LANCE R. LEFLEUR
DIRECTOR

KAY IVEY
GOVERNOR

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Montgomery, Alabama 36130-1463
(334) 271-7700 ▪ FAX (334) 271-7950

MARCH 28, 2024

NICK ENGEBOS
MOBILE FACILITY MANAGER
KIMBERLY-CLARK CORP
200 BAY BRIDGE RD
MOBILE, AL 36610

RE: DRAFT PERMIT
NPDES PERMIT NUMBER AL0002801

Dear Mr. Engebos:

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 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:

1. 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 Scott Jackson by e-mail at **scott.jackson@adem.alabama.gov** or by phone at **(334) 394-4366.**

Sincerely,

Scott Ramsey, Chief
Industrial Section
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

Birmingham Branch
110 Vulcan Road
Birmingham, AL 35209-4702
(205) 942-6168
(205) 941-1603 (FAX)

Decatur Branch
2715 Sandlin Road, S.W.
Decatur, AL 35603-1333
(256) 353-1713
(256) 340-9359 (FAX)

Mobile Branch
2204 Perimeter Road
Mobile, AL 36615-1131
(251) 450-3400
(251) 479-2593 (FAX)

Mobile-Coastal
3664 Dauphin Street, Suite B
Mobile, AL 36608
(251) 304-1176
(251) 304-1189 (FAX)

ADEM
Alabama Department of Environmental Management

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT

PERMITTEE: KIMBERLY-CLARK CORP

FACILITY LOCATION: KIMBERLY-CLARK CORP
200 BAY BRIDGE RD
MOBILE, ALABAMA 36610
MOBILE COUNTY

PERMIT NUMBER: AL0002801

RECEIVING WATERS:

DSN001:	MOBILE RIVER
DSN002 – DSN010, DSN012, DSN013, & DSN021:	CHICKASAW CREEK
DSN014 – DSN020:	THREEMILE CREEK

In accordance with and subject to the provisions of the Federal Water Pollution Control Act, as amended, 33 U.S.C. §§1251-1388 (the "FWPCA"), the Alabama Water Pollution Control Act, as amended, Code of Alabama 1975, §§ 22-22-1 to 22-22-14 (the "AWPCA"), the Alabama Environmental Management Act, as amended, Code of Alabama 1975, §§22-22A-1 to 22-22A-17, and rules and regulations adopted thereunder, and subject further to the terms and conditions set forth in this permit, the Permittee is hereby authorized to discharge into the above-named receiving waters.

ISSUANCE DATE:

EFFECTIVE DATE:

EXPIRATION DATE:

DRAFT

Alabama Department of Environmental Management

Table of Contents

Table of Contents (continued)

PART I: DISCHARGE LIMITATIONS, CONDITIONS, AND REQUIREMENTS

A. DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS

DSN0011: Process wastewaters associated with tissue and towel manufacturing operations, steam and power generation, virgin fiber, waste cardboard and office paper processing, and stormwater runoff **3/ 4/**

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
BOD, 5-Day (20 Deg. C) (00310) Effluent Gross Value	11259 Monthly Average	