-Dichloroethylene (34546) Effluent Gross Value	0.0014 Monthly Average	0.0037 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
1,2,4-Trichlorobenzene (34551) Effluent Gross Value	0.0044 Monthly Average	0.0044 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
1,3-Dichlorobenzene (34566) Effluent Gross Value	0.0033 Monthly Average	0.0047 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
1,4-Dichlorobenzene (34571) Effluent Gross Value	0.0016 Monthly Average	0.003 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
2-Chlorophenol (34586) Effluent Gross Value	0.0000 Monthly Average	0.0000 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
2-Nitrophenol (34591) Effluent Gross Value	0.004 Monthly Average	0.0074 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months

- 1/ Samples collected to comply with the monitoring requirements specified above shall be collected at the following location: At the nearest accessible location just prior to discharge and after final treatment. Unless otherwise specified, composite samples shall be time composite samples collected using automatic sampling equipment or a minimum of eight (8) equal volume grab samples collected over equal time intervals. All composite samples shall be collected for the total period of discharge not to exceed 24 hours.
- 2/ If only one sampling event occurs during a month, the sample result shall be reported on the discharge monitoring report as both the monthly average and daily maximum value for all parameters with a monthly average limitation.
- 3/ See Part IV.A for Best Management Practices (BMP) Plan Requirements.

During the period beginning on the effective date of this permit and lasting through the expiration date of this permit, the Permittee is authorized to discharge from the outfall(s) listed above and described more fully in the Permittee's application. Such discharges shall be limited and monitored by the Permittee as specified below:

Parameter	Quantity o	or Loading	Units	Q	uality or Concentrat	tion	Units	Sample Frequency ²	Sample Type ¹	Seasonal
2,4-Dichlorophenol (34601)	0.0000	0.0000	lbs/day	****	****	****	****	Annually	Grab	All Months
Effluent Gross Value	Monthly Average	Maximum Daily								
2.4-Dimethylphenol (34606)		0.003	lbs/day	****	****	****	****	Annually	Grab	All Months
Effluent Gross Value	Monthly Average	Maximum Daily	105/Gay			ļ		11111111111	0.40	7111 1/10111115
2.4-Dinitrotoluene (34611)	0.0000	0.0000	lbs/day	****	****	****	****	Annually	Grab	All Months
Effluent Gross Value	Monthly Average	Maximum Daily	103/day					Timuany	Grao	7 th ividitiis
2.4-Dinitrophenol (34616)	0.0076	0.0132	lbs/day	****	****	****	****	Annually	Grab	All Months
Effluent Gross Value	Monthly Average	Maximum Daily	105/day					Aillidally	Grab	All Molitils
2,6-Dinitrotoluene (34626)	0.0000	0.0000	lbs/day	****	****	****	****	Annually	Grab	All Months
Effluent Gross Value	Monthly Average	Maximum Daily	108/day					Ailliually	Grau	All Molluis
4-Nitrophenol (34646)	0.0077	0.0133	1ha/dan	****	****	****	****	Ammuoller	Grab	A 11 N d a seale a
Effluent Gross Value	Monthly Average	Maximum Daily	lbs/day				1 /// //	Annually	Grao	All Months
4,6-Dinitro-O-Cresol (34657) Effluent Gross Value	0.0043 Monthly Average	0.0154 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
Phenol, Single Compound (34694) Effluent Gross Value	0.0011 Monthly Average	0.0026 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
Naphthalene (34696) Effluent Gross Value	0.001 Monthly Average	0.003 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months

- 1/ Samples collected to comply with the monitoring requirements specified above shall be collected at the following location: At the nearest accessible location just prior to discharge and after final treatment. Unless otherwise specified, composite samples shall be time composite samples collected using automatic sampling equipment or a minimum of eight (8) equal volume grab samples collected over equal time intervals. All composite samples shall be collected for the total period of discharge not to exceed 24 hours.
- 2/ If only one sampling event occurs during a month, the sample result shall be reported on the discharge monitoring report as both the monthly average and daily maximum value for all parameters with a monthly average limitation.
- 3/ See Part IV.A for Best Management Practices (BMP) Plan Requirements.

During the period beginning on the effective date of this permit and lasting through the expiration date of this permit, the Permittee is authorized to discharge from the outfall(s) listed above and described more fully in the Permittee's application. Such discharges shall be limited and monitored by the Permittee as specified below:

Parameter	Quantity o	or Loading	Units	Qı	uality or Concentra	tion	Units	Sample Frequency ²	Sample Type ¹	Seasonal
Bis (2-Ethylhexyl) Phthalate (39100) Effluent Gross Value	0.000138 Monthly Average	0.000138 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
Di-N-Butyl Phthalate (39110) Effluent Gross Value	0.001 Monthly Average	0.002 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
Vinyl Chloride (39175) Effluent Gross Value	0.0002 Monthly Average	0.0002 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
Trichloroethylene (39180) Effluent Gross Value	0.0010 Monthly Average	0.0019 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
Hexachlorobenzene (39700) Effluent Gross Value	0.00000002 Monthly Average	0.00000002 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
1,3 Dichloropropene (77163) Effluent Gross Value	0.0013 Monthly Average	0.0013 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
3,4 Benzofluoranthene (79531) Effluent Gross Value	0.000001 Monthly Average	0.000001 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
Chloroethane (85811) Effluent Gross Value	0.006 Monthly Average	0.016 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months

- Samples collected to comply with the monitoring requirements specified above shall be collected at the following location: At the nearest accessible location just prior to discharge and after final treatment. Unless otherwise specified, composite samples shall be time composite samples collected using automatic sampling equipment or a minimum of eight (8) equal volume grab samples collected over equal time intervals. All composite samples shall be collected for the total period of discharge not to exceed 24 hours.
- 2/ If only one sampling event occurs during a month, the sample result shall be reported on the discharge monitoring report as both the monthly average and daily maximum value for all parameters with a monthly average limitation.
- 3/ See Part IV.A for Best Management Practices (BMP) Plan Requirements.

DSN 0021: Once-through Non-Contact Cooling Water

During the period beginning on the effective date of this permit and lasting through the expiration date of this permit, the Permittee is authorized to discharge from the outfall(s) listed above and described more fully in the Permittee's application. Such discharges shall be limited and monitored by the Permittee as specified below:

Parameter	Quantity o	r Loading	Units	Qı	uality or Concentrat	ion	Units	Sample Frequency ²	Sample Type ¹	Seasonal
Temperature, Water Deg. Fahrenheit (00011) Effluent Gross Value	****	****	****	****	****	90 Maximum Daily	deg F	Monthly	Grab	All Months
pH (00400) Effluent Gross Value	****	****	****	6.0 Minimum Daily	****	8.5 Maximum Daily	S.U.	Monthly	Grab	All Months
Flow, In Conduit or Thru Treatment Plant (50050) Effluent Gross Value	(Report) Monthly Average	(Report) Maximum Daily	MGD	****	****	****	****	Monthly	Instantaneous	All Months
Chlorine, Total Residual (50060) See notes (1,2) 4/ Effluent Gross Value	****	****	****	****	0.011 Monthly Average	0.019 Maximum Daily	mg/l	Monthly	Grab	All Months

- 1/ Samples collected to comply with the monitoring requirements specified above shall be collected at the following location: At the nearest accessible location just prior to discharge and after final treatment. Unless otherwise specified, composite samples shall be time composite samples collected using automatic sampling equipment or a minimum of eight (8) equal volume grab samples collected over equal time intervals. All composite samples shall be collected for the total period of discharge not to exceed 24 hours.
- 2/ If only one sampling event occurs during a month, the sample result shall be reported on the discharge monitoring report as both the monthly average and daily maximum value for all parameters with a monthly average limitation.
- 3/ See Part IV.A for Best Management Practices (BMP) Plan Requirements.
- 4/ A measurement of Total Residual Chlorine below 0.05 mg/l shall be considered in compliance with the permit limitations above and should be reported as NODI=B or *B on the discharge monitoring reports.

DSN 003S: Stormwater runoff commingled with air conditioner condensate and fire testing water.

During the period beginning on the effective date of this permit and lasting through the expiration date of this permit, the Permittee is authorized to discharge from the outfall(s) listed above and described more fully in the Permittee's application. Such discharges shall be limited and monitored by the Permittee as specified below:

Parameter	Quantity	or Loading	Units	Qı	uality or Concentr	ation	Units	Sample Frequency ²	Sample Type ¹	Seasonal
BOD, 5-Day (20 Deg. C) (00310) Effluent Gross Value	****	****	****	****	****	(Report) Maximum Daily	mg/l	Semi- Annually	Grab	All Months
Solids, Total Suspended (00530) Effluent Gross Value	****	****	****	****	****	(Report) Maximum Daily	mg/l	Semi- Annually	Grab	All Months
Oil & Grease (00556) Effluent Gross Value	****	****	****	****	****	(Report) Maximum Daily	mg/l	Semi- Annually	Grab	All Months
Nitrogen, Total (As N) (00600) Effluent Gross Value	****	****	****	****	****	(Report) Maximum Daily	mg/l	Semi- Annually	Grab	All Months
Carbon, Tot Organic (TOC) (00680) Effluent Gross Value	****	****	****	****	****	(Report) Maximum Daily	mg/l	Semi- Annually	Grab	All Months
Flow, In Conduit or Thru Treatment Plant (50050) Effluent Gross Value	****	(Report) Maximum Daily	MGD	****	****	****	****	Semi- Annually	Estimate	All Months

- Samples collected to comply with the monitoring requirements specified above shall be collected at the following location: At the nearest accessible location just prior to discharge and after final treatment. Unless otherwise specified, composite samples shall be time composite samples collected using automatic sampling equipment or a minimum of eight (8) equal volume grab samples collected over equal time intervals. All composite samples shall be collected for the total period of discharge not to exceed 24 hours.
- 2/ If only one sampling event occurs during a month, the sample result shall be reported on the discharge monitoring report as both the monthly average and daily maximum value for all parameters with a monthly average limitation.
- 3/ See Part IV.A for Best Management Practices (BMP) Plan Requirements.
- 4/ See Part IV.B for Stormwater Measurement and Sampling Requirements.

During the period beginning on the effective date of this permit and lasting through the expiration date of this permit, the Permittee is authorized to discharge from the outfall(s) listed above and described more fully in the Permittee's application. Such discharges shall be limited and monitored by the Permittee as specified below:

Parameter	Quantity o	or Loading	Units	Qu	ality or Concentrat	ion	Units	Sample Frequency ²	Sample Type ¹	Seasonal
Oxygen, Dissolved (DO) (00300) Effluent Gross Value	****	****	****	2.0 Minimum Daily	****	****	mg/l	Weekly	Grab	All Months
pH (00400) Effluent Gross Value	****	****	****	6.0 Minimum Daily	****	8.5 Maximum Daily	S.U.	Weekly	Grab	All Months
Solids. Total Suspended (00530) Effluent Gross Value	4.3 Monthly Average	13.0 Maximum Daily	lbs/day	****	****	****	****	Weekly	Composite	All Months
Nitrogen, Ammonia Total (As N) (00610) Effluent Gross Value	****	* * * * *	****	****	20.0 Monthly Average	30.0 Maximum Daily	mg/l	Weekly	Composite	All Months
Flow, In Conduit or Thru Treatment Plant (50050) Effluent Gross Value	(Report) Monthly Average	(Report) Maximum Daily	MGD	****	****	****	****	Daily	Totalizer	All Months
BOD, Carbonaceous 05 Day, 20C (80082) Effluent Gross Value	3.22 Monthly Average	5.38 Maximum Daily	lbs/day	****	****	****	****	Weekly	Composite	All Months

- Samples collected to comply with the monitoring requirements specified above shall be collected at the following location: At the nearest accessible location just prior to discharge and after final treatment. Unless otherwise specified, composite samples shall be time composite samples collected using automatic sampling equipment or a minimum of eight (8) equal volume grab samples collected over equal time intervals. All composite samples shall be collected for the total period of discharge not to exceed 24 hours.
- 2/ If only one sampling event occurs during a month, the sample result shall be reported on the discharge monitoring report as both the monthly average and daily maximum value for all parameters with a monthly average limitation.
- 3/ See Part IV.A for Best Management Practices (BMP) Plan Requirements.

During the period beginning on the effective date of this permit and lasting through the expiration date of this permit, the Permittee is authorized to discharge from the outfall(s) listed above and described more fully in the Permittee's application. Such discharges shall be limited and monitored by the Permittee as specified below:

Parameter	Quantity of	or Loading	Units	Q	uality or Concentra	tion	Units	Sample Frequency ²	Sample Type ¹	Seasonal
Perfluorooctanoic Acid (51521) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
Perfluorobutanoic Acid (51522) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
Perfluorooctanesulfonamide (51525) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
Perfluoropentanoic Acid (51623) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
Perfluorohexanoic Acid (51624) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
Perfluoroheptanoic Acid (51625) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
Perfluorononanoic acid (51626) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
Perfluorodecanoic Acid (51627) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
Perfluoroundecanoic Acid (51628) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months

- Samples collected to comply with the monitoring requirements specified above shall be collected at the following location: At the nearest accessible location just prior to discharge and after final treatment. Unless otherwise specified, composite samples shall be time composite samples collected using automatic sampling equipment or a minimum of eight (8) equal volume grab samples collected over equal time intervals. All composite samples shall be collected for the total period of discharge not to exceed 24 hours.
- 2/ If only one sampling event occurs during a month, the sample result shall be reported on the discharge monitoring report as both the monthly average and daily maximum value for all parameters with a monthly average limitation.
- 3/ EPA Method 1633, or alternative methods specifically approved by the Department, shall be used for the analyses of Per- and Polyfluorinated Alkyl Substances (PFAS).

During the period beginning on the effective date of this permit and lasting through the expiration date of this permit, the Permittee is authorized to discharge from the outfall(s) listed above and described more fully in the Permittee's application. Such discharges shall be limited and monitored by the Permittee as specified below:

Parameter	Quantity o	or Loading	Units	Qu	ality or Concentr	ation	Units	Sample Frequency ²	Sample Type ¹	Seasonal
Perfluorododecanoic acid (51629) Effluent Gross Value	ale ale ale ale	****	ale ale ale ale ale	* * * * *	और और और और और	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
Perfluorotridecanoic Acid (51630) Effluent Gross Value	****	****	****	और और और और	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
Perfluorotetradecanoic Acid (51631) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
N-ethyl perfluorooctanesulfonamidoethan ol (51641) Effluent Gross Value	****	****	ate ate ate ate	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
N-methyl perfluorooctanesulfonamidoethan ol (51642) Effluent Gross Value	****	* * * *	****	और और और और	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
2-(N-ethyl-PFOSA) acetic acid (51643) Effluent Gross Value	****	* * * *	****	* * * * *	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
2-(N-methyl-PFOSA) acetic acid (51644) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
Perfluorobutanesulfonic acid (52602) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
Perfluorodecanesulfonic acid (52603) Effluent Gross Value	***	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months

- 1/ Samples collected to comply with the monitoring requirements specified above shall be collected at the following location: At the nearest accessible location just prior to discharge and after final treatment. Unless otherwise specified, composite samples shall be time composite samples collected using automatic sampling equipment or a minimum of eight (8) equal volume grab samples collected over equal time intervals. All composite samples shall be collected for the total period of discharge not to exceed 24 hours.
- 2/ If only one sampling event occurs during a month, the sample result shall be reported on the discharge monitoring report as both the monthly average and daily maximum value for all parameters with a monthly average limitation.
- 3/ EPA Method 1633, or alternative methods specifically approved by the Department, shall be used for the analyses of Per- and Polyfluorinated Alkyl Substances (PFAS).

During the period beginning on the effective date of this permit and lasting through the expiration date of this permit, the Permittee is authorized to discharge from the outfall(s) listed above and described more fully in the Permittee's application. Such discharges shall be limited and monitored by the Permittee as specified below:

Parameter	Quantity	or Loading	Units	Qu	uality or Concentr	ation	Units	Sample Frequency ²	Sample Type ¹	Seasonal
Perfluoroheptanesulfonic acid (52604) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
Perfluorohexanesulfonic acid (52605) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
Perfluorooctanesulfonic acid (52606) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (52607) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (52608) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (52609) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
Perfluoropentansulfonic acid (52610) Effluent Gross Value	****	****	***	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
Perfluorononanesulfonic acid (52611) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
Hexafluoropropylene oxide dimer acid (52612) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months

- 1/ Samples collected to comply with the monitoring requirements specified above shall be collected at the following location: At the nearest accessible location just prior to discharge and after final treatment. Unless otherwise specified, composite samples shall be time composite samples collected using automatic sampling equipment or a minimum of eight (8) equal volume grab samples collected over equal time intervals. All composite samples shall be collected for the total period of discharge not to exceed 24 hours.
- 2/ If only one sampling event occurs during a month, the sample result shall be reported on the discharge monitoring report as both the monthly average and daily maximum value for all parameters with a monthly average limitation.
- 3/ EPA Method 1633, or alternative methods specifically approved by the Department, shall be used for the analyses of Per- and Polyfluorinated Alkyl Substances (PFAS).

During the period beginning on the effective date of this permit and lasting through the expiration date of this permit, the Permittee is authorized to discharge from the outfall(s) listed above and described more fully in the Permittee's application. Such discharges shall be limited and monitored by the Permittee as specified below:

Parameter	Quantity	or Loading	Units	Qı	uality or Concentr	ration	Units	Sample Frequency ²	Sample Type ¹	Seasonal
Nonafluoro-3,6-dioxaheptanoic acid (52626) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
Perfluoro(2-ethoxyethane)sulfonic acid (52629) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
Perfluorododecanesulfonic acid (52632) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
4,8-Dioxa-3H-perfluorononanoic acid (52636) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
N-methyl perfluorooctanesulfonamide (52641) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
N-ethyl perfluorooctanesulfonamide (52642) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
3-Perfluoropropyl propanoic acid (PF001) Effluent Gross Value	****	****	** ** ** **	***	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
Perfluoro-3-methoxypropanoic acid (PF002) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
9-Chlorohexadecafluoro-3-oxanonane- 1-sulfonic acid (PF003) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months

- 1/ Samples collected to comply with the monitoring requirements specified above shall be collected at the following location: At the nearest accessible location just prior to discharge and after final treatment. Unless otherwise specified, composite samples shall be time composite samples collected using automatic sampling equipment or a minimum of eight (8) equal volume grab samples collected over equal time intervals. All composite samples shall be collected for the total period of discharge not to exceed 24 hours.
- 2/ If only one sampling event occurs during a month, the sample result shall be reported on the discharge monitoring report as both the monthly average and daily maximum value for all parameters with a monthly average limitation.
- 3/ EPA Method 1633, or alternative methods specifically approved by the Department, shall be used for the analyses of Per- and Polyfluorinated Alkyl Substances (PFAS).

During the period beginning on the effective date of this permit and lasting through the expiration date of this permit, the Permittee is authorized to discharge from the outfall(s) listed above and described more fully in the Permittee's application. Such discharges shall be limited and monitored by the Permittee as specified below:

Parameter	Quantity (or Loading	Units	Quality or Concentration				Sample Frequency ²	Sample Type ¹	Seasonal
11-Chloroeicosafluoro-3- oxaundecane-1-sulfonic acid (PF004) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
3-Perfluoroheptyl propanoic acid (PF005) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
Perfluoro-4- methoxybutanoic acid (PF006) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months
2H,2H,3H,3H- Perfluorooctanoic acid (PF007) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months

- 1/ Samples collected to comply with the monitoring requirements specified above shall be collected at the following location: At the nearest accessible location just prior to discharge and after final treatment. Unless otherwise specified, composite samples shall be time composite samples collected using automatic sampling equipment or a minimum of eight (8) equal volume grab samples collected over equal time intervals. All composite samples shall be collected for the total period of discharge not to exceed 24 hours.
- 2/ If only one sampling event occurs during a month, the sample result shall be reported on the discharge monitoring report as both the monthly average and daily maximum value for all parameters with a monthly average limitation.
- 3/ EPA Method 1633, or alternative methods specifically approved by the Department, shall be used for the analyses of Per- and Polyfluorinated Alkyl Substances (PFAS).

During the period beginning on the effective date of this permit and lasting through the expiration date of this permit, the Permittee is authorized to discharge from the outfall(s) listed above and described more fully in the Permittee's application. Such discharges shall be limited and monitored by the Permittee as specified below:

Parameter	Quantity (or Loading	Loading Units		Quality or Concentration			Sample Frequency ²	Sample Type ¹	Seasonal
Toxicity, Ceriodaphnia Acute (61425) Effluent Gross Value	****	0 Single Sample	pass=0;fail=1	****	****	****	****	Semi- Annually	Grab	All Months
Toxicity, Pimephales Acute (61427) Effluent Gross Value	****	0 Single Sample	pass=0:fail=1	****	****	****	****	Semi- Annually	Grab	All Months

- 1/ Samples collected to comply with the monitoring requirements specified above shall be collected at the following location: At the nearest accessible location just prior to discharge and after final treatment. Unless otherwise specified, composite samples shall be time composite samples collected using automatic sampling equipment or a minimum of eight (8) equal volume grab samples collected over equal time intervals. All composite samples shall be collected for the total period of discharge not to exceed 24 hours.
- 2/ If only one sampling event occurs during a month, the sample result shall be reported on the discharge monitoring report as both the monthly average and daily maximum value for all parameters with a monthly average limitation.
- 3/ See Part IV.C for Acute Toxicity Requirements.

During the period beginning on the effective date of this permit and lasting through the expiration date of this permit, the Permittee is authorized to discharge from the outfall(s) listed above and described more fully in the Permittee's application. Such discharges shall be limited and monitored by the Permittee as specified below:

Parameter	Quantity o	r Loading	Units	Qı	ality or Concentra	tion	Units	Sample Frequency ²	Sample Type ¹	Seasonal
Cyanide, Total (As CN) (00720) Effluent Gross Value	****	(Report) Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
Chromium, Total (As Cr) (01034) Effluent Gross Value	****	(Report) Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
Copper, Total (As Cu) (01042) Effluent Gross Value	****	(Report) Maximum Daily	lbs/day	****	***	****	****	Annually	Grab	All Months
Lead, Total (As Pb) (01051) Effluent Gross Value	****	(Report) Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
Nickel, Total (As Ni) (01067) Effluent Gross Value	****	(Report) Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
Zinc, Total (As Zn) (01092) Effluent Gross Value	****	(Report) Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
Carbon Tetrachloride (32102) Effluent Gross Value	0.0080 Monthly Average	0.021 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
1,2-Dichloroethane (32103) Effluent Gross Value	0.0100 Monthly Average	0.0320 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
Chloroform (32106) Effluent Gross Value	0.0060 Monthly Average	0.0180 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months

- Samples collected to comply with the monitoring requirements specified above shall be collected at the following location: At the nearest accessible location just prior to discharge and after final treatment. Unless otherwise specified, composite samples shall be time composite samples collected using automatic sampling equipment or a minimum of eight (8) equal volume grab samples collected over equal time intervals. All composite samples shall be collected for the total period of discharge not to exceed 24 hours.
- 2/ If only one sampling event occurs during a month, the sample result shall be reported on the discharge monitoring report as both the monthly average and daily maximum value for all parameters with a monthly average limitation.
- 3/ See Part IV.A for Best Management Practices (BMP) Plan Requirements.

During the period beginning on the effective date of this permit and lasting through the expiration date of this permit, the Permittee is authorized to discharge from the outfall(s) listed above and described more fully in the Permittee's application. Such discharges shall be limited and monitored by the Permittee as specified below:

Parameter	Quantity o	or Loading	Units	Quality or Concentration			Units	Sample Frequency ²	Sample Type ¹	Seasonal
Toluene (34010) Effluent Gross Value	0.0020 Monthly Average	0.0040 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
Benzene (34030) Effluent Gross Value	0.0030 Monthly Average	0.0070 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
Acenaphthylene (34200) Effluent Gross Value	0.0010 Monthly Average	0.0030 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
Acenaphthene (34205) Effluent Gross Value	0.0010 Monthly Average	0.0030 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
Acrylonitrile (34215) Effluent Gross Value	0.0050 Monthly Average	0.0130 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
Anthracene (34220) Effluent Gross Value	0.0010 Monthly Average	0.0030 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
Benzo (K) Fluoranthene (34242) Effluent Gross Value	0.0010 Monthly Average	0.0030 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
Benzo (A) Pyrene (34247) Effluent Gross Value	0.0010 Monthly Average	0.0030 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
Chlorobenzene (34301) Effluent Gross Value	0.0080 Monthly Average	0.0210 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months

- 1/ Samples collected to comply with the monitoring requirements specified above shall be collected at the following location: At the nearest accessible location just prior to discharge and after final treatment. Unless otherwise specified, composite samples shall be time composite samples collected using automatic sampling equipment or a minimum of eight (8) equal volume grab samples collected over equal time intervals. All composite samples shall be collected for the total period of discharge not to exceed 24 hours.
- 2/ If only one sampling event occurs during a month, the sample result shall be reported on the discharge monitoring report as both the monthly average and daily maximum value for all parameters with a monthly average limitation.
- 3/ See Part IV.A for Best Management Practices (BMP) Plan Requirements.

During the period beginning on the effective date of this permit and lasting through the expiration date of this permit, the Permittee is authorized to discharge from the outfall(s) listed above and described more fully in the Permittee's application. Such discharges shall be limited and monitored by the Permittee as specified below:

Parameter	Quantity of	or Loading	Units	Qı	uality or Concentrat	tion	Units	Sample Frequency ²	Sample Type ¹	Seasonal
Chrysene (34320) Effluent Gross Value	0.0010 Monthly Average	0.0030 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
Diethyl Phthalate (34336) Effluent Gross Value	0.0030 Monthly Average	0.0060 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
Dimethyl Phthalate (34341) Effluent Gross Value	0.0010 Monthly Average	0.0030 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
Ethylbenzene (34371) Effluent Gross Value	0.0080 Monthly Average	0.0210 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
Fluoranthene (34376) Effluent Gross Value	0.0010 Monthly Average	0.0030 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
Fluorene (34381) Effluent Gross Value	0.0010 Monthly Average	0.0030 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
Hexachlorobutadiene (34391) Effluent Gross Value	0.0080 Monthly Average	0.0210 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
Hexachloroethane (34396) Effluent Gross Value	0.0110 Monthly Average	0.0440 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
Methyl Chloride (34418) Effluent Gross Value	0.0060 Monthly Average	0.0160 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months

- 1/ Samples collected to comply with the monitoring requirements specified above shall be collected at the following location: At the nearest accessible location just prior to discharge and after final treatment. Unless otherwise specified, composite samples shall be time composite samples collected using automatic sampling equipment or a minimum of eight (8) equal volume grab samples collected over equal time intervals. All composite samples shall be collected for the total period of discharge not to exceed 24 hours.
- 2/ If only one sampling event occurs during a month, the sample result shall be reported on the discharge monitoring report as both the monthly average and daily maximum value for all parameters with a monthly average limitation.
- 3/ See Part IV.A for Best Management Practices (BMP) Plan Requirements.

During the period beginning on the effective date of this permit and lasting through the expiration date of this permit, the Permittee is authorized to discharge from the outfall(s) listed above and described more fully in the Permittee's application. Such discharges shall be limited and monitored by the Permittee as specified below:

Parameter	Quantity of	r Loading	Units	Qı	uality or Concentrat	tion	Units	Sample Frequency ²	Sample Type ¹	Seasonal
Methylene Chloride (34423) Effluent Gross Value	0.0020 Monthly Average	0.0090 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
Nitrobenzene (34447) Effluent Gross Value	0.1240 Monthly Average	0.3560 Maximum Daily	lbs/day	No No No No No	****	16 16 16 16 16	****	Annually	Grab	All Months
Phenanthrene (34461) Effluent Gross Value	0.0010 Monthly Average	0.0030 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
Pyrene (34469) Effluent Gross Value	0.0010 Monthly Average	0.0030 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
Tetrachloroethylene (34475) Effluent Gross Value	0.0030 Monthly Average	0.0090 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
1,1-Dichloroethane (34496) Effluent Gross Value	0.0010 Monthly Average	0.0030 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
1,1-Dichloroethylene (34501) Effluent Gross Value	0.0010 Monthly Average	0.0030 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
1,1,1-Trichloroethane (34506) Effluent Gross Value	0.0010 Monthly Average	0.0030 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
1,1,2-Trichloroethane (34511) Effluent Gross Value	0.0020 Monthly Average	0.0070 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months

- Samples collected to comply with the monitoring requirements specified above shall be collected at the following location: At the nearest accessible location just prior to discharge and after final treatment. Unless otherwise specified, composite samples shall be time composite samples collected using automatic sampling equipment or a minimum of eight (8) equal volume grab samples collected over equal time intervals. All composite samples shall be collected for the total period of discharge not to exceed 24 hours.
- 2/ If only one sampling event occurs during a month, the sample result shall be reported on the discharge monitoring report as both the monthly average and daily maximum value for all parameters with a monthly average limitation.
- 3/ See Part IV.A for Best Management Practices (BMP) Plan Requirements.

During the period beginning on the effective date of this permit and lasting through the expiration date of this permit, the Permittee is authorized to discharge from the outfall(s) listed above and described more fully in the Permittee's application. Such discharges shall be limited and monitored by the Permittee as specified below:

Parameter	Quantity o	Quantity or Loading Units Quality or Concentration				tion	Units	Sample Frequency ²	Sample Type ¹	Seasonal
Benzo (A) Anthracene (34526) Effluent Gross Value	0.0010 Monthly Average	0.0030 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
1,2-Dichlorobenzene (34536) Effluent Gross Value	0.0110 Monthly Average	0.0440 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
1.2-Dichloropropane (34541) Effluent Gross Value	0.0110 Monthly Average	0.0440 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
1,2-Trans-Dichloroethylene (34546) Effluent Gross Value	0.0010 Monthly Average	0.0040 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
1,2,4-Trichlorobenzene (34551) Effluent Gross Value	0.0110 Monthly Average	0.0440 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
1,3-Dichlorobenzene (34566) Effluent Gross Value	0.0080 Monthly Average	0.0210 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
1,4-Dichlorobenzene (34571) Effluent Gross Value	0.0080 Monthly Average	0.0210 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
2-Chlorophenol (34586) Effluent Gross Value	0.0000 Monthly Average	0.0000 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
2-Nitrophenol (34591) Effluent Gross Value	0.0040 Monthly Average	0.0130 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months

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- 2/ If only one sampling event occurs during a month, the sample result shall be reported on the discharge monitoring report as both the monthly average and daily maximum value for all parameters with a monthly average limitation.
- 3/ See Part IV.A for Best Management Practices (BMP) Plan Requirements.

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Parameter	Quantity of	or Loading	Units Quality or Concentration		Units	Sample Frequency ²	Sample Type ¹	Seasonal		
2,4-Dichlorophenol (34601) Effluent Gross Value	0.0000 Monthly Average	0.0000 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
2,4-Dimethylphenol (34606) Effluent Gross Value	0.0010 Monthly Average	0.0030 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
2.4-Dinitrotoluene (34611) Effluent Gross Value	0.0000 Monthly Average	0.0000 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
2.4-Dinitrophenol (34616) Effluent Gross Value	0.0670 Monthly Average	0.2380 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
2,6-Dinitrotoluene (34626) Effluent Gross Value	0.0000 Monthly Average	0.0000 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
4-Nitrophenol (34646) Effluent Gross Value	0.0090 Monthly Average	0.0320 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
4.6-Dinitro-O-Cresol (34657) Effluent Gross Value	0.0040 Monthly Average	0.0150 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
Phenol, Single Compound (34694) Effluent Gross Value	0.0010 Monthly Average	0.0030 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
Naphthalene (34696) Effluent Gross Value	0.0010 Monthly Average	0.0030 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months

- 1/ Samples collected to comply with the monitoring requirements specified above shall be collected at the following location: At the nearest accessible location just prior to discharge and after final treatment. Unless otherwise specified, composite samples shall be time composite samples collected using automatic sampling equipment or a minimum of eight (8) equal volume grab samples collected over equal time intervals. All composite samples shall be collected for the total period of discharge not to exceed 24 hours.
- 2/ If only one sampling event occurs during a month, the sample result shall be reported on the discharge monitoring report as both the monthly average and daily maximum value for all parameters with a monthly average limitation.
- 3/ See Part IV.A for Best Management Practices (BMP) Plan Requirements.

During the period beginning on the effective date of this permit and lasting through the expiration date of this permit, the Permittee is authorized to discharge from the outfall(s) listed above and described more fully in the Permittee's application. Such discharges shall be limited and monitored by the Permittee as specified below:

Parameter	Quantity of	or Loading	Units	Qı	Quality or Concentration			Sample Frequency?	Sample Type ¹	Seasonal
Bis (2-Ethylhexyl) Phthalate (39100) Effluent Gross Value	0.0050 Monthly Average	0.0140 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
Di-N-Butyl Phthalate (39110) Effluent Gross Value	0.0010 Monthly Average	0.0020 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
Vinyl Chloride (39175) Effluent Gross Value	0.0050 Monthly Average	0.0100 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
Trichloroethylene (39180) Effluent Gross Value	0.0010 Monthly Average	0.0040 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
Hexachlorobenzene (39700) Effluent Gross Value		0.0017 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
1,3 Dichloropropene (77163) Effluent Gross Value	0.0110 Monthly Average	0.0440 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
3,4 Benzofluoranthene (79531) Effluent Gross Value	0.0010 Monthly Average	0.0030 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months
Chloroethane (85811) Effluent Gross Value	0.0060 Monthly Average	0.0160 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months

- Samples collected to comply with the monitoring requirements specified above shall be collected at the following location: At the nearest accessible location just prior to discharge and after final treatment. Unless otherwise specified, composite samples shall be time composite samples collected using automatic sampling equipment or a minimum of eight (8) equal volume grab samples collected over equal time intervals. All composite samples shall be collected for the total period of discharge not to exceed 24 hours.
- 2/ If only one sampling event occurs during a month, the sample result shall be reported on the discharge monitoring report as both the monthly average and daily maximum value for all parameters with a monthly average limitation.
- 3/ See Part IV.A for Best Management Practices (BMP) Plan Requirements.

B. DISCHARGE MONITORING AND RECORD KEEPING REQUIREMENTS

1. Representative Sampling

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge and shall be in accordance with the provisions of this permit.

2. Test Procedures

For the purpose of reporting and compliance, permittees shall use one of the following procedures:

- a. For parameters with an EPA established Minimum Level (ML), report the measured value if the analytical result is at or above the ML and report "0" for values below the ML. Test procedures for the analysis of pollutants shall conform to 40 CFR Part 136 and guidelines published pursuant to Section 304(h) of the FWPCA, 33 U.S.C. Section 1314(h). If more than one method for analysis of a substance is approved for use, a method having a minimum level lower than the permit limit shall be used. If the minimum level of all methods is higher than the permit limit, the method having the lowest minimum level shall be used and a report of less than the minimum level shall be reported as zero and will constitute compliance; however, should EPA approve a method with a lower minimum level during the term of this permit the permittee shall use the newly approved method.
- b. For pollutants parameters without an established ML, an interim ML may be utilized. The interim ML shall be calculated as 3.18 times the Method Detection Level (MDL) calculated pursuant to 40 CFR Part 136, Appendix B.

Permittees may develop an effluent matrix-specific ML, where an effluent matrix prevents attainment of the established ML. However, a matrix specific ML shall be based upon proper laboratory method and technique. Matrix-specific MLs must be approved by the Department, and may be developed by the permittee during permit issuance, reissuance, modification, or during compliance schedule.

In either case the measured value should be reported if the analytical result is at or above the ML and "0" reported for values below the ML.

c. For parameters without an EPA established ML, interim ML, or matrix-specific ML, a report of less than the detection limit shall constitute compliance if the detection limit of all analytical methods is higher than the permit limit using the most sensitive EPA approved method. For the purpose of calculating a monthly average, "0" shall be used for values reported less than the detection limit.

The Minimum Level utilized for procedures A and B above shall be reported on the permittee's DMR. When an EPA approved test procedure for analysis of a pollutant does not exist, the Director shall approve the procedure to be used.

3. Recording of Results

For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information:

- The facility name and location, point source number, date, time and exact place of sampling;
- b. The name(s) of person(s) who obtained the samples or measurements;
- The dates and times the analyses were performed;
- d. The name(s) of the person(s) who performed the analyses;
- e. The analytical techniques or methods used, including source of method and method number; and
- The results of all required analyses.

4. Records Retention and Production

The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by the permit, and records of all data used to complete the above reports or the application for this permit, for a period of at least three years from the date of the sample measurement, report or application. This period may be extended by request of the Director at any time. If litigation or other enforcement action, under the AWPCA and/or the FWPCA, is ongoing which involves any of the above records, the records shall be kept until the litigation is resolved. Upon the written request of the Director or his designee, the

permittee shall provide the Director with a copy of any record required to be retained by this paragraph. Copies of these records shall not be submitted unless requested.

All records required to be kept for a period of three years shall be kept at the permitted facility or an alternate location approved by the Department in writing and shall be available for inspection.

5. Monitoring Equipment and Instrumentation

All equipment and instrumentation used to determine compliance with the requirements of this permit shall be installed, maintained, and calibrated in accordance with the manufacturer's instructions or, in the absence of manufacturer's instructions, in accordance with accepted practices. The permittee shall develop and maintain quality assurance procedures to ensure proper operation and maintenance of all equipment and instrumentation. The quality assurance procedures shall include the proper use, maintenance, and installation, when appropriate, of monitoring equipment at the plant site.

C. DISCHARGE REPORTING REQUIREMENTS

1. Reporting of Monitoring Requirements

a. The permittee shall conduct the required monitoring in accordance with the following schedule:

MONITORING REQUIRED MORE FREQUENTLY THAN MONTHLY AND MONTHLY shall be conducted during the first full month following the effective date of coverage under this permit and every month thereafter.

QUARTERLY MONITORING shall be conducted at least once during each calendar quarter. Calendar quarters are the periods of January through March, April through June, July through September, and October through December. The permittee shall conduct the quarterly monitoring during the first complete calendar quarter following the effective date of this permit and is then required to monitor once during each quarter thereafter. Quarterly monitoring may be done anytime during the quarter, unless restricted elsewhere in this permit, but it should be submitted with the last DMR due for the quarter, i.e., (March, June, September and December DMR's).

SEMIANNUAL MONITORING shall be conducted at least once during the period of January through June and at least once during the period of July through December. The permittee shall conduct the semiannual monitoring during the first complete calendar semiannual period following the effective date of this permit and is then required to monitor once during each semiannual period thereafter. Semiannual monitoring may be done anytime during the semiannual period, unless restricted elsewhere in this permit, but it should be submitted with the last DMR for the month of the semiannual period, i.e. (June and December DMR's).

ANNUAL MONITORING shall be conducted at least once during the period of January through December. The permittee shall conduct the annual monitoring during the first complete calendar annual period following the effective date of this permit and is then required to monitor once during each annual period thereafter. Annual monitoring may be done anytime during the year, unless restricted elsewhere in this permit, but it should be submitted with the December DMR.

b. The permittee shall submit discharge monitoring reports (DMRs) on the forms provided by the Department and in accordance with the following schedule:

REPORTS OF MORE FREQUENTLY THAN MONTHLY AND MONTHLY TESTING shall be submitted on a monthly basis. The first report is due on the 28th day of (MONTH, YEAR). The reports shall be submitted so that they are received by the Department no later than the 28th day of the month following the reporting period.

REPORTS OF QUARTERLY TESTING shall be submitted on a **quarterly** basis. The first report is due on the **28th** day of [Month, Year]. The reports shall be submitted so that they are received by the Department no later than the 28th day of the month following the reporting period.

REPORTS OF SEMIANNUAL TESTING shall be submitted on a semiannual basis. The reports are due on the 28th day of JANUARY and the 28th day of JULY. The reports shall be submitted so that they are received by the Department no later than the 28th day of the month following the reporting period.

REPORTS OF ANNUAL TESTING shall be submitted on an annual basis. The first report is due on the 28th day of JANUARY. The reports shall be submitted so that they are received by the Department no later than the 28th day of the month following the reporting period.

c. Except as allowed by Provision I.C.1.c.(1) or (2), the permittee shall submit all Discharge Monitoring Reports (DMRs) required by Provision I.C.1.b electronically.

- (1) If the permittee is unable to complete the electronic submittal of DMR data due to technical problems originating with the Department's electronic system (this could include entry/submittal issues with an entire set of DMRs or individual parameters), the permittee is not relieved of their obligation to submit DMR data to the Department by the date specified in Provision I.C.1.b, unless otherwise directed by the Department.
 - If the Department's electronic system is down on the 28th day of the month in which the DMR is due or is down for an extended period of time, as determined by the Department, when a DMR is required to be submitted, the permittee may submit the data in an alternate manner and format acceptable to the Department. Preapproved alternate acceptable methods include faxing, e-mailing, mailing, or hand-delivery of data such that they are received by the required reporting date. Within 5 calendar days of the Department's electronic system resuming operation, the permittee shall enter the data into the Department's electronic system, unless an alternate timeframe is approved by the Department. A comment should be included on the electronic DMR submittal verifying the original submittal date (date of the fax, copy of the dated e-mail, or hand-delivery stamped date), if applicable.
- (2) The permittee may submit a request to the Department for a temporary electronic reporting waiver for DMR submittals. The waiver request should include the permit number; permittee name; facility/site name; facility address; name, address, and contact information for the responsible official or duly authorized representative; a detailed statement regarding the basis for requesting such a waiver; and the duration for which the waiver is requested. Approved electronic reporting waivers are not transferrable.
 - Permittees with an approved electronic reporting waiver for DMRs may submit hard copy DMRs for the period that the approved electronic reporting waiver request is effective. The permittee shall submit the Department-approved DMR forms to the address listed in Provision I.C.1.e.
- (3) If a permittee is allowed to submit a hard copy DMR, the DMR must be legible and bear an original signature. Photo and electronic copies of the signature are not acceptable and shall not satisfy the reporting requirements of this permit.
- (4) If the permittee, using approved analytical methods as specified in Provision I.B.2, monitors any discharge from a point source for a limited substance identified in Provision I.A. of this permit more frequently than required by this permit, the results of such monitoring shall be included in the calculation and reporting of values on the DMR and the increased frequency shall be indicated on the DMR.
- (5) In the event no discharge from a point source identified in Provision I.A. of this permit and described more fully in the permittee's application occurs during a monitoring period, the permittee shall report "No Discharge" for such period on the appropriate DMR.
- d. All reports and forms required to be submitted by this permit, the AWPCA and the Department's Rules, shall be electronically signed (or, if allowed by the Department, traditionally signed) by a "responsible official" of the permittee as defined in ADEM Administrative Code Rule 335-6-6-0.09 or a "duly authorized representative" of such official as defined in ADEM Administrative Code Rule 335-6-6-0.09 and shall bear the following certification:
 - "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 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 fine and imprisonment for knowing violations."
- e. Discharge Monitoring Reports required by this permit, the AWPCA, and the Department's Rules that are being submitted in hard copy shall be addressed to:

Alabama Department of Environmental Management
Water Division
Office of Water Services
Post Office Box 301463
Montgomery, Alabama 36130-1463

Certified and Registered Mail containing Discharge Monitoring Reports shall be addressed to:

Alabama Department of Environmental Management Water Division Office of Water Services 1400 Coliseum Boulevard Montgomery, Alabama 36110-2400

f. All other correspondence and reports required to be submitted by this permit, the AWPCA, and the Department's Rules shall be addressed to:

Alabama Department of Environmental Management'
Water Division
Post Office Box 301463
Montgomery, Alabama 36130-1463

Certified and Registered Mail shall be addressed to:

Alabama Department of Environmental Management
Water Division
1400 Coliseum Boulevard
Montgomery, Alabama 36110-2400

g. If this permit is a re-issuance, then the permittee shall continue to submit DMRs in accordance with the requirements of their previous permit until such time as DMRs are due as discussed in Part I.C.1.b above.

2. Noncompliance Notification

a. 24-Hour Noncompliance Reporting

The permittee shall report to the Director, within 24-hours of becoming aware of the noncompliance, any noncompliance which may endanger health or the environment. This shall include but is not limited to the following circumstances:

- (1) does not comply with any daily minimum or maximum discharge limitation for an effluent characteristic specified in Provision I. A. of this permit which is denoted by an "(X)";
- (2) threatens human health or welfare, fish or aquatic life, or water quality standards;
- (3) does not comply with an applicable toxic pollutant effluent standard or prohibition established under Section 307(a) of the FWPCA, 33 U.S.C. Section 1317(a);
- (4) contains a quantity of a hazardous substance which has been determined may be harmful to public health or welfare under Section 311(b)(4) of the FWPCA, 33 U.S.C. Section 1321(b)(4);
- (5) exceeds any discharge limitation for an effluent characteristic as a result of an unanticipated bypass or upset; and
- (6) is an unpermitted direct or indirect discharge of a pollutant to a water of the state (unpermitted discharges properly reported to the Department under any other requirement are not required to be reported under this provision).

The permittee shall orally report the occurrence and circumstances of such discharge to the Director within 24-hours after the permittee becomes aware of the occurrence of such discharge. In addition to the oral report, the permittee shall submit to the Director or Designee a written report as provided in Part I.C.2.c no later than five (5) days after becoming aware of the occurrence of such discharge.

- b. If for any reason, the permittee's discharge does not comply with any limitation of this permit, the permittee shall submit to the Director or Designee a written report as provided in Part I.C.2.c below, such report shall be submitted with the next Discharge Monitoring Report required to be submitted by Part I.C.1 of this permit after becoming aware of the occurrence of such noncompliance.
- c. Any written report required to be submitted to the Director or Designee by Part I.C.2 a. or b. shall be submitted using a Noncompliance Notification Form (ADEM Form 421) available on the Department's website (http://adem.alabama.gov/DeptForms/Form421.pdf) and include the following information:
 - (1) A description of the discharge and cause of noncompliance;

- (2) The period of noncompliance, including exact dates and times or, if not corrected, the anticipated time the noncompliance is expected to continue; and
- (3) A description of the steps taken and/or being taken to reduce or eliminate the noncomplying discharge and to prevent its recurrence.

D. OTHER REPORTING AND NOTIFICATION REQUIREMENTS

1. Anticipated Noncompliance

The permittee shall give the Director written advance notice of any planned changes or other circumstances regarding a facility which may result in noncompliance with permit requirements.

2. Termination of Discharge

The permittee shall notify the Director, in writing, when all discharges from any point source(s) identified in Provision I. A. of this permit have permanently ceased. This notification shall serve as sufficient cause for instituting procedures for modification or termination of the permit.

3. Updating Information

- a. The permittee shall inform the Director of any change in the permittee's mailing address, telephone number or in the permittee's designation of a facility contact or office having the authority and responsibility to prevent and abate violations of the AWPCA, the Department's Rules, and the terms and conditions of this permit, in writing, no later than ten (10) days after such change. Upon request of the Director or his designee, the permittee shall furnish the Director with an update of any information provided in the permit application.
- b. If 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 with a written explanation for the mistake and/or omission.

4. Duty to Provide Information

The permittee shall furnish to the Director, within a reasonable time, any information which the Director or his designee may request to determine whether cause exists for modifying, revoking and re-issuing, suspending, or terminating this permit, in whole or in part, or to determine compliance with this permit.

5. Cooling Water and Boiler Water Additives

- a. The permittee shall notify the Director in writing not later than thirty (30) days prior to instituting the use of any biocide corrosion inhibitor or chemical additive in a cooling or boiler system, not identified in the application for this permit, from which discharge is allowed by this permit. Notification is not required for additives that do not contain a heavy metal(s) as an active ingredient and that pass through a wastewater treatment system prior to discharge nor is notification required for additives that should not reasonably be expected to cause the cooling water or boiler water to exhibit toxicity as determined by analysis of manufacturer's data or testing by the permittee. Such notification shall include:
 - (1) name and general composition of biocide or chemical;
 - (2) 96-hour median tolerance limit data for organisms representative of the biota of the waterway into which the discharge will ultimately reach;
 - (3) quantities to be used;
 - (4) frequencies of use;
 - (5) proposed discharge concentrations; and
 - (6) EPA registration number, if applicable.
- b. The use of a biocide or additive containing tributyl tin, tributyl tin oxide, zinc, chromium or related compounds in cooling or boiler system(s), from which a discharge regulated by this permit occurs, is prohibited except as exempted below. The use of a biocide or additive containing zinc, chromium or related compounds may be used in special circumstances if (1) the permit contains limits for these substances, or (2) the applicant demonstrates during the application process that the use of zinc, chromium or related compounds as a biocide or additive will not pose a reasonable potential to violate the applicable State water quality standards for these substances. The use of any additive, not identified in this permit or in the

application for this permit or not exempted from notification under this permit is prohibited, prior to a determination by the Department that permit modification to control discharge of the additive is not required or prior to issuance of a permit modification controlling discharge of the additive.

6. Permit Issued Based on Estimated Characteristics

- a. If this permit was issued based on estimates of the characteristics of a process discharge reported on an EPA NPDES Application Form 2D (EPA Form 3510-2D), the permittee shall complete and submit an EPA NPDES Application Form 2C (EPA Form 3510-2C) no later than two years after the date that discharge begins. Sampling required for completion of the Form 2C shall occur when a discharge(s) from the process(s) causing the new or increased discharge is occurring. If this permit was issued based on estimates concerning the composition of a stormwater discharge(s), the permittee shall perform the sampling required by EPA NPDES Application Form 2F (EPA Form 3510-2F) no later than one year after the industrial activity generating the stormwater discharge has been fully initiated.
- b. This permit shall be reopened if required to address any new information resulting from the completion and submittal of the Form 2C and or 2F.

E. SCHEDULE OF COMPLIANCE

1. The permittee shall achieve compliance with the discharge limitations specified in Provision I. A. in accordance with the following schedule:

COMPLIANCE SHALL BE ATTAINED ON THE EFFECTIVE DATE OF THIS PERMIT

2. No later than 14 calendar days following a date identified in the above schedule of compliance, the permittee shall submit either a report of progress or, in the case of specific actions being required by identified dates, a written notice of compliance or noncompliance. In the latter case, the notice shall include the cause of noncompliance, any remedial actions taken, and the probability of meeting the next scheduled requirement.

PART II: OTHER REQUIREMENTS, RESPONSIBILITIES, AND DUTIES

A. OPERATIONAL AND MANAGEMENT REQUIREMENTS

1. Facilities 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 the permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities only when necessary to achieve compliance with the conditions of the permit.

2. Best Management Practices

- a. Dilution water shall not be added to achieve compliance with discharge limitations except when the Director or his designee has granted prior written authorization for dilution to meet water quality requirements.
- b. The permittee shall prepare, implement, and maintain a Spill Prevention, Control and Countermeasures (SPCC) Plan in accordance with 40 C.F.R. Section 112 if required thereby.
- c. The permittee shall prepare, submit for approval and implement a Best Management Practices (BMP) Plan for containment of any or all process liquids or solids, in a manner such that these materials do not present a significant potential for discharge, if so required by the Director or his designee. When submitted and approved, the BMP Plan shall become a part of this permit and all requirements of the BMP Plan shall become requirements of this permit.

3. Spill Prevention, Control, and Management

The permittee shall provide spill prevention, control, and/or management sufficient to prevent any spills of pollutants from entering a water of the state or a publicly or privately owned treatment works. Any containment system used to implement this requirement shall be constructed of materials compatible with the substance(s) contained and which shall prevent the contamination of groundwater and such containment system shall be capable of retaining a volume equal to 110 percent of the capacity of the largest tank for which containment is provided.

B. OTHER RESPONSIBILITIES

1. Duty to Mitigate Adverse Impacts

The permittee shall promptly take all reasonable steps to mitigate and minimize or prevent any adverse impact on human health or the environment resulting from noncompliance with any discharge limitation specified in Provision I. A. of this permit, including such accelerated or additional monitoring of the discharge and/or the receiving waterbody as necessary to determine the nature and impact of the noncomplying discharge.

2. Right of Entry and Inspection

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

- enter upon the permittee's premises where a regulated facility or activity or point source is located or conducted, or where records must be kept under the conditions of the permit;
- b. have access to and copy, at reasonable times, any records that must be kept under the conditions of the permit;
- c. inspect any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under the permit; and
- d. sample or monitor, for the purposes of assuring permit compliance or as otherwise authorized by the AWPCA, any substances or parameters at any location.

C. BYPASS AND UPSET

1. Bypass

- a. Any bypass is prohibited except as provided in b. and c. below:
- b. A bypass is not prohibited if:

- (1) It does not cause any discharge limitation specified in Provision I. A. of this permit to be exceeded;
- (2) It enters the same receiving stream as the permitted outfall; and
- (3) It is necessary for essential maintenance of a treatment or control facility or system to assure efficient operation of such facility or system.
- c. A bypass is not prohibited and need not meet the discharge limitations specified in Provision I. A. of this permit if:
 - (1) It is unavoidable to prevent loss of life, personal injury, or severe property damage;
 - (2) There are 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 back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance); and
 - (3) The permittee submits a written request for authorization to bypass to the Director at least ten (10) days prior to the anticipated bypass (if possible), the permittee is granted such authorization, and the permittee complies with any conditions imposed by the Director to minimize any adverse impact on human health or the environment resulting from the bypass.
- d. The permittee has the burden of establishing that each of the conditions of Provision II.C.1.b. or c. have been met to qualify for an exception to the general prohibition against bypassing contained in a. and an exemption, where applicable, from the discharge limitations specified in Provision I. A. of this permit.

2. Upset

- a. A discharge which results from an upset need not meet the discharge limitations specified in Provision I. A. of this permit if:
 - (1) No later than 24-hours after becoming aware of the occurrence of the upset, the permittee orally reports the occurrence and circumstances of the upset to the Director or his designee; and
 - (2) No later than five (5) days after becoming aware of the occurrence of the upset, the permittee furnishes the Director with evidence, including properly signed, contemporaneous operating logs, or other relevant evidence, demonstrating that (i) an upset occurred; (ii) the permittee can identify the specific cause(s) of the upset; (iii) the permittee's facility was being properly operated at the time of the upset; and (iv) the permittee promptly took all reasonable steps to minimize any adverse impact on human health or the environment resulting from the upset.
- b. The permittee has the burden of establishing that each of the conditions of Provision II. C.2.a. of this permit have been met to qualify for an exemption from the discharge limitations specified in Provision I.A. of this permit.

D. DUTY TO COMPLY WITH PERMIT, RULES, AND STATUTES

1. Duty to Comply

- a. The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the AWPCA and the FWPCA and is grounds for enforcement action, for permit termination, revocation and reissuance, suspension, modification; or denial of a permit renewal application.
- b. The necessity to halt or reduce production or other activities in order to maintain compliance with the conditions of the permit shall not be a defense for a permittee in an enforcement action.
- c. The discharge of a pollutant from a source not specifically identified in the permit application for this permit and not specifically included in the description of an outfall in this permit is not authorized and shall constitute noncompliance with this permit.
- d. The permittee shall take all reasonable steps, including cessation of production or other activities, to minimize or prevent any violation of this permit or to minimize or prevent any adverse impact of any permit violation.
- e. Nothing in this permit shall be construed to preclude and negate the permittee's responsibility or liability to apply for, obtain, or comply with other ADEM, Federal, State, or Local Government permits, certifications, licenses, or other approvals.

2. Removed Substances

Solids, sludges, filter backwash, or any other pollutant or other waste removed in the course of treatment or control of wastewaters shall be disposed of in a manner that complies with all applicable Department Rules.

3. Loss or Failure of Treatment Facilities

Upon the loss or failure of any treatment facilities, including but not limited to the loss or failure of the primary source of power of the treatment facility, the permittee shall, where necessary to maintain compliance with the discharge limitations specified in Provision I. A. of this permit, or any other terms or conditions of this permit, cease, reduce, or otherwise control production and/or all discharges until treatment is restored. If control of discharge during loss or failure of the primary source of power is to be accomplished by means of alternate power sources, standby generators, or retention of inadequately treated effluent, the permittee must furnish to the Director within six months a certification that such control mechanisms have been installed.

4. Compliance with Statutes and Rules

- a. This permit has been issued under ADEM Administrative Code, Chapter 335-6-6. All provisions of this chapter, that are applicable to this permit, are hereby made a part of this permit. A copy of this chapter may be obtained for a small charge from the Office of General Counsel, Alabama Department of Environmental Management, 1400 Coliseum Blvd., Montgomery, AL 36130.
- b. This permit does not authorize the noncompliance with or violation of any Laws of the State of Alabama or the United States of America or any regulations or rules implementing such laws. FWPCA, 33 U.S.C. Section 1319, and Code of Alabama 1975, Section 22-22-14.

E. PERMIT TRANSFER, MODIFICATION, SUSPENSION, REVOCATION, AND REISSUANCE

1. Duty to Reapply or Notify of Intent to Cease Discharge

- a. If the permittee intends to continue to discharge beyond the expiration date of this permit, the permittee shall file a complete permit application for reissuance of this permit at least 180 days prior to its expiration. If the permittee does not intend to continue discharge beyond the expiration of this permit, the permittee shall submit written notification of this intent which shall be signed by an individual meeting the signatory requirements for a permit application as set forth in ADEM Administrative Code Rule 335-6-6-.09.
- b. Failure of the permittee to apply for reissuance at least 180 days prior to permit expiration will void the automatic continuation of the expiring permit provided by ADEM Administrative Code Rule 335-6-6-.06 and should the permit not be reissued for any reason any discharge after expiration of this permit will be an unpermitted discharge.

2. Change in Discharge

- a. The permittee shall apply for a permit modification at least 180 days in advance of any facility expansion, production increase, process change, or other action that could result in the discharge of additional pollutants or increase the quantity of a discharged pollutant such that existing permit limitations would be exceeded or that could result in an additional discharge point. This requirement applies to pollutants that are or that are not subject to discharge limitations in this permit. No new or increased discharge may begin until the Director has authorized it by issuance of a permit modification or a reissued permit.
- b. The permittee shall notify the Director as soon as it is known or there is reason to believe:
 - (1) That any activity has occurred or will occur which would result in the discharge on a routine or frequent basis, of any toxic pollutant which is not limited in this permit, if that discharge will exceed the highest of the following notification levels:
 - (i) one hundred micrograms per liter;
 - (ii) two hundred micrograms per liter for acrolein and acrylonitrile; five hundred micrograms per liter for 2,4-dinitrophenol and for 2-methyl-4,6-dini-trophenol; and one milligram per liter for antimony;
 - (iii) five times the maximum concentration value reported for that pollutant in the permit application; or
 - (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 pollutant which is not limited in the permit, if that discharge will exceed the highest of the following notification levels:

- (i) five hundred micrograms per liter;
- (ii) one milligram per liter for antimony;
- (iii) ten times the maximum concentration value reported for that pollutant in the permit application.

3. Transfer of Permit

This permit may not be transferred or the name of the permittee changed without notice to the Director and subsequent modification or revocation and reissuance of the permit to identify the new permittee and to incorporate any other changes as may be required under the FWPCA or AWPCA. In the case of a change in name, ownership or control of the permittee's premises only, a request for permit modification in a format acceptable to the Director is required at least 30 days prior to the change. In the case of a change in name, ownership or control of the permittee's premises accompanied by a change or proposed change in effluent characteristics, a complete permit application is required to be submitted to the Director at least 180 days prior to the change. Whenever the Director is notified of a change in name, ownership or control, he may decide not to modify the existing permit and require the submission of a new permit application.

4. Permit Modification and Revocation

- a. This permit may be modified or revoked and reissued, in whole or in part, during its term for cause, including but not limited to, the following:
 - (1) If cause for termination under Provision II. E. 5. of this permit exists, the Director may choose to revoke and reissue this permit instead of terminating the permit;
 - (2) If a request to transfer this permit has been received, the Director may decide to revoke and reissue or to modify the permit; or
 - (3) If modification or revocation and reissuance is requested by the permittee and cause exists, the Director may grant the request.
- b. This permit may be modified during its term for cause, including but not limited to, the following:
 - (1) If cause for termination under Provision II. E. 5. of this permit exists, the Director may choose to modify this permit instead of terminating this permit;
 - (2) There are material and substantial alterations or additions to the facility or activity generating wastewater which occurred after permit issuance which justify the application of permit conditions that are different or absent in the existing permit;
 - (3) The Director has received new information that was not available at the time of permit issuance and that would have justified the application of different permit conditions at the time of issuance;
 - (4) A new or revised requirement(s) of any applicable standard or limitation is promulgated under Sections 301(b)(2)(C), (D), (E), and (F), and 307(a)(2) of the FWPCA;
 - (5) Errors in calculation of discharge limitations or typographical or clerical errors were made;
 - (6) To the extent allowed by ADEM Administrative Code, Rule 335-6-6-.17, when the standards or regulations on which the permit was based have been changed by promulgation of amended standards or regulations or by judicial decision after the permit was issued;
 - (7) To the extent allowed by ADEM Administrative Code, Rule 335-6-6-.17, permits may be modified to change compliance schedules;
 - (8) To agree with a granted variance under 30l(c), 30l(g), 30l(h), 30l(k), or 3l6(a) of the FWPCA or for fundamentally different factors;
 - (9) To incorporate an applicable 307(a) FWPCA toxic effluent standard or prohibition;
 - (10) When required by the reopener conditions in this permit;
 - (11) When required under 40 CFR 403.8(e) (compliance schedule for development of pretreatment program);

- (12) Upon failure of the state to notify, as required by Section 402(b)(3) of the FWPCA, another state whose waters may be affected by a discharge permitted by this permit;
- (13) When required to correct technical mistakes, such as errors in calculation, or mistaken interpretations of law made in determining permit conditions; or
- (14) When requested by the permittee and the Director determines that the modification has cause and will not result in a violation of federal or state law, regulations or rules.

5. Permit Termination

This permit may be terminated during its term for cause, including but not limited to, the following:

- a. Violation of any term or condition of this permit;
- b. The permittee's misrepresentation or failure to disclose fully all relevant facts in the permit application or during the permit issuance process or the permittee's misrepresentation of any relevant facts at any time;
- c. Materially false or inaccurate statements or information in the permit application or the permit;
- d. A change in any condition that requires either a temporary or permanent reduction or elimination of the permitted discharge;
- e. The permittee's discharge threatens human life or welfare or the maintenance of water quality standards;
- f. Permanent closure of the facility generating the wastewater permitted to be discharged by this permit or permanent cessation of wastewater discharge;
- g. New or revised requirements of any applicable standard or limitation that is promulgated under Sections 301(b)(2)(C), (D), (E), and (F), and 307(a)(2) of the FWPCA that the Director determines cannot be complied with by the permittee; or
- h. Any other cause allowed by the ADEM Administrative Code, Chapter 335-6-6.

6. Permit Suspension

This permit may be suspended during its term for noncompliance until the permittee has taken action(s) necessary to achieve compliance.

7. Request for Permit Action Does Not Stay Any Permit Requirement

The filing of a request by the permittee for modification, suspension or revocation of this permit, in whole or in part, does not stay any permit term or condition.

F. COMPLIANCE WITH TOXIC POLLUTANT STANDARD OR PROHIBITION

If any applicable effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is established under Section 307(a) of the FWPCA, 33 U.S.C. Section 1317(a), for a toxic pollutant discharged by the permittee and such standard or prohibition is more stringent than any discharge limitation on the pollutant specified in Provision I. A. of this permit, or controls a pollutant not limited in Provision I. A. of this permit, this permit shall be modified to conform to the toxic pollutant effluent standard or prohibition and the permittee shall be notified of such modification. If this permit has not been modified to conform to the toxic pollutant effluent standard or prohibition before the effective date of such standard or prohibition, the permittee shall attain compliance with the requirements of the standard or prohibition within the time period required by the standard or prohibition and shall continue to comply with the standard or prohibition until this permit is modified or reissued.

G. DISCHARGE OF WASTEWATER GENERATED BY OTHERS

The discharge of wastewater, generated by any process, facility, or by any other means not under the operational control of the permittee or not identified in the application for this permit or not identified specifically in the description of an outfall in this permit is not authorized by this permit.

PART III: OTHER PERMIT CONDITIONS

A. CIVIL AND CRIMINAL LIABILITY

1. Tampering

Any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained or performed under the permit shall, upon conviction, be subject to penalties as provided by the AWPCA.

2. False Statements

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 subject to penalties as provided by the AWPCA.

3. Permit Enforcement

- a. Any NPDES permit issued or reissued by the Department is a permit for the purpose of the AWPCA and the FWPCA and as such any terms, conditions, or limitations of the permit are enforceable under state and federal law.
- b. Any person required to have a NPDES permit pursuant to ADEM Administrative Code Chapter 335-6-6 and who discharges pollutants without said permit, who violates the conditions of said permit, who discharges pollutants in a manner not authorized by the permit, or who violates applicable orders of the Department or any applicable rule or standard of the Department, is subject to any one or combination of the following enforcement actions under applicable state statutes.
 - (1) An administrative order requiring abatement, compliance, mitigation, cessation, clean-up, and/or penalties;
 - (2) An action for damages;
 - (3) An action for injunctive relief; or
 - (4) An action for penalties.
- c. If the permittee is not in compliance with the conditions of an expiring or expired permit the Director may choose to do any or all of the following provided the permittee has made a timely and complete application for reissuance of the permit:
 - (1) initiate enforcement action based upon the permit which has been continued;
 - (2) issue a notice of intent to deny the permit reissuance. If the permit is denied, the owner or operator would then be required to cease the activities authorized by the continued permit or be subject to enforcement action for operating without a permit;
 - (3) reissue the new permit with appropriate conditions; or
 - (4) take other actions authorized by these rules and AWPCA.

4. Relief from Liability

Except as provided in Provision II.C.1 (Bypass) and Provision II.C.2 (Upset), nothing in this permit shall be construed to relieve the permittee of civil or criminal liability under the AWPCA or FWPCA for noncompliance with any term or condition of this permit.

B. OIL AND HAZARDOUS SUBSTANCE LIABILITY

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 to which the permittee is or may be subject under Section 311 of the FWPCA, 33 U.S.C. Section 1321.

C. PROPERTY AND OTHER RIGHTS

This permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to persons or property or invasion of other private rights, trespass, or any infringement of federal, state, or local laws or regulations, nor does it authorize or approve the construction of any physical structures or facilities or the undertaking of any work in any waters of the state or of the United States.

D. AVAILABILITY OF REPORTS

Except for data determined to be confidential under <u>Code of Alabama</u> 1975, Section 22-22-9(c), all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Department. Effluent data shall not be considered confidential.

E. EXPIRATION OF PERMITS FOR NEW OR INCREASED DISCHARGES

- 1. If this permit was issued for a new discharger or new source, this permit shall expire eighteen months after the issuance date if construction of the facility has not begun during the eighteen-month period.
- 2. If this permit was issued or modified to allow the discharge of increased quantities of pollutants to accommodate the modification of an existing facility and if construction of this modification has not begun during the eighteen month period after issuance of this permit or permit modification, this permit shall be modified to reduce the quantities of pollutants allowed to be discharged to those levels that would have been allowed if the modification of the facility had not been planned.
- 3. Construction has begun when the owner or operator has:
 - a. begun, or caused to begin as part of a continuous on-site construction program:
 - (1) any placement, assembly, or installation of facilities or equipment; or
 - (2) significant site preparation work including clearing, excavation, or removal of existing buildings, structures, or facilities which is necessary for the placement, assembly, or installation of new source facilities or equipment; or
 - b. entered into a binding contractual obligation for the purpose of placement, assembly, or installation of facilities or equipment which are intended to be used in its operation within a reasonable time. Options to purchase or contracts which can be terminated or modified without substantial loss, and contracts for feasibility, engineering, and design studies do not constitute a contractual obligation under the paragraph. The entering into a lease with the State of Alabama for exploration and production of hydrocarbons shall also be considered beginning construction.

F. COMPLIANCE WITH WATER QUALITY STANDARDS

- 1. On the basis of the permittee's application, plans, or other available information, the Department has determined that compliance with the terms and conditions of this permit should assure compliance with the applicable water quality standards.
- 2. Compliance with permit terms and conditions notwithstanding, if the permittee's discharge(s) from point sources identified in Provision I. A. of this permit cause or contribute to a condition in contravention of state water quality standards, the Department may require abatement action to be taken by the permittee in emergency situations or modify the permit pursuant to the Department's Rules, or both.
- 3. If the Department determines, on the basis of a notice provided pursuant to this permit or any investigation, inspection or sampling, that a modification of this permit is necessary to assure maintenance of water quality standards or compliance with other provisions of the AWPCA or FWPCA, the Department may require such modification and, in cases of emergency, the Director may prohibit the discharge until the permit has been modified.

G. GROUNDWATER

Unless specifically authorized under this permit, this permit does not authorize the discharge of pollutants to groundwater. Should a threat of groundwater contamination occur, the Director may require groundwater monitoring to properly assess the degree of the problem and the Director may require that the Permittee undertake measures to abate any such discharge and/or contamination.

H. DEFINITIONS

- 1. 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 (zero discharge days shall not be included in the number of "daily discharges" measured and a less than detectable test result shall be treated as a concentration of zero if the most sensitive EPA approved method was used).
- 2. Average weekly discharge limitation means the highest allowable average of "daily discharges" over a calendar week, calculated as the sum of all "daily discharges" measured during a calendar week divided by the number of "daily discharges" measured during that week (zero discharge days shall not be included in the number of "daily discharges" measured and a less than detectable test result shall be treated as a concentration of zero if the most sensitive EPA approved method was used).

- 3. <u>Arithmetic Mean</u> means the summation of the individual values of any set of values divided by the number of individual values.
- 4. AWPCA means the Alabama Water Pollution Control Act.
- 5. BOD means the five-day measure of the pollutant parameter biochemical oxygen demand.
- Bypass means the intentional diversion of waste streams from any portion of a treatment facility.
- 7. CBOD means the five-day measure of the pollutant parameter carbonaceous biochemical oxygen demand.
- 8. <u>Daily discharge</u> means the discharge of a pollutant measured during any consecutive 24-hour period in accordance with the sample type and analytical methodology specified by the discharge permit.
- 9. <u>Daily maximum</u> means the highest value of any individual sample result obtained during a day.
- 10. <u>Daily minimum</u> means the lowest value of any individual sample result obtained during a day.
- 11. Day means any consecutive 24-hour period.
- 12. Department means the Alabama Department of Environmental Management.
- 13. <u>Director</u> means the Director of the Department.
- 14. <u>Discharge</u> means "[t]he addition, introduction, leaking, spilling or emitting of any sewage, industrial waste, pollutant or other wastes into waters of the state". Code of Alabama 1975, Section 22-22-1(b)(8).
- 15. <u>Discharge Monitoring Report (DMR)</u> means the form approved by the Director to accomplish reporting requirements of an NPDES permit.
- 16. DO means dissolved oxygen.
- 17. 8HC means 8-hour composite sample, including any of the following:
 - a. The mixing of at least 5 equal volume samples collected at constant time intervals of not more than 2 hours over a period of not less than 8 hours between the hours of 6:00 a.m. and 6:00 p.m. If the sampling period exceeds 8 hours, sampling may be conducted beyond the 6:00 a.m. to 6:00 p.m. period.
 - b. A sample continuously collected at a constant rate over period of not less than 8 hours between the hours of 6:00 a.m. and 6:00 p.m. If the sampling period exceeds 8 hours, sampling may be conducted beyond the 6:00 a.m. to 6:00 p.m. period.
- 18. EPA means the United States Environmental Protection Agency.
- 19. FC means the pollutant parameter fecal coliform.
- 20. Flow means the total volume of discharge in a 24-hour period.
- 21. FWPCA means the Federal Water Pollution Control Act.
- 22. <u>Geometric Mean</u> means the Nth root of the product of the individual values of any set of values where N is equal to the number of individual values. The geometric mean is equivalent to the antilog of the arithmetic mean of the logarithms of the individual values. For purposes of calculating the geometric mean, values of zero (0) shall be considered one (1).
- 23. <u>Grab Sample</u> means a single influent or effluent portion which is not a composite sample. The sample(s) shall be collected at the period(s) most representative of the discharge.
- 24. <u>Indirect Discharger</u> means a nondomestic discharger who discharges pollutants to a publicly owned treatment works or a privately owned treatment facility operated by another person.
- 25. <u>Industrial User</u> means those industries identified in the Standard Industrial Classification manual, Bureau of the Budget 1967, as amended and supplemented, under the category "Division D Manufacturing" and such other classes of significant waste producers as, by regulation, the Director deems appropriate.
- 26. <u>MGD</u> means million gallons per day.

- 27. Monthly Average means, other than for fecal coliform bacteria, the arithmetic mean of the entire composite or grab samples taken for the daily discharges collected in one month period. The monthly average for fecal coliform bacteria is the geometric mean of daily discharge samples collected in a one month period. The monthly average for flow is the arithmetic mean of all flow measurements taken in a one month period.
- 28. New Discharger means a person, owning or operating any building, structure, facility or installation:
 - a. from which there is or may be a discharge of pollutants;
 - b. that did not commence the discharge of pollutants prior to August 13, 1979, and which is not a new source; and
 - c. which has never received a final effective NPDES permit for dischargers at that site.
- 29. NH3-N means the pollutant parameter ammonia, measured as nitrogen.
- 30. <u>Permit application</u> means forms and additional information that is required by ADEM Administrative Code Rule 335-6-6-.08 and applicable permit fees.
- 31. <u>Point source</u> means "any discernible, confined and discrete conveyance, including but not limited to any pipe, channel, ditch, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, or vessel or other floating craft, . . . from which pollutants are or may be discharged." Section 502(14) of the FWPCA, 33 U.S.C. Section 1362(14).
- 32. Pollutant includes for purposes of this permit, but is not limited to, those pollutants specified in Code of Alabama 1975, Section 22-22-1(b)(3) and those effluent characteristics specified in Provision I. A. of this permit.
- 33. <u>Privately Owned Treatment Works</u> means any devices or system which is used to treat wastes from any facility whose operator is not the operator of the treatment works, and which is not a "POTW".
- 34. <u>Publicly Owned Treatment Works</u> means a wastewater collection and treatment facility owned by the State, municipality, regional entity composed of two or more municipalities, or another entity created by the State or local authority for the purpose of collecting and treating municipal wastewater.
- 35. Receiving Stream means the "waters" receiving a "discharge" from a "point source".
- 36. <u>Severe property damage</u> 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.
- 37. <u>Significant Source</u> means a source which discharges 0.025 MGD or more to a POTW or greater than five percent of the treatment work's capacity, or a source which is a primary industry as defined by the U.S. EPA or which discharges a priority or toxic pollutant.
- 38. <u>Solvent</u> means any virgin, used or spent organic solvent(s) identified in the F-Listed wastes (F001 through F005) specified in 40 CFR 261.31 that is used for the purpose of solubilizing other materials.
- 39. TKN means the pollutant parameter Total Kjeldahl Nitrogen.
- 40. TON means the pollutant parameter Total Organic Nitrogen.
- 41. TRC means Total Residual Chlorine.
- 42. TSS means the pollutant parameter Total Suspended Solids.
- 43. 24HC means 24-hour composite sample, including any of the following:
 - a. the mixing of at least 12 equal volume samples collected at constant time intervals of not more than 2 hours over a period of 24 hours;
 - b. a sample collected over a consecutive 24-hour period using an automatic sampler composite to one sample. As a minimum, samples shall be collected hourly and each shall be no more than one twenty-fourth (1/24) of the total sample volume collected; or
 - a sample collected over a consecutive 24-hour period using an automatic composite sampler composited proportional to flow.

- 44. <u>Upset</u> means an exceptional incident in which there is an unintentional and temporary noncompliance with technology-based permit discharge 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 preventive maintenance, or careless or improper operation.
- 45. Waters means "[a]ll waters of any river, stream, watercourse, pond, lake, coastal, ground or surface water, wholly or partially within the state, natural or artificial. This does not include waters which are entirely confined and retained completely upon the property of a single individual, partnership or corporation unless such waters are used in interstate commerce." Code of Alabama 1975, Section 22-22-1(b)(2). Waters "include all navigable waters" as defined in Section 502(7) of the FWPCA, 22 U.S.C. Section 1362(7), which are within the State of Alabama.
- 46. Week means the period beginning at twelve midnight Saturday and ending at twelve midnight the following Saturday.
- 47. Weekly (7-day and calendar week) Average is the arithmetic mean of all samples collected during a consecutive 7-day period or calendar week, whichever is applicable. The calendar week is defined as beginning on Sunday and ending on Saturday. Weekly averages shall be calculated for all calendar weeks with Saturdays in the month. If a calendar week overlaps two months (i.e., the Sunday is in one month and the Saturday in the following month), the weekly average calculated for the calendar week shall be included in the data for the month that contains the Saturday.

I. SEVERABILITY

The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

PART IV: ADDITIONAL REQUIREMENTS, CONDITIONS, AND LIMITATIONS

A. BEST MANAGEMENT PRACTICES (BMP) PLAN REQUIREMENTS

1. BMP Plan

The permittee shall develop and implement a Best Management Practices (BMP) Plan which prevents, or minimizes the potential for, the release of pollutants from ancillary activities, including material storage areas; plant site runoff; in-plant transfer, process and material handling areas; loading and unloading operations, and sludge and waste disposal areas, to the waters of the State through plant site runoff; spillage or leaks; sludge or waste disposal; or drainage from raw material storage.

2. Plan Content

The permittee shall prepare and implement a best management practices (BMP) plan, which shall:

- a. Establish specific objectives for the control of pollutants:
 - Each facility component or system shall be examined for its potential for causing a release of significant amounts of
 pollutants to waters of the State due to equipment failure, improper operation, natural phenomena such as rain or
 snowfall, etc.
 - (2) Where experience indicates a reasonable potential for equipment failure (e.g., a tank overflow or leakage), natural condition (e.g. precipitation), or circumstances to result in significant amounts of pollutants reaching surface waters, the plan should include a prediction of the direction, rate of flow, and total quantity of pollutants which could be discharged from the facility as a result of each condition or circumstance.
- b. Establish specific best management practices to meet the objectives identified under paragraph a. of this section, addressing each component or system capable of causing a release of significant amounts of pollutants to the waters of the State, and identifying specific preventative or remedial measures to be implemented;
- c. Establish a program to identify and repair leaking equipment items and damaged containment structures, which may contribute to contaminated stormwater runoff. This program must include regular visual inspections of equipment, containment structures and of the facility in general to ensure that the BMP is continually implemented and effective;
- d. Prevent the spillage or loss of fluids, oil, grease, gasoline, etc. from vehicle and equipment maintenance activities and thereby prevent the contamination of stormwater from these substances;
- e. Prevent or minimize stormwater contact with material stored on site;
- f. Designate by position or name the person or persons responsible for the day to day implementation of the BMP;
- g. Provide for routine inspections, on days during which the facility is manned, of any structures that function to prevent stormwater pollution or to remove pollutants from stormwater and of the facility in general to ensure that the BMP is continually implemented and effective;
- h. Provide for the use and disposal of any material used to absorb spilled fluids that could contaminate stormwater;
- Develop a solvent management plan, if solvents are used on site. The solvent management plan shall include as a minimum lists of the solvents on site; the disposal method of solvents used instead of dumping, such as reclamation, contract hauling; and the procedures for assuring that solvents do not routinely spill or leak into the stormwater;
- j. Provide for the disposal of all used oils, hydraulic fluids, firefighting foams, solvent degreasing material, etc. in accordance with good management practices and any applicable state or federal regulations;
- k. Include a diagram of the facility showing the locations where stormwater exits the facility, the locations of any structure or other mechanisms intended to prevent pollution of stormwater or to remove pollutants from stormwater, the locations of any collection and handling systems;
- 1. Provide control sufficient to prevent or control pollution of stormwater by soil particles to the degree required to maintain compliance with the water quality standard for turbidity applicable to the waterbody(s) receiving discharge(s) under this permit;
- m. Provide spill prevention, control, and/or management sufficient to prevent or minimize contaminated stormwater runoff.

 Any containment system used to implement this requirement shall be constructed of materials compatible with the

substance(s) contained and shall prevent the contamination of groundwater. The containment system shall also be capable of retaining a volume equal to 110 percent of the capacity of the largest tank for which containment is provided;

- n. Provide and maintain curbing, diking or other means of isolating process areas to the extent necessary to allow segregation and collection for treatment of contaminated stormwater from process areas;
- o. Be reviewed by plant engineering staff and the plant manager; and
- p. Bear the signature of the plant manager.

3. Compliance Schedule

The permittee shall have reviewed (and revised if necessary) and fully implemented the BMP plan as soon as practicable but no later than six months after the effective date of this permit.

4. Department Review

- a. When requested by the Director or his designee, the permittee shall make the BMP available for Department review.
- b. The Director or his designee may notify the permittee at any time that the BMP is deficient and require correction of the deficiency.
- c. The permittee shall correct any BMP deficiency identified by the Director or his designee within 30 days of receipt of notification and shall certify to the Department that the correction has been made and implemented.

5. Administrative Procedures

- A copy of the BMP shall be maintained at the facility and shall be available for inspection by representatives of the Department.
- b. A log of the routine inspection required above shall be maintained at the facility and shall be available for inspection by representatives of the Department. The log shall contain records of all inspections performed for the last three years and each entry shall be signed by the person performing the inspection.
- c. The permittee shall provide training for any personnel required to implement the BMP and shall retain documentation of such training at the facility. This documentation shall be available for inspection by representatives of the Department. Training shall be performed prior to the date that implementation of the BMP is required.
- d. BMP Plan Modification. The permittee shall amend the BMP plan whenever there is a change in the facility or change in operation of the facility which materially increases the potential for the ancillary activities to result in a discharge of significant amounts of pollutants.
- e. BMP Plan Review. The permittee shall complete a review and evaluation of the BMP plan at least once every three years from the date of preparation of the BMP plan. Documentation of the BMP Plan review and evaluation shall be signed and dated by the Plant Manager.

B. STORMWATER FLOW MEASUREMENT AND SAMPLING REQUIREMENTS

1. Stormwater Flow Measurement

- a. All stormwater samples shall be collected from the discharge resulting from a storm event that is greater than 0.1 inches.
- b. The total volume of stormwater discharged for the event must be monitored, including the date and duration (in hours) and rainfall (in inches) for storm event(s) sampled. The duration between the storm event sampled and the end of the previous measurable (greater than 0.1 inch rainfall) storm event must be a minimum of 72 hours. This information must be recorded as part of the sampling procedure and records retained according to Part I.B. of this permit.
- c. The volume may be measured using flow measuring devices, or estimated based on a modification of the Rational Method using total depth of rainfall, the size of the drainage area serving a stormwater outfall, and an estimate of the runoff coefficient of the drainage area. This information must be recorded as part of the sampling procedure and records retained according to Part I.B. of this permit.

2. Stormwater Sampling

- a. A grab sample, if required by this permit, shall be taken during the first thirty minutes of the discharge (or as soon thereafter as practicable); and a flow-weighted composite sample, if required by this permit, shall be taken for the entire event or for the first three hours of the event.
- b. All test procedures will be in accordance with part I.B. of this permit.

C. ACUTE TOXICITY LIMITATIONS AND BIOMONITORING REQUIREMENTS

- 1. The permittee shall perform 48-hour acute toxicity tests on the wastewater discharges required to be tested for acute toxicity by Part I of this permit.
 - a. Test Requirements
 - (1) The tests shall be performed using undiluted effluent.
 - (2) Any test where survival in the effluent concentration is less than 90% and statistically lower than the control indicates acute toxicity and constitutes noncompliance with this permit.

b. General Test Requirements

- (1) A grab sample shall be obtained for use in above biomonitoring tests. The holding time for each sample shall not exceed 36 hours. The control water shall be a water prepared in the laboratory in accordance with the EPA procedure described in EPA 821-R-02-012 or most current edition or another control water selected by the permittee and approved by the Department.
- (2) Effluent toxicity tests in which the control survival is less than 90% or in which the other requirements of the EPA Test Procedure are not met shall be unacceptable and the permittee shall rerun the tests as soon as practical within the monitoring period.
- (3) In the event of an invalid test, upon subsequent completion of a valid test, the results of all tests, valid and invalid, are reported with an explanation of the tests performed and results.

c. Reporting Requirements

- (1) The permittee shall notify the Department in writing within 48 hours after toxicity has been demonstrated by the scheduled test(s).
- (2) Biomonitoring test results obtained during each monitoring period shall be summarized and reported using the appropriate Discharge Monitoring Report (DMR) form approved by the Department. In accordance with Section 2. of this part, an effluent toxicity report containing the information in Section 2. shall be included with the DMR. Two copies of the test results must be submitted to the Department no later than 28 days after the month in which the tests were performed.

d. Additional Testing Requirements

- (1) If acute toxicity is indicated (noncompliance with permit limit), the permittee shall perform four additional valid acute toxicity tests in accordance with these procedures to determine the extent and duration of the toxic condition. The toxicity tests shall be performed once per week and shall be performed during the first four calendar weeks following the date on which the permittee became aware of the permit noncompliance and the results of these tests shall be submitted no later than 28 days following the month in which the tests were performed.
- (2) After evaluation of the results of the follow-up tests, the Department will determine if additional action is appropriate and may require additional testing and/or toxicity reduction measures. The permittee may be required to perform a Toxicity Identification Evaluation (TIE) and/or a Toxicity Reduction Evaluation (TRE). The TIE/TRE shall be performed in accordance with the most recent protocols/guidance outlined by EPA (e.g., EPA/600/2-88/062, EPA/600/R-92/080, EPA/600R-92/081, EPA/833/B-99/022 and/or EPA/600/6-91/005F, etc.).

e. Test Methods

The tests shall be performed in accordance with the latest edition of the "EPA Methods for Measuring the Acute Toxicity of Effluents to Freshwater and Marine Organisms" and shall be performed using the fathead minnow (*Pimephales promelas*) and the cladoceran (*Ceriodaphnia dubia*).

2. Effluent toxicity testing reports

The following information shall be submitted with each discharge monitoring report unless otherwise directed by the Department. The Department may at any time suspend or reinstate this requirement or may increase or decrease the frequency of submittals.

- a. Introduction
 - (1) Facility Name, location and county
 - (2) Permit number
 - (3) Toxicity testing requirements of permit
 - (4) Name of receiving water body
 - (5) Contract laboratory information (if tests are performed under contract)
 - (i) Name of firm
 - (ii) Telephone number
 - (iii) Address
 - (6) Objective of test
- b. Plant Operations
 - (1) Discharge operating schedule (if other than continuous)
 - (2) Volume of discharge during sample collection to include Mean daily discharge on sample collection date (MGD, CFS, GPM)
 - (3) Design flow of treatment facility at time of sampling
- c. Source of Effluent and Dilution Water
 - (1) Effluent samples
 - (i) Sampling point
 - (ii) Sample collection dates and times (to include composite sample start and finish times)
 - (iii) Sample collection method
 - (iv) Physical and chemical data of undiluted effluent samples (water temperature, pH, alkalinity, hardness, specific conductance, total residual chlorine (if applicable), etc.)
 - (v) Sample temperature when received at the laboratory
 - (vi Lapsed time from sample collection to delivery
 - (vii)Lapsed time from sample collection to test intiation
 - (2) Dilution Water Samples
 - (i) Source
 - (ii) Collection date(s) and time(s) (where applicable)
 - (iii) Pretreatment
 - (iv) Physical and chemical characteristics (pH, hardness, water temperature, alkalinity, specific conductance, etc.)
- d. Test Conditions
 - (1) Toxicity test method utilized

- (2) End point(s) of test
- (3) Deviations from referenced method, if any, and reason(s)
- (4) Date and time test started
- (5) Date and time test terminated
- (6) Type and volume of test chambers
- (7) Volume of solution per chamber
- (8) Number of organisms per test chamber
- (9) Number of replicate test chambers per treatment
- (10) Test temperature, pH and dissolved oxygen as recommended by the method (to include ranges)
- (11) Feeding frequency, and amount and type of food
- (12) Light intensity (mean)
- e. Test Organisms
 - (1) Scientific name
 - (2) Life stage and age
 - (3) Source
 - (4) Disease treatment (if applicable)
- f. Quality Assurance
 - (1) Reference toxicant utilized and source
 - (2) Date and time of most recent acute reference toxicant test(s), raw data, and current cusum chart(s)
 - (3) Dilution water utilized in reference toxicant test
 - (4) Results of reference toxicant test(s) (LC50, etc.), report concentration-response relationship and evaluate test sensitivity. The most recent reference toxicant test shall be conducted within 30-days of the routine.
 - (5) Physical and chemical methods utilized
- g. Results
 - (1) Provide raw toxicity data in tabular form, including daily records of affected organisms in each concentration (including controls) and replicate
 - (2) Provide table of endpoints: LC50, NOAEC, Pass/Fail (as required in the applicable NPDES permit)
 - (3) Indicate statistical methods used to calculate endpoints
 - (4) Provide all physical and chemical data required by method
 - (5) Results of test(s) (LC50, NOAEC, Pass/Fail, etc.), report concentration-response relationship (definitive test only), report percent minimum significant difference (PMSD).
- h. Conclusions and Recommendations
 - (1) Relationship between test endpoints and permit limits
 - (2) Action to be taken

Adapted from "Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms", Fifth Edition, October 2002 (EPA 821-R-02-012), Section 12, Report Preparation

D. CHRONIC TOXICITY LIMITATIONS AND BIOMONITORING REQUIREMENTS

- The permittee shall perform short-term chronic toxicity tests on the wastewater discharges required to be tested for chronic toxicity by Part I
 of this permit.
 - Test Requirements
 - (1) The tests shall be performed using undiluted effluent.
 - (2) Any test result that shows a statistically significant reduction in survival, growth, or reproduction between the control and the test at the 95% confidence level indicate chronic toxicity and constitute noncompliance with this permit.

b. General Test Requirements

- (1) A minimum of three (3) 24-hour composite samples shall be obtained for use in the above biomonitoring tests and collected every other day so that the laboratory receives water samples on the first, third, and fifth day of the seven-day test period. The holding time for each composite sample shall not exceed 36 hours. The control water shall be a water prepared in the laboratory in accordance with the EPA procedure described in EPA 82I-R-02-013 or the most current edition or another control water selected by the permittee and approved by the Department.
- (2) Effluent toxicity tests in which the control survival is less than 80%, P. promelas dry weight per surviving control organism is less than 0.25 mg, Ceriodaphnia number of young per surviving control organism is less than 15, Ceriodaphnia reproduction where less than 60% of surviving control females produce three broods or in which the other requirements of the EPA Test Procedure are not met shall be unacceptable and the permittee shall rerun the tests as soon as practical within the monitoring period.
- (3) In the event of an invalid test, upon subsequent completion of a valid test, the results of all tests, valid and invalid, are reported with an explanation of the tests performed and results.

c. Reporting Requirements

- (1) The permittee shall notify the Department in writing within 48 hours after toxicity has been demonstrated by the scheduled test(s).
- (2) Biomonitoring test results obtained during each monitoring period shall be summarized and reported using the appropriate Discharge Monitoring Report (DMR) form approved by the Department. In accordance with Section 2 of this part, an effluent toxicity report containing the information in Section 2 shall be included with the DMR. Two copies of the test results must be submitted to the Department no later than 28 days after the month in which the tests were performed.

d. Additional Testing Requirements

- (1) If chronic toxicity is indicated (noncompliance with permit limit), the permittee shall perform two additional valid chronic toxicity tests in accordance with these procedures to determine the extent and duration of the toxic condition. The toxicity tests shall run consecutively beginning on the first calendar week following the date on which the permittee became aware of the permit noncompliance and the results of these tests shall be submitted no later than 28 days following the month in which the tests were performed.
- (2) After evaluation of the results of the follow-up tests, the Department will determine if additional action is appropriate and may require additional testing and/or toxicity reduction measures. The permittee may be required to perform a Toxicity Identification Evaluation (TIE) and/or a Toxicity Reduction Evaluation (TRE). The TIE/TRE shall be performed in accordance with the most recent protocols/guidance outlined by EPA (e.g., EPA/600/2-88/062, EPA/600/R-92/080, EPA/600/R-91-003, EPA/600/R-92/081, EPA/833/B-99/022 and/or EPA/600/6-91/005F, etc.)

e. Test Methods

The tests shall be performed in accordance with the latest edition of the "EPA Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Water to Freshwater Organisms". The Larval Survival and Growth Test, Methods 1000.0, shall be used for the fathead minnow (*Pimephales promelas*) test and the Survival and Reproduction Test, Method 1002.0, shall be used for the cladoceran (*Ceriodaphnia dubia*) test.

2. Effluent Toxicity Testing Reports

The following information shall be submitted with each discharge monitoring report unless otherwise directed by the Department. The Department may at any time suspend or reinstate these requirements or may decrease or increase the frequency of submittals.

a. Introduction

- (1) Facility name, location, and county
- (2) Permit number
- (3) Toxicity testing requirements of permit

- (4) Name of receiving water body
- (5) Contract laboratory information (if tests are performed under contract)
 - (a) Name of firm
 - (b) Telephone number
 - (c) Address
- (6) Objective of test
- b. Plant Operation
 - (1) Discharge Operating schedule (if other than continuous)
 - (2) Volume of discharge during sample collection to include Mean daily discharge on sample collection dates (MGD, CFS, GPM)
 - (3) Design flow of treatment facility at time of sampling
- Source of Effluent and Dilution Water
 - (1) Effluent samples
 - (a) Sampling point
 - (b) Sample collection dates and times (to include composite sample start and finish times)
 - (c) Sample collection method
 - (d) Physical and chemical data of undiluted effluent samples (water temperature, pH, alkalinity, hardness, specific conductance, total residual chlorine (if applicable), etc.)
 - (e) Lapsed time from sample collection to delivery
 - (f) Lapsed time from sample collection to test initiation
 - (g) Sample temperature when received at the laboratory
 - (2) Dilution Water
 - (a) Source
 - (b) Collection/preparation date(s) and time(s)
 - (c) Pretreatment (if applicable)
 - (d) Physical and chemical characteristics (water temperature, pH, alkalinity, hardness, specific conductance, etc.)
- d. Test Conditions
 - (1) Toxicity test method utilized
 - (2) End point(s) of test
 - (3) Deviations from referenced method, if any, and reason(s)
 - (4) Date and time test started
 - (5) Date and time test terminated
 - (6) Type and volume of test chambers
 - (7) Volume of solution per chamber
 - (8) Number of organisms per test chamber
 - (9) Number of replicate test chambers per treatment
 - (10) Test temperature, pH, and dissolved oxygen as recommended by the method (to include ranges)
 - (11) Specify if aeration was needed

- (12) Feeding frequency, amount, and type of food
- (13) Specify if (and how) pH control measures were implemented
- (14) Light intensity (mean)
- e. Test Organisms
 - (1) Scientific name
 - (2) Life stage and age
 - (3) Source
 - (4) Disease(s) treatment (if applicable)
- f. Quality Assurance
 - (1) Reference toxicant utilized and source
 - (2) Date and time of most recent chronic reference toxicant test(s), raw data and current control chart(s). The most recent chronic reference toxicant test shall be conducted within 30 days of the routine.
 - (3) Dilution water utilized in reference toxicant test
 - (4) Results of reference toxicant test(s) (NOEC, IC25, PASS/FAIL, etc.), report concentration response relationship and evaluate test sensitivity
 - (5) Physical and chemical methods utilized
- g. Results
 - (1) Provide raw toxicity data in tabular form, including daily records of affected organisms in each concentration (including controls) and replicate
 - (2) Provide table of endpoints: NOECs, IC25s, PASS/FAIL, etc. (as required in the applicable NPDES permit)
 - (3) Indicate statistical methods used to calculate endpoints
 - (4) Provide all physical and chemical data required by method
 - (5) Results of test(s) (NOEC, IC25, PASS/FAIL, etc.), report concentration-response relationship (definitive test only), report percent minimum significant difference (PMSD) calculated for sub-lethal endpoints determined by hypothesis testing.
- h. Conclusions and Recommendations
 - (1) Relationship between test endpoints and permit limits
 - (2) Actions to be taken

Adapted from "Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms", Fourth Edition, October 2002 (EPA 821-R-02-013), Section 10, Report Preparation

E. COOLING WATER INTAKE STRUCTURE (CWIS) REQUIREMENTS

1. The entity providing water to the permittee is a public water system in accordance with Section 1401 of the Safe Drinking Water Act; therefore, the permittee is exempt from the requirements of this permit condition.

ADEM PERMIT RATIONALE

PREPARED DATE: October 3, 2023

PREPARED BY: Victoria Kim

Permittee Name:

Arclin USA LLC

Facility Name:

Arclin, Inc.

Permit Number:

AL0000868

PERMIT IS REISSUANCE DUE TO EXPIRATION

DISCHARGE SERIAL NUMBERS (DSN) & DESCRIPTIONS:

DSN	Description
001	Treated Process Water, boiler blowdown, steam condensate, demineralizer rinse, non-contact cooling water, cooling tower blowdown, and stormwater discharging to an U.T. to Prestwood Creek.
002	Once-through Non-Contact Cooling Water
003	Stormwater runoff commingled with air conditioner condensate and fire testing water.
004	Treated Process Water, boiler blowdown, steam condensate, demineralizer rinse, non-contact cooling water, cooling tower blowdown, and stormwater discharging to the Conecuh River.

INDUSTRIAL CATEGORY:

40 CFR 414.51 (Subpart E - Thermosetting Resins),

40 CFR 414.61 (Subpart F - Commodity Organic Chemicals),

40 CFR 414.101 (Subpart J - Direct Discharge Point Sources That Do Not

Use End-of-Pipe Biological Treatment)

MAJOR:

Yes

STREAM INFORMATION (DSN001, DSN002, DSN003):

Receiving Stream:

Unnamed Tributary to Prestwood Creek

Classification:

Fish & Wildlife

River Basin:

Perdido/Escambia

7Q10:

0 cfs 0 cfs

7Q2:

0 cfs

1010:

Annual Average Flow: 0.1 cfs 303(d) List:

NO

Impairment:

N/A

TMDL:

NO

STREAM INFORMATION (DSN004):

Receiving Stream:

Conecuh River

Classification:

Fish & Wildlife

River Basin:

Perdido/Escambia

7Q10:

43.164 cfs

7Q2:

50.52 cfs

1Q10: 32.373 cfs Annual Average Flow: 1645.518 cfs

303(d) List: NO
Impairment: N/A
TMDL: NO

DISCUSSION:

Arclin USA, LLC manufactures formaldehyde by oxidation of methanol with air. The formaldehyde is then polymerized with urea and phenol to manufacture urea-formaldehyde and phenol-formaldehyde thermosetting resins for the building industry.

ADEM Administrative Rule 335-6-10-.12 requires applicants to new or expanded discharges to Tier II waters demonstrate that the proposed discharge is necessary for important economic or social development in the area in which the waters are located. The application submitted by the facility is not for a discharge to a Tier II water body. Therefore, anti-degradation requirements do not apply

DSN 0011: Treated Process Water, boiler blowdown, steam condensate, demineralizer rinse, non-contact cooling water, cooling tower blowdown, and stormwater discharging to an U.T. to Prestwood Creek.

Parameter	Quantity o	or Loading	Units	Qı	uality or Concentratio	on	Units	Sample Freq	Sample Type	Seasonal	Basis
Oxygen, Dissolved (DO) (00300) Effluent Gross Value	****	****	****	5.5 Minimum Daily	****	****	mg/l	Weekly	Grab	All Months	WQM
pH (00400) Effluent Gross Value	****	****	****	6.0 Minimum Daily	****	8.5 Maximum Daily	S.U.	Weekly	Grab	All Months	WQBEL
Solids, Total Suspended (00530) Effluent Gross Value	3.48 Monthly Average	8.66 Maximum Daily	lbs/day	****	****	****	****	Weekly	Composite	All Months	EGL
Nitrogen, Ammonia Total (As N) (00610) Effluent Gross Value	****	****	****	****	2.2 Monthly Average	3.3 Maximum Daily	mg/l	Weekly	Composite	All Months	WQM
Arsenic, Total Recoverable (00978) Effluent Gross Value	****	****	****	****	0.303 Monthly Average	0.606 Maximum Daily	ug/l	Monthly	Composite	All Months	WQBEL
Zinc Total Recoverable (01094) Effluent Gross Value	****	****	****	****	(Report) Monthly Average	(Report) Maximum Daily	mg/l	Monthly	Composite	All Months	BPJ
Lead, Total Recoverable (01114) Effluent Gross Value	****	****	****	****	(Report) Monthly Average	(Report) Maximum Daily	mg/l	Monthly	Composite	All Months	ВРЈ
Copper Total Recoverable (01119) Effluent Gross Value	****	****	****	****	0.0128 Monthly Average	0.0180 Maximum Daily	mg/l	Monthly	Composite	All Months	WQBEL
Bromoform (32104) Effluent Gross Value	****	****	****	****	78.8 Monthly Average	157.6 Maximum Daily	ug/l	Monthly	Composite	All Months	WQBEL
Flow, In Conduit or Thru Treatment Plant (50050) Effluent Gross Value	(Report) Monthly Average	(Report) Maximum Daily	MGD	****	****	****	****	Daily	Totalizer	All Months	BPJ
Chlorine, Total Residual (50060) See notes (1,2) Effluent Gross Value	****	****	****	****	0.011 Monthly Average	0.019 Maximum Daily	mg/l	Monthly	Grab	All Months	WQBEL
BOD, Carbonaceous 05 Day, 20C (80082) Effluent Gross Value	2.69 Monthly Average	4.03 Maximum Daily	lbs/day	****	****	****	****	Weekly	Composite	All Months	WQM

DSN 001P: Treated Process Water, boiler blowdown, steam condensate, demineralizer rinse, non-contact cooling water, cooling tower blowdown, and stormwater discharging to an U.T. to Prestwood Creek.

Parameter	Quantity (or Loading	Units	Qı	uality or Concentration	on	Units	Sample Freq	Sample Type	Seasonal	Basis
Perfluorooctanoic Acid (51521) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	BPJ
Perfluorobutanoic Acid (51522) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	BPJ
Perfluorooctanesulfonamide (51525) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	ВРЈ

Parameter	Quantity	or Loading	Units	Qı	uality or Concentration	on	Units	Sample Freq	Sample Type	Seasonal	Basis
Perfluoropentanoic Acid (51623) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	BPJ
Perfluorohexanoic Acid (51624) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	ВРЈ
Perfluoroheptanoic Acid (51625) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	BPJ
Perfluorononanoic acid (51626) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	BPJ
Perfluorodecanoic Acid (51627) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	BPJ
Perfluoroundecanoic Acid (51628) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	BPJ
Perfluorododecanoic acid (51629) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	BPJ
Perfluorotridecanoic Acid (51630) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	ВРЈ
Perfluorotetradecanoic Acid (51631) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	ВРЈ
N-ethyl perfluorooctanesulfonamidoethanol (51641) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	ВРЈ
N-methyl perfluorooctanesulfonamidoethanol (51642) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	ВРЈ
2-(N-ethyl-PFOSA) acetic acid (51643) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	ВРЈ
2-(N-methyl-PFOSA) acetic acid (51644) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	ВРЈ
3-Perfluoroheptyl propanoic acid (PF005) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	ВРЈ
11-Chloroeicosafluoro-3- oxaundecane-1-sulfonic acid (PF004) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	ВРЈ
9-Chlorohexadecafluoro-3- oxanonane-1-sulfonic acid (PF003) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	ВРЈ
Perfluoro-3-methoxypropanoic acid (PF002) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	ВРЈ

Parameter	Quantity of	or Loading	Units	(Quality or Concentrati	ion	Units	Sample Freq	Sample Type	Seasonal	Basis
3-Perfluoropropyl propanoic acid (PF001) Effluent Gross Value	****	****	****	****	***	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	ВРЈ
N-ethyl perfluorooctanesulfonamide (52642) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	BPJ
N-methyl perfluorooctanesulfonamide (52641) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	BPJ
4,8-Dioxa-3H-perfluorononanoic acid (52636) Effluent Gross Value	****	****	***	****	***	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	BPJ
Perfluorododecanesulfonic acid (52632) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	BPJ
Perfluoro(2-ethoxyethane)sulfonic acid (52629) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	BPJ
Nonafluoro-3,6-dioxaheptanoic acid (52626) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	BPJ
Perfluorohexanesulfonic acid (52605) Effluent Gross Value	***	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	BPJ
Perfluorononanesulfonic acid (52611) Effluent Gross Value	****	****	****	****	***	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	BPJ
Perfluoropentansulfonic acid (52610) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	BPJ
1H,1H, 2H, 2H-Perfluorodecane sulfonic acid (52609) Effluent Gross Value	10 10 10 10 10 10 10 10 10 10 10 10 10 1	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	BPJ
IH,1H, 2H, 2H-Perfluorooctane sulfonic acid (52608) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	BPJ
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (52607) Effluent Gross Value	****	***	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	BPJ
Perfluorooctanesulfonic acid (52606) Effluent Gross Value	非非非非	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	ВРЈ
Perfluoro-4-methoxybutanoic acid (PF006) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	BPJ

Parameter	Quantity o	r Loading	Units	Qı	uality or Concentration	on	Units	Sample Freq	Sample Type	Seasonal	Basis
Perfluoroheptanesulfonic acid (52604) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	ВРЈ
Perfluorodecanesulfonic acid (52603) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	ВРЈ
Perfluorobutanesulfonic acid (52602) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	ВРЈ
Hexafluoropropylene oxide dimer acid (52612) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	ВРЈ
2H,2H,3H,3H-Perfluorooctanoic acid (PF007) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	ВРЈ

DSN 001S: Treated Process Water, boiler blowdown, steam condensate, demineralizer rinse, non-contact cooling water, cooling tower blowdown, and stormwater discharging to an U.T. to Prestwood Creek.

Parameter	Quantity	or Loading	Units	(Quality or Concentra	tion	Units	Sample Freq	Sample Type	Seasonal	Basis
Toxicity, Ceriodaphnia Chronic (61426) Effluent Gross Value	****	0 Single Sample	pass=0;fail=1	****	****	****	****	Semi- Annually	Composite	All Months	WQBEL
Toxicity, Pimephales Chronic (61428) Effluent Gross Value	****	0 Single Sample	pass=0;fail=1	****	****	****	****	Semi- Annually	Composite	All Months	WQBEL

DSN 001Y: Treated Process Water, boiler blowdown, steam condensate, demineralizer rinse, non-contact cooling water, cooling tower blowdown, and stormwater discharging to an U.T. to Prestwood Creek.

Parameter	Quantity	or Loading	Units	Qu	ality or Concentration	on	Units	Sample Freq	Sample Type	Seasonal	Basis
Cyanide, Total (As CN) (00720) Effluent Gross Value	****	(Report) Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	ВРЈ
Chromium, Total (As Cr) (01034) Effluent Gross Value	****	(Report) Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	ВРЈ
Copper, Total (As Cu) (01042) Effluent Gross Value	****	(Report) Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	ВРЈ
Lead, Total (As Pb) (01051) Effluent Gross Value	****	(Report) Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	ВРЈ
Nickel, Total (As Ni) (01067) Effluent Gross Value	****	(Report) Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	ВРЈ

Parameter	Quantity of	or Loading	Units	Q	uality or Concentration	on	Units	Sample Freq	Sample Type	Seasonal	Basis
Zinc, Total (As Zn) (01092) Effluent Gross Value	****	(Report) Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	ВРЈ
Carbon Tetrachloride (32102) Effluent Gross Value	0.0001 Monthly Average	0.0001 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	WQBEL
1,2-Dichloroethane (32103) Effluent Gross Value	0.0023 Monthly Average	0.0023 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	WQBEL
Chloroform (32106) Effluent Gross Value	0.0023 Monthly Average	0.0049 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	Anti- Backsliding
Toluene (34010) Effluent Gross Value	0.002 Monthly Average	0.004 Maximum Daily	lbs/day	****	ate ate ate ate	***	****	Annually	Grab	All Months	Anti- Backsliding
Benzene (34030) Effluent Gross Value	0.0017 Monthly Average	0.0017 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	WQBEL
Acenaphthylene (34200) Effluent Gross Value	0.001 Monthly Average	0.003 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	Anti- Backsliding
Acenaphthene (34205) Effluent Gross Value	0.001 Monthly Average	0.003 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	Anti- Backsliding
Acrylonitrile (34215) Effluent Gross Value	0.000015 Monthly Average	0.000015 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	WQBEL
Anthracene (34220) Effluent Gross Value	0.001 Monthly Average	0.003 Maximum Daily	lbs/day	****	***	***	****	Annually	Grab	All Months	Anti- Backsliding
Benzo (K) Fluoranthene (34242) Effluent Gross Value	0.000001 Monthly Average	0.000001 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	WQBEL
Benzo (A) Pyrene (34247) Effluent Gross Value	0.000001 Monthly Average	0.000001 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	WQBEL
Chlorobenzene (34301) Effluent Gross Value	0.0016 Monthly Average	0.0030 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	Anti- Backsliding
Chrysene (34320) Effluent Gross Value	0.000001 Monthly Average	0.000001 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	Anti- Backsliding
Diethyl Phthalate (34336) Effluent Gross Value	0.0030 Monthly Average	0.0060 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	Anti- Backsliding
Dimethyl Phthalate (34341) Effluent Gross Value	0.001 Monthly Average	0.003 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	Anti- Backsliding
Ethylbenzene (34371) Effluent Gross Value	0.0034 Monthly Average	0.0116 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	Anti- Backsliding
Fluoranthene (34376) Effluent Gross Value	0.001 Monthly Average	0.003 Maximum Daily	lbs/day	****	***	****	****	Annually	Grab	All Months	Anti- Backsliding
Fluorene (34381) Effluent Gross Value	0.001 Monthly Average	0.003 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	EGL
Hexachlorobutadiene (34391) Effluent Gross Value	0.0012 Monthly Average	0.0012 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	WQBEL
Hexachloroethane (34396) Effluent Gross Value	0.00025 Monthly Average	0.00025 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	Anti- Backsliding
Methyl Chloride (34418) Effluent Gross Value	0.006 Monthly Average	0.016 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	Anti- Backsliding
Methylene Chloride (34423) Effluent Gross Value	0.002 Monthly Average	0.009 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	Anti-

Parameter	Quantity of	or Loading	Units	Q	Quality or Concentration	on	Units	Sample Freq	Sample Type	Seasonal	Basis
Nitrobenzene (34447)	0.0029	0.0073	Ib-/doc	****	****	****	****	A	CL	All	WODEL
Effluent Gross Value	Monthly Average	Maximum Daily	lbs/day	*****	*****	*****	*****	Annually	Grab	Months	WQBEL
Phenanthrene (34461)	0.001	0.003	11-/-	****	****	****	*****	4	0.1	All	Anti-
Effluent Gross Value	Monthly Average	Maximum Daily	lbs/day	****	*****	*****	*****	Annually	Grab	Months	Backsliding
Pyrene (34469)	0.001	0.003	11 -/1	****	****	****	*****	4 15	0.1	All	Anti-
Effluent Gross Value	Monthly Average	Maximum Daily	lbs/day	*****	*****	*****	*****	Annually	Grab	Months	Backsliding
Tetrachloroethylene (34475)	0.0002	0.0002	11-71	****	****	****	****	4 15	0.1	All	WODEY
Effluent Gross Value	Monthly Average	Maximum Daily	lbs/day	*****	*****	*****	*****	Annually	Grab	Months	WQBEL
1.1-Dichloroethane (34496)	0.001	0.003	11 -/-1	****	****	****	****	4 11	0.1	All	Anti-
Effluent Gross Value	Monthly Average	Maximum Daily	lbs/day	*****	*****	*****	*****	Annually	Grab	Months	Backsliding
1.1-Dichloroethylene (34501)	0.0012	0.0033	11 -/ 1 -	****	****	****	*****	4 11	0.1	All	Anti-
Effluent Gross Value	Monthly Average	Maximum Daily	lbs/day	*****	*****	*****	*****	Annually	Grab	Months	Backsliding
1.1.1-Trichloroethane (34506)	0.0012	0.0033	44 /4	****	****	****			~ .	All	Anti-
Effluent Gross Value	Monthly Average	Maximum Daily	lbs/day	****	*****	****	****	Annually	Grab	Months	Backsliding
1.1.2-Trichloroethane (34511)	0.0010	0.0010		****	****					All	
Effluent Gross Value	Monthly Average	Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	Months	WQBEL
Benzo (A) Anthracene (34526)	0.000001	0.000001								All	
Effluent Gross Value	Monthly Average		lbs/day	****	****	****	****	Annually	Grab	Months	WQBEL
1.2-Dichlorobenzene (34536)	0.0083	0.0175								All	Anti-
Effluent Gross Value	Monthly Average	Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	Months	Backsliding
1.2-Dichloropropane (34541)	0.000912	0.000912			-				-	All	
Effluent Gross Value	Monthly Average	Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	Months	WQBEL
1.2-Trans-Dichloroethylene (34546)		0.0037			1					All	Anti-
Effluent Gross Value	Monthly Average	Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	Months	Backsliding
1.2.4-Trichlorobenzene (34551)	0.0044	0.0044					1			All	Dackstiding
Effluent Gross Value	Monthly Average	Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	Months	WQBEL
1.3-Dichlorobenzene (34566)	0.0033	0.0047					-			All	Anti-
Effluent Gross Value	Monthly Average	Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	Months	Backsliding
1.4-Dichlorobenzene (34571)	0.0016	0.003					-			All	Anti-
Effluent Gross Value	Monthly Average	Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	Months	Backsliding
	0.0000	0.0000					-			All	Dackstiding
2-Chlorophenol (34586) Effluent Gross Value	Monthly Average	Maximum Daily	1bs/day	****	****	****	****	Annually	Grab	Months	EGL
2-Nitrophenol (34591)	0.004	0.0074								All	Anti-
Effluent Gross Value	Monthly Average	Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	Months	Backsliding
2.4-Dichlorophenol (34601)	0.0000	0.0000									Backstiding
, , ,	Monthly Average	Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	EGL
Effluent Gross Value	0.001	0.003									A 41
2,4-Dimethylphenol (34606)		Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All	Anti-
Effluent Gross Value	Monthly Average 0.0000	0.0000					-			Months	Backsliding
2,4-Dinitrotoluene (34611)			lbs/day	****	****	****	****	Annually	Grab	All	EGL
Effluent Gross Value	Monthly Average	Maximum Daily	-							Months	A
2,4-Dinitrophenol (34616)	0.0076	0.0132	lbs/day	****	****	****	****	Annually	Grab	All	Anti-
Effluent Gross Value	Monthly Average	Maximum Daily	-		-					Months	Backsliding
2,6-Dinitrotoluene (34626)	0.0000	0.0000	lbs/day	****	****	****	*****	Annually	Grab	All	EGL
Effluent Gross Value	Monthly Average	Maximum Daily								Months	
4-Nitrophenol (34646)	0.0077	0.0133	lbs/day	****	****	****	****	Annually	Grab	All	Anti-
Effluent Gross Value	Monthly Average	Maximum Daily								Months	Backsliding

Parameter	Quantity of	or Loading	Units	Qı	uality or Concentration	on	Units	Sample Freq	Sample Type	Seasonal	Basis
4,6-Dinitro-O-Cresol (34657) Effluent Gross Value	0.0043 Monthly Average	0.0154 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	Anti- Backsliding
Phenol, Single Compound (34694) Effluent Gross Value	0.0011 Monthly Average	0.0026 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	Anti- Backsliding
Naphthalene (34696) Effluent Gross Value	0.001 Monthly Average	0.003 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	EGL
Bis (2-Ethylhexyl) Phthalate (39100) Effluent Gross Value	0.000138 Monthly Average	0.000138 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	WQBEL
Di-N-Butyl Phthalate (39110) Effluent Gross Value	0.001 Monthly Average	0.002 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	Anti- Backsliding
Vinyl Chloride (39175) Effluent Gross Value	0.0002 Monthly Average	0.0002 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	WQBEL
Trichloroethylene (39180) Effluent Gross Value	0.0010 Monthly Average	0.0019 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	Anti- Backsliding/ WQBEL
Hexachlorobenzene (39700) Effluent Gross Value	0.00000002 Monthly Average	0.00000002 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	WQBEL
1,3 Dichloropropene (77163) Effluent Gross Value	0.0013 Monthly Average	0.0013 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	WQBEL
3,4 Benzofluoranthene (79531) Effluent Gross Value	0.000001 Monthly Average	0.000001 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	WQBEL
Chloroethane (85811) Effluent Gross Value	0.006 Monthly Average	0.016 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	Anti- Backsliding

DSN 0021: Once-through Non-Contact Cooling Water

Parameter	Quantity o	or Loading	Units	Qı	uality or Concentration	on	Units	Sample Freq	Sample Type	Seasonal	Basis
Temperature, Water Deg. Fahrenheit (00011) Effluent Gross Value	****	****	****	****	****	90 Maximum Daily	deg F	Monthly	Grab	All Months	WQBEL
pH (00400) Effluent Gross Value	****	****	****	6.0 Minimum Daily	****	8.5 Maximum Daily	S.U.	Monthly	Grab	All Months	WQBEL
Flow, In Conduit or Thru Treatment Plant (50050) Effluent Gross Value	(Report) Monthly Average	(Report) Maximum Daily	MGD	****	****	****	****	Monthly	Instantaneo us	All Months	ВРЈ
Chlorine, Total Residual (50060) See notes (1,2) Effluent Gross Value	****	****	****	****	0.011 Monthly Average	0.019 Maximum Daily	mg/l	Monthly	Grab	All Months	WQBEL

$DSN\ 003S:\ Storm\ water\ runoff\ commingled\ with\ air\ conditioner\ condensate\ and\ fire\ testing\ water.$

Parameter	Quantity	or Loading	Units	Q	uality or Concentration	on	Units	Sample Freq	Sample Type	Seasonal	Basis
BOD, 5-Day (20 Deg. C) (00310) Effluent Gross Value	****	****	****	****	****	(Report) Maximum Daily	mg/l	Semi- Annually	Grab	All Months	BPJ
Solids, Total Suspended (00530) Effluent Gross Value	****	****	****	****	****	(Report) Maximum Daily	mg/l	Semi- Annually	Grab	All Months	BPJ
Oil & Grease (00556) Effluent Gross Value	****	****	****	****	****	(Report) Maximum Daily	mg/l	Semi- Annually	Grab	All Months	BPJ
Nitrogen, Total (As N) (00600) Effluent Gross Value	****	****	****	****	****	(Report) Maximum Daily	mg/l	Semi- Annually	Grab	All Months	BPJ
Carbon, Tot Organic (TOC) (00680) Effluent Gross Value	****	****	****	****	****	(Report) Maximum Daily	mg/l	Semi- Annually	Grab	All Months	BPJ
Flow, In Conduit or Thru Treatment Plant (50050) Effluent Gross Value	****	(Report) Maximum Daily	MGD	****	****	****	****	Semi- Annually	Estimate	All Months	ВРЈ

DSN 0041: Treated Process Water, boiler blowdown, steam condensate, demineralizer rinse, non-contact cooling water, cooling tower blowdown, and stormwater discharging to the Conecuh River.

Parameter	Quantity or Loading			Quality or Concentration			Units	Sample Freq	Sample Type	Seasonal	Basis
Oxygen, Dissolved (DO) (00300) Effluent Gross Value	****	****	****	2.0 Minimum Daily	****	****	mg/l	Weekly	Grab	All Months	WQM
pH (00400) Effluent Gross Value	****	****	****	6.0 Minimum Daily	****	8.5 Maximum Daily	S.U.	Weekly	Grab	All Months	WQBEL
Solids, Total Suspended (00530) Effluent Gross Value	4.3 Monthly Average	13.0 Maximum Daily	lbs/day	****	****	****	****	Weekly	Composite	All Months	EGL
Nitrogen, Ammonia Total (As N) (00610) Effluent Gross Value	****	****	****	****	20.0 Monthly Average	30.0 Maximum Daily	mg/l	Weekly	Composite	All Months	WQM
Flow, In Conduit or Thru Treatment Plant (50050) Effluent Gross Value	(Report) Monthly Average	(Report) Maximum Daily	MGD	****	****	****	****	Daily	Totalizer	All Months	BPJ
BOD, Carbonaceous 05 Day, 20C (80082) Effluent Gross Value	3.22 Monthly Average	5.38 Maximum Daily	lbs/day	****	****	****	****	Weekly	Composite	All Months	WQM/ ELG

DSN 004P: Treated Process Water, boiler blowdown, steam condensate, demineralizer rinse, non-contact cooling water, cooling tower blowdown, and stormwater discharging to the Conecuh River.

Parameter	Quantity of	or Loading	Units	Q	uality or Concentra	tion	Units	Sample Freq	Sample Type	Seasonal	Basis
Perfluorooctanoic Acid (51521) Effluent Gross Value	****	****	****	***	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	BPJ
Perfluorobutanoic Acid (51522) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	BPJ
Perfluorooctanesulfonamide (51525) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	BPJ
Perfluoropentanoic Acid (51623) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	BPJ
Perfluorohexanoic Acid (51624) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	BPJ
Perfluoroheptanoic Acid (51625) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	BPJ
Perfluorononanoic acid (51626) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	BPJ
Perfluorodecanoic Acid (51627) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	BPJ
Perfluoroundecanoic Acid (51628) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	BPJ

Parameter	Quantity of	or Loading	Units	Q	uality or Concentration	n	Units	Sample Freq	Sample Type	Seasonal	Basis
Perfluorododecanoic acid (51629) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	ВРЈ
Perfluorotridecanoic Acid (51630) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	ВРЈ
Perfluorotetradecanoic Acid (51631) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	BPJ
N-ethyl perfluorooctanesulfonamidoethanol (51641) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	ВРЈ
N-methyl perfluorooctanesulfonamidoethanol (51642) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	ВРЈ
2-(N-ethyl-PFOSA) acetic acid (51643) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	BPJ
2-(N-methyl-PFOSA) acetic acid (51644) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	BPJ
3-Perfluoroheptyl propanoic acid (PF005) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	ВРЈ
11-Chloroeicosafluoro-3- oxaundecane-1-sulfonic acid (PF004) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	ВРЈ
9-Chlorohexadecafluoro-3- oxanonane-1-sulfonic acid (PF003) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	ВРЈ
Perfluoro-3-methoxypropanoic acid (PF002) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	BPJ
3-Perfluoropropyl propanoic acid (PF001) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	BPJ
N-ethyl perfluorooctanesulfonamide (52642) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	BPJ
N-methyl perfluorooctanesulfonamide (52641) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	BPJ

Parameter	Quantity (or Loading	Units	C	Quality or Concentrat	ion	Units	Sample Freq	Sample Type	Seasonal	Basis
4,8-Dioxa-3H-perfluorononanoic acid (52636) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	BPJ
Perfluorododecanesulfonic acid (52632) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	ВРЈ
Perfluoro(2-ethoxyethane)sulfonic acid (52629) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	BPJ
Nonafluoro-3,6-dioxaheptanoic acid (52626) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	ВРЈ
Perfluorohexanesulfonic acid (52605) Effluent Gross Value	****	****	****	* * * *	also also also also	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	BPJ
Perfluorononanesulfonic acid (52611) Effluent Gross Value	****	***	10 10 10 10 10	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	ВРЈ
Perfluoropentansulfonic acid (52610) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	ВРЈ
IH,1H, 2H, 2H-Perfluorodecane sulfonic acid (52609) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	ВРЈ
1H,1H, 2H, 2H-Perfluorooctane sulfonic acid (52608) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	ВРЈ
1H,1H, 2H, 2H-Perfluorohexane sulfonic acid (52607) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	ВРЈ
Perfluorooctanesulfonic acid (52606) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	ВРЈ
Perfluoro-4-methoxybutanoic acid (PF006) Effluent Gross Value	****	***	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	ВРЈ
Perfluoroheptanesulfonic acid (52604) Effluent Gross Value	***	**********	****	***	***	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	ВРЈ
Perfluorodecanesulfonic acid (52603) Effluent Gross Value	aje aje aje aje aje	ale ale ale ale ale	****	****	भंद भंद भंद भंद भंद	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	ВРЈ
Perfluorobutanesulfonic acid (52602) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	ВРЈ

Parameter	Quantity	or Loading	Units	Quality or Concentration			Units	Sample Freq	Sample Type	Seasonal	Basis
Hexafluoropropylene oxide dimer acid (52612) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	BPJ
2H,2H,3H,3H-Perfluorooctanoic acid (PF007) Effluent Gross Value	****	****	****	****	****	(Report) Single Sample	ng/l	Semi- Annually	Grab	All Months	ВРЈ

DSN 004S: Treated Process Water, boiler blowdown, steam condensate, demineralizer rinse, non-contact cooling water, cooling tower blowdown, and stormwater discharging to the Conecuh River.

Parameter	Quantity	or Loading	Units		Quality or Concentr	ation	Units	Sample Freq	Sample Type	Seasonal	Basis
Toxicity, Ceriodaphnia Acute (61425) Effluent Gross Value	****	0 Single Sample	pass=0;fail=1	****	****	****	****	Twice per Year	Grab	All Months	WQBEL
Toxicity, Pimephales Acute (61427) Effluent Gross Value	****	0 Single Sample	pass=0;fail=1	****	****	****	****	Twice per Year	Grab	All Months	WQBEL

DSN 004Y: Treated Process Water, boiler blowdown, steam condensate, demineralizer rinse, non-contact cooling water, cooling tower blowdown, and stormwater discharging to the Conecuh River.

Parameter	Quantity o	or Loading	Units	Q	uality or Concentration	on	Units	Sample Freq	Sample Type	Seasonal	Basis
Cyanide, Total (As CN) (00720) Effluent Gross Value	***	(Report) Maximum Daily	lbs/day	ale ale ale ale ale	****	****	****	Annually	Grab	All Months	Anti- Backsliding
Chromium, Total (As Cr) (01034) Effluent Gross Value	****	(Report) Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	Anti- Backsliding
Copper, Total (As Cu) (01042) Effluent Gross Value	****	(Report) Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	Anti- Backsliding
Lead, Total (As Pb) (01051) Effluent Gross Value	****	(Report) Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	Anti- Backsliding
Nickel, Total (As Ni) (01067) Effluent Gross Value	****	(Report) Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	Anti- Backsliding
Zinc, Total (As Zn) (01092) Effluent Gross Value	****	(Report) Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	Anti- Backsliding
Carbon Tetrachloride (32102) Effluent Gross Value	0.0080 Monthly Average	0.021 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	Anti- Backsliding
1,2-Dichloroethane (32103) Effluent Gross Value	0.0100 Monthly Average	0.0320 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	Anti- Backsliding
Chloroform (32106) Effluent Gross Value	0.0060 Monthly Average	0.0180 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	Anti- Backsliding
Toluene (34010) Effluent Gross Value	0.0020 Monthly Average	0.0040 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	Anti- Backsliding

Parameter	Quantity of	r Loading	Units	Q	Quality or Concentration	n	Units	Sample Freq	Sample Type	Seasonal	Basis
Benzene (34030) Effluent Gross Value	0.0030 Monthly Average	0.0070 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	Anti- Backsliding
Acenaphthylene (34200) Effluent Gross Value	0.0010 Monthly Average	0.0030 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	Anti- Backsliding
Acenaphthene (34205) Effluent Gross Value	0.0010 Monthly Average	0.0030 Maximum Daily	lbs/day	****	****	****	*****	Annually	Grab	All Months	Anti- Backsliding
Acrylonitrile (34215) Effluent Gross Value	0.0050 Monthly Average	0.0130 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	Anti- Backsliding
Anthracene (34220) Effluent Gross Value	0.0010 Monthly Average	0.0030 Maximum Daily	lbs/day	****	****	****	*****	Annually	Grab	All Months	Anti- Backsliding
Benzo (K) Fluoranthene (34242) Effluent Gross Value	0.0010 Monthly Average	0.0030 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	Anti- Backsliding
Benzo (A) Pyrene (34247) Effluent Gross Value	0.0010 Monthly Average	0.0030 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	Anti- Backsliding
Chlorobenzene (34301) Effluent Gross Value	0.0080 Monthly Average	0.0210 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	Anti- Backsliding
Chrysene (34320) Effluent Gross Value	0.0010 Monthly Average	0.0030 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	Anti- Backsliding
Diethyl Phthalate (34336) Effluent Gross Value	0.0030 Monthly Average	0.0060 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	Anti- Backsliding
Dimethyl Phthalate (34341) Effluent Gross Value	0.0010 Monthly Average	0.0030 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	Anti- Backslidin
Ethylbenzene (34371) Effluent Gross Value	0.0080 Monthly Average	0.0210 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	Anti- Backsliding
Fluoranthene (34376) Effluent Gross Value	0.0010 Monthly Average	0.0030 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	Anti- Backsliding
Fluorene (34381) Effluent Gross Value	0.0010 Monthly Average	0.0030 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	Anti- Backslidin
Hexachlorobutadiene (34391) Effluent Gross Value	0.0080 Monthly Average	0.0210 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	Anti- Backsliding
Hexachloroethane (34396) Effluent Gross Value	0.0110 Monthly Average	0.0440 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	Anti- Backslidin
Methyl Chloride (34418) Effluent Gross Value	0.0060 Monthly Average	0.0160 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	Anti- Backsliding
Methylene Chloride (34423) Effluent Gross Value	0.0020 Monthly Average	0.0090 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	Anti- Backsliding
Nitrobenzene (34447) Effluent Gross Value	0.1240 Monthly Average	0.3560 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	Anti- Backsliding
Phenanthrene (34461) Effluent Gross Value	0.0010 Monthly Average	0.0030 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	Anti- Backslidin
Pyrene (34469) Effluent Gross Value	0.0010 Monthly Average	0.0030 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	Anti- Backslidin
Tetrachloroethylene (34475) Effluent Gross Value	0.0030 Monthly Average	0.0090 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	Anti- Backsliding
1,1-Dichloroethane (34496) Effluent Gross Value	0.0010 Monthly Average	0.0030 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	Anti- Backsliding

Parameter	Quantity of	or Loading	Units	Q	uality or Concentration	on	Units	Sample Freq	Sample Type	Seasonal	Basis
1,1-Dichloroethylene (34501) Effluent Gross Value	0.0010 Monthly Average	0.0030 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	Anti- Backsliding
1,1,1-Trichloroethane (34506) Effluent Gross Value	0.0010 Monthly Average	0.0030 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	Anti- Backsliding
1,1,2-Trichloroethane (34511) Effluent Gross Value	0.0020 Monthly Average	0.0070 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	Anti- Backsliding
Benzo (A) Anthracene (34526) Effluent Gross Value	0.0010 Monthly Average	0.0030 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	Anti- Backsliding
1,2-Dichlorobenzene (34536) Effluent Gross Value	0.0110 Monthly Average	0.0440 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	Anti- Backsliding
1,2-Dichloropropane (34541) Effluent Gross Value	0.0110 Monthly Average	0.0440 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	Anti- Backsliding
1,2-Trans-Dichloroethylene (34546) Effluent Gross Value	Monthly Average	0.0040 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	Anti- Backsliding
1,2,4-Trichlorobenzene (34551) Effluent Gross Value	0.0110 Monthly Average	0.0440 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	Anti- Backsliding
1,3-Dichlorobenzene (34566) Effluent Gross Value	0.0080 Monthly Average	0.0210 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	Anti- Backsliding
1,4-Dichlorobenzene (34571) Effluent Gross Value	0.0080 Monthly Average	0.0210 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	Anti- Backsliding
2-Chlorophenol (34586) Effluent Gross Value	0.0000 Monthly Average	0.0000 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	ELG
2-Nitrophenol (34591) Effluent Gross Value	0.0040 Monthly Average	0.0130 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	Anti- Backsliding
2,4-Dichlorophenol (34601) Effluent Gross Value	0.0000 Monthly Average	0.0000 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	ELG
2,4-Dimethylphenol (34606) Effluent Gross Value	0.0010 Monthly Average	0.0030 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	Anti- Backsliding
2,4-Dinitrotoluene (34611) Effluent Gross Value	0.0000 Monthly Average	0.0000 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	ELG
2,4-Dinitrophenol (34616) Effluent Gross Value	0.0670 Monthly Average	0.2380 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	Anti- Backsliding
2,6-Dinitrotoluene (34626) Effluent Gross Value	0.0000 Monthly Average	0.0000 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	ELG
4-Nitrophenol (34646) Effluent Gross Value	0.0090 Monthly Average	0.0320 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	Anti- Backsliding
4,6-Dinitro-O-Cresol (34657) Effluent Gross Value	0.0040 Monthly Average	0.0150 Maximum Daily	lbs/day	****	16 16 16 16	****	****	Annually	Grab	All Months	Anti- Backsliding
Phenol, Single Compound (34694) Effluent Gross Value	0.0010 Monthly Average	0.0030 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	Anti- Backsliding
Naphthalene (34696) Effluent Gross Value	0.0010 Monthly Average	0.0030 Maximum Daily	lbs/day	****	****	****	****	Annually	Grab	All Months	Anti- Backsliding
Bis (2-Ethylhexyl) Phthalate (39100) Effluent Gross Value	0.0050 Monthly Average	0.0140 Maximum Daily	lbs/day	ale ale ale ale	*******	ate afe afe afe afe	****	Annually	Grab	All Months	Anti- Backsliding

Parameter	Quantity of	or Loading	Units	Qu	ality or Concentration	on	Units	Sample Freq	Sample Type	Seasonal	Basis
Di-N-Butyl Phthalate (39110)	0.0010	0.0020	lbs/day	****	****	****	****	Annually	Grab	All	Anti-
Effluent Gross Value	Monthly Average	Maximum Daily								Months	Backsliding
Vinyl Chloride (39175)	0.0050	0.0100	lbs/day	****	****	****	****	Annually	Grab	All	Anti-
Effluent Gross Value	Monthly Average	Maximum Daily	105/day					Aillidally	Grao	Months	Backsliding
Trichloroethylene (39180)	0.0010	0.0040	lbs/day	****	****	****	****	Annually	Grab	All	Anti-
Effluent Gross Value	Monthly Average	Maximum Daily	105/uay					Ailliually	Giab	Months	Backsliding
Hexachlorobenzene (39700)	0.0017	0.0017	lbs/day	****	****	****	****	Annually	Grab	All	Anti-
Effluent Gross Value	Monthly Average	Maximum Daily	lbs/day					Aillually	Grab	Months	Backsliding
1,3 Dichloropropene (77163)	0.0110	0.0440	lbs/day	****	****	****	****	Annually	Grab	All	Anti-
Effluent Gross Value	Monthly Average	Maximum Daily	105/Qay					Aillidally	Glab	Months	Backsliding
3.4 Benzofluoranthene (79531)	0.0010	0.0030	lbs/day	****	****	****	****	Annually	Grab	All	Anti-
Effluent Gross Value	Monthly Average	Maximum Daily	ibs/day	*****				Annuarry	Glab	Months	Backsliding
Chloroethane (85811)	0.0060	0.0160	1ha/dan	****	****	****	****	Annually	Grab	All	Anti-
Effluent Gross Value	Monthly Average	Maximum Daily	lbs/day	*****			1	Aimuany	Grab	Months	Backsliding

*Basis for Permit Limitation

- BPJ Best Professional Judgment
- WQBEL Water Quality Based Effluent Limits
- Anti-backsliding Anti-backsliding
- EGL Federal Effluent Guideline Limitations
- WQM Waste Load Allocation Quality Modeling

Discussion

The parameters of concern for this facility are based on the parameters of concern listed in the permit application, the current permit, federal effluent guideline limitations, and based upon best professional judgment (BPJ). These parameters are consistent with similar facilities in the state and have been proven to be reflective of the operations at this facility. The proposed frequencies are based on a review of site specific conditions and an evaluation of similar facilities.

<u>DSN001</u>- Treated process wastewater, boiler blowdown, steam condensate, demineralizer rinse, non-contact cooling water, cooling tower blowdown, and stormwater discharging to an U.T. to Prestwood Creek.

Federal Effluent Guideline Limitations (EGL)

Parameters based upon EGL have had effluent guidelines established under 40 CFR 414.51 (Subpart E – Thermosetting Resins), 414.61 (Subpart F – Commodity Organic Chemicals), and 414.101 (Subpart J – Direct Discharge Point Sources That Do Not Use End-of-Pipe Biological Treatment).

OCPSF Guideline Parameters

Attached to this rationale are the OCPSF calculations for the discharge to a UT to Prestwood Creek, which show the calculations of the guideline-based OCPSF parameters and their comparisons to the calculated water quality-based parameters. The parameters for this facility are specifically based on 40 CFR 414.51 (Subpart E – Thermosetting Resins), 414.61 (Subpart F – Commodity Organic Chemicals), and 414.101 (Subpart J – Direct Discharge Point Sources That Do Not Use End-of-Pipe Biological Treatment).

In cases where the water quality human health standards are more stringent than effluent guidelines, the limitation shall be applied as both the daily maximum and monthly average based on Best Professional Judgment (BPJ). In cases where the previous permit limits are more stringent, they remain unchanged as a continuation of the existing limitations due to Anti-backsliding. All metals requirements will continue at annual monitoring because the facility does not have a metal-bearing waste stream and there was no reasonable potential for these metals to be present.

CBOD, TSS, Ammonia as Nitrogen, and Dissolved Oxygen

The following is a summary of the existing mass limits, OCPSF guideline-based, and recommended effluent limitations from the May, 2007 waste load allocation (see attached) from a water quality model performed by the ADEM Water Quality Section. The permit limitations shall be based on the more stringent of the existing limits, waste load allocation, and the updated OCPSF guideline-based calculations. Existing limitations for TSS, Ammonia as Nitrogen, and Dissolved Oxygen will continue in this reissuance due to Anti-backsliding. The waste load allocation limit is most stringent for CBOD, the proposed limits are a Daily Max of 4.03 ppd and a Monthly Avg of 2.69 ppd.

Damamatan	200	7 Waste Load Allocati	on	Existing Mass Limit				
Parameter	Daily Min (mg/L)	Daily Max (mg/L)	Monthly Avg (mg/L)	Monthly Avg (ppd)	Daily Max (ppd)			
BOD	-	37.5	25.0	7.36	3.31			
NH3-N	-	3.3	2.2	-				
DO	5.5	-	-	-				
TSS	_	-	-	8.66	3.48			

^{*}The daily maximums for BOD and Ammonia as Nitrogen were calculated by multiplying the monthly average by 1.5 based on BPJ.

	2007 Wa	ste Load Al	location	OCPSI	ELG	2007 W	aste Load	Allocation	OCPSF ELG		
Parameter	Daily Min (mg/L)	Daily Max (mg/L)	Monthly Avg (mg/L)	Daily Max (mg/L)	Monthly Avg (mg/L)	Daily Min (ppd)	Daily Max (ppd)	Monthly Avg (ppd)	Monthly Avg (ppd)	Daily Max (ppd)	
CBOD	-	37.5	25	80	30	-	4.03	2.69	8.59	3.22	

NH3-N	_	3.3	2.2	_	_		0.35	0.24	_	_
DO	5.5	-	-	_	-	0.59	-	-	-	-
TSS	-	_	-	149	46	-	-	_	16.00	4.94
				*Avg flow:	12871	gal	convers	sion factor:	8.345E-06	lb/gal/mg/L

Water Quality Based Effluent Limits (WQBEL)

pН

ADEM Administrative Code, Division 6 Regulations, specifically 335-6-10-.09(5)(e)(2) – Specific Water Quality for Fish & Wildlife classified streams states: "Sewage, industrial waste or other wastes shall not cause the pH to deviate more than one unit from then normal or natural pH, nor be less than 6.0, nor greater than 8.5 standard units." Therefore, weekly pH monitoring is required for this outfall and shall not deviate from a range of 6.0 to 8.5 s.u.

Chlorine, Total Residual

EPA's recommended water quality criteria for total residual chlorine (TRC) of 0.019 mg/l for acute toxicity and 0.011 for chronic toxicity is being required as the daily maximum and monthly average values for this discharge. In-stream standard compliance for total residual chlorine is required because of the high flow of the discharge compared to the receiving stream $7Q_{10}$ of 0.0 cfs. In accordance with a letter dated August 11, 1998 from EPA Headquarters and a 1991 memorandum from EPA Region 4's Environmental Services Division (ESD), due to testing and method detection limitations, a Total Residual Chlorine measurement below 0.05 mg/L shall be considered below detection for compliance purposes. Monitoring is proposed to continue at once per month.

Reasonable Potential Analysis

The Department completed a reasonable potential analysis (RPA) (see attached) of the discharge based on laboratory data provided in the Permittee's application. The RPA indicates whether pollutants in treated effluent have the potential to contribute to excursions of Alabama's in-stream water quality standards. Based on the analytical data submitted by the facility, it appears that there is a reasonable potential and resulting limitation for Total Recoverable Arsenic, Total Recoverable Copper, and Bromoform for the discharge to the Unnamed Tributary to Prestwood Creek.

Lead, and Zinc

Total recoverable lead and total recoverable zinc, it appears there is no reasonable potential, however since these metals are present in the analytical data, monitoring requirement is being proposed for this reissuance.

Chronic Toxicity Biomonitoring

In view of the potential toxicity of the wastewater from synergistic effects, Chronic Toxicity Biomonitoring is required for this discharge. The Chronic test is appropriate in consideration of the F&W stream classification and because the effluent flow is more than 1% of the 7Q10 of the receiving stream with no diffuser. Testing will be conducted at an In-Stream Waste Concentration (IWC) of 100 %. The IWC was determined using an assumed complete mix because the receiving stream 7Q10 is 0.0 cfs. The monitoring frequency is proposed to continue at once per six months.

Best Professional Judgment (BPJ)

The parameters of concern developed on BPJ for this facility are based on the parameters of concern listed in the permit application and from the current permit. These parameters are consistent with similar facilities in the state and have been proven to be reflective of the operations at this facility.

Flow

Flow monitoring shall continue at monthly instantaneous readings with no limitations imposed.

DSN002- Once-through Non-Contact Cooling Water

Best Professional Judgment (BPJ)

The parameters of concern developed on BPJ for this facility are based on the parameters of concern listed in the permit application and from the current permit. These parameters are consistent with similar facilities in the state and have been proven to be reflective of the operations at this facility.

Flow

Flow monitoring shall continue at monthly instantaneous readings with no limitations imposed.

Water Quality Based Effluent Limits (WQBEL)

pH

ADEM Administrative Code, Division 6 Regulations, specifically 335-6-10-.09(5)(e)(2) – Specific Water Quality for Fish & Wildlife classified streams states: "Sewage, industrial waste or other wastes shall not cause the pH to deviate more than one unit from then normal or natural pH, nor be less than 6.0, nor greater than 8.5 standard units." Therefore, weekly pH monitoring is required for this outfall and shall not deviate from a range of 6.0 to 8.5 s.u.

Temperature

The <u>ADEM Administrative Code</u>, <u>Division 6 Regulations</u>, specifically <u>335-6-10-.09(4)(e)3(i)-Specific Water Quality Criteria</u> for Fish & Wildlife classified streams states: "The maximum temperature in streams, lakes and reservoirs other than those listed in subparagraph (ii) hereof, shall not exceed 90°F. Therefore, temperature limitations are proposed at 90°F for this outfall.

Chlorine, Total Residual

EPA's recommended water quality criteria for total residual chlorine of 0.019 mg/l for acute toxicity and 0.011 for chronic toxicity is being used as the daily maximum and monthly average values for discharges into zero flow streams. In accordance with a letter dated August 11, 1998 from EPA Headquarters and a 1991 memorandum from EPA Region 4's Environmental Services Division (ESD), due to testing and method detection limitations, a Total Residual Chlorine measurement below 0.05 mg/L shall be considered below detection for compliance purposes.

<u>DSN003</u>-Stormwater runoff commingled with air conditioner condensate and fire testing water.

Best Professional Judgment (BPJ)

The parameters of concern developed on BPJ for this facility are based on the parameters of concern listed in the permit application and from the current permit. These parameters are consistent with similar facilities in the state and have been proven to be reflective of the operations at this facility.

Flow

Flow monitoring shall be at semi-annual estimated readings with no limitations imposed.

Additional Parameters

Total Suspended Solids (TSS), total nitrogen, total organic carbon, oil and grease, and BOD shall be monitored on a semi-annual basis as a measure of BMP effectiveness.

Best Management Practices (BMPs) are believed to be the most effective way to control the contamination of stormwater from areas of industrial activities. This facility is required to maintain a BMP plan. The requirements of the BMP plan call for minimization of stormwater contact with waste materials, products and by-products, and for prevention of spills or loss of fluids from equipment maintenance activities. The effectiveness of the BMPs will be measured through the monitoring of the pollutants of concern.

<u>DSN004</u>- Treated process wastewater, boiler blowdown, steam condensate, demineralizer rinse, non-contact cooling water, cooling tower blowdown, and stormwater discharging to the Conecuh River.

Federal Effluent Guideline Limitations (EGL)

Parameters based upon EGL have had effluent guidelines established under 40 CFR 414.51 (Subpart E – Thermosetting Resins), 414.61 (Subpart F – Commodity Organic Chemicals), and 414.101 (Subpart J – Direct Discharge Point Sources That Do Not Use End-of-Pipe Biological Treatment).

OCPSF Guideline Parameters

Attached to this rationale are the OCPSF calculations for the discharge to the Conecuh River which shows the calculations of the guideline-based OCPSF parameters and their comparisons to the calculated water quality based parameters. The parameters for this facility are specifically based on 40 CFR 414.51 (Subpart E – Thermosetting Resins), 414.61 (Subpart F – Commodity Organic Chemicals), and 414.101 (Subpart J – Direct Discharge Point Sources That Do Not Use End-of-Pipe Biological Treatment).

Upon comparison with the previous permit limits, the previous permit limits are more stringent. Therefore, the existing permit limits for OCPSF guideline parameters will be continued in this re-issuance due to Anti-backsliding. All metals requirements will continue at annual monitoring because the facility does not have a metal-bearing waste stream and there was no reasonable potential for these metals present.

2-Chlorophenol, 2,4-Dichlorophenol, 2,4-Dinitrotoluene, 2,6-Dinitrotoluene

Upon comparing the OCPSF spreadsheet with the existing permit's OCPSF parameters, it was noted that the parameters for 2-Chlorophenol, 2,4-Dinitrotoluene, and 2,6-Dinitrotoluene were missing. Therefore, they have been added in this reissuance. However, unlike other OCPSF parameters, these were not included in the previous permit limit, so they could not be applied under the anti-backsliding, therefore, the permit limit was set based on the newly calculated OCPSF limit.

CBOD, Ammonia as Nitrogen, and Dissolved Oxygen

The following is a summary of the existing mass limits, OCPSF guideline-based, and recommended effluent limitations from the November, 2023 waste load allocation (see attached) from a water quality model performed by the ADEM Water Quality Section. The permit limitations shall be based on the more stringent of the existing limits, waste load allocation, and the updated OCPSF guideline-based calculations. Existing limitations for TSS, Ammonia as Nitrogen, and Dissolved Oxygen will continue in this reissuance due to Anti-backsliding. The waste load allocation sets a stringent Daily Max limit for CBOD at 5.38 ppd. The OCPSF guideline-based calculation proposes a Monthly Avg limit for CBOD, which is most stringent at 3.22 ppd.

Dammeton	Existing L	imit (2012 Waste Load Alle	ocation)	Existing Mass Limit			
Parameter	Daily Min (mg/L)	Daily Max (mg/L)	Monthly Avg (mg/L)	Monthly Avg (ppd)	Daily Max (ppd)		
CBOD	-	37.5	25	7.81	3.89		
NH3-N	-	30	20	-	-		
DO	2	-	-	-	-		
TSS	_	-	-	13.0	4.32		

Parameter CBOD NH3-N	New W	New Waste Load Allocation			ELG	New Was	ste Load Al	location	OCPSF ELG		
	Daily Min (mg/L)	Daily Max (mg/L)	Monthly Avg (mg/L)	Daily Max (mg/L)	Monthly Avg (mg/L)	Daily Min (ppd)	Daily Max (ppd)	Monthly Avg (ppd)	Monthly Avg (ppd)	Daily Max (ppd)	
CBOD	-	50.1	33.4	80	30	-	5.38	3.59	8.59	3.22	
NH3-N	-	30	20	-	-	-	3.22	2.15	-	-	

DO	2	_		_	_	0.21	_	-	_	_
TSS	_	-	-	149	46	-	_	-	16.00	4.94
				*Avg flow:	12871	gal	conversion fa	ictor:	8.345E-06	lb/gal/mg/L

Water Quality Based Effluent Limits (WQBEL)

<u>pH</u>

ADEM Administrative Code, Division 6 Regulations, specifically 335-6-10-.09(5)(e)(2) – Specific Water Quality for Fish & Wildlife classified streams states: "Sewage, industrial waste or other wastes shall not cause the pH to deviate more than one unit from then normal or natural pH, nor be less than 6.0, nor greater than 8.5 standard units." Therefore, weekly pH monitoring is required for this outfall and shall not deviate from a range of 6.0 to 8.5 s.u.

Acute Toxicity Biomonitoring

The receiving stream for DSN004 is the Conecuh River. In view of the increased dilution, acute toxicity will be required at this outfall. In view of the potential toxicity of the wastewater from synergistic effects, 48-hr acute biomonitoring at this facility shall occur once per six months with a 10% mortality limitation. The Acute test is appropriate in consideration of the F&W stream classification and because the effluent flow is less than 1% of the 7Q10 of the receiving stream. Testing will be conducted using undiluted effluent which is consistent with other facilities with no diffuser.

Reasonable Potential Analysis

The Department completed a reasonable potential analysis (RPA) of the discharge based on laboratory data provided in the Permittee's application (see attached). The RPA indicates whether pollutants in treated effluent have the potential to contribute to excursions of Alabama's in-stream water quality standards. Based on the analytical data submitted by the facility, it appears that there is no reasonable potential for the discharge to the Conecuh River

316(b) Cooling Water Intake Structure

The Department has determined that the entity providing water to the Permittee is a public water system in accordance with Section 1401 of the Safe Drinking Water Act; therefore, the Permittee is exempt from the requirements of Section 316(b) of the federal Clean Water Act (33 U.S.C. section 1326) and rules adopted under this section.

Per- and Polyfluoroalkyl Substances (PFAS)

Based upon the Department's review of this facility the Department has determined that it is appropriate to include PFAS monitoring in the permit to obtain more comprehensive monitoring information on potential sources of PFAS. EPA has indicated that they are developing effluent guidelines, analytical methods, and establishing recommended water quality criteria for PFAS.

Unless indicated by other information, the Department has determined that it is appropriate to establish PFAS monitoring on process discharges from the following industry sectors: organic chemicals, plastics & synthetic fibers (OCPSF); metal finishing; electroplating; electric and electronic components; landfills which require an NPDES or SID permit; leather tanning & finishing; plastics molding & forming; textile mills; paint formulating, and centralized waste treatment units.

	$Q_d*C_d+Q_{d2}*$	$C_{d2} + C$	∑ _s *C	s = Qr*C		M. Administration of the	-	Enter Hax Daily Discharge as	Daily Discharge as	Partition Coefficien
ID	Pollutant	Carcinogen "yes"	Type	from upstreams source (C _{d2})	flacinground from upstraum source (C _{d2})	Instruent (C _s) Daily	Background Instream (C _s)	reported by Applicant	reported by Applicant	(Stream)
_				Daily Marc	Honthir Ave.	Mair	Hentity Ave	(Cd) Mex	(C _d) Ave	
1 2	Antimony Arsenic*,**	YES	Metals Metals	0	0		9	41.2	0 41.2	0.574
3	Berylium	163	Metals	0	0	0	0	0	0	-
	Cadmium** Chromium / Chromium III**		Metals Metals	0	0	0	0	0 15	0	0.236
6	Chromium / Chromium VI** Copper**		Metals Metals	0	0	13	0	0 28.7	0 28.7	0.388
8	Lead**		Metals	0	0	0.	0	0	0	0.206
9	Mercury** Nickel**		Metals Metals	0	0	0	0	0	0	0.302
	Selenium Silver	-	Metals Metals	0	0	0	0	0	0	1
13	Thallium		Metals	0	0	0	.0	0	0	
	Zinc** Cyanide		Metals Metals	0	0	0	0	24	24	0.330
16 17	Total Phenolic Compounds Hardness (As CaCO3)		Metals Metals	0	0	0	0	0	0	:
18	Acrolein		VOC	0	0	0	0	0	0	
19 20	Acrylonitrile* Aldrin	YES YES	VOC	0	0	0	0	0	0	
21	Benzene* Bromoform*	YES	VOC	0	0	0	0	0 17.6	17.6	- 1
23	Carbon Tetrachloride*	YES	VOC	0	0	0	0	0	0	-
	Chlordane Clorobenzene	YES	VOC	0	0	0		0	0	1
26 27	Chlorodibromo-Methane* Chloroethane	YES	VOC	0	0	0		1.1	0	-
28	2-Chloro-Ethylvinyl Ether ChloroForm*	YES	VOC	0	0	0	0	0	0	-
30	4.4'-DDD	YES	VOC	0	0	0	. 0	0	0	-
31 32	4,4'-DDE 4.4'-DDT	YES	VOC	0	0	0	0	0	0	:
33	Dichtorobromo-Methane* 1, 1-Dichtoroethane	YES	VOC	0	0	. 0	0	0	0	:
35	1, 2-Dichloroethane*	YES	VOC	0	0	0	2	0	0	
36	Trans-1, 2-Dichloro-Ethylene 1, 1-Dichloroethylene*	YES	VOC	0	0	5 6	0	0	0	:
38	1, 2-Dichloropropane		VOC	0	0	0	0	0	0	-
10	1, 3-Dichloro-Propylene Dieldrin	YES	VOC	0	0	n n	a	0	0	1
12	Ethylbenzene Methyl Bromide		VOC	0	0	*	0	0	0	:
13	Methyl Chloride Methylene Chloride*	YES	VOC	0	0		Q:	0	0	-
14	1, 1, 2, 2-Tetrachloro-Ethane*	YES	VOC	0	0	0	-0	0	0	-
46 47	Tetrachloro-Ethylene* Toluene	YES	VOC	0	0	0	0.	0	0	-
48	Toxaphene	YES	VOC	0	0	0	0	0	0	-
	1, 1, 1-Trichloroethane	YES	VOC	0	0	0	. 0	0	0	
51	1, 1, 2-Trichloroethane* Trichlorethylene*	YES	VOC	0	0	0	0	0	0	1
53	Vinyl Chloride*	YES	VOC	0	0	0	0	0	0	-
54	P-Chloro-M-Cresol 2-Chlorophenol		Acids Acids	0	0	0		0	0	
56 57	2, 4-Dichlorophenol 2, 4-Dirmethylphenol		Acids Acids	0	0	Δ	9	0	0	:
58	4, 6-Dinitro-O-Cresol		Acids	0	0	0	0	0	0	-
59 60	2, 4-Dinitrophenoi 4,6-Dintro-2-methylophenoi	YES	Acids Acids	0	0	20	0	0	0	-
51	Diexin (2,3,7,8-TCDD) 2-Nitrophenol	YES	Acids Acids	0	0	9	0	0	0	:
63	4-Nitrophenol		Acids	0	0	-	0	0	0	
64 65	Pentachiorophonol* Phenol	YES	Acids Acids	0	0	0	9	0	0	:
	2, 4, 6-Trichlorophenol*	YES	Acids Bases	0	0	0	0	0	0	-
68	Acenaphthene Acenaphthylene		Bases	0	0	. 0	. 0	0	0	
69 70	Anthracene Benzidine		Bases Bases	0	0	8	0	0	0	
71	Benzo(A)Anthracene*	YES	Bases	0	0	0	. 0	0	0	-
	3, 4 Benzo-Fluoranthene	YES	Bases Bases	0	0	0	0	0	0	-
74	Benzo(GHI)Perylene Benzo(K)Fluoranthene		Bases Bases	0	0	0	0	0	0	
	Bis (2-Chloroethoxy) Methane Bis (2-Chloroethyl)-Ether*	YES	Bases Bases	0	0	0		0	0	
	Bis (2-Chloroiso-Propyl) Ether	TES	Bases	0	0	0	0	0	o	
79 R0	Bis (2-Ethylhexyl) Phthalate* 4-Bromophenyl Phenyl Ether	YES	Bases Bases	0	0	0	0	0	0	1
81	Butyl Benzyl Phthalate		Bases	0	0	0	0	0	0	-
83			Bases Bases	0	0	-fi	0	0	0	:
	Chrysene* Di-N-Butyl Phthalate	YES	Bases	0	0	0	0	0	0	
86	Di-N-Octyl Phthalate	YES	Bases Bases	0	0	0	0	0	0	
88	Dibenzo(A,H)Anthracene* 1, 2-Dichlorobenzene	TES	Bases	0	0	9	0	0	0	
89			Bases Bases	0	0	.0	0	0	0	
91	3, 3-Dichlorobenzidine* Diethyl Phthalata	YES	Bases Bases	0	0	. 0	0	0	0	:
93	Dimethyl Phthalate		Bases	0	0	- 0	¥	0	0	-
94	2, 4-Dinitrotoluene* 2, 6-Dinitrotoluene	YES	Bases Bases	0	0	0	-	0	0	1
96	1,2-Diphenylhydrazine	um	Bases	0	0	0		0	0	1
98	Endosulfan (alpha) Endosulfan (beta)	YES YES	Bases Bases	0	0	O	.0	0	0	
99	Endossifan sulfate Endrin	YES	Bases Bases	0	0	3	8.	0	0	:
01	Endrin Aldeyhide	YES	Bases	0	0			0	0	:
	Fluoranthene Fluorene		Bases Bases	0	0		0	0	0	-
	Heptochlor Heptachlor Epoxide	YES	Bases Bases	0	0	0	1	0	0	:
06	Hexachlorobenzene*	YES	Bases	0	0	- 2	D	0	0	:
	Hexachiorobutadiene* Hexachiorocyclohexan (alpa)	YES	Bases Bases	0	0	0		0	0	٠.
09		YES YES	Bases Bases	0	0		0	0	0	
11	HexachlorocycloPentadiene	10	Bases	0	0	. 0		0	0	
	Hexachloroethane Indeno(1, 2, 3-CK)Pyrene*	YES	Bases Bases	0	0		4	0	0	1
14	Isophorone		Bases	0	0		- 4	0	0	
16	Naphthalene Nitrobenzene		Bases Bases	0	0	7	0	0	0	:
17	N-Nitrosodi-N-Propylamine*	YES YES	Bases	0	0		6	0	0	:
15	N-Nitrosodi-N-Methylamine* N-Nitrosodi-N-Phenylamine*	YES	Bases	0	0	-	-9	0	0	
120	PCB-1016 PCB-1221	YES YES	Bases Bases	0	0	1		0	0	
127	PCB-1232	YES	Bases		0	9	0	0	0	1
124	PCB-1242 PCB-1248	YES	Bases Bases	0	0		0	0	0	
	PCB-1254	YES	Bases Bases	0	0		0	0	0	
	Phenanthrene		Bases		0	1	0	0	0	-

0.014	Enter Q _d = westewater discharge flow from facility (MGD)
0.02166121	Q _{eff} = wastewater discharge flow (cfs) (this value is caluciated from the MGD)
0	Enter flow from upstream discharge Qd2 = beckground stream flow in MGD above point of discharge
0	Qd2 = background stream flow from upstream source (cfs)
0.0000.0	Enter 7Q10, Q ₄ = background stream flow in cfs above point of discharge
0.0000	Enter or estimated, 1Q10, Q _e = background stream flow in cfs above point of discharge (1Q10 estimated at 75% of 7Q10)
0,0000	Enter Mean Annual Flow, Q _a = background stream flow in cfs above point of discharge
00.0	Enter 7Q2, Q ₄ = background stream flow in cfs above point of discharge (For LWF class streams)
Entertis Late	Enter C _a = background in-stream pollutant concentration in µg/l (assuming this is zero "0" unless there is data)
Q ₄ +Qd2+Q ₆	Q, = resultant in-stream flow, after discharge
Calculated on other	C, = resultant in-stream pollutant concentration in µg/l in the stream (after complete mixing occurs)
50,00	Enter, Background Hardness above point of discharge (assumed 50 South of Birmingham and 100 North of Birmingham)
7.00 s.u.	Enter, Background pH above point of discharge
YES	Enter, is discharge to a stream? "YES" Other option would be to a Lake. (This changes the partition coefficients for the metals)

** Using Partition Coefficients

March 26, 2024

3.74E-05 3.74E-05 2.33E+03 4.09E+01

4.67E+02

OCPSF PERMIT LIMITS CALCULATIONS

FACILITY NAME:

Arclin, Inc.

Prepared By: Victoria Kim

Prepared Date: November 17, 2023

LOCATION:

Andalusia

NPDES NUMBER: AL0000868 (Outfall DSN001)

IS THIS A RAYON MANUFACTI	URING FACILITY THAT	USES THE VISCOSE	PROCESS O	PR
AN ACRYLIC MANUFACTURE	R THAT USES THE ZINC	CHLORIDE/SOLVE	NT PROCESS	S (YES =0, NO =1)
DOES THIS FACILITY USE END	O-OF-PIPE BIOLOGICAL	TREATMENT (SUBP	ART I) (YES	=0, NO =1)
OCPSF PRODUCT	SIC CODE	ANNUAL PROD. MILLION LBS/YR	PROCESS WASTE FLOW MGD	
Subpart B Rayon Fibers		0	0	1
Subpart C Other Fibers		0	0	
Subpart D Thermoplastic Resins		0	0	
Subpart E Thermosetting Resins	2821	215.35	0.001677	
Subpart F Commodity Organic Ch	emic 2869	51.1	0.007752	
Subpart G Bulk Organic		0	0	
Subpart H Specialty Organic		0	0]
OCPSF RELATED FLOWS	TOTAL	266.45	0.009429	
FLOW FROM OTHER SOURCES	G (e.g. POTWs)		0	MGD
TOTAL FLOW FROM PROCESS,	, NON-PROCESS AND O	THER SOURCES	0.012871	MGD
RECEIVING STREAM IQI0			0	CFS
RECEIVING STREAM 7Q10			0	CFS
RECEIVING STREAM ANNUAL	-AVERAGE FLOW		0	CFS
METAL-BEARING WASTE STRI	EAM VOLUME		0	MGD
CYANIDE-BEARING WASTE ST	TREAM VOLUME		0	MGD

	Non-		Additional All	owance	
	OCPSF	BOD5		TSS	
	Flow	(MG/L)		(MG/L)	
Description	(MGD)	Max.	Avg.	Max.	Avg
Utility	0.0034	20	10	20	10
Sanitary	0.0000	45	30	60	30
	0.0000				
Total	0.0034				

40 CFR 414 Subpart	OCPSF	Annual	Subtotal	Subcat		Subcate	egory Limits			Calc	ulated Lim	its
	Product	Production		Proportio		BOD5		TSS		BOD5		TSS
		(Million lbs/year)			Max.	Avg.	Max.	Avg.	Max.	Avg.	Max.	Avg.
B Rayon Fibers		U	0	U	64	24	130	40	υ	U	U	U
C Other Fibers		υ	U	υ	48	18	115	36	υ	U	U	υ
D Thermoplastic Resins		U	U	U	64	24	130	40	υ	U	U	O
E Thermosetting Resins		215	215.35	0.808219	163	61	216	67	131.74	49.30	174.6	54.15
F Commodity Organic Chemic	als	51	51.1	0.191781	80	30	149	46	15.34	5.75	28.58	8.82
G Bulk Organic		0	U	U	92	34	159	49	U	U	U	O
H Specialty Organic		U	U	U	120	45	183	57	U	U	U	O
		TOTAL =	266.45									

	В	OD5		SS
	Max.	Avg.	Max.	Avg.
Process Total (mg/l)	147.1	55.1	203.2	63.0
Process Total (lb/day)	11.6	4.3	16.0	5.0
Non-process total (lb/day)	0.574	0.287	0.5/4	0.287
Final Mass Limits (lb/day)	12.1	4.6	16.5	5.2

BAT Limits are based on 40 CFR 414 Subpart

requirements

PARAMETER	LIMITS		MASS LIN	IIT	ACUTE	CHRONIC	HUMAN HE.	ALTH
	UG/L		LBS/D			LBS/D	Fish	Water
	MAX.	AVG.	MAX.	AVG.			Consumption	Consumption
Acenaphthene	47	19	0,0037	0.0015			0.062100	0.048687
Acenaphthylene	47	19	0.0037	0.0015			0.002100	0.040007
Acrylonitrile*	232	94	0.0182	0.0074			0.000015	0.000005
Anthracene	47	19	0.0037	0.0015			2.504339	0.777320
Benzene *	134	57	0.0105	0.0045			0.001661	0.000120
Benzo(a)anthracene*	47	19	0.0037	0.0015			0.000001	0.000000
3,4-Benzofluoranthene*	48	20	0.0038	0.0016			0.000001	0.000000
Benzo(k)fluoranthene*	47	19	0.0037	0.0015			0.000001	0.000000
Benzo(a)pyrene*	48	20	0.0038	0.0016			0.000001	0.000000
Bis(2-ethylhexyl) phthalate	258	95	0.0203	0.0075			0.000138	0.000091
Carbon Tetrachloride *	380	142	0.0299	0.0112			0.000103	0.000023
Chlorobenzene	380	142	0.0299	0.0112			0.097270	0.013017
Chloroethane	295	110	0.0232	0.0087				
Chloroform *	325	111	0.0256	0.0087			0.010949	0.000583
2-Chlorophenol	0	0	0.0000	0.0000			0.009346	0.006241
Chrysene*	47	19	0.0037	0.0015			0.000001	0.000000
Di-n-Butyl phthalate	43	20	0.0034	0.0016			0.281427	0.160901
1,2-Dichlorobenzene	794	196	0.0624	0.0154			0.081087	0.036874
1,3-Dichlorobenzene	380	142	0.0299	0.0112			0.060365	0.027451
1,4-Dichlorobenzene	380	142	0.0299	0.0112			0.012073	0.005490
1,1-Dichloroethane	59	22	0.0046	0.0017				
1,2-Dichloroethane *	574	180	0.0451	0.0142			0.002294	0.000041
1,1-Dichloroethylene *	60	22	0.0047	0.0017			0.447267	0.034659
1,2-trans-Dichloroethylene	66	25	0.0052	0.0020			0.634100	0.014680

2,4-Dichlorophenol	0	0	0.0000	0.0000			1846.212	0.006999
1,2-Dichloropropane	794	196	0.0624	0.0154			0.000912	0.000053
1,3-Dichloropropylene	794	196	0.0624	0.0154			0.001318	0.000037
PARAMETER	LIMITS		MASS LIMI	Т	ACUTE	CHRONIC	HUMAN HEA	LTH
	UG/L		LBS/D			LBS/D	Fish	Water
I	MAX.	AVG.	MAX.	AVG.			Consumption	Consumption
Diethyl phthalate	113	46	0.0089	0.0036			2.7449	1.4347
2,4-Dimethylphenol	47	19	0.0037	0.0015			0.0534	0.0312
Dimethyl phthalate	47	19	0.0037	0.0015			69.5749	24.3963
4,6-Dinitro-o-cresol**	277	78	0.0218	0.0061			0.0177	0.0014
2,4-Dinitophenol	4291	1207	0.3374	0.0949			0.3340	0.0073
2,4-Dinitotoluene*	0	0	0.0000	0.0000			0.0002	0.0000
2,6-Dinitotoluene	0	0	0.0000	0.0000				
Ethylbenzene	380	142	0.0299	0.0112			0.1336	0.0481
Fluoranthene	54	22	0.0042	0.0017			0.0087	0.0082
Fluorene	47	19	0.0037	0.0015			0.3340	0.1036
Hexachlorobenzene *	794	196	0.0624	0.0154			0.00000002	0.00000002
Hexachlorobutadiene *	380	142	0.0299	0.0112			0.0012	0.0000
Hexachloroethane *	794	196	0.0624	0.0154			0.0002	0.0001
Methyl Chloride*	295	110	0.0232	0.0087				
Methylene Chloride*	170	36	0.0134	0.0028			0.0371	0.0005
Naphthalene	47	19	0.0037	0.0015				
Nitrobenzene	6402	2237	0.5034	0.1759			0.0433	0.0018
2-Nitrophenol	231	65	0.0182	0.0051				
4-Nitrophenol	576	162	0.0453	0.0127				
Phenanthrene	47	19	0.0037	0.0015				
Phenol	47	19	0.0037	0.0015			53.6721	1.1039
Pyrene	48	20	0.0038	0.0016			0.2505	0.0777
Tetrachloroethylene *	164	52	0.0129	0.0041			0.0002	0.0001
Toluene	74	28	0.0058	0.0022			0.9363	0.1295
Total Chromium	2770	1110	0.0000	0.0000	0.1651	0.0215		
Total Copper	3380	1450	0.0000	0.0000	0.0019	0.0014		
Total Cyanide	1200	420	0.0000	0.0000	0.0024	0.0006	1.0019	0.0148
Total Lead	690	320	0.0000	0.0000	0.0069	0.0001		
Total Nickel	3980	1690	0.0000	0.0000	0.0554	0.0062	0.1066	0.0441
Total Zinc	2610	1050	0.0000	0.0000	0.0212	0.0214	1.5987	0.6611
1,2,4-Trichlorobenzene	794	196	0.0624	0.0154			0.0044	0.0028
1,1,1-Trichloroethane	59	22	0.0046	0.0017				
1,1,2-Trichloroethane *	127	32	0.0100	0.0025			0.0010	0.0001
Trichloroethylene *	69	26	0.0054	0.0020			0.0019	0.0003
Vinyl Chloride *	172	97	0.0135	0.0076			0.0002	0.0000
* DESIGNATES CARCINOGE	NIC COMPOUNDS		Metal acute ar	nd chronic calculation	ons are based on a ha	rdness of 50 n	ng/l as CaCO3	
' SAME AS 4,6-DINITRO-2-M	ETHYLPHENOL							

Comments included ✓ Yes □ No	General Info	rmation	Information Verified By	CB Page 1					
Receiving Stream Name	Prestwood C	creek UT	Year Fi	le Was Created 1985					
Previous File Name			OR: Local Name (If appl						
Facility Name	Dynea US	A, Inc.							
Previous Discharger Name	Chem B	ond	Or-AKA (includes	previous file name)					
11 Digit HUC Code	03140301050								
12 Digit HUC Code	031403010501	Print Recor	rd 6	se Form					
River Basin	Perdido-Escambia								
County	Covington	小生意 V han 医输	5 4 4W/ 4 B						
Use Classification	F&W	Date of	WLA Response	5/18/2007					
Discharge Latitude	31.343	Lat/Long Me	thod	Arcview					
Discharge Longitude	-86.5298		Approved	rmdL?					
Site Visit Completed?	✓ Yes □ No		The same of the sa	2 No					
Date of Site Visit	5/2/2007	u dina di sebuah di dina							
Waterbody Impaired?	☐ Yes ☑ No	Approval	Date of TMDL	Sprankavités.					
Antidegradation	☐ Yes ☑ No	Permi	t Informatio	311					
Waterbody Tier Level	Tier II	(1) 12 15 15 15 15 15 15 15 15 15 15 15 15 15							
Use Support Category	3	Permit Nu	mber AL000	0868					
Other Point Sources?	☐ Yes ☑ No	Permit St	tatus Acti	ve					
Sources Inclu	uded in Model	☐ Mun	pe of Discharger icipal strial ipublic/Private						
Modeled Reach Length Name of Model Used	0.36 SWQM	Miles Date o	rmation f Allocation cation Type	5/21/2007 Annual					
Talle of moder osed	077 G(H)								
Model Completed by	СВ	Type of	Model Used	Desk-top					

Waste Lord Allocation Summer Page 2 Seasonal Effluent Limits Ser. Qw MGD 2012 MGD Annual Effluent Limits Season Season Season Season Qw 0.022 MGD From From From From Through Through Through Through CBOD5 25 mg/i CBOD5 mg/l CBOD5 CBOD5 CBOD5 mg/l mg/lmg/l NH3-N 2.2 mg/l NH3-N mg/l NH3-N mg/l NH3-N mg/l NH3-N mg/l TKN mg/l TKN mg/j TKN TKN TKN mg/l D.O. 5.5 mg/l mg/l ma/l D.O. mad D.O. mg/l D.O. mg/l D.O. mg/l "Monitor Only" Parameters for Effluent: Parameter Frequency Parameter Frequency Water Quality Characteristics Immediately Upstream of Discharge Winter Summer **Parameter GBODu** mg/l mg/l NH3-N mg/l mg/L °C Temperature °C SU pH su Hydrology at Discharge Location Method Used to Calculate Drainage Area 0.04 sq ml Drainage Area Qualifier Stream 7Q10 0 <5.0 sq mi - Bingham Equation cfs Exact Stream 1Q10 cfs Stream 7Q2 cfs Annual Average cfs

Comments Discharge goes to a man-made drainage ditch which, in turn, flows into the UT. Length of ditch is approximately 50 yds.

Notations

Last Revision: 8/30/06

NPDES No.: AL0000868

1/17/2025

2 4 5 6 6 7 6 8 I	Pollutant	Carcinogen "yes"	Туре	Beckground from upstream	Background from upstream	Background Instream	Background Instream (C _E)	reported by . Applicant	Only Discharge as reported by Applicant	Confficie (Strume Laike)
2 A 3 E 4 C 5 C 7 C			1	source (C ₆₂)	source (C ₄₂)	(C _s) Dely				LEKE
2 A 3 E 4 C 5 C 7 C				Daily Max	Hosthir Arm.	Max	Monthly Ave	(Cg) Hex	(Cg) Ave	
3 E 6 6 6 7 6 8 E	Antimony Arsenic*,**	YES	Metals Metals	0	0	0	0	0 41.2	0 41.2	0.57
5 6 6 7 6 8 1	Berylium	165	Metals	0	0	0	t t	0	0	-
6 G	Cadmium** Chromium / Chromium III**	-	Metals Metals	0	0	0	2 2	0 15	0 15	0.23
8	Chromium / Chromium VI**		Metals	0	0	0	. 0	0	0	
	Copper**		Metals Metals	0	0	0		28.7	28.7	0.38
	Mercury**		Metals	0	0	0	. 0	0	0	0.30
	Nickel** Selenium		Metals Metals	0	0	0	0	0	0	0.50
2 5	Silver		Metals	0	0	0	0	0	0	-
	Thallium Zinc**		Metals Metals	0	0	0	0	0 24	0 24	0.33
	Cyanide Total Phenolic Compounds		Metals Metals	0	0	0	. 0	0	0	-
7 1	Hardness (As CaCO3)		Metals	0	0	0	0	0	0	
	Acrolein Acrylonitrile*	YES	VOC	0	0	0	0	0	0	-
0	Aldrin	YES	VOC	0	0	0 -	-	0	0	
	Benzene* Bromoform*	YES YES	VOC	0	0	0	- 6	17.6	0 17.6	
3	Carbon Tetrachloride*	YES	VOC	0	0	8	0	0	0	
	Chlordane Clorobenzene	YES	VOC	0	0	0	0	0	0	:
6	Chlorodibromo-Methane*	YES	VOC	0	0	0	0	1.1	1.1	-
	Chloroethane 2-Chloro-Ethylvinyl Ether		VOC	0	0	0	0	0	0	
9	ChloroForm*	YES	VOC	0	0	. 0	. 0	0	0	-
11	4,4'-DDD 4,4'-DDE	YES YES	VOC	0	0	0	0	0	0	-
3 1	4.4'-DDT Dichlorobromo-Methane*	YES	VOC	0	0	0	0.	0	0	- :
4	1, 1-Dichlorouthane		VOC	0	0	0		0	0	-
5	1, 2-Dichloroethane* Trans-1, 2-Dichloro-Ethylene	YES	VOC	0	0	0	. 0	0	0	:
17	1, 1-Dichloroethylene*	YES	VOC	0	0	0	- 12	0	0	-
	1, 2-Dichloropropane 1, 3-Dichloro-Propylene		VOC	0	0	0	. 6	0	0	:
0	Dieldrin	YES	VOC	0	0	10.	0	0	0	
	Ethylbenzene Methyl Bromide		VOC	0	0	6.		0	0	
13	Methyl Chloride Methylene Chloride*	YES	VOC	0	0	0	0	0	0	-
15	1, 1, 2, 2-Tetrachloro-Ethane*	YES	VOC	0	0	- 0	- P	0	0	1
16	Tetrachloro-Ethylene* Toluene	YES	VOC	0	0	0	0	0	0	1
8	Toxaphene	YES	VOC	0	0	0	0	0	0	
	Tributyitine (TBT) 1, 1, 1-Trichloroethane	YES	VOC	0	0	0	B	0	0	:
1	1, 1, 2-Trichioroethane"	YES	VOC	0	0	0		0	0	
	Trichlorethylene* Vinyl Chloride*	YES YES	VOC	0	0	0	D B	0	0	1
4	P-Chloro-M-Cresol	100	Acids	0	0	0		0	0	
	2-Chlorophenol 2, 4-Dichlorophenol		Acids Acids	0	0	0	0	0	0	1
57	2, 4-Dimethylphenol		Acids Acids	0	0	0	0	0	0	٠
	4, 6-Dinitro-O-Cresol 2, 4-Dinitrophenol		Acids	0	0	a ·	0	0	0	
50	4,6-Dintro-2-methylophenol	YES YES	Acids Acids	0	0	9	0	0	0	-
52	Diexin (2,3,7,8-TCDD) 2-Nitrophenol	163	Acids	0	0	- 10		0	0	
	4-Nitrophenol Pentachiorophenol®	YES	Acids Acids	0	0	0	0	0	0	1
55	Phenol		Acids	0	0	. 0	0	0	0	-
56	2, 4, 6-Trichlorophenol* Acenaphthene	YES	Acids Bases	0	0	0	8	0	0	1
58	Acenaphthylene		Bases	0	0		0	0	0	-
	Anthracene Benzidine		Bases Bases	0	0	0	0	0	0	
	Benzo(A)Anthracene*	YES YES	Bases Bases	0	0	3	0	0	0	1
73	Benzo(A)Pyrene* 3, 4 Benzo-Fluoranthene	163	Bases	0	0		0	0	0	
	Benzo(GHI)Perylene Benzo(K)Fluoranthene	-	Bases Bases	0	0		0	0	0	1
76	Bis (2-Chloroethoxy) Methane		Bases	0	0			0	0	
77	Bis (2-Chloroethyl)-Ether* Bis (2-Chloroiso-Propyl) Ether	YES	Bases	0	0		- 8	0	0	
79	Bis (2-Ethylhexyl) Phthalate*	YES	Bases	0	0	0	0	0	0	-
81	4-Bromophenyl Phenyl Ether Butyl Benzyl Phthalate		Bases Bases	0	0	0	0	0	0	-
	2-Chloronaphthalene 4-Chlorophenyl Phenyl Ether		Bases Bases	0	0	9	0	0	0	1
84	Chrysene*	YES	Bases	0	0	0	0	0	0	-
36	Di-N-Butyl Phthalate Di-N-Octyl Phthalate		Bases Bases	0	0	0	0	0	0	1
37	Dibenzo(A,H)Anthracene*	YES	Bases Bases	0	0	1	0	0	0	1 :
39	2-Dichlorobenzene 3-Dichlorobenzene		Bases	0	0	0		0	0	
	1, 4-Dichlorobenzene 3, 3-Dichlorobenzidine*	YES	Bases Bases	0	0	0 .	-	0	0	1
92	Diethyl Phthalate		Bases	0	0	0	0	0	0	:
94	Dimethyl Phthalate 2, 4-Dinitrotoluene*	YES	Bases Bases	0	0	4 11	0	0	0	
95	2, 6-Dinitrotoluene 1,2-Diphenylhydrazine		Bases Bases	0	0	W	0	0	0	1 :
97	Endosulfan (alpha)	YES	Bases	0	0	. #.	0	0	0	-
98	Endosulfan (beta) Endosulfan sulfate	YES YES	Bases Bases	0	0		0	0	0	:
00	Endrin	YES	Bases	0	0		9	0	0	1 :
	Endrin Aldeyhide Fluoranthene	YES	Bases Bases	0	0		8	0	0	
03	Fluorene	YES	Bases	0	0		8	0	0	1 :
	Heptochlor Heptachlor Epoxide	YES	Bases	0	0	. 8	8	0	0	
06	Hexachiorobenzene* Hexachiorobutadiene*	YES YES	Bases Bases	0	0	0	9	0	0	
80	Hexachlorocyclohexan (nlpn)	YES	Beses	0	0	0		0	0	
09	Hexachlorocyclohexan (beta) Hexachlorocyclohexan (gamma)	YES	Bases Bases	0	0	0	A	0	0	:
11	HexachlorocycloPentadiene	163	Bases	0	0	. 0	4	0	0	
12	Hexachloroethane Indeno(1, 2, 3-CK)Pyrene*	YES	Bases Bases	0	0	-	0	0	0	1
14	Isophorone		Bases	0	0		0	0	0	
	Naphthalene Nitrobenzene		Bases Bases		0	N.		0	0	
17	N-Nitrosodi-N-Propylamine*	YES	Bases	0	0	9		0	0	
19	N-Nitrosodi-N-Methylamine* N-Nitrosodi-N-Phenylamine*	YES YES	Bases Bases	0	0	- 1	# #	0	0	
20	PCB-1016	YES	Bases	0	0	V		0	0	1
	PCB-1221 PCB-1232	YES	Bases Bases	0	0		1.2.	0	0	
	PCB-1242	YES	Bases	0	0			0	0	1
	PCB-1248 PCB-1254	YES YES	Bases Bases	0	0			0	0	
124		YES	Bases	0	0			0	0	

0.014	Enter Q _d = wastewater discharge flow from facility (MGD)
0.02166121	Q _d = wastewater discharge flow (cfs) (this value is caluclated from the MGD)
0	Enter flow from upstream discharge Qd2 = background stream flow in MGD above point of discharge
0	Qd2 = background stream flow from upstream source (cfs)
43,1540	Enter 7Q10, Q _e = background stream flow in cfs above point of discharge
32.3730	Enter or estimated, 1Q10, Q _e = background stream flow in cfs above point of discharge (1Q10 estimated at 75% of 7Q10)
1,645.5180	Enter Mean Annual Flow, Q _a = background stream flow in cfs above point of discharge
50.52	Enter 7Q2, Q _e = background stream flow in cfs above point of discharge (For LWF class streams)
String to Last	Enter C _e = background in-stream pollutant concentration in µg/l (assuming this is zero "0" unless there is deta)
Q ₄ +Qd2+Q ₈	Q _c = resultant in-stream flow, after discharge
Calculated on other	C, = resultant in-stream pollutant concentration in µg/l in the stream (after complete mixing occurs)
50,00	Enter, Background Hardness above point of discharge (assumed 50 South of Birmingham and 100 North of Birmingham)
7.00 s.u.	Enter, Background pH above point of discharge
YES	Enter, is discharge to a stream? "YES" Other option would be to a Lake. (This changes the partition coefficients for the metals)

** Using Partition Coefficients

March 28, 2024

Facility Name: Arclin, inc - DSN004 based on application

NPDES No.: AL0000868

selficetion.

Max Duily Freetwein: A

shweter F&W classifics	uon.				Max Daily Discharge as	Free	HINESE ACUSE	(µg/i) Q, =1Q10			Avg Daily Discharge es	Freely	Chronic	(ug/i) Q ₆ = 7Q1	*****		ogen C _k = Are -Carolrogen C		
Pollutani		RP7	Cercinogen yes	Bedground from upsiream source (Cd2) Daily Max	reported by Applicant (C _{dem})	Water Quality Criteria (C,)	Draft Permit Limit (C _{time})	20% of Draft Permit Limit	RP?	Beciground from upstream source (Cd2)	Discharge as reported by Applicant (C _{dusp})	Water Quality Criteria (G _i)	Draft Permit Limit (C _{timp})	20% of Oraft Permit Limit	RP?	Water Quality Criteria (G _i)	Draft Permit Limit (C _{des})	20% of Orali Permit Limit	
1 Antimony			YES	0	0			177169.039		Monthly Ave	0					8.7M+00	7.44E+05	1.49E+05	
Arsenic Berylium Cadmium			163	0	41.2	- DECEMB			No	0	41.2 0		520998.302		No -	0.3030	23020.3426	4604.0685	,
Chromium/ Chromium				0	0 15	1537(013)	6501,197 *********		No No	0	15	203(24)	1283.156 398838.792		No No	:	-	-	
Chromium/ Chromium Copper	VI			0	0 28.7	18 008	23928.242 26958.718	4785.848 5391.744	No	0	0 28.7	12 700	21930.555 25450.548	4388.111 5090.109	No No	-	- :		
Lead Mercury				0	0	148251	218780.168 3589.236	43758.034 717.847	No	0	0	5 AC1	11365.498 23.924	2273.100 4.785	No No	4.24E-02	6.46E+01	1.69E+01	
Nickel Selenium			-	0	0	BYRIANE DE DEC	771423.124 29910.303		No No	0	0	F 30	114222.627 9968.434		No No	9.93E+02	1.98E+06	3.96E+05	5
Silver				0	0	Dam	1460.285	292.057	No	0	0	The state of the s	9900.434	1993.007	- NO	-	4845766.61	969153.32	
Thallium Zinc				0	24	TOT ME	295168.040		No	0	0 24	- (m m)	396710.342		No	1.49E+04	5.45E+02 2.97E+07	1.09E+02 5.94E+06	
Cyanide Total Phenolic Compos	inds	1		0	0	HOR	32901.333	6580.267	No	0	0	1.00	10367.172	2073.434	No	KINE-RE	1.86E+07	3.72E+06	i
Hardness (As CaCO3) Acrolein				0	0			1	-	0	0	-	-		-	DANSON	1.08E+04	2.16E+03	
Acrylonitrile			YES	0	0				-	0	0			:		144621	1.09E+04	2.19E+03	3
Aldrin Benzene			YES YES	0	0	NOR.	4486.545	897.309	No -	0	0	:			-	2.5154E	2.23E+00 1.18E+06	4.47E-01 2.35E+05	
Bromoform Carbon Tetrachloride			YES YES	0	17.6	-			-	0	17.6	-:-	:	:	:	7.99E-01	5.98E+06 7.27E+04	1.20E+06 1.45E+04	
Chlordane Clorobenzene		- 1	YES	0	0	2.442	3589.236	717.847	No	0	0	00042	8.573	1.715	No	A THE OF	3.59E+01	7.18E+00)
Chlorodibromo-Methan			YES	0	1.1	-		-	-	0	1.1					2.41E4W	1.81E+06 5.63E+05	3.61E+05 1.13E+05	
Chloro-Ethylvinyl Eth	er	1		0	0	:	:	-		0	0		-						
ChloroForm 4,4' - DDD			YES	0	0	-:	-	-	-	0	0				-	1/000400	7.75E+08 1.38E+01	1.55E+08 2.78E+00	
4,4' - DDE		-1	YES	0	0				-	0	0	-				T. THE CO.	9.73E+00	1.95E+00)
4,4' - DDT Dichlorobromo-Methan	e l	1	YES	0	0	1.100	1645.087	329.013	No	0	0	0.001	1.994	0.399	No	128564	9.73E+00 7.62E+05	1.95E+00 1.52E+05	
1, 1-Dichloroethane 1, 2-Dichloroethane			YES	0	0	:	:	-	:	0	0	:			:	Trains.	1.62E+08	3.25E+05	
Trans-1, 2-Dichloro-Ett 1, 1-Dichloroethylene	sylene		YES	0	0		-	-	-	0	0			-	-	CONTRACT	1.18E+07	2.38E+06	3
1, 2-Dichloropropane			169	0	0		-			0	0	-	-	:	-	E-size-to	3.17E+08 1.89E+04	6.33E+07 3.39E+03	9
1, 3-Dichloro-Propylen Dieldrin	'		YES	0	0	WENT.	358.924	71,785	- No	0	0	East .	111.646	22.329	No	1,3414U1 3,138-08	2.45E+04 2.37E+00	4.90E+03 4.74E-01	
Ethylbenzene Methyl Bromide				0	0	:		-		0	0	-		-		COMMENTS.	2.48E+06	4.96E+05	5
Methyl Chloride			MET	0	0					0	0					MANAGEME.	1.74E+06	3.47E+05	
Methylene Chloride 1, 1, 2, 2-Tetrachloro-E	thane		YES YES	0	0	:		:	-	0	0	:		:	-	Edition 1	2.63E+07 1.77E+05	5.25E+08 3.55E+04	ı
Tetrachioro-Ethylene Toluene			YES	0	0	1	:	-	-	0	0	-	:		-	Accessor	1.48E+05 1.74E+07	2.91E+04 3.48E+08	
Toxaphene			YES YES	0	0	0.750	1091.726	218.345	No	0	0	none	0.399	0.080	No	1.EEE/M	1.23E+01	2.46E+00	
Tributyltin (TBT) 1, 1, 1-Trichloroethane				0	0	-	687.937	137.587	No	0	0	- MAIN	143.545	28.709	No -		-		
1, 1, 2-Trichloroethane Trichlorethylene		1	YES	0	0	:	:	-	- :	0	0		-	-		5.10E+01	6.91E+05 1.33E+06	1.38E+05 2.65E+05	
Vinyl Chloride P-Chloro-M-Cresol	1		YES	0	0	1			-	0	0				-	1-405+001	1.08E+05	2.16E+04	
2-Chlorophenol				0	0		-	-	-	0	0		-	-		MANEGON	1.74E+05	3.47E+04	
2, 4-Dichtorophenol 2, 4-Dimethylphenol				0	0	-	-	1	-	0	0	- :	-		-	A SHE HEL	3.43E+05 9.92E+05	6.86E+04 1.98E+05	
4, 6-Dinitro-O-Cresol 2, 4-Dinitrophenol				0	0	:	-	-	-	0	0	-	-		-	LUSES	6.20E+06	1.24E+06	
4,6-Dinitro-2-methylph	lone	- 1	YES	0	0					0	0	1	-		-	- Colore	1.26E+07	2.51E+06	3
Dioxin (2,3,7,8-TCDD) 2-Nitrophenol			YES	0	0			-	-	0	0					200000	2.03E-03	4.05E-04	
4-Nitrophenol Pentachlorophenol			YES	0	0	8773	13045.858	2809.172	No	0	0	2000	13342,916	2668.583	No.	1.nem	1.34E+05	2.69E+04	
Phenol 2, 4, 6-Trichlorophenol			YES	0	0		-	-		0	0	-	-	*	-	EDGE-DE	9.97E+06	1.99E+08	3
Acenaphthene			TES	0	0					0	0		-			O TREATS	1.07E+05 1.15E+08	2.15E+04 2.31E+05	
Acenaphthylene Anthracene				0	0	:	:		-	0	0		:	-	-	ENDO:	4.65E+07	9.30E+08	5
Benzidine Benzo(A)Anthracene			YES	0	0	-	-		•	0	0		-	-	-	1 resida	2.31E-01 8.09E+02	4.62E-02 1.62E+02	
Benzo(A)Pyrene	_		YE8	0	0			-	-	0	0					170540	8.09E+02	1.62E+02	ł
Benzo(b)fluoranthene Benzo(GHI)Perylene				0	0		:	:		0	0		-	-	-	Inter	2.12E+01	4.25E+00	
Benzo(K)Fluoranthene Bis (2-Chloroethoxy) M	ethane	1		0	0	. :	- :	-	:	0	0	:	-	-	-	1050	2.12E+01	4.25E+00	1
Bis (2-Chloroethyl)-Eth	er		YES	0	0			-	-	0	0		-	-	-	NEDE OF	2.34E+04	4.67E+03	
Bis (2-Chloroiso-Propy Bis (2-Ethylhexyl) Phth	alate		YES	0	0				-	0	0		-				7.53E+07 9.74E+04	1.51E+07 1.85E+04	
4-Bromophenyl Phenyl Butyl Benzyl Phthalate	Ether			0	0		-:	1		0	0	:	-			1.DEXD	2.25E+06	4.49E+05	
2-Chloropaphthalene 4-Chlorophenyl Phenyl	Fther		-	0	0	1	:	-	:	0	0	:		: 1	-	NAME OF	1.84E+08	3.68E+05	í
Chrysene			YES	0	0				-	0	0	-	*		-	10000	8.09E+02 5.23E+08	1.82E+02	
Di-N-Butyl Phthalate Di-N-Octyl Phthalate				0	0	:	-	:		0	0	:		*	1	- A Lot		1,05E+06	
Dibenzo(A,H)Anthrace 1, 2-Dichlorobenzene	10		YES	0	0	:	:	:	:	0	0	:	-		-	7.500 (G)	8.09E+02 1.51E+08	1.62E+02 3.01E+05	,
1, 3-Dichlorobenzene 1, 4-Dichlorobenzene				0	0	:	-	-	:	0	0	:	-	:		1.03-00	1.12E+06 2.24E+05	2.24E+05 4.48E+04	
3, 3-Dichlorobenzidine Diethyl Phthalate			YES	0	0	:	:	:	:	0	0		:	-	:	TANGEN .	1.26E+03 5.10E+07	2.53E+02 1.02E+07	
Dimethyl Phthalate			Ven	0	0			-	-	0	0		-		-	0.441-10	1.29E+09	2.58E+06	3
2, 4-Dinitrotoluene 2, 6-Dinitrotoluene			YES	0	0	1		:		0	0		-			* MEAN	1.50E+05	3.01E+04	
1,2-Diphenylhydrazine Endosulfan (alpha)	-		YES	0	0	- 0.00	329.013	65.803	- No	0	0	ALCOHOL:	111.646	22.329	No	1 12 LON	2.34E+02 3.94E+08	4.67E+01 7.88E+05	
Endosulfan (beta) Endosulfan sulfate			YES YES	0	0		329.013	65.803	No	0	0	0.000	111.646	22.329	No	BITTER CO.	3.94E+08 3.94E+08	7.98E+05 7.88E+05	;
Endrin			YES	0	0		126,614	25.723	No	0	0	9000	71.773	14.355	No	LEE TI	2.68E+03	5.36E+02	ŀ
Endrin Aldeyhde Fluoranthene		1	YES	0	0		:	:	:	0	0	1	:	-		E VZEHOV	1.82E+05	2.68E+03 3.24E+04	ļ
Fluorene Heptochlor			YES	0	0	Dest	777.668	155.534	- No	0	0	nonte (7.578	1.515	No.	ASSEAS	6.20E+06 3.52E+00	1.24E+06 7.03E-01	
Heptachlor Epoxide			YES	0	0	100	777.668	155.534	No	0	0	dige	7.576	1.515	No	TOUR ON	1.74E+00	3.48E-01	
Hexachlorobenzene Hexachlorobutadiene			YES YES	0	0				:	0	0	:				1 DESCRIPTION	1.27E+01 6.17E+05	2.55E+00 1.63E+05	,
Hexachlorocyclohexan Hexachlorocyclohexan	(alpha)		YES YES	0	0		:	:	:	0	0	:	:		:	A MENTER	2.16E+02 7.58E+02	4.33E+01 1.52E+02	
Hexachlorocyclohexan	(gamma)		YE8	0	0	AND DE	1420.739	284.148	No	0	0	-	-		-	10000	S.18E+04	1.84E+04 2.57E+05	,
HexachlorocycloPentac Hexachloroethane				0	0	-		1	:	0	0		:	-	-	Yather a	1.29E+06 3.62E+03	7.65E+02	2
Indeno(1, 2, 3-CK)Pyre Isophorone	ne		YES	0	0		-		:	0	0	:		:	:	1/276-02 0:01E-072	8.09E+02 1.12E+08	1.62E+02 2.24E+05	
Naphthalene				0	0		-	-		0	0	-		-					
Nitrobenzene N-Nitrosodi-N-Propylan	nine		YE8	0	0	:	-	:		0	0	1	-	- :		3 (ME+C)	8.05E+05 2.24E+04	1.61E+05 4.48E+03	3
N-Nitrosodimethylamin N-Nitrosodiphenylamin	e		YES YES	0	0	:		:	:	0	0	-:-	•	: -	-	1 THE HID I	1.34E+05 2.66E+05	2.67E+04 5.32E+04	
PCB-1016			YES	0	0		-		-	0	0	GOIN.	27.912 27.912	5,582 5,582	No No	3744.00	2.84E+00 2.84E+00	5.69E-01 5.68E-01	
PCB-1221 PCB-1232			YES YES	0	0			-		0	0	GDIA	27.912	5.582	No	3,745.40	2.84E+00	5.68E-01	
PCB-1242 PCB-1248			YES YES	0	0	:	-	:	:	0	0	2014 2014	27.912 27.912	5.582 5.582	No No	N 74E-CM	2.64E+00 2.64E+00	5.68E-01 5.68E-01	
PCB-1254			YES	0	0	-		-		0	0	DOM	27.912	5.582	No	\$24E48	2.84E+00	5.68E-01	
PCB-1260 Phenanthrene			YES	0	0					0	0	NAME OF TAXABLE PARTY.	27.912	5.582	No	-	2.84E+00	5.68E-01	
Pyrene	10		- 1	0	0	-		-		0	0			:		- Juliani	4.65E+08 8.16E+04	9.30E+05 1.63E+04	

OCPSF PERMIT LIMITS CALCULATIONS

FACILITY NAME:

Arclin, Inc.

Prepared By: Victoria Kim

Prepared Date: November 17, 2023

LOCATION:

Andalusia

NPDES NUMBER: AL0000868 (Outfall DSN004)

IS THIS A RAYON MANUFAC AN ACRYLIC MANUFACTUR				S =() N() =1)
AN ACKILIC MANOTACION	EN THAT OBED THE AIRC C	TIEGRIDE/SOE VINTT	NOCESS (TE	30
DOES THIS FACILITY USE EN	ID-OF-PIPE BIOLOGICAL TR	EATMENT (SUBPART	1) (YES =0.1	NO =1)
OCPSF PRODUCT	SIC CODE	ANNUAL PROD. MILLION LBS/YR	PROCESS WASTE FLOW MGD	
Subpart B Rayon Fibers		0	0]
Subpart C Other Fibers		0	0	
Subpart D Thermoplastic Resins		0	0	1
Subpart E Thermosetting Resins		215.35	0.00168 0.00775	
Subpart F. Commodity Organic C	.hemic 2869	51.1 0	0.00775	
Subpart G Bulk Organic		0	0	
Subpart H Specialty Organic		0]
OCPSF RELATED FLOWS	TOTAL	266.45	0.00943	
FLOW FROM OTHER SOURCE	ES (e.g. POTWs)		()	MGD
TOTAL FLOW FROM PROCES	SS, NON-PROCESS AND OTH	IER SOURCES	0.01287	MGD
RECEIVING STREAM 1Q10			32.373	CFS
RECEIVING STREAM 7Q10			43.164	CFS
RECEIVING STREAM ANNUA	AL-AVERAGE FLOW		1645.52	CFS
METAL-BEARING WASTE ST	REAM VOLUME		()	MGD
CYANIDE-BEARING WASTE	STREAM VOLUME		()	MGD

	Non-		Additional Allo	wance	
	OCPSF	ROD2		155	
	Flow	(MG/L)		(MG/L)	
Description	(MGD)	Max.	Avg.	Max.	Avg.
Utility	0.0034	20	10	20	10
Sanitary	0.0000	45	30	60	30
	0.0000				
Total	0.0034				

40 CFR 414 Subpart	OCPSF	Annual	Subtotal	Subcat		Subcateg	gory Limits			Calc	ulated Limi	ts
1	Product	Production		Proportio		BOD5	Т	rss		BOD5		TSS
		(Million			Max.	Avg.	Max.	Avg.	Max.	Avg.	Max.	Avg.
		lbs/year)										
B Rayon Fibers		U	U	U	64	24	130	40	U	U	0	θ
C Other Fibers		U	υ	0	48	18	TIo	36	0	0	U	0
D Thermoplastic Resins		U	U	()	6-4	24	130	40	U	()	0	U
E. Thermosetting Resins		215	215.35	0.808219	163	61	216	67	131.74	49.30	174.6	54.15
F Commodity Organic Che	emicals	ρΊ	51.1	0.191781	80	30	149	46	15.34	5./5	28.58	8.82
G Bulk Organic	Ì	U	U	()	92	34	159	49	U	U	U	O
H Specialty Organic	ĺ	U	U	U	120	45	183	57	U	U	0	υ
		TOTAL =	266.45									

	В	OD5	1	SS
	Max.	Avg.	Max.	Avg.
Process Total (mg/l)	147.1	55.1	203.2	63.0
Process Total (Ib/day)	TT.6	4.3	16.0	ɔ .0,
Non-process total (lb/day)	0.574	0.287	0.574	0.287
Final Mass Limits (lb/day)	12.1	4.6	16.5	5.2

BAT Limits are based on 40 CFR 414 Subpart

requirements

PARAMETER	LIMITS		MASS LIN	HT	ACUTE	CHRONIC	HUMAN HE	ALTH
	UG/L		LBS/D			LBS/D	Fish	Water
	MAX.	AVG.	MAX.	AVG.			Consumption	Consumption
Acenaphthene	4 7	19	0.0037	0.0015			134,596369	105.525875
Acenaphthylene	47	19	0.0037	0.0015				
Acrylonitrile*	232	94	0.0182	0.0074			1.276641	0.010400
Anthracene	47	19	0.0037	0.0015			5427.944668	1684.775162
Benzene *	134	57	0.0105	0.0045			137,176902	0.260479
Benzo(a)anthracene*	47	19	0.0037	0.0015			0.094454	0.000769
3,4-Benzofluoranthene*	48	20	0.0038	0.0016			0,094454	0.000769
Benzo(k)fluoranthene*	47	19	0.0037	0.0015			(),()94454	0.000769
Benzo(a)pyrene*	48	20	0.0038	0.0016			0.094454	0.000769
Bis(2-ethylhexyl) phthalate	258	95	0.0203	0.0075			0.298269	0.197169
Carbon Tetrachloride *	380	142	0.0299	0.0112			8.486652	0.048889
Chlorobenzene	380	142	0.0299	0.0112			210,824070	28.213354
Chloroethane	295	110	0.0232	0.0087				
Chloroform *	325	111	0.0256	0.0087			904.287726	1.263806
2-Chlorophenol	()	()	0.0000	0.0000			20.256419	13.526711
Chrysene*	47	19	0.0037	0.0015			0.094454	0.000769
Di-n-Butyl phthalate	43	20	0.0034	0.0016			609.968551	348.739977
1,2-Dichlorobenzene	794	196	0.0624	0.0154			175.749938	79.921181
1,3-Dichlorobenzene	380	142	0.0299	0.0112			130,836034	59.496835
1.4-Dichlorobenzene	380	142	0.0299	0.0112			26.167207	11.899367
1.1-Dichloroethane	59	22	0.0046	0.0017				
1,2-Dichloroethane *	574	180	0.0451	0.0142			189.435158	0.087902
1.1-Dichloroethylene *	60	22	0.0047	0.0017			36939.858120	75.120614
1.2-trans-Dichloroethylene	66	25	0.0052	0.0020			1374.359545	31.818225

2.4-Dichlorophenol	0	()	()()()()()	0.0000			4001509.659	15,168731
1.2-Dichloropropane	794	196	0.0624	0.0154			1.976235	0.114468
1,3-Dichloropropylene	794	196	0.0624	0.0154			2.857221	0.079174
PARAMETER	LIMITS		MASS LIM	IT	ACUTE	CHRONIC	HUMAN HEA	LTH
	UG/L		LBS/D			LBS D	Fish	Water
	MAX.	AVG.	MAX.	AVG.			Consumption	Consumption
Diethyl phthalate	113	46	0.0089	0.0036			5949.2824	3109.5294
2.4-Dimethylphenol	47	19	0.0037	0.0015			115.7510	67.6617
Dimethyl phthalate	47	19	0.0037	0.0015			150797.7488	52876,9756
1,6-Dinitro-o-cresol**	277	78	0.0218	0.0061			38.2831	2.9338
2,4-Dinitophenol	4291	1207	0.3374	0.0949			723.8268	15.9278
2.4-Dinitotoluene*	0	0	0.0000	0.0000			17.5600	0.0249
2,6-Dinitotoluene	0	()	0.0000	0.0000				
Ethylbenzene	380	142	0.0299	0.0112			289.5316	104.2314
Fluoranthene	54	22	0.0042	0.0017			18.8825	17.8478
Fluorene	47	19	0.0037	0.0015			723.8291	224,6367
Hexachlorobenzene *	794	196	0.0624	0.0154			0.0014878	0.00003875
Hexachlorobutadiene *	380	142	0.0299	0.0112			95.3990	0.1002
Hexachloroethane *	794	196	0.0624	0.0154			17.0025	0.2525
Methyl Chloride*	295	110	0.0232	0.0087				
Methylene Chloride*	170	36	0.0134	0.0028			3064.6400	1.0713
Naphthalene	47	19	0.0037	0.0015				
Nitrobenzene	6402	2237	0.5034	0.1759			93.9223	3.9024
2-Nitrophenol	231	65	0.0182	0.0051				
I-Nitrophenol	576	162	0.0453	0.0127				
Phenanthrene	47	19	0.0037	0.0015				
Phenol	47	19	0.0037	0.0015			116329.7186	2392.6779
Pyrene	48	20	0.0038	0.0016			542.8719	168.4775
Tetrachloroethylene *	164	52	0.0129	0.0041			16.9957	0.1403
l'olue n e	74	28	0.0058	0.0022			2029.4281	280.6749
Total Chromium	2770	1110	0.0000	0.0000	268.3990	46.5441		
Total Copper	3380	1450	0.0000	0.0000	3.1459	2.9700		
Fotal Cyanide	1200	420	0.0000	0.0000	3,8395	1.2098	2171.4881	32,0909
Total Lead	690	320	0.0000	0.0000	11.2620	0.2731		
Total Nickel	3980	1690	0,0000	0.0000	90.0223	13.3298	231.0094	95.5200
Fotal Zinc	2610	1050	0.0000	0.0000	34.4452	46,2950	3465.1405	1432.8001
1.2,4-Trichlorobenzene	794	196	0.0624	0.0154			9.5241	6.0097
.1.1-Trichloroethane	59	22	0.0046	0.0017				
1.1.2-Trichloroethane *	127	32	0.0100	0.0025			80.6485	0.1338
l'richloroethylene *	69	26	0.0054	0.0020			154.8841	0.5576
Vinyl Chloride *	172	97	0.0135	0.0076			12.6290	0.0057
* DESIGNATES CARCINOGEN	IC COMPOUNDS		Metal acute ar	nd chronic calculation	ns are based on a ha	rdness of 50 n	ng-I as CaCO3	
** SAME AS 4,6-DINITRO-2-ME	ETHYLPHENOL							

	REQU	UEST INFO	RMATION	Requi	est Num	ıber:	3977
om:	Victoria	Kim		ch/Section		Industrial	
Date Subn	and the second	Date Re	_	1/3/2023	FUI	ND Code	210
U.1 A. 118 VIVISH194	application received by			7/7/2023		,	
Receiving Waterbody		Conecuh					
Previous		Conecuh	River	2.53			
Facility		din, Inc.		/ **** **		charger-WQ	
transmission of		olin, Inc.	l Latitude	31.3413		harger Name (decimal de	
River Basin	Escambia	-	ongitude	-86.5333		(decimal de	
*County	Covington			-50.5000		ermit Reissua	
	AL0000868		Permit		Pe		ince
		: T .	Permit			Active	1
			e of Discha				
Do otl	ner discharges exist t	hat may imp	pact the mo	del?	Yes	₩ No	
	g Discharge Design F d Discharge Design F	low 0.0			hose re Year	flow rates g equested fo r File Was Crea onse ID Numbe	r modeling
Propose Comments included		low 0.0	014 M Information Verified By		Year Respo	equested fo	r modeling
Propose Comments included		low 0.0	014 M Information Verified By	GD be t	Year Respo	equested for File Was Creations ID Number	r modeling
Propose Comments included ✓ Yes □ No	d Discharge Design F	low 0.0	014 M Information Verified By	GD be t	Year Respo	equested for File Was Creations ID Number	r modeling
Propose Comments included Yes No 12 Digit HUC Code Use Classification	031403010501	low 0.0	Information Verified By	GD be t	Year Respo	equested for File Was Creations ID Number	r modeling
Comments included Yes No 12 Digit HUC Code	031403010501 F&W	low 0.0	Information Verified By	GD be t	Year Respo	equested for File Was Created and File Was Created	r modeling
Propose Comments included Yes No 12 Digit HUC Code Use Classification Site Visit Completed Waterbody Impaired	031403010501 F&W	low 0.0	Information Verified By Lat Date of V	/Long Meth	Year Respo	r File Was Crea onse ID Numbe GP	r modeling
Comments included Yes No No 12 Digit HUC Code Use Classification Site Visit Completed	031403010501 F&W 17	low 0.0	Information Verified By Lat Date of V	/Long Meth	Year Respo	r File Was Crea onse ID Numbe GP	r modeling
Propose Comments included Yes No 12 Digit HUC Code Use Classification Site Visit Completed Waterbody Impaired	031403010501 F&W 1?	low 0.0	Information Verified By Lat Date of V	/Long Meth	Year Respo	r File Was Crea onse ID Numbe GP	r modeling
Propose Comments included Yes No 12 Digit HUC Code Use Classificatio Site Visit Completed Waterbody Impaired Antidegradation	031403010501 F&W 1?	low 0.0	Information Verified By Lat Date of V	/Long Meth	Year Respond	r File Was Crea onse ID Numbe GP	r modeling
Propose Comments included Yes No 12 Digit HUC Code Use Classification Site Visit Completed Waterbody Impaired Antidegradation Waterbody Tier Level Use Support Categoria	031403010501 F&W 1?	low 0.0	Date of V	/Long Meth Ite of Site V VLA Respond TMDL? Date of TM	Year Respond	equested for File Was Creatonse ID Number GP	r modeling
Propose Comments included Yes No 12 Digit HUC Code Use Classification Site Visit Completed Waterbody Impaired Antidegradation Waterbody Tier Level Use Support Categoria	031403010501 F&W 1?	Alloca	Date of V Approve Approve	/Long Meth Ite of Site V VLA Respond TMDL? Date of TM	Year Respond Isia	equested for File Was Creatonse ID Number GP	r modeling
Propose Comments included Yes No 12 Digit HUC Code Use Classification Site Visit Completed Waterbody Impaired Antidegradation Waterbody Tier Level Use Support Categoria	031403010501 F&W 1?	Alloca	Date of V Approve Approve	/Long Meth Ite of Site V VLA Respond ITMDL? Date of TM	Year Respond Silver DL ation	equested for File Was Created in Section Number GP 10/25/2023 11/15/2023	r modeling
Propose Comments included Yes No 12 Digit HUC Code Use Classification Site Visit Completed Waterbody Impaired Antidegradation Waterbody Tier Level Use Support Categoria	031403010501 F&W F IP	Alloca	Date of V Approve Approval Approval Es D	/Long Meth /Long	Year Respond Sin Sin Type	TFILE Was Created in Section 10 Number GP 10/25/2023 11/15/2023	r modeling

Waste Load Allocation Summary Page 2 **Conventional Parameters** Other Parameters Qw Qw MGD Qw MGD MGD Qw MGD Annual Effluent Limits Season Season Season Season From From From Qw 0.014 MGD From Through Through Through Through CBOD5 33.4 mg/L TP CBOD5 CBOD5 TP NH3-N mg/L TN NH3-N NH3-N TKN mg/L TSS TSS TKN TKN D.O. mg/L D.O. D.O. "Monitor Only" Parameters for Effluent: Parameter Frequency Parameter Frequency TKN Monthly NO2+NO3-N Monthly TΡ Monthly

Parameter	Summer	Winter
CBODu	2 mg/l	mg/l
NH3-N	0.11 mg/l	mg/l
Temperature	30 °C	°C
pH	7 su	su

	Hydrology at Dis	scharge Loc	ation	
Drainage Area	Drainage Area	1265.483	sq mi	Method Used to Calculate
Qualifier	Stream 7Q10	43.164	cfs	ADEM Estimate w/USGS Gage Data
Exact	Stream 1Q10	32.373		75%of 7Q10
	Stream 7Q2	50.52	cfs	ADEM Estimate w/USGS Gage Data
	Annual Average	1645.518	cfs	ADEM Estimate w/USGS Gage Data

Comments This WLA is specifically for Outfall 004. The CBOD5 annual effluent limit of 33.4 mg/l is equivalent to 3.9 and/or lb/d given the proposed discharge flow.

Notations

NPDES Individual Permit Mod/Reissue (Form 187) - Supplementary Information for Industrial Facilities

version 2.7

(Submission #: HPV-XCDP-CVTQV, version 1)

Details

Submission ID HPV-XCDP-CVTQV

Status

In Process

Fees

Fee

\$5,615.00

Payments/Adjustments (\$5,615.00)

Balance Due

\$0.00 (Paid)

Form Input

General Instructions

Processing Information

Purpose of Application

Reissuance of Permit Due to Approaching Expiration

Please indicate if the Permittee is applying for a permit transfer and/or name change in addition to permit modification or reissuance:

None

Action Type

Reissuance

If applicable, briefly describe any planned changes at the facility that are included in this reissuance application: NONE PROVIDED

General Information

SID Permit Number (if your facility currently holds an SID permit, please provide that number below): NONE PROVIDED

NPDES or General Permit Numbers (if applicable, please list all permit numbers):

AL0000868

Is this facility/site only applying for permit coverage for discharges from stormwater?

No

Is a new stormwater outfall being added?

No

Permit Information

Permit Number

AL0000868

Current Permittee Name

Arclin USA LLC

Permittee

Permittee Name

Arclin USA LLC

Mailing Address

14139 US Highway 84

Andalusia, AL 36421

1 Per ADEM Admin. Code r. 335-6-6-.09 (1), a Responsible Official is defined as CEO, President, any position at a level of Vice President or higher, Owner, Partner, Managing Member (LLC), or ranking elected official. Please provide the contact information for the person meeting this definition.

Do NOT enter information for a person that is/will be a Duly Authorized Representative (DAR) (i.e. a person that has been delegated signatory permissions by a Responsible Official). A person that is a Duly Authorized Representative is NOT considered a RESPONSIBLE OFFICIAL.

Responsible Official

Prefix

Mr.

First Name Last Name

Daniel Cox

Title

Plant Manager

Organization Name

Arclin USA LLC

Phone Type Number

er Extension

Mobile

3343438101

Email

daniel.cox@arclin.com

Mailing Address

14139 US Highway 84

Andalusia, AL 36421

Does the Responsible Official intend to delegate signatory authority for DMRs or other compliance reports to an individual as a duly authorized representative (DAR) for this site?

Existing Permit Contacts

Affiliation Type	Contact Information	Remove?
DMR Contact, Environmental Contact	Andy Smith, Arclin USA LLC	NONE PROVIDED
Permittee	Arclin USA LLC	NONE PROVIDED
Notification Recipient, Responsible Official	Bobby Franklin, Arclin USA LLC	Remove

Facility/Site Information

Facility/Site Name

Arclin, Inc.

Organization/Ownership Type

LLC

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Facility/Site Address or Location Description

14139 US Highway 84 Andalusia, AL 36421

Facility/Site County

Covington

Detailed Directions to the Facility/Site

NONE PROVIDED

Facility Map

<u>Site Map - Form 187.pdf - 07/05/2023 09:36 AM</u> **Comment**

NONE PROVIDED

Please refer to the link below for Lat/Long map instruction help:

Map Instruction Help

Facility/Site Front Gate Latitude and Longitude

31.34166700000001,-86.52611100000000

14139 US Highway 84, Andalusia, AL

SIC Code(s) [Please enter Primary SIC Code first followed by any additional applicable SIC Codes]

2821-Plastics Material Synthetic Resins and Nonvulcanizable Elastomers

NAICS Code(s) [Please enter Primary NAICS Code first followed by any additional applicable NAICS Codes]

325211-Plastics Material and Resin Manufacturing 325199-All Other Basic Organic Chemical Manufacturing

Facility/Site Contact

Prefix

Mr.

First Name Last Name

Daniel Cox

Title

Plant Manager

Organization Name

Arclin USA LLC

Phone Type Number Extension

Mobile 3343438101

Email

daniel.cox@arclin.com

Address

14139 US Highway 84 Andalusia, AL 36421

DMR Contact(s) (1 of 1)

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DMR Contact

Prefix

Mr.

First Name Last Name Andy Smith

Title

EHS Manager

Phone Type Number Extension

Business

3342227581 227

Email

andy.smith@arclin.com

Address

14139 US Highway 84 Andalusia, AL 36421

Applicant Business Entity Information

Address of Incorporation

14139 US Highway 84 Andalusia, AL. 36421

Agent Designated by the Corporation for Purposes of Service

Name	Address
Daniel Cox	14139 US Highway 84 Andalusia, AL. 36421

Please provide all corporate officers

Name	Title	Address
Mark Glaspey	Executive VP of Mfg.	1000 Holcomb woods Pkwy Suite 342 Roswell, GA. 30076

Does the applicant applying for coverage have a Parent Corporation?

Yes

Parent Corporation of Applicant

Name	Address		
Arclin USA Holding Inc.	1000 Holcomb woods Pkwy Suite 342 Roswell, GA. 30076		

Does the applicant applying for coverage have Subsidiary Corporations?

No

Enforcement History

Has the applicant been issued any Notices of Violation, Orders (Consent or Administrative/Unilateral), or Judicial Actions (Complaint, Settlement Agreement, Consent Decree, or Court Order) concerning water pollution or other permit violations within the State of Alabama in the past five years?

Business Activity

A facility with processes inclusive in the business areas shown below may be covered by Environmental Protection Agency s

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(EPA) categorical effluent guideline standards. These facilities are termed ◆categorical users ◆. If unsure, please call the Industrial Section at (334) 271-7943 to discuss or use the link below to contact the Permit Engineer for the county the facility is/will be located in.

Industrial Section Assignment Map

If your facility conducts or will be conducting any of the processes listed below (regardless of whether they generate wastewater, waste sludge, or hazardous wastes), please check the category of business activity: Organic Chemicals Manufacturing

Give a brief description of all operations at this facility including primary products or services:

Formaldehyde and Resin Manufacturing

Water Supply

Water Sources (check all that apply):

Municipal Water Utility

Please specify the City of the Municipal Water Utility:

Andalusia

Name of Utility	Million Gallons per Day (MGD)			
Andalusia Utilities Dept.	0.0073			

Cooling Water Intake Structure Information

Does the provider of your source water operate a surface water intake?

No

Is the provider a public water system (defined as a system which provides water to the public for human consumption or which provides only treated water, not raw water)?

Yes

Outfalls (1 of 3)

001

Please click below if this discharge no longer exists or is no longer required:

NONE PROVIDED

Outfall Identifier

001

Receiving Water

Prestwood Creek

Does the discharge enter the named receiving water via an unnamed tributary?

Unnamed Tributary

Indicate if either of the following characteristics apply to this discharge:

Process Water commingled with Stormwater

Estimated Average Daily Flow (MGD)

0.00

Monitoring/Sampling Point Location

31.3419000000000, -86.5241999999999

Outfalls (2 of 3)

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Please click below if this discharge no longer exists or is no longer required:

NONE PROVIDED

Outfall Identifier

002

Receiving Water

Prestwood Creek

Does the discharge enter the named receiving water via an unnamed tributary?

Unnamed Tributary

Indicate if either of the following characteristics apply to this discharge:

None apply

Estimated Average Daily Flow (MGD)

0.00

Monitoring/Sampling Point Location

31.3419000000000, -86.5241999999999

Outfalls (3 of 3)

004

Please click below if this discharge no longer exists or is no longer required:

NONE PROVIDED

Outfall Identifier

004

Receiving Water

Conecuh River

Does the discharge enter the named receiving water via an unnamed tributary?

NONE PROVIDED

Indicate if either of the following characteristics apply to this discharge:

Process Water commingled with Stormwater

Estimated Average Daily Flow (MGD)

0.0140

Monitoring/Sampling Point Location

31.34166700000000, -86.53333300000000

Stormwater Outfalls (1 of 1)

003

Please click below if this discharge no longer exists or is no longer required:

NONE PROVIDED

Outfall Identifier

003

Receiving Water

Prestwood Creek

Does the discharge enter the named receiving water via an unnamed tributary?

Unnamed Tributary

Indicate if either of the following characteristics apply to this discharge:

Stormwater only (no comingled process waste water excluding air conditioner condensate and fire testing waters)

Monitoring/Sampling Point Location

31.3419000000000, -86.5241999999999

Process Flow Schematic with Wastewater Treatment(s), If Applicable

For an example of a process flow diagram, please use the link below. Figure 1: Example of Process Flow Schematic

Process Flow Schematic

Process Flow.pdf - 07/05/2023 10:19 AM

Comment

NONE PROVIDED

Anti-Degradation Evaluation

Is this a new or increased discharge that began after April 3, 1991?

No

Additional Information

Do you share an outfall with another facility?

Νo

Indicate if automatic sampling equipment or continuous wastewater flow metering equipment is being operated at this facility:

Current	Yes/No	
Continuous Wastewater Flow Metering Equipment	Yes	
Automatic Sampling Equipment	N/A	

Indicate if installation automatic sampling equipment or continuous wastewater flow metering equipment planned at this facility:

Planned	Yes/No	
Continuous Wastewater Flow Metering Equipment	N/A	
Automatic Sampling Equipment	No	

Please describe the equipment below:

Mass Flow Meters used

Please attach the process schematic with sampling equipment locations.

Drawing with Flow Meters.pdf - 07/05/2023 11:25 AM

Comment

NONE PROVIDED

Are any process changes or expansions planned during the next three years that could alter wastewater volumes or characteristics (Consider production processes as well as air or water pollution treatment processes that may affect the discharge.)?

No

Do you use biocides, corrosion inhibitors, or chemical additives in your cooling or blowdown water?

Yes

The applicant must provide a list of the following information for each biocide or chemical:

- (1) Name and general composition of biocide or chemical (if composition is not provided on MSDS sheet)
- (2) 48-hour or 96-hour LC50 data for organisms representative of the biota of the waterway into which the discharge will ultimately reach. For freshwater, the fathead minnow (Pimephales promelas) and cladoceran (Ceriodaphnia dubia) are the test organisms. For salt water, the mysid shrimp and the sheepshead minnow or inland silverside are the test organisms. Other acceptable aquatic organisms may be allowed by the Department if sufficient information is provided. If the MSDS sheet does not provide data for the organisms specified above, the facility must provide the data unless the Department grants approval for an alternate organism.
- (3) Quantities to be used
- (4) Frequencies of use
- (5) Maximum proposed discharge concentrations
- (6) EPA registration of number, if applicable and is not provided on the MSDS sheet.

List of Biocides

List of Diocides
Please list biocides below:
See attachment

Biocide/Corrosion Inhibitor Summary Sheet

Water Treatment Chemical List,pdf - 07/05/2023 10:29 AM

Comment

NONE PROVIDED

Safety Data Sheets (SDS)

Water Treatment Chemical SDS's,pdf - 07/05/2023 10:32 AM

Comment

NONE PROVIDED

Treatment

Is any form of wastewater treatment (see list below) practiced at this facility?

Yes

Treatment devices or processes used or proposed for treating wastewater or sludge (check as many as appropriate).

Neutralization, pH correction

Is any form of wastewater treatment (or changes to an existing wastewater treatment) planned for this facility within the next three years?

No

Facility Operational Characteristics

Indicate whether the facility discharge is:

Continuous through the year

Comments:

NONE PROVIDED

Non-Discharged Wastes

Are any waste liquids or sludges generated and not disposed of in the sanitary sewer system? Yes

Waste Generated	Quantity	Disposal	On-Site or Off-	If Off-Site, Identify the
	(lbs/day)	Method	Site?	Facility:
Cooling Tower Clean out	70	Solidification	Off-Site	Big Sky Environmental

Does any outside firm remove any of the above checked wastes?

Yes

Hauler Information

Name	Address	City	State	Zip
Spectrum Industrial Services	85 Spectrum Cove	Alabaster	AL	35007

EPA Application Forms

All Applicants must submit certain EPA permit application forms. More than one application form may be required.

Form 1 - General Information Form required for all applications

Form 2C - Should be submitted for facilities with existing discharge(s) of process wastewater.

Form 2D - Should be submitted for facilities that have not yet commenced discharge(s) of process wastewater.

Form 2E - Should be submitted for facilities who discharge non-process wastewater, such as non-contact cooling water or boiler blowdown.

Form 2F - Should be submitted for all discharges of storm water associated with an industrial activity. The EPA application forms are found on the Department s website here.

EPA Form 1

EPA Form 1 with attachments.pdf - 07/05/2023 04:33 PM Comment

NONE PROVIDED

Additional EPA Forms (EPA Form 2C, 2D, 2E and/or 2F)

EPA Form 2F with attachments.pdf - 07/05/2023 04;34 PM EPA Form 2C with attachments.pdf - 07/05/2023 04:34 PM Comment

NONE PROVIDED

Other attachments (as needed)

NONE PROVIDED

Comment

NONE PROVIDED

Additional Attachments

Please attach any additional information as needed.

BMP Plan,pdf - 07/06/2023 02:07 PM Comment BMP Plan

Application Preparer

9/18/2023 3:36:09 PM Page 9 of 11

Application Preparer

Prefix

Mr.

First Name Last Name

Andy

Smith

Title

HSE Coordinator

Organization Name

NONE PROVIDED

Phone Type Number

Extension

Business

3342227581 227

Email

andy.smith@arclin.com

Address

14139 US Highway 84 Andalusia, AL 36421

Attachments

Date	Attachment Name	Context	Confidential?	User	
7/6/2023 2:07 PM	BMP Plan.pdf	Attachment	No	Andy Smith	
7/5/2023 4:34 PM	EPA Form 2F with attachments.pdf	Attachment	No	Andy Smith	
7/5/2023 4:34 PM	EPA Form 2C with attachments.pdf	Attachment	No	Andy Smith	
7/5/2023 4:33 PM	EPA Form 1 with attachments.pdf	Attachment	No	Andy Smith	
7/5/2023 11:25 AM	Drawing with Flow Meters.pdf	Attachment	No	Andy Smith	
7/5/2023 10:32 AM	Water Treatment Chemical SDS's.pdf	Attachment	No	Andy Smith	
7/5/2023 10:29 AM	Water Treatment Chemical List.pdf	Attachment	No	Andy Smith	
7/5/2023 10:19 AM	Process Flow.pdf	Attachment	No	Andy Smith	
7/5/2023 9:36 AM	Site Map - Form 187.pdf	Attachment	No	Andy Smith	

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Agreements and Signature(s)

SUBMISSION AGREEMENTS

- I am the owner of the account used to perform the electronic submission and signature.
- I have the authority to submit the data on behalf of the facility I am representing.
- I agree that providing the account credentials to sign the submission document constitutes an electronic signature equivalent to my written signature.
- I have reviewed the electronic form being submitted in its entirety, and agree to the validity and accuracy of the information contained within it to the best of my knowledge.

"I certify under penalty of lawthat 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 fine and imprisonment for knowing violations."

"I further certify under penalty of lawthat all analyses reported as less than detectable in this application or attachments thereto were performed using the EPA approved test method having the lowest detection limit for the substance tested."

NOTE: 335-6-5-.14 SIGNATORIES TO PERMIT APPLICATIONS AND REPORTS.

The application shall be signed by a responsible official, a request for variance from categorical pretreatment standards, and a category determination request shall be signed by a responsible official, as indicated below.

- In the case of a corporation, by a principal executive officer of at least the level of vice president;
- . In the case of a partnership, by a general partner;
- In the case of a sole proprietorship, by the proprietor; or
- In the case of a municipal, state, federal, or other public entity, by either a principal executive officer, or ranking elected official

Signed By

Daniel Cox on 07/07/2023 at 10:31 AM

9/18/2023 3:36:09 PM Page 11 of 11

EPA Identification Number NPDES Permit Number Facility Name Form Approved 03/05/19 OMB No. 2040-0004 100000088255 AL0000868 Arclin USA LLC U.S. Environmental Protection Agency Form Application for NPDES Permit to Discharge Wastewater **ŞEPA** 1 **NPDES** GENERAL INFORMATION SECTION 1. ACTIVITIES REQUIRING AN NPDES PERMIT (40 CFR 122.21(f) and (f)(1)) Applicants Not Required to Submit Form 1 is the facility a new or existing publicly owned Is the facility a new or existing treatment works 1.1.1 1.1.2 treatment works? treating domestic sewage? If yes, STOP. Do NOT complete If yes, STOP, Do NOT No ~ Form 1. Complete Form 2A. complete Form 1, Complete Form 2S. 1.2 Applicants Required to Submit Form 1 is the facility a concentrated animal feeding 1.2.2 1.2.1 Is the facility an existing manufacturing, Activities Requiring an NPDES Permit operation or a concentrated aquatic animal commercial, mining, or silvicultural facility that is production facility? currently discharging process wastewater? Yes → Complete Form 1 Yes → Complete Form and Form 2B. 1 and Form 2C. 1.2.3 Is the facility a new manufacturing, commercial, 1.2.4 Is the facility a new or existing manufacturing. mining, or silvicultural facility that has not yet commercial, mining, or silvicultural facility that commenced to discharge? discharges only nonprocess wastewater? Yes → Complete Form 1 No Yes → Complete Form V ✓ No and Form 2D. 1 and Form 2E. 1.2.5 Is the facility a new or existing facility whose discharge is composed entirely of stormwater associated with industrial activity or whose discharge is composed of both stormwater and non-stormwater? Yes → Complete Form 1 No and Form 2F unless exempted by 40 CFR 122.26(b)(14)(x) or (b)(15).SECTION 2, NAME, MAILING ADDRESS, AND LOCATION (40 CFR 122.21(f)(2)) 2.1 **Facility Name** Arclin USA LLC Mailing Address, and Location 2.2 **EPA Identification Number** 100000088255 2.3 **Facility Contact** Name (first and last) Title Phone number EHS Manager (334) 343-0429 Andy Smith Email address andy.smith@arclin.com 2.4 **Facility Mailing Address** Name, I Street or P.O. box 14139 US Hwy 84 ZIP code City or town State 36421 Andalusia . AL.

	A Identifica 1000000	ion Number		mit Number 00868	Facility Na		Form Approved 03/05/19 OMB No. 2040-0004
	2.5	Facility Locati		,000a	Arclin USA	LLC	
Name, Mailing Address, and Location Continued	2.0		ımber, or other sı	pecific identifier			
Mailing cation (County name Covington		County code (if known)		
Name, and Lo		City or town Andalusia		State AL			ZIP code 6421
SECTIO		AND NAICS CO					
	3.1	SIC C	ode(s)	Description (optional)		
		325211					
		325199					
SIC and NAICS Codes							
AICS							
nd N/	3.2	NAICS	Code(s)	Description (optional)		
SIC a							
050710	N 4 65	TO A TOP IN FOR	MATION /40 OFF	2.400.04(5)(4))			
SECTIO	4.1	RATOR INFOR		K 122.21(1)(4))			
		Daniel Cox					
tion	4.2	Is the name you	u listed in Item 4.	1 also the owner	?		
Operator Information		☐ Yes ☑					
l or	4.3	Operator Statu		1			
pera		☐ Public—fed ☐ Private	deral L	☐ Public—state ☐ Other (specify)		Other pu	blic (specify)
O	4.4	Phone Numbe	r of Operator				
		(334) 343-8101					
5	4.5	Operator Addr Street or P.O. E					
mati ed		14139 US Hwy 8					
Operator Information Continued		City or town	-	State		1	IP code
erato		Andalusia Email address	of operator	AL]36	5421
8		daniel.cox@arc	,		<u> </u>		
SECTIO		IAN LAND (40 C					
Indian Land	5.1	_	cated on Indian L	and?			
تقا		│ □ Yes 🗹	∃ No				

	ldentification		NPDES Permit No AL0000868			Facility Name		Form Approved 03/05/19 OMB No. 2040-0004		
	10000008				- (18) (2)	Arclin USA LLC				
SECTION			MENTAL PERMITS				rión no	anding normit number for each		
ntæl	6.1					ous wastes)		onding permit number for each) UIC (underground injection of		
Jme		water)	ischarges to surface	LI KUKA (nazaroo	ous wastes)	🗀	fluids)		
Enviro Permits		AL000086	8					,		
Per		PSD (air e		☐ Nonatta	inment	orogram (CAA)		NESHAPs (CAA)		
Existing Environmental Permits			1 , X002, X003 X007-X015	□ Drodge	or fill /C	WA Section 404)	\vdash	Other (specify)		
ŭ		U OGBAN QUI	mping (MPRSA)	Li Dieuge	OF THE TO	WYA Section 404)		Other (specify)		
SECTIO	N 7. MAP	(40 CFR 122.2	1(f)(7))							
Мар	7.1	Have you attac		ap containing	all requi	red information to this	s appl	lication? (See instructions for		
					See req	ulrements in Form 28	3.)			
SECTIO			IESS (40 CFR 122.21)							
	8.1		ature of your business and Resin Manufactur							
v		Torridiacityac	and resim manarace	,p.						
Nature of Business										
Bus										
re of										
Natu										
_										
SECTIO	N 9. COC	LING WATER	INTAKE STRUCTURI	ES (40 CFR 1	22.21(f	(9))				
	9.1	Does your faci	lity use cooling water?	,						
Ses.			No → SKIP to Item							
Cooling Water ntake Structures	9.2	Identify the so	urce of cooling water.	(Note that fac	ilities th	at use a cooling water	er inta	ke structure as described at FR 122.21(r). Consult with your		
ling Stru			tting authority to deter							
Coo		Public Water S	-							
_ =										
OFOTIO	AL 50. 350	EN MEE DEOL	ESTS (40 CFR 122.2	4 (E) (4 (\)	-					
SECTIO	10. VA				the var	iances authorized at	40 CF	R 122.21(m)? (Check all that		
sts		apply. Consult when.)	with your NPDES per	rmitting autho	rity to d	etermine what inform	ation	needs to be submitted and		
Variance Requests			nentally different facto 301(n))	rs (CWA		Water quality related 302(b)(2))	d efflu	ent limitations (CWA Section		
rianc			nventional pollutants (301(c) and (g))	CWA		Thermal discharges	rges (CWA Section 316(a))			
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		✓ Not app								
		1.00 api								

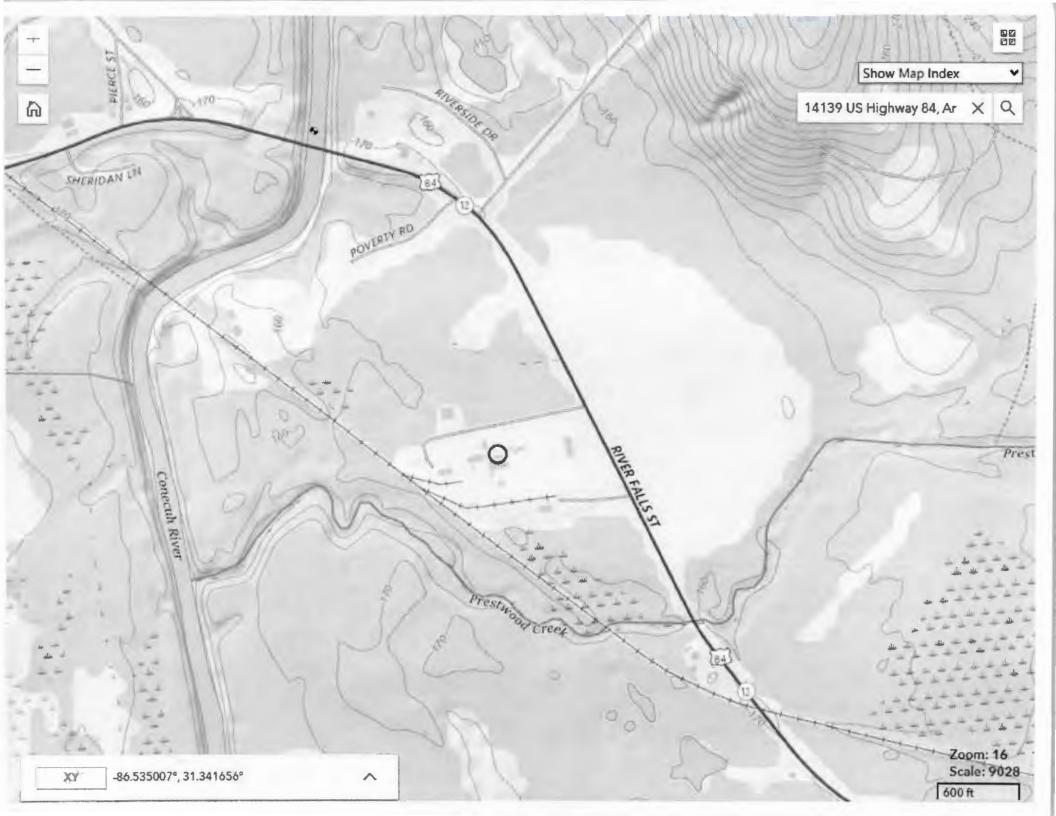
OMB No. 2040-0004 100000088255 AL0000868 Arclin USA LLC SECTION 11. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d)) In Column 1 below, mark the sections of Form 1 that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing to alert the permitting authority. Note that not all applicants are required to provide attachments. Column 1 Column 2 V Section 1: Activities Requiring an NPDES Permit w/ attachments V w/ attachments Section 2: Name, Mailing Address, and Location V Section 3: SIC Codes w/ attachments V Section 4: Operator Information \Box w/ attachments \Box Section 5: Indian Land П w/ attachments Section 6: Existing Environmental Permits w/ attachments Checklist and Certification Statement w/ topographic V V w/ additional attachments Section 7: Map map V Section 8: Nature of Business w/ attachments ~ Section 9: Cooling Water Intake Structures w/ attachments П Section 10: Variance Requests w/ attachments Section 11: Checklist and Certification Statement w/ attachments 11.2 **Certification Statement** 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 fine and imprisonment for knowing violations. Name (print or type first and last name) Official title Plant Manager
Date signed Signature

Facility Name

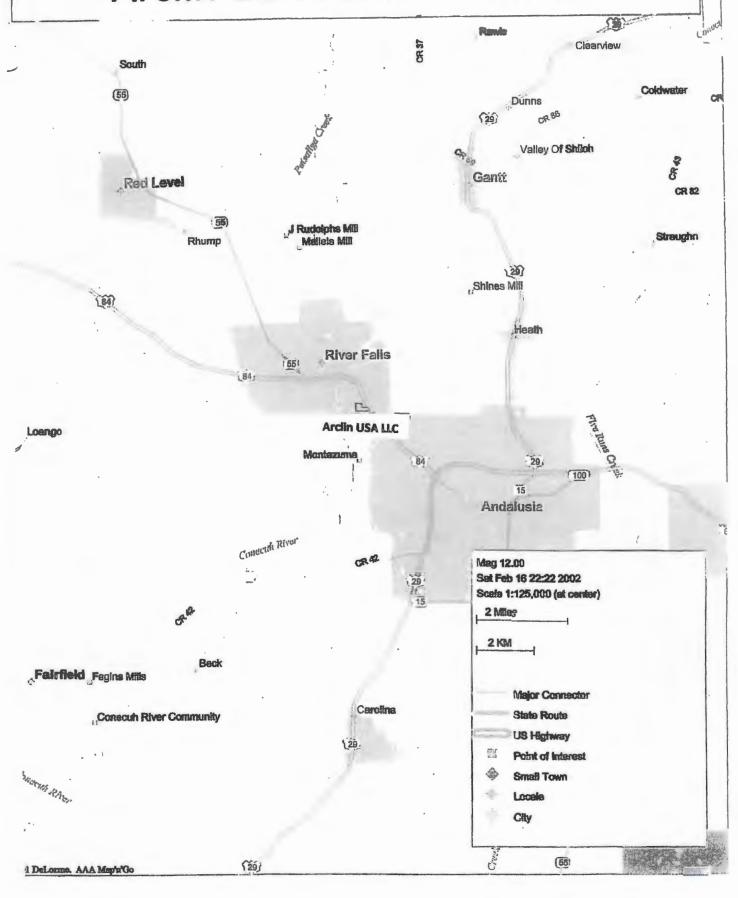
Form Approved 03/05/19

NPDES Permit Number

EPA Identification Number



Arclin USA Plant Location



Form Approved 03/05/19 OMB No. 2040-0004 NPDES Permit Number EPA Identification Number Facility Name AL0000868 Arclin USA LLC 100000088255 U.S. Environmental Protection Agency Form Application for NPDES Permit to Discharge Wastewater **ŞEPA** 2C **NPDES** EXISTING MANUFACTURING, COMMERCIAL, MINING, AND SILVICULTURE OPERATIONS SECTION 1. OUTFALL LOCATION (40 CFR 122.21(g)(1)) Provide information on each of the facility's outfalls in the table below. Outfall **Outfall Location Receiving Water Name** Latitude Longitude Number 001 20' 30" 34" Prestwood Creek to Conecu 31° 86° 31' 002 Prestwood Creek to Conecu 31° 20' 30" 86° 31' 34" 30" 31' 34" Conecuh River 31° 20' 86° 004 **SECTION 2. LINE DRAWING (40 CFR 122.21(g)(2))** Have you attached a line drawing to this application that shows the water flow through your facility with a water Line Drawing balance? (See instructions for drawing requirements. See Exhibit 2C-1 at end of instructions for example.) SECTION 3. AVERAGE FLOWS AND TREATMENT (40 CFR 122.21(g)(3)) For each outfall identified under Item 1.1, provide average flow and treatment information, Add additional sheets if necessary. **Outfall Number** 001 Operations Contributing to Flow Operation Average Flow Cooling Tower Blowdown - No flow >5 years for this outfall mgd Average Flows and Treatment Boiler Blowdown mgd Storm Water (potential contact) mgd Safety Showers mgd Treatment Units Description Final Disposal of Solid or Code from Liquid Wastes Other Than (include size, flow rate through each treatment unit, Table 2C-1 by Discharge retention time, etc.) No flow for this outfall - >5 years

片	PA Identificatio 10000008		NPDES Permit Number AL0000868	Facility N Arclin US		Form Approved 03/05/19 OMB No. 2040-0004
	3.1		**Outfall Nu	mber** 002		
	cont.		Operation Operations C	ontributing f		erage Flow
		One	ce through cooling with option to 004		AV	mgd
					4.64.	
			No flow for this outfall - >5 years			mgd
		-				mgd
						mgd
		(include	Description size, flow rate through each treatment unit, retention time, etc.)		ode from able 2C-1	Final Disposal of Solld or Liquid Wastes Other Than by Discharge
inued			No flow for this outfall - >5 years			
Average Flows and Treatment Continued						
Treatme						
and			**Outfall Nu Operations (to Flow	
Flows			Operation			verage Flow
rage		Cooling Tow	er Blowdown - Flow is for all sources throug	gh 00		0.0140 mgd
Ave			Boller Blowdown			mgd
			Storm Water (potential contact)			mgd
	-		Safety Showers			mgd
				tment Units		51 - 121 1 - 10 - 11 - 1
		(include	Description size, flow rate through each treatment unit, retention time, etc.)		Code from Table 2C-1	Final Disposal of Solid or Liquid Wastes Other Than by Discharge
		Effluent wat	er will flow through steel holding tanks and	рН ғ	1U , 4A	
	3.2	Are you apr	olying for an NPDES permit to operate a priv	ately owned t	treatment works	}
System		☐ Yes		V N	No → SKIP to S	
Sys	3.3	Have you a	ttached a list that identifies each user of the		vrks? No	

	Identification		NPDES Permit N AL000086	1	Facility Name		Form Approved 03/05/19 OMB No. 2040-0004			
	88000008				Arclin USA LLC					
SECTION			FLOWS (40 CFR 122.21					1000000		
	4.1		storm runoff, leaks, or sp	oills, are any disc				isonal?		
	4.0	✓ Yes	ormation on intermittent	or soconal four		SKIP to Section 5				
	4.2	1 2 2 2 2			requency	Flow		ecessary.		
		Outfall Number	Operation (list)	Average Days/Week	Average Months/Year	Long-Term Average	Maximum Daily	Duration		
1			Water collected in tank	3 days/wee	ek 12 months/year	0.0140 mgd	0.1478 mgd	1 days		
lows		004		days/we	ek months/year	mgd	mgd	days		
Intermittent Flows				days/we	ek months/year	mgd	mgd	days		
itermil				days/we	ek months/year	mgd	mgd	days		
=				days/we	ek months/year	mgd	mgd	days		
				days/we	ek months/year	mgd	mgd	days		
	A Property Law Company			days/we	ek months/year	mgd	mgd	days		
				days/we	ek months/year	mgd	mgd	days		
				days/we	ek months/year	mgd	mgd	days		
SECTIO	- m, m, 450, 10, ma,		40 CFR 122.21(g)(5))	<u></u>		·				
	5.1	Do any effl	uent limitation guidelines	s (ELGs) promul	gated by EPA under Sec	tion 304 of the C	WA apply to yo	our facility?		
		✓ Yes			□ No →	SKIP to Section 6	S.			
Gs	5.2		e following information or	n applicable ELC						
EL		El	_G Category		ELG Subcategory		Regulato	ry Citation		
Applicable ELGs		Organic Ch	emicals, Plastics, and S		Thermosetting Resins		CFR 40 Part	414 subpart E		
Арр		: Chemicals,	, Plastics, and Synthetic	, co	mmodity Organic Chem	icals	CFR 40 Part	414 subpart F		
17-17-17	5.3	Are any of	the applicable ELGs exp	oressed in terms	of production (or other	neasure of opera	ution)?			
ons		✓ Yes			☐ No →	SKIP to Section	6.			
itati	5.4		actual measure of daily	production expr	essed in terms and units	of applicable EL	.Gs.			
d Lim		Outfall Number	Opera	tion, Product, o	r Material	Quantity	per Day	Unit of Measure		
n-Bas(004	Forma	140,0	000	lbs				
£:	I									
oqnc	Yes 5.4 Provide an actual measure of daily production expressed in terms and units of applicable ELGs. Outfall Number Outf									

EPA	dentification	n Number	NPDES Permit Number		Facility Name	9		pproved 03/05/19
1	8000000	3255	AL0000868		Arclin USA L	.LC	ON	1B No. 2040-0004
SECTIO	V 6. IMPR	OVEMENTS	(40 CFR 122.21(g)(6))					
	6.1	upgrading, or	ently required by any federal, s operating wastewater treatme charges described in this applic	nt equipment or	practices or	any other en	vironmental program	
		Yes			₩ No =	➤ SKIP to Ite	əm 6.3.	
un.	6.2	Briefly identif	y each applicable project in the					
nent		Brief Identi	fication and Description of	Affected Outfails	Sol	urce(s) of	Final Compl	iance Dates
nprover		Differ (don't	Project	(list outfail number)		scharge	Required	Projected
Upgrades and Improvements								
٦								
	6.3		ached sheets describing any ac ct your discharges) that you no					ntal projects
		☐ Yes] No		V	Not applicable	
SECTIO	N 7. EFFI	UENT AND I	NTAKE CHARACTERISTICS (40 CFR 122,21	(g)(7))			
* .	See the	instructions to	determine the pollutants and p	parameters you	are required	to monitor ar	nd, in turn, the tables	you must
* 1	·		cants need to complete each to					
			al and Non-Conventional Pol					
	7.1	your outfalls	esting a walver from your NPD	ES permitting a	uthority for o	ne or more o	f the Table A polluta	nts for any of
		☐ Yes				SKIP to Ite		
	7.2	If yes, indica	te the applicable outfalls below	. Attach waiver	request and o	other required	d information to the a	application.
		Outfa	all Number	Outfali Nu	mber		Outfall Number	
ristics	7.3		mpleted monitoring for all Table ad attached the results to this a		ige?			
acte		✓ Yes					peen requested from by for all pollutants at	
Char	Table E	. Toxic Metal	s, Cyanide, Total Phenols, an	nd Organic Tox	ic Pollutants	itang autrom	y for all politicatios at	ali vatidijo.
Effluent and Intake Characteristics	7.4	Do any of the	e facility's processes that contri bit 2C-37 (See end of instruction	bute wastewate			he primary industry (ategories
and		✓ Yes			□ No ∃	SKIP to Ite	m 7.8.	
ent	7.5	Have you ch	ecked "Testing Required" for al	Il toxic metals, c	yanide, and t	otal phenols	in Section 1 of Table	∋ B?
E		✓ Yes			☐ No			
•	7.6	List the appli in Exhibit 2C	cable primary industry categori	les and check th	e boxes indi	cating the rec	quired GC/MS fraction	n(s) identified
			Primary Industry Category				GC/MS Fraction(s) applicable boxes.)	
		(Organic Chemical Manufacturir	ng	☑ Volatile	☑ Acid	☑ Base/Neutral	☐ Pesticide
					☐ Volatile	☐ Acid	☐ Base/Neutral	☐ Pesticide
					☐ Volatile	☐ Acid	☐ Base/Neutral	☐ Pesticide

EPA	identificatio	n Number	NPDES Permit Nun	nber	rac	Hity Name	Form Approved 03/05/19
1	8000000	8255	AL0000868		Arcli	n USA LLC	OMB No. 2040-0004
	7.7	GC/MS fracti	ecked "Testing Required" ions checked in Item 7.67		ed pollutants ir		igh 5 of Table B for each of the
		✓ Yes				No	
	7.8	where testing	ecked "Belleved Present" g is not required?	or "Beileved"	Absent" for all		n Sections 1 through 5 of Table B
		✓ Yes			<u>L</u>	No	
	7.9	required or (ner required i	nformation for t		which you have indicated testing is Fable B, pollutants that you have
	7.10		plicant qualify for a small	husiness eve	motion under t		od in the instructions?
p	7.10		Note that you qualify at then SKIP to Item 7.12.			No	ed in the mistractions?
Effluent and Intake Characteristics Continued	7.11	determined t		juant i tative d	ata or an expla	nation for those S	ollutants for which you have Sections 2 through 5, Table B,
eris	Table C	Certain Cor	ventional and Non-Cor	ventional P	ollutants		
Charact	7.12		dicated whether pollutant			Believed Absent	for all pollutants listed on Table C
9	,	✓ Yes				No	
nt and Inta	7.13		an ELG and/or (2) quantit				that are limited either directly or nts for which you have indicated
ne		✓ Yes				No	
# <u></u>	Table D). Certain Haz	ardous Substances and	d Asbestos			
	7.14	all outfalls?	dicated whether pollutant	s are "Believe	ed Present" or	Believed Absent	" for all pollutants listed in Table D for
. 4 .		✓ Yes				No	
	7.15		mpleted Table D by (1) droviding quantitative data			pplicable pollutan	ts are expected to be discharged
		Yes			$ \mathbf{\nabla}$	No	
	Table E	. 2,3,7,8-Tetra	achlorodibenzo-p-Dioxí	n (2,3,7,8-TC	(DD)		
	7.16		cility use or manufacture of the control of the con				listed in the instructions, or do you
		☐ Yes →	Complete Table E.		V	No → SKIP to	Section 8.
	7.17	l ′	ompleted Table E by repo	rting qualitati	ve data for TCI		
		Yes				No	
SECTIO			ACTURED TOXICS (40				
ned	8,1	an intermedi	ant listed in Table B a sul iate or final product or by		component of a	a substance used No → SKIP t	or manufactured at your facility as
actr	0.0		dania balaw			140 - SIXIF (o Section 5.
nuf	8.2	List the polit	utants below.				
- Manufa Toxics		1. Phenol		4.			7.
Used or Manufactured Toxics		2. Total Ph	enols	5.			8.
⊃		3.		6.			9.

	Identificatio			ES Permit Number AL0000868		Facility Nan Arclin USA			Form Approved 03/05/19 OMB No. 2040-0004
SECTION	N 9. BIOL	OGICAL TOX	ICITY TEST	S (40 CFR 122.21(g)(11))				
s	9.1			dge or reason to believe the on (1) any of your discharge		(2) on a rece		relation	to your discharge?
lest	9.2	Identify the to	ests and their	r purposes below.					
xicity	V.L	Tes		Purpose of Test(s))	•	to NPDES Authority?		Date Submitted
Biological Toxicity Tests		Acute 1	oxicity	Permit Requirement	t	☑ Yes	□ No		01/12/2023
Biolo						☐ Yes			
						☐ Yes	□ No		
SECTIO	N 10. CO	NTRACT ANA	LYSES (40	CFR 122.21(g)(12))					
	10.1	Were any of	the analyses	reported in Section 7 pe	erformed	by a contract	laboratory or	consult	ing firm?
		✓ Yes				☐ No	→ SKIP to S	ection 1	1.
	10.2	Provide infor	mation for ea	ach contract laboratory or	r consult	ng firm belov	/.		
				Laboratory Number	r1	Laborate	ory Number 2		Laboratory Number 3
		Name of lab	oratory/firm	Environmental Resource Analysts	e	Pace Analytic	al		
Contract Analyses		Laboratory a	ddress	2975 Brown Court Auburn, AL, 36830		4320 Midmos Mobile, AL. 3			
Cont		Phone numb	per	(334) 502-3444	-	251-3	344 - 91	06	
		Pollutant(s)	analyzed	All pollutants tested for permit.		Formaldehyd	e		
SECTIO	N 12. AD	DITIONAL WY	-CRMATICA	! (4 0 CFR 122.21(g)(13))				e week	
	44.4		Sales and the sa	ng authority requested ad		information?			
lion		☐ Yes					→ SKIP to S	Section	12.
ra a	11.2	List the infor	mation reque	ested and attach it to this	applicat	ion.			
nal Info		1.				4.			
Additional Information		2.				5.		<u>.</u> .	
		3.				6.			

NPDES Permit Number **EPA Identification Number** Facility Name Form Approved 03/05/19 OMB No. 2040-0004 100000088255 AL0000868 Arclin USA LLC SECTION 12. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d)) In Column 1 below, mark the sections of Form 2C that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing to alert the permitting authority. Note that not all applicants are required to complete all sections or provide attachments. Column 1 Column 2 V Section 1: Outfall Location w/ attachments \Box V Section 2: Line Drawing w/ line drawing w/ additional attachments w/ list of each user of Section 3: Average Flows and w/ attachments \square privately owned treatment Treatment works V Section 4: Intermittent Flows w/ attachments Section 5: Production w/ attachments w/ optional additional sheets describing any Section 6: Improvements w/ attachments additional pollution control w/ request for a waiver and w/ explanation for identical supporting information outfalls Checklist and Certification Statement w/ small business exemption w/ other attachments request Section 7: Effluent and Intake ~ V w/ Table A w/ Table B Characteristics w/ Table C V w/ Table D w/ analytical results as an w/ Table E V attachment Section 8: Used or Manufactured w/ attachments Toxics Section 9: Biological Toxicity ~ w/ attachments Tests Section 10: Contract Analyses w/ attachments Section 11: Additional Information w/ attachments Section 12: Checklist and V w/ attachments Certification Statement 12.2 Certification Statement 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 fine and imprisonment for knowing violations. Name (print or type first and last name) Official title Plant Manager Daniel Cox Date signed Signature

7.85

Standard units

pH (maximum)

7.85

8.2

7.90

52

^{8.2} Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

	EPA Identification Number		ALLIN MULLIONS	!	racilly realife			THOM PACIFICO		OMP No	2040-0004
	100000088255	AL000	00868		Arclin USA LLC			004		OIVID NO	1. 2040-0004
TABL	E B. TOXIC METALS, CYANI	DE, TOTAL PHE	NOLS, AND	ORGANIC T	OXIC POLLUTAN	TS (40 CF	R 122.21(g)(7)	(v)) ¹			
				k one)				Effluent			ake ional)
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Believed Present	Believed Absent	Units (specify)		Maximum Daily Discharge (required)	Monthly Discharge	g-Term erage Number of charge Analyses valiable)	Long- Term Average Value	Number of Analyses
	Check here if you qualify as 2 through 5 of this table. Not										
Section	on 1. Toxic Metals, Cyanide,	and Total Pheno	ols								
1.1	Antimony, total (7440-36-0)	v			Concentration Mass	ppb	BMDL		1		
1,2	Arsenic, total (7440-38-2)	v			Concentration Mass	ppb	41.2		1		
1.3	Beryllium, total (7440-41-7)	V			Concentration Mass	ррь	BDML		1		
1.4	Cadmium, total (7440-43-9)	V			Concentration Mass	ppb	BDML		1		
1.5	Chromium, total (7440-47-3)	V			Concentration Mass	ppb	15.0		1		
1.6	Copper, total (7440-50-8)				Concentration Mass	ppb	28.7		1		
1.7	Lead, total (7439-92-1)				Concentration Mass	ppb	BDML		1		
1.8	Mercury, total (7439-97-6)				Concentration Mass	ppb	BDML		1		
1.9	Nickel, total (7440-02-0)				Concentration Mass	ppb	BDML		1		
1.10	Selenium, total (7782-49-2)	v			Concentration Mass	ррь	BDML		1		
1.11	Silver, total (7440-22-4)	v			Concentration Mass	ppb	BDML		1		

	EPA Identification Number	NIPDES P	ermit Number		Facility Name		Ot	utfail Number			Form Approx	ved 03/05/19 b. 2040-0004
	100000088255		00868		Arclin USA LLC			004			OMBINO	3. 2040-0004
ABL	E B. TOXIC METALS, CYANIDE	, TOTAL PHE	Presence	ORGANIC T or Absence ck one)	OXIC POLLUTAN	rs (40 CF	R 122.21(g)(7)	(v))¹ Efflu	ent			ake
	Pollutant/Parameter (and CAS Number, if available)	nd CAS Number, if available) Required Bel		Believed Absent	Units (specify)		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
1,12	Thallium, total (7440-28-0)	v			Concentration Mass	ppb	BMDL			1		
1.13	Zinc, total (7440-66-6)				Concentration Mass	ррЬ	24			1		
1.14	Cyanide, total (57-12-5)	Ø			Concentration Mass	ppm	BMDL			1		
1.15	Phenois, total	Ø			Concentration Mass	ppm	BMDL			1		
Sectle	on 2. Organic Toxic Pollutants	GC/MS Fract	ion—Volatil	e Compound	is)							
2.1	Acrolein (107-02-8)	V			Concentration Mass	ppb	BMDL			1 _		
2,2	Acrylonitrile (107-13-1)	V			Concentration Mass	ppb	BMDI,			11		
2.3	Benzene (71-43-2)	V			Concentration Mass	ppb	BMDL			1		
2.4	Bromoform (75-25-2)				Concentration Mass	ppb	17.6			1		
2.5	Carbon tetrachloride (56-23-5)	P			Concentration Mass	ppb	BMDt.			1		
2.6	Chlorobenzene (108-90-7)	V			Concentration Mass	ppb	BMDL			1		
2.7	Chiorodibromomethane (124-48-1)	V			Concentration Mass	ppb	1.1			1		
2,8	Chloroethane (75-00-3)	E .			Concentration Mass	ppb	BMDL			1		

NPDES Permit Number Outfall Number Form Approved 03/05/19 Facility Name EPA Identification Number OMB No. 2040-0004 100000088255 AL0000868 Arclin USA LLC 004 TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))1 Presence or Absence Intake (check one) Effluent (optional) Pollutant/Parameter Testing Units Long-Term Maximum Maximum Long-Believed Number (and CAS Number, if available) Required Believed (specify) Average Number Daily Monthly Term Present Absent Daily Discharge Discharge Average Discharge Analyses Analyses Value (required) (if available) (if available) Concentration 2-chloroethylvinyl ether V (110-75-8)Mass Concentration ppb BMDL 1 1 V 2.10 Chloroform (67-66-3) Mass Concentration BMDL 1 1 ppb Dichlorobromomethane **✓** 2.11 (75-27-4)Mass Concentration 1 1,1-dichloroethane ppb BMDL 1 V 2.12 (75-34-3)Mass Concentration ppb BMDL 1 1 1,2-dichloroethane **V** 2.13 (107-06-2) Mass Concentration ppb 1 1 BMDL 1,1-dichloroethylene **V** 2.14 (75-35-4) Mass Concentration ppb BMDL 1 1 1,2-dichloropropane **V** 2,15 (78-87-5) Mass Concentration ppb BMDL 1 1 1,3-dichloropropylene **~** 2.16 (542-75-6)Mass Concentration ppb BMDL 1 1 Ethylbenzene ~ 2.17 (100-41-4) Mass Concentration ppb BMDL 1 1 Methyl bromide ~ 2.18 (74-83-9)Mass Concentration 1 1 Methyl chloride dqq BMDL V 2.19 (74-87-3) Mass BMDL Concentration 1 1 ppb Methylene chloride ~ 2.20 (75-09-2)Mass Concentration 1 1 1,1,2,2- tetrachloroethane ppb BMDL V 2.21 (79-34-5)Mass

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	100000088255	AL00	00868		Arclin USA LLC			004			UNIB NE	1. 2040-0004
TABL	E B. TOXIC METALS, CYANIDE	TOTAL PHE	Presence	ORGANIC T or Absence k one)	OXIC POLLUTAN	TS (40 CF	R 122.21(g)(7)	(v))¹ Efflue	ent			take
	Pre		Believed Present	Believed Absent	1		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if aveilable)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
2.22	Tetrachloroethylene (127-18-4)	V			Concentration Mass	ppb	BMDL			1		
2.23	Toluene (108-88-3)	Ø			Concentration Mass	ppb	BMDL			1		7
2.24	1,2-trans-dichloroethylene (156-60-5)	V			Concentration Mass	ppb	BMDL			1		
2.25	1,1,1-trichloroethane (71-55-6)	0			Concentration Mass	ppb	BMDL			1		
2.26	1,1,2-trichloroethane (79-00-5)	P			Concentration Mass	ррь	BMDL			1		
2.27	Trichloroethylene (79-01-6)	V			Concentration Mass	ppb	BMDL			1		
2.28	Vinyl chloride (75-01-4)	·			Concentration Mass	ppb	BMDL			1		
Secti	on 3. Organic Toxic Pollutants	(GC/MS Fract	ion—Acid (ompounds)								
3.1	2-chlorophenol (95-57-8)				Concentration Mass	ppb	BMDL			1		
3.2	2,4-dichlorophenol (120-83-2)	V			Concentration Mass	ppb	BMOL			1		-
3.3	2,4-dimethylphenol (105-67-9)	· ·			Concentration Mass	ppb	BMDL			1		
3.4	4,6-dinitro-o-cresol (534-52-1)	v			Concentration Mass	ppb	BMDL			1		
3.5	2,4-dinitrophenol (51-28-5)	Ø			Concentration Mass	ppb	BMDL			1		

	EPA Identification Number	NPDES P	ermit Number		Facility Name		Oı	utfall Number				ved 03/05/19
	100000088255	AL00	00868		Arclin USA LLC			004			OWR	o. 2040-0004
TABLI	E B. TOXIC METALS, CYANIDE	, TOTAL PHE	Presence	ORGANIC T or Absence ck one)	OXIC POLLUTAN	TS (40 CF	R 122.21(g)(7)	(v))¹ Efflu	uent			ake
	Pollutant/Parameter (and CAS Number, if available)	CAS Number, if available) Required Believed Present		Believed Absent	(-F)		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
3.6	2-nitrophenol (88-75-5)				Concentration Mass	ppb	BMDL			1		
3.7	4-nitrophenol (100-02-7)				Concentration Mass	ppb	BMDL			1		
3.8	p-chloro-m-cresol (59-50-7)				Concentration Mass	ppb	BMDL			1		
3.9	Pentachloropheno! (87-86-5)				Concentration Mass	ppb	BMDL			1		
3,10	Phenol (108-95-2)	V			Concentration Mass	ppb	BMDL			1		
3.11	2,4,6-trichlorophenol (88-05-2)	V			Concentration Mass	ppb	BMDL			1		
Section	on 4. Organic Toxic Pollutants	GC/MS Fract	ion-Base	Neutral Com	pounds)							
4.1	Acenaphthene (83-32-9)	V			Concentration Mass	ppb	BMDL			1		
4.2	Acenaphthylene (208-96-8)	!			Concentration Mass	ppb	BMDL			1		
4.3	Anthracene (120-12-7)				Concentration Mass	bbp	BMDL			1		
4.4	Benzidine (92-87-5)	U			Concentration Mass	ррь	BMDL			1		
4.5	Benzo (a) anthracene (56-55-3)	v			Concentration Mass	ppb	BMDL			1		
4.6	Benzo (a) pyrene (50-32-8)	Ø			Concentration Mass	ppb	BMDL			1		

	EPA Identification Number		ermit Number		Facility Name		. 0		Form Approved 03/05/ OMB No. 2040-00			
	100000088255		00868		Arclin USA LLC			004				7. 2040 0004
TABL	E B. TOXIC METALS, CYANIC	E, TOTAL PHE	Presence	e or Absence		rs (40 CF	R 122.21(g)(7)	(v))¹ Efflu	ient	_	intake (optional)	
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Believed Present	Believed Absent	Units (specify)		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
4.7	3,4-benzofluoranthene (205-99-2)				Concentration Mass							
4.8	Benzo (ghi) perylene (191-24-2)				Concentration Mass							
4.9	Benzo (k) fluoranthene (207-08-9)	Ø			Concentration Mass	ppb	BMDL			1		
4.10	Bis (2-chloroethoxy) methane (111-91-1)			Ø	Concentration Mass							
4.11	Bis (2-chloroethyl) ether (111-44-4)			v	Concentration Mass							
4.12	Bis (2-chloroisopropyl) ether (102-80-1)			V	Concentration Mass							
4.13	Bis (2-ethylhexyl) phthalate (117-81-7)	V			Concentration Mass	ppb	BMDL			1		
4.14	4-bromophenyl phenyl ether (101-55-3)			V	Concentration Mass							
4.15	Butyl benzyl phthalate (85-68-7)			Ø	Concentration Mass							
4.16	2-chloronaphthalene (91-58-7)			V	Concentration Mass							
4.17	4-chiorophenyl phenyl ether (7005-72-3)			V	Concentration Mass							
4.18	Chrysene (218-01-9)	V			Concentration Mass	ppb	BMDL			1		
4.19	Dibenzo (a,h) anthracene (53-70-3)			V	Concentration Mass							

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	100000088255		00868		Arclin USA LLC			004			OMB N	1, 2040-0004
TABL	E B. TOXIC METALS, CYANID	E, TOTAL PHE	Presence	ORGANIC T or Absence ck one)	OXIC POLLUTANT	rs (40 CF)	R 122,21(g)(7)	(v) <u>)¹</u> Effic	uent			take
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Believed Present	Believed Absent	Units (specify)		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
4.20	1,2-dichlorobenzene				Concentration	ррь	BMDL			1		
4.21	(95-50-1) 1,3-dichlorobenzene (541-73-1)				Mass Concentration Mass							
4.22	1,4-dichlorobenzene (106-46-7)			V	Concentration Mass							
4.23	3,3-dichlorobenzidine (91-94-1)			Ø	Concentration Mass							
4.24	Diethyl phthalate (84-66-2)	V			Concentration Mass	ppb	BMDL			1		
4.25	Dimethyl phthalate (131-11-3)	V			Concentration Mass	ppb	BMDL			1		
4.26	Di-n-butyl phthalate (84-74-2)				Concentration Mass	ррь	BMDL			1		
4.27	2,4-dinitrotoluene (121-14-2)			V	Concentration Mass							
4.28	2,6-dinitrotoluene (606-20-2)			回	Concentration Mass							
4.29	Di-n-octyl phthalate (117-84-0)			Ø	Concentration Mass							
4.30	1,2-Diphenylhydrazine (as azobenzene) (122-66-7)			Image: section of the content of the	Concentration Mass							
4.31	Fluoranthene (206-44-0)	v			Concentration Mass	ppb	BMOL			1		
4.32	Fluorene (86-73-7)	v			Concentration Mass	ppb	BMDL			1		

EPA Identification Number NPDES Permit Number Facility Name Outfall Number Form Approved 03/05/19 OMB No. 2040-0004 AL0000868 Arclin USA LLC 004 100000088255 TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))1 Presence or Absence Intake (check one) **Effluent** (optional) Testing Long-Term Pollutant/Parameter Units Maximum Long-Maximum Believed (and CAS Number, if available) Required Believed (specify) Number Number Average Term Daily Monthly Present Absent Daily Discharge Discharge Average Discharge Analyses Analyses (required) (if available) Value (if available) Concentration BMDL ppb 1 Hexachlorobenzene ~ (118-74-1) Mass Concentration Hexachlorobutadiene ~ 4.34 (87-68-3)Mass Concentration Hexachlorocyclopentadiene ~ 4.35 (77-47-4)Mass BMDL Concentration ppb Hexachloroethane ~ 4.36 (67-72-1) Mass Concentration Indeno (1,2,3-cd) pyrene V 4.37 (193-39-5) Mass Concentration Isophorone ~ 4.38 (78-59-1) Mass Concentration ppb BMDL 1 Naphthalene ~ 4,39 (91-20-3) Mass Concentration ppb BMDL 1 Nitrobenzene V 4.40 (98-95-3) Mass Concentration N-nitrosodimethylamine ~ 4.41 (62-75-9) Mass Concentration N-nitrosodi-n-propytamine ~ 4.42 (621-64-7) Mass Concentration N-nitrosodiphenylamine V 4,43 (86-30-6) Mass Concentration ppb BMDL 1 Phenanthrene V (85-01-8)Mass Concentration BMDL 1 Pyrene ppb 4 4.45 (129-00-0) Mass

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TABL	E B. TOXIC METALS, CYANIDE,	TOTAL PHE	Presence	ORGANIC T or Absence ok one)	OXIC POLLUTANI	'S (40 CF	R 122.21(g)(7)	(v))¹ Efflo	uent			take
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Believed Present	Believed Absent	Units (specify)		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
4.46	1,2,4-trichlorobenzene (120-82-1)	V			Concentration Mass	góqq	BMDL		,	1		1
Section	on 5. Organic Toxic Pollutants (GC/MS Fract	ion—Pestic	ides)								
5.1	Aldrin (309-00-2)			e	Concentration Mass					1		_
5.2	a-BHC (319-84-6)			v	Concentration Mass							
5.3	β-BHC (319-85-7)			V	Concentration Mass					-		
5.4	γ-BHC (58-89-9)				Concentration Mass							
5.5	δ-BHC (319-86-8)			_[Concentration Mass							
5.6	Chlordane (57-74-9)			Ū	Concentration Mass							
5.7	4,4'-DDT (50-29-3)			v	Concentration Mass							
5.8	4,4'-DDE (72-55-9)			v	Concentration Mass					<u> </u>		
5.9	4,4'-DDD (72-54-8)			v	Concentration Mass							
5.10	Dieldrin (60-57-1)			v	Concentration Mass							
5.11	a-endosulfan (115-29-7)			v	Concentration Mass		-					

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TARI	E B. TOXIC METALS, CYANID			DECVIIC		R 122 21/e)/7)					
IABLI	B. TONIC WETALS, CTANID	L, TOTAL FILE	Presence	or Absence	ONC POLLUTAINTS (40 CI	K 122.21(g)(r)	Effluen	ıt	<u>.</u>		ake donal)
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Believed Present	Believed Absent	Units (speatly)	Maximum Daily Discharge (required)	Monthly Discharge	ong-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
5.12	β-endosulfan (115-29-7)			v	Concentration Mass						
5.13	Endosulfan sulfate (1031-07-8)			v	Concentration Mass						
5.14	Endrin (72-20-8)				Concentration Mass						
5.15	Endrin aldehyde (7421-93-4)			v	Concentration Mass						
5.16	Heptachlor (76-44-8)			v	Concentration Mass						
5.17	Heptachlor epoxide (1024-57-3)			Ø	Concentration Mass				1		
5.18	PCB-1242 (53469-21-9)			Ø	Concentration Mass						
5.19	PCB-1254 (11097-69-1)			Ø	Concentration Mass						
5.20	PCB-1221 (11104-28-2)				Concentration Mass						
5.21	PCB-1232 (11141-16-5)			v	Concentration Mass						
5.22	PCB-1248 (12672-29-6)			V	Concentration Mass						
5.23	PC8-1260 (11096-82-5)			v	Concentration Mass						
5.24	PCB-1016 (12674-11-2)			Ø	Concentration Mass						

	PA Identification Number NPDES Permit Number 100000088255 AL0000868 B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND				Facility Name Arclin USA LLC		Oi	utfalfi Number 004			Form Approv	ved 03/05/19 b. 2040-0004
TABL	E B. TOXIC METALS, CYANIDE	TOTAL PHE	NOLS, AND	ORGANIC T	OXIC POLLUTANTS	6 (40 CFF	R 122.21(g)(7)	(v))¹				
				or Absence ok one)				Effle	uent		****	ake ional)
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Believed Present	Believed Absent	Units (specify)		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
5.25	Toxaphene (8001-35-2)		Ø	Concentration Mass								

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

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TAB	LE C. CERTAIN CO	NVENTIONAL	AND NON CO	NVENTIONAL POL	LUTANTS	(40 CFR 122.21(g)(7)(vi))¹				
		Presence o					Efflu	ent		Intal (Option	
	Pollutant	Believed Present	Believed Absent	Units (specify)	-	Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (If available)	Number of Analyses	Long-Term Average Value	Number of Analyses
	Check here if you be each pollutant.	elieve all polluta	ants on Table (C to be <i>present</i> in y	ou r discha	rge from the noted	outfall. You need r	not complete the "P	resence or Abse	ence" calumn of T	able C for
	Check here if you be each pollutant.	elieve all pollula	ants on Table (C to be absent in yo	ur dischar	ge from the noted o	outfall. You need n	of complete the "Pr	esence or Abser	nce" column of Ta	ble C for
1.	Bromide (24959-67-9)	U		Concentration Mass	ppm	5.28			1		
2.	Chlorine, total residual	V		Concentration Mass	ppm	0.09			1		
3.	Color		V	Concentration Mass							
4.	Fecal coliform		v	Concentration Mass							
5.	Fluoride (16984-48-8)	e e		Concentration Mass	ppm	1.5			1		
6	Nitrate-nitrite	Ø		Concentration Mass	ppm	0.38			1		
7.	Nitrogen, total organic (as N)	V		Concentration Mass	ppm	2.98			11		
8.	Oil and grease	V		Concentration Mass	ppm	BMDL			1		
9.	Phosphorus (as P), total (7723-14-0)	Ø		Concentration Mass	ppm	0.66			1		
10.	Sulfate (as SO ₄) (14808-79-8)	D		Concentration Mass	ppm	176			1		
11.	Sulfide (as S)			Concentration Mass	ppm	0.10			1		

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		Presence of (check					Effle	ient		Inta (Optio	
	Pollutant	Believed Present	Believed Absent	Units (specify)		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
12.	Sulfite (as SO ₃) (14265-45-3)			Concentration Mass	ppm	BMDL			1		
13.	Surfactants	V		Concentration Mass	ppm	BMDL			1		
14.	Aluminum, total (7429-90-5)	2		Concentration Mass	ppb	65.4			1		
15.	Barium, total (7440-39-3)		V	Concentration Mass							
16.	Boron, total (7440-42-8)		v	Concentration Mass							
17.	Cobalt, total (7440-48-4)		v	Concentration Mass							
18.	Iron, total (7439-89-6)	V		Concentration Mass	ppb	267			1		
19.	Magnesium, total (7439-95-4)		O.	Concentration Mass							
20.	Molybdenum, total (7439-98-7)	V		Concentration Mass	ppb	25.7			1		
21.	Manganese, total (7439-96-5)		V	Concentration Mass							
22.	Tin, total (7440-31-5)		v	Concentration Mass							
23.	Titanium, total (7440-32-6)		Ø	Concentration Mass							

NPDES Permit Number Facility Name Outfall Number Form Approved 03/05/19 OMB No. 2040-0004 EPA Identification Number AL0000868 100000088255 Arclin USA LLC TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))1 Presence or Absence (check one) Intake Effluent (Optional) Units Pollutant Maximum Long-Term Long-Term Believed Believed (specify) Maximum Daily Monthly Average Daily Number of Number of Average Present Absent Discharge Discharge (if available) Analyses Analyses Discharge Value (required) (if available) 24. Radioactivity Concentration V Alpha, total Mass Concentration **V** Beta, total Mass Concentration V Radium, total Mass Concentration Radium 226, total v Mass

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

EPA Identification Number NPDES Permit Number Facility Name Form Approved 03/05/19 OMB No. 2040-0004 Outfall Number AL0000868 100000088255 Arclin USA LLC TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii)) Presence or Absence (check one) Available Quantitative Data Pollutant Reason Pollutant Believed Present in Discharge Believed Believed (specify units) Present Absent V 1. Asbestos V 2. Acetaldehyde V 3. Allyl alcohol V 4. Allyl chloride V 5. Amyl acetate ~ 6. Aniline V 7. Benzonitrile V 8. Benzyl chloride 9. Butyl acetate 4 V 10. Butylamine • 11. Captan V 12. Carbaryl V 13. Carbofuran V 14. Carbon disulfide 15. Chlorpyrifos V V 16. Coumaphos 17. Cresol V 18. Crotonaldehyde V 19. Cyclohexane

Form Approved 03/05/19 OMB No. 2040-0004 EPA Identification Number NPDES Permit Number Facility Name Outfall Number 100000088255 AL0000868 Arclin USA LLC TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii)) Presence or Absence (check one) Available Quantitative Data **Pollutant** Reason Pollutant Believed Present in Discharge Believed Believed (specify units) Absent Present 20. 2,4-D (2,4-dichlorophenoxyacetic acid) V V 21. Diazinon V 22. Dicamba V 23. Dichlobenil V 24. Dichlone V 25. 2,2-dichloropropionic acid V 26. Dichlorvos 27. Diethyl amine V V 28. Dimethyl amine V 29. Dintrobenzene V 30. Diquat V 31. Disulfoton V 32. Diuron V 33. Epichlorohydrin V 34. Ethion V 35. Ethylene diamine V 36. Ethylene dibromide V 37. Formaldehyde Manufacture Formaldehyde Possible leaks V Furfural 38.

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TAB	LE D. CERTAIN HAZARDOUS SUBSTANC			21(g)(7)(vii))¹	
	Poilutant	Presence or {check Believed Present		Reason Pollutant Belleved Present in Discharge	Available Quantitative Data (specify units)
39.	Guthion		V		
40.	Isoprene				
41.	Isopropanolamine		Ø		
42.	Kelthane				
43.	Kepone		v		
44.	Malathion		Ø		
45.	Mercaptodimethur		V		
46.	Methoxychlor		V		
47.	Methyl mercaptan		V		
48.	Methyl methacrylate				
49.	Methyl parathion		V		
50.	Mevinphos		V		
51.	Mexacarbate		P		
52.	Monoethyl amine				
53.	Monomethyl amine		V		
54.	Naled		v		
55.	Naphthenic acid		v		
56.	Nitrotoluene		Ø		
57.	Parathion		V		

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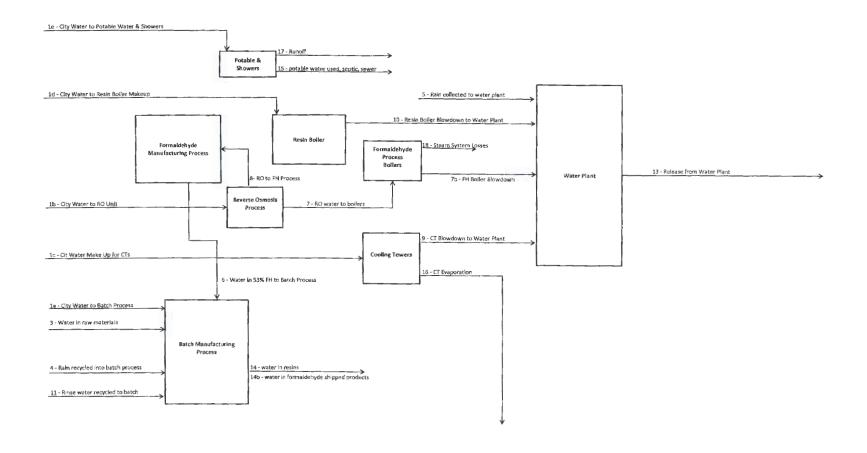
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TAB	LE D. CERTAIN HAZARDOUS SUBSTANC	CES AND ASBEST	OS (40 CFR 122.	21(g)(7)(vii)) ¹	
	Pollutant	Presence or (check Believed Present		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
58.	Phenolsulfonate		v		
59.	Phosgene				
60.	Propargite		v		
61.	Propylene oxide		v		
62.	Pyrethrins		V		
63.	Quinoline		V		
64.	Resorcinal				
65.	Strontium				
66.	Strychnine				
67.	Styrene		v		
68.	2,4,5-T (2,4,5-trichlorophenoxyacetic acid)		V		
69.	TDE (tetrachlorodiphenyl ethane)		Ø		
70.	2,4,5-TP [2-(2,4,5-trichlorophenoxy) propanoic acid]		v		
71.	Trichlorofon				
72.	Triethanolamine			Handle in Process areas- possible leaks	
73.	Triethylamine				
74.	Trimethylamine				
75.	Uranium		v		
76.	Vanadium		Ø		

	EPA Identification Number 100000088255		DES Permit Number AL0000868	1	Facility Name rclin USA LLC	Outfall Number	Form Approved 03/05/19 OMB No. 2040-0004
TAB	LE D. CERTAIN HAZARDOUS	SUBSTANC	CES AND ASBEST	OS (40 CFR 122	.21(g)(7)(vii)) ¹		
	Pollutant		Presence or (check		Pagean Pollud	ant Believed Present in Discharge	Available Quantitative Data
			Believed Present	Believed Absent	Keason Foliut	ant believed Present in Discharge	(specify units)
77.	Vinyl acetate			V			
78.	Xylene			v			
79.	Xylenol						
80.	Zirconium			V			

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

	EPA Identification Number 100000088255	NPDES Per AL000			Facility Name Arclin USA LLC	Outfail Number	Form Approved 03/05/19 OMB No. 2040-0004
TA	LE E. 2,3,7,8 TETRACHLORODIBENZO P DIOXIN (2,3,7,8 TO			CDD) (40 CF	R 122.21(g)(7)(viii))		
	Pollutant	Used or Believed Belie		nce		Results of Screening Pro	cedure
	2,3,7,8-TCDD	Present Absen					



Stream Table

	Input		TA ASS	:	Internal				Output		
Stream	Description	Yearly (Gal)	Daily (Gal)	Stream	Description	Yearly (Gal)	Daily (Gal)	Stream	Description	Yearly (Gal)	Daily (Gal)
1 Total City *	Water	26,776,386	73,360	6	Water in Formaldehyde to Batch Process		10,106	13	Release from Water Plant	4,118,747	11,284
1a City water	to batch process	4,234,805	11,602	7	Reverse Osmosis Water to Formaldehyde Boilers	4,197,271	11,499	14	Water in Resin Products	9,698,604	26,572
1b City Water	to Reverse Osmosis Unit	5,195,911	14,235	7b	Formaldehyde Boiler Blowdown to Water Plant	2,331,391	6,387	14b	Water in HCHO Products	316,090	866
1c Cooling To	wer Makeup	15,703,170	43,022	8	RO Absorber Water to Formaldehyde Production	946,080	2,736	15	Potable Water & Sewage	876,000	2,400
1d Resin Boile	er Makeup	730,000	2,000	9	Cooling Towers Blowdown to Water Plant	1,256,254	3,442	16	Cooling Tower Evaporation	14,446,916	39,581
1e Potable W	ater & Sewage	912,500	2,500	10	Resin Boiler blowdown to Water Plant		90	17	Runoff (safety showers, freeze prote	36,500	100
2 From Met	hanol and Air in Formaldehyde Process	3,006,296	8,236	11	Rinse water recycled into Batch Process	690,778	1,893	18	Steam system losses (condensate pr	1865880	511
3 Water in r.	aw materials	504,620	1,383								
4 Rain Wate	r Recycled into Batch Process	579,255	1,587								
5 Rain Collec	ction to Water Plant	498,225	1,365								
		TOTAL	85,931							TOTAL	85,914

Calculations Basis Table

		Input	
Stream	Description	Basis of Calculation	Daily (Gal)
1	Total City Water	utility bill	73,360
1a	City water to batch process	batch formulations and numbers of respective batches produced of each formulation	11,602
1b	City Water to Reverse Osmosis Unit	Remainder of city water after other streams	14,235
1c	Cooling Tower Makeup	Gallon counters at makeup water input	43,022
1d	Resin Boiler Makeup	Estimated from past and current water balances	2,000
1e	Potable Water & Sewage	Estimated from past and current water balances	2,500
2	From Methanol and Air in Formaldehyde Process	chemical reaction balance from moles of formaldehyde produced	8,236
3	Water in raw materials	certificates of analysis and numbers of shipments of each respective raw material	1,383
4	Rain Water Recycled into Batch Process	Recycle Sump Area and average rainfall (12058 sq-ft, 60"/year), volumetric calculation	1,587
5	Rain Collection to Water Plant	Non-recycle Sump Area and average rainfall (13320 sq-ft, 60"/year), volumetric calculation	1,365
		Internal	
Stream	Description	Basis of Calculation	Daily (Gal)
6	Water in Formaldehyde to Batch Process	formaldehyde production data (BUSYBOYS), 1.9gpm feed	10,106
7	Reverse Osmosis Water to Formaldehyde Boilers	rotameter/ mass balance on rotameter	11,499
7b	Formaldehyde Boiler Blowdown	material balance on Formaldehyde Boilers	6,387
8	Reverse Osmosis Water to Formaldehyde Process	rotameter/ mass balance on rotameter coupled with formaldehyde production data	2,736
9	Cooling Towers Blowdown	92/8 evap to blowdown ratio	3,442
10	Resin Boiler Blowdown to Water Plant	Collected in the sump and part of sump collection estimate, not pumped directly to WP	90
11	Utility/Rinse water recycled into batch	estimated from past and current water balances as well as production data	1,893
		Output	
Stream	Description	Basis of Calculation	Daily (Gal)
13	Release from Water Plant	Flowmeters at Water Plant	11,284
14	Water in Products	Batch formulations and numbers of respective batches produced of each formulation	26,572
14b	Water in shipped Formaldehyde	JDE order history	866
15	Potable Water, Septic System, and Sewage	Estimated from past and current water balances	2,400
16	Cooling Tower Evaporation	92/8 evap to blowdown ratio	39,581
17	Runoff	Estimate from safety water testing (hydrants, showers), freeze protection	100
18	Steam System Losses	Condensate pot vents, steaming trucks, equipment, steam to DA (estimate)	5,112

^{***2022} data used for calculations

EPA Identification Number 100000088255 NPDES Permit Number AL0000868 Facility Name Arclin USA LLC Form Approved 03/05/19 OMB No. 2040-0004

Form 2F NPDES



U.S Environmental Protection Agency Application for NPDES Permit to Discharge Wastewater

NPDES		:PA	STORMWA	TER DISCHARG	ES ASS	OCIATED WI	TH INDUSTR	IAL ACTIVIT	Υ				
SECTION	1. OUT	ALL LOCA	TION (40 CFR 122.21(g)(1))			Triangle of						
	1.1		ormation on each of the	facility's outfalls in	the table	below							
		Outfall Number	Receiving Water Na	me	Latitu	de		Longitude					
_		003	Tributary to Prestwo Creek to Conecuh	od River 31°	20′	30"	86°	31′ 3	1"				
ocatio				D		п	o	,	n				
Outfall Location				ō	,	"	۰	,	,				
Out				٥	,	,,	0	,	"				
				0	,	"	٥	,	н				
				0	,		•	,	"				
SECTIO	V 2. IMPR		6 (40 CFR 122.21(g)(6))						desir.				
	2.1	Are you presently required by any federal, state, or local authority to meet an implementation schedule for constructing, upgrading, or operating wastewater treatment equipment or practices or any other environmental programs that could affect the discharges described in this application?											
		☐ Yes				No → S	KIP to Section	n 3.					
	2.2	Briefly iden	tify each applicable proj	ect in the table bel	ow.			Final Comm	liance Dates				
			Identification and ription of Project	Affected Outfalls (list outfall numbers		Source(s) of D	ischarge						
								Required	Projected				
nts													
Improvements													
Impro													
	2.3	Have you a that may a	attached sheets describ ffect your discharges) th	ing any additional n nat you now have u	water poll inderway	ution control pro or planned? (O	ograms (or oth otional Item)	er environmen	tal projects				
		☐ Yes	- •		No								

	entification 0000088		NPDES Permit Number AL0000868	Facility Name Arclin USA LLC			/ed 03/05/19 o. 2040-0004					
SECTION	3. SITE	DRAINAGE N	MAP (40 CFR 122.26(c)(1)(i)(A))	575 V 275 C		4						
ge	3.1		ached a site drainage map containir	g all required in	nformation to this app	olication? (See Instruction	ns for					
Site Drainage Map		specific guld	ance.)									
۵		Yes Yes		No								
SECTION	4. POLI	UTANT SOU	RCES (40 CFR 122.26(c)(1)(i)(B))									
	4.1		mation on the facility's pollutant sou									
4,		Outfall Number	Impervious Surface Are (within a mile radius of the fac	ility)		Surface Area Drained in mile radius of the facility)						
				specify units		•	pecify units					
-		003	4 Acres	Acres	25 A		Acres					
				specify units			specify units					
				specify units			specify units					
				ap 00.07 a0			poony drate					
				specify units	· · · · · · · · · · · · · · · · · · ·		specify units					
.*				specify units			specify units					
				specify units			specify units					
	4.2	Provide a na	arrative description of the facility's sig	nificant materi	al in the snare helow	(See instructions for co	ntent					
	7,2	requirement		gillicant materi	ariir tiio apace below	. (000 111311 0010113 101 00	mont					
40		See attached storm water BMP. Attachment B										
Se l		Roundup/Cornerstone Plus – Is used to spray around the plant to kills weeds.										
Pollutant Sources		2,4-D — Herbicide used along the fence rows.										
ıtanı			2,4-D Her	bicide used ald	ong the fence rows.							
Poll		Polaris	AC Complete Herbicide – Sprayed ir	a parking area	covered in rocks to	control weeds. Class Act	NG -					
			Conditionii	ng agent used v	with the Herbicides							
	4,3	Provide the	location and a description of existing	structural and	non-structural contro	I measures to reduce no	llutants in					
	4,0		runoff. (See instructions for specific									
1				Stormwater Tre	eatment							
		O. Wall					Codes from					
		Outfall Number	Co	ntrol Measures	and Treatment		Exhibit 2F-1					
							(list)					
		003	Drainage from tank areas, Interna	al buildings, che	emical unloading are	as, and product loading	4-C					
			product loading areas is contained	d in cement lin	ed sumps							
			productional and to contain									
* v												

	lentification 10000088		NPDES Permit Number AL0000858	Facility Arclin U			Form Approved 03/05/19 OMB No. 2040-0004
SECTION	5. NON	STORMWA	TER DISCHARGES (40 CFR 122.26(c)(1)(i)(C))			
	5.1	I certify un presence c	der penalty of law that the outfall(s) of non-stormwater discharges. Moreo are described in either an accompanyi	covered by this a ver, I certify that	the outfalls ider	ntified as ha	
			t or type first and last name)		Official title		
	i						
		Daniel Cox Signature			Plant Manage Date signed	<u> </u>	
10		Oignature			Bato digitiod		
ırge	5.2	Provide the	testing information requested in the ta	ble below.			
Non-Stormwater Discharges		Outfall Number	Description of Testing Me	thod Used	Date(s) of Te		nsite Drainage Points Directly Observed During Test
tormwate		003	Samples collected for this Pe	rmit renewal	03/12/20	023	Yes
Non-S							
SECTIO			AKS OR SPILLS (40 CFR 122.26(c)(i i
<u>~</u>	6.1		ny significant leaks or spills of toxic or l ,900 pounds of Formaldehyde was spil			e years.	
nt Leaks or Spills							į
aks c							
int Le							
Significa							
Sig							
SECTIO	N 7. DIS	CHARGE INF	ORMATION (40 CFR 122.26(c)(1)(i)(i	E))			
	See the	instructions	to determine the pollutants and param plicants need to complete each table.		ired to monitor ar	nd, in turn, th	ne tables you must
natio	7.1		w source or new discharge?				
nform		Yes	→ See instructions regarding submis	121		ctions regar	ding submission of
Discharge Information	Tables	A, B, C, and	mated data.		actual data.		
char	7.2		completed Table A for each outfall?				
Dis		✓ Yes	·		No		

	dentification 30000088		NPDES Permit Number AL0000868		ity Name USA LLC	Form Approved 03/05/19 OMB No. 2040-0004			
	7.3	Is the facility wastewater	y subject to an effluent limitation guidel?	ine (ELG) or effl	uent limitations in a	n NPDES permit for its process			
		✓ Yes			No → SKIP to Iter	m 7.5.			
	7.4		ompleted Table B by providing quantita an ELG and/or (2) subject to effluent li						
	,	Yes	an LEO androi (2) subject to enident in		No	e racility a process wastewater r			
	7,5		w or have reason to believe any polluta	ants in Exhibit 2F		ne discharge?			
,		✓ Yes	, ,,		No → SKIP to Ite				
	7.6		sted all pollutants in Exhibit 2F–2 that y uantitative data or an explanation for the			are present in the discharge and			
		✓ Yes	·	·	No				
	7.7	Do you qua	lify for a small business exemption unc	der the criteria sp	ecified in the Instru	ctions?			
1		☐ Yes	→SKIP to item 7.18.	V	No				
	7.8	Do you kno	w or have reason to believe any polluta	ants in Exhibit 2	-3 are present in t	he discharge?			
		☑ Yes			No → SKIP to Ite				
tinued	7.9	Have you li Table C?	sted all pollutants in Exhibit 2F–3 that y	you know or hav	e reason to believe	are present in the discharge in			
Discharge Information Continued		✓ Yes			No				
	7.10	Do you exp	ect any of the pollutants in Exhibit 2F-	3 to be discharg	ed in concentration	s of 10 ppb or greater?			
lo i		✓ Yes			No → SKIP to Ite				
arge In	7.11		rovided quantitative data in Table C for ons of 10 ppb or greater?	r those pollutant	s in Exhibit 2F–3 tha	at you expect to be discharged in			
isch		✓ Yes			No				
	7.12	Do you expect acrolein, acrylonitrile, 2,4-dinitrophenol, or 2-methyl-4,6-dinitrophenol to be discharged in concentrations of 100 ppb or greater?							
		☐ Yes		V	No → SKIP to Ite				
	7.13	Have you p discharged	rovided quantitative data in Table C for in concentrations of 100 ppb or greate	r the pollutants in r?	dentified in Item 7.1	2 that you expect to be			
,		☐ Yes			No				
	7.14		provided quantitative data or an explana at concentrations less than 10 ppb (or le						
		✓ Yes			No				
	7.15	Do you kno	ow or have reason to believe any pollut	ants in Exhibit 2	F-4 are present in t	he discharge?			
		☐ Yes		V	No → SKIP to Ite				
	7.16		sted pollutants in Exhibit 2F–4 that you in Table C?	know or believe	to be present in the	e discharge and provided an			
		☐ Yes			No				
	7.17	_ ` `	provided information for the storm even	t(s) sampled in					
		✓ Yes			No				

	Identification 0000088			Permit Number 0000868	Facility Name Form Approved 03/05/19 Arclin USA LLC OMB No. 2040-0004				
70	Used o	r Manufactur	ed Toxics						
Discharge Information Continued	7.18			ibits 2F-2 through 2F- liate or final product or		ce or a component of a sub	stance used or		
ပ္သ		✓ Yes				No → SKIP to Sect	ion 8.		
matio	7.19	List the pollu	utants below, incl	low, including TCDD if applicable.					
e Info		1. Triethano	lamine	4.		7.			
charg		2. Phenol		5,		8.			
Dis		3. Total Phe	nols	6.		9.			
SECTIO	N 8. BIOI	OGICAL TO	XICITY TESTING	G DATA (40 CFR 122.2	21(g)(11))				
ata	8.1					gical test for acute or chron ir discharge within the last t	lc toxicity has been made on hree years?		
Biological Toxicity Testing Data		✓ Yes				No → SKIP to Sec	tion 9.		
Tes	8.2	Identify the	tests and their pu	rposes below.					
xicity		Т	est(s)	Purpose of Tes	st(s)	Submitted to NPDES Permitting Authority?	Date Submitted		
cal To		Acut	te on 004	Permit require	ment	☑ Yes ☐ No	01/12/2023		
iologi						☐ Yes ☐ No			
ш ш					j	☐ Yes ☐ No			
SECTIO	N 9. CON	ITRACT ANA	LYSIS INFORM	ATION (40 CFR 122.21	l(g)(12))	THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TO THE PERSON NA	A.		
	9,1	Were any of consulting fi		ported in Section 7 (on	Tables A thi	rough C) performed by a co	ntract laboratory or		
		☑ Yes				No → SKIP to Section 10.			
	9.2	Provide info	rmation for each	contract laboratory or o	consulting fir	m below.			
				Laboratory Num	ber 1	Laboratory Number 2	Laboratory Number 3		
rmation	- Andrews	Name of lab	ooratory/firm	Environmental Resou Analysts	irce	Pace Analytical			
s Info		Laboratory	address	2975 Brown Court		4320 Midmost Dr			
Contract Analysis Informa				Auburn, AL. 36830		Mobile, AL. 36609			
trac		D)	f						
Con		Phone num	ber	(334) 502-3444		-251-344-91	06		
		Pollutant(s)	analyzed	All pollutants tested	for permit.	Formaldehyde			

	dentification 0000088		ALC	Permit N 100086				USA LLC	OMB No. 2040-0004	
SECTIO	N 10. CH	ECKLIST AN	I ID CERTIFICATI	ON ST	ATEMENT (40	CFR 122.22	2(a) a	and (d))		
	10.1	In Column 1 each section all applicant	below, mark the n, specify in Colu ts are required to	section mn 2 a	ns of Form 2F t ny attachments	that you have that you are				
		Со	lumn 1					Column 2		
		☑ Section	n 1		w/ attachment	ts (e.g., resp	onse	es for additional out	falls)	
☐ Section 2					w/ attachmen	ts				
		☑ Section	n 3	V	w/ site draina	ge map				
Section 4					w/ attachmen	ts				
		☑ Section	n 5		w/ attachmen	ts				
tu tu		☑ Section	n 6		w/ attachmen	ts				
teme	Allega so on do to the state of	☑ Section	n 7	v	Table A			w/ small business	exemption request	
on Sta				Ø	Table B			w/ analytical result	s as an attachment	
Checklist and Certification Statement					Table C			Table D		
d Cert		☑ Section	n 8		w/attachment	ts				
ist an		☑ Section	n 9		w/attachment	ts (e.g., resp	onse	es for additional con	ntact laboratories or firms)	
hecki		☑ Section	n 10							
O	10.2	Certification	on Statement							
		accordance submitted. for gatherir complete. I	e with a system of Based on my inquing the information	designations of the control of the c	ed to assure th the person or p nformation sub- re significant pe	hat qualified persons who mitted is, to	pers man the	sonnel properly ga nage the system or best of my knowled	nder my direction or supervision in ther and evaluate the information those persons directly responsible dge and belief, true, accurate, and ion, including the possibility of fine	
		Name (prin	t or type first and	last na	ame)		Off	ficial title		
		Daniel Cox					Pla	nt Manager		
		Signature	>_	7	- /7		Da	te signed	10003	

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number	Form Approved 03/05/19
100000088255	AL0000868	Arclin USA LLC	DSN 003	OMB No. 2040-0004

Pollutant or Parameter		Maximum Dai (specify		Average Dail (specify		Number of Storm	Source of Information
		Grab Sample Taken During First 30 Minutes Flow-Weight Composite		Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Events Sampled	(new source/new dischargers only; use codes in instructions)
1.	Oil and grease	BMDL				1	
2.	Biochemical oxygen demand (BOD ₅)	13.5 ppm	9.7 ppm			1	
3.	Chemical oxygen demand (COD)	152 ppm	67,2 ppm			1	
4.	Total suspended solids (TSS)	109 ppm	125 ppm			1	
5.	Total phosphorus	0.27 ppm	0.30 ppm			1	
6.	Total Kjeldahl nitrogen (TKN)	2.85 ppm	2.81 ppm			1	!
7.	Total nitrogen (as N)	2.58 ppm	2.36 ppm			1	
p	pH (minimum)	8.60				1	
8.	pH (maximum)	8,65				1	

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

EPA Form 3510-2F (Revised 3-19) Page 7

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number	Form Approved 03/05/19
100000088255	AL0000868	Arclin USA LLC		OMB No. 2040-0004
			DZM DO3	

TABLE B. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.26(c)(1)(i)(E)(4) and 40 CFR 122.21(g)(7)(v))(A))

List each pollutant that is limited in an effluent limitation guideline (ELG) that the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

	Maximum Dai (specify	ly Discharge units)	Average Dail (specify	y Discharge units)	Number of Storm	Source of Information (new source/new dischargers only; use codes in Instructions)
Pollutant and CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Events Sampled	
See attachment C						
		_				
			<u> </u>			
	 					
	 					
						
	1		.[.	l		

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

EPA Form 3510-2F (Revised 3-19) Page 9

EPA Identification Number 100000088255 NPDES Permit Number Facility Name Arclin USA LLC Outfall Number AL0000868

DSN 003

Form Approved 03/05/19 OMB No. 2040-0004

TABLE C. TOXIC POLLUTANTS, CERTAIN HAZARDOUS SUBSTANCES, AND ASBESTOS (40 CFR 122.26(c)(1)(i)(E)(4) and 40 CFR 122.21(g)(7)(vi)(B) and (vii))1

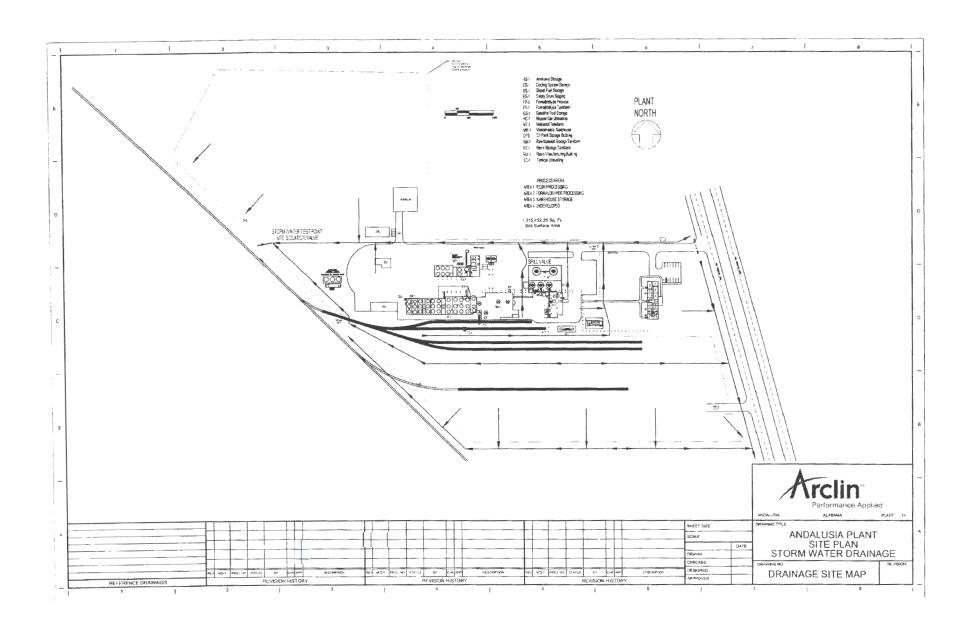
List each pollutant shown in Exhibits 2F-2, 2F-3, and 2F-4 that you know or have reason to believe is present. Complete one table for each outfall. See the instructions for additional details and requirements.

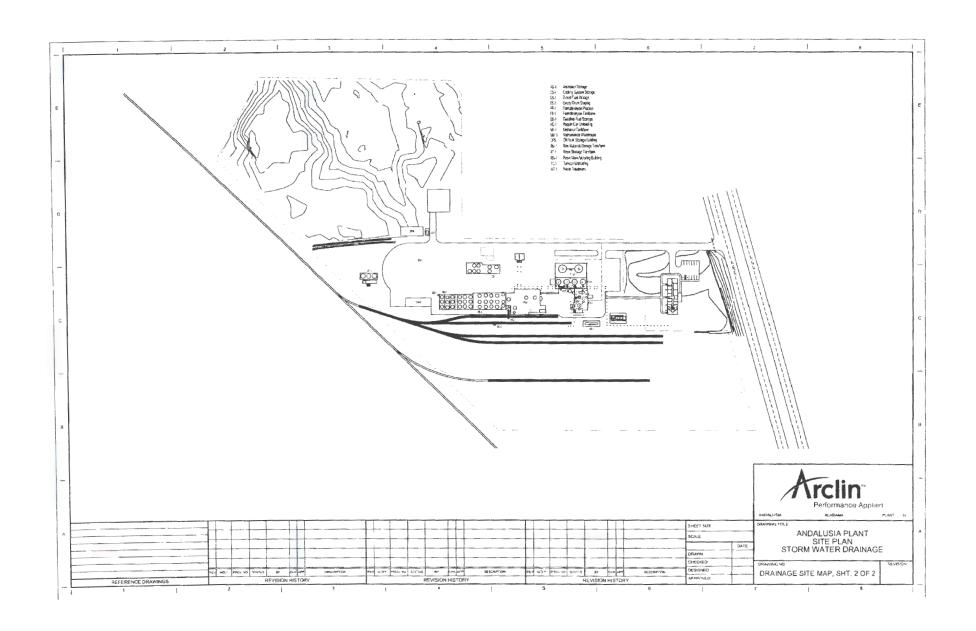
	Maximum Dail (specify		Average Daily (specify		Number of Storm	Source of Information (new source/new dischargers only; use codes in instructions)
Pollutant and CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Events Sampled	
Bromide	BMDL	BMDL			1	
Chlorine Total	BMDL				1	
Nitrite/Nitrate	1.14 ppm	0.98 ppm			1	
TKN	2.85 ppm	2.81 ppm			1	
Sulfate	14.8 ppm	6.7 ppm			1	
Sulfite	BMDL	BMDL			1	
Surfactants	BMDL	0.19 ppm			1	
Aluminum	2.69 PPM	2.73 ppm			1	
Iron	3.07 PPM	3.24 ppm			1	
Total Phenols	BMDL	BMDL			1 .	
Formaldehyde	0.05 ppm	0.1 ppm			1	
Molybdenum	BMDL	0.01 ppm			1	

¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

EPA Identification Number NPDES Permit Number 100000088255 NPDES Permit Number AL0000868			Facility name Arclin USA LLC		Outfall Number DSN 003		Form Approved 03/05/ OMB No. 2040-000	
	IT INFORMATION (40 CFR 12) n event(s) that resulted in the m		for the flow weighted com	nosita samola				
Date of Storm Event	Duration of Storm Event	Total Rainfall Durin Storm Event (In Inches)	Number of Ho	ours Between rm Measured and Measurable Rain	Maximum Flow During Rain E (in gpm or specify	vent	Total Flow from Rain Even (in gallons or specify units)	
03/12/2023								
	1.3	0.30	>72 h	nours	76 gpm		2,000	
rovide a description of t	he method of flow measuremen	t or estimate.						

EPA Form 3510-2F (Revised 3-19) Page 13





EPA Form 2F Attachment C

Storm Water Discharge 003 Part B.

2023

Note: No average values are available.

		Maximum Values		No. of	
	CAS	Grab	Composite	Events	
Pollutant	No.	Sample	Sample	Sampled	Pollutant Source
Acenaphthene, μg/l	83-32-9	BMDL	BMDL	1	NA
Acrylonitrile, µg/l	107-13-1	BMDL	BMDL	1	NA
Benzene, μg/l	71-43-2	BMDL	BMDL	1	NA
3,4 Benzofluoranthene, μg/l	205-99-2	BMDL	BMDL	1	NA
Carbon Tetrachloride, µg/l	56-23-5	BMDL	BMDL	1	NA
Chlororbenzene, µg/l	108-90-7	BMDL	BMDL	1	NA
1,2,4 Trichlorobenzene, μg/l	120-82-1	BMDL	BMDL	1	NA
Hexachlorobenzene, μg/l	118-74-1	BMDL	BMDL	1	NA
1,2 Dichloroethane, μg/l	107-06-2	BMDL	BMDL	1	NA
1,1,1 Trichloroethane, μg/l	71-55-6	BMDL	BMDL	1	NA
Hexachloroethane, µg/l	67-72-1	BMDL	BMDL	1	NA
1,1 Dichlorothane, µg/l	75-34-3	BMDL	BMDL	1	NA
1,1,2 Trichloroethane, µg/l	79-00-5	BMDL	BMDL	1	NA
Chloroethane, µg/l	75-00-3	BMDL	BMDL	1	NA
Chloroform, µg/l	67-66-3	BMDL	BMDL	1	NA
2 Chlorophenol, μg/l	95-57-8	BMDL	BMDL	1	NA
1,2 Dichlorobenzene, μg/l	95-50-1	BMDL	BMDL	1	NA
1,3 Dichlorobenzene, μg/l	541-73-1	BMDL	BMDL	1	NA
1,4 Dichlorobenzene, μg/l	106-46-7	BMDL	BMDL	1	NA
1,1 Dichloroethlyene, μg/l	75-35-4	BMDL	BMDL	1	NA
1,2 Trans Dichloroethylene, μg/l	156-60-5	BMDL	BMDL	1	NA
2,4 Dichlorophenol, μg/l	120-83-2	BMDL	BMDL	1	NA
1,2 Dichloropropane, μg/l	78-87-5	BMDL	BMDL	1	NA
1,3 Dichloropropylene, μg/l	542-75-6	BMDL	BMDL	1	NA
2,4 Dimethylphenol, μg/l	105-67-9	BMDL	BMDL	1	NA
2,4 Dinitrotoluene, μg/l	121-14-2	BMDL	BMDL	1	NA
2,6 Dinitrotoluene, μg/l	606-20-2	BMDL	BMDL	1	NA
Ethylbenzene, µg/l	100-14-4	BMDL	BMDL	1	NA
Fluoranthene, µg/l	206-44-0	BMDL	BMDL	1	NA

Methylene Chloride, μg/l	75-09-2	BMDL	BMDL	1	NA
Methyl Chloride, μg/l	74-87-3	BMDL	BMDL	1	NA
Hexachlorobutadiene, μg/l	87-68-3	BMDL	BMDL	1	NA
Naphthalene, μg/l	91-20-3	BMDL	BMDL	1	NA
Nitrobenzene, µg/l	98-95-3	BMDL	BMDL	1	NA
2 Nitrophenol, μg/l	88-75-5	BMDL	BMDL	1	NA
4 Nitrophenol, μg/l	100-02-7	BMDL	BMDL	1	NA
2,4 Dinitrophenol, µg/l	51-28-5	BMDL	BMDL	1	NA
4,6 Dinitro-O-Cresol, μg/l	534-52-1	BMDL	BMDL	1	NA
Phenols, Total ppm	108-95-2	BMDL	BMDL	1	NA
Phenol, ug/l	108-95-2	BMDL	BMDL	1	NA
Bis (2-Ethylhexyl) phthalate, µg/l	117-81-7	BMDL	BMDL	1	NA
Di-N-Butyl Phthalate, μg/l	84-74-2	BMDL	BMDL	1	NA
Diethyl Phthalate, μg/l	84-66-2	BMDL	BMDL	1	NA
Dimethyl Phthalate, μg/l	131-11-3	BMDL	BMDL	1	NA
Benzo (A) Anthracene, μg/l	56-55-3	BMDL	BMDL	1	NA
Benzo (A) Pyrene, μg/l	50-32-8	BMDL	BMDL	1	NA
Benzo (K) Fluoranthene, μg/l	207-08-9	BMDL	BMDL	1	NA
Chrysene, µg/l	218-01-9	BMDL	BMDL	1	NA
Acenaphthylene, μg/l	208-96-8	BMDL	BMDL	1	NA
Anthracene, μg/l	120-12-7	BMDL	BMDL	1	NA
Fluorene, µg/l	86-73-7	BMDL	BMDL	1	NA
Phenanthrene, µg/l	85-01-8	BMDL	BMDL	1	NA
Pyrene, μg/l	129-00-0	BMDL	BMDL	1	NA
Tetrachloroethylene, µg/l	127-18-4	BMDL	BMDL	1	NA
Toluene, μg/l	108-88-3	BMDL	BMDL	1	NA
Trichloroethylene, µg/l	79-01-6	BMDL	BMDL	1	NA
Vinyl Chloride, μg/l	75-01-4	BMDL	BMDL	1	NA
Chromium, mg/l	7440-47-3	BMDL	BMDL	1	Background
Copper, mg/l	7440-50-8	0.014	0.012	1	Background
Cyanide, mg/l	57-12-5	BMDL	BMDL	1	NA
Lead, mg/l	7439-92-1	BMDL	BMDL	1	Background
Nickel, mg/I	7440-02-0	BMDL	BMDL	1	Background
Zinc, mg/l	7440-66-6	0.14	0.19	1	Background



Title: EPA Form 2C Attachment A

ATTACHMENT A (004 Discharge)

The following is a list of substances listed in Table 2C-3 and included in section V D of the form.

- 1. Formaldehyde is shipped into the site and manufactured on site. This substance may come from the formaldehyde manufacturing process or the resin manufacturing process. Methods of treatment include confinement and recycle. Formaldehyde is tested on the Effluent Tanks before discharge.
- 2. Triethanolamine is used as a raw material in the resin manufacturing process. Methods of treatment include confinement and recycle. No analysis is available.

(002 Discharge) Emergency Cooling

No pollutants expected – Once through non-contact cooling only.



Title: EPA Form 2C Attachment B

ATTACHMENT B (004 Discharge)

The following is an explanation of why the substances marked believed present in EPA Form 2C V Part B were so marked.

- 1. Bromide may be present in our effluent because it is used as a biocide in our cooling towers.
- 2. Chlorine, total residual may be present in our effluent because it is added to the city water being supplied our plant.
- 3. Fluoride may be present in our effluent because is added to the city water being supplied our plant.
- 4. Nitrate, nitrite and total organic nitrogen may be present in our effluent because urea and several lessor nitrogen containing substances are used as raw materials in the resin manufacturing process.
- 5. Oil and grease may be present in our effluent because they are used in maintenance at the plant.
- 6. Phosphorus may be present in our effluent because it is an addition in our boiler treatment chemicals.
- 7. Sulfate may be present in our effluent because sulfuric acid is an additive for pH control in the Effluent System.
- 8. Sulfite may be present in our effluent because it is used as an oxygen scavenger in our boiler water treatment.
- 9. Surfactants may be present in our effluent because they are used to control foaming in our formaldehyde and resin manufacturing processes.
- 10. Iron may be present in our effluent because of the corrosion of steel and iron piping in the plant.

Water Treatment				Lbs/Year		
	ChemTreat	Function	Chemical Compounds	Qty Used	Frequency of use	Concentration
Cooling Tower	CL-5685	Scale and corrosion inhibitor	sodium hydroxide, chlorotolytriazole salt, polymers	5764	daily, based on blow down	75ppm
	C2189T	Microbiological control	Bromine/Chlorine	300	daily, based on micro-bio counts	1ppm
			sodium hydroxide, synthetic organic polymers,			
Resin Boiler	BL2802	Internal boiler treatment	cyclohexylamine, morpholine, 2-diethylaminoethanol	1103.64	daily, based on blow down	2500ppb
	BL1285	oxygen scavenger	DEHA	194	daily, based on blow down	500ppb
			sodium hydroxide, synthetic organic polymers,			
Boiler Feed H2O	BL2802	Internal boiler treatment	cyclohexylamine, morpholine, 2-diethylaminoethanol	4414.55	daily, based on blow down	2500ppb
· ·	BL1285	oxygen scavenger	DEHA	194	daily, based on blow down	500ppb

List

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C2189T	Microbiological control	Bromine/Chlorine
CL-5685	Scale and corrosion inhibitor	sodium hydroxide, chlorotolytriazole salt, polymers
		sodium hydroxide, synthetic organic polymers,
BL2802	Internal boiler treatment	cyclohexylamine, morpholine, 2-diethylaminoethanol
BL1285	oxygen scavenger	DEHA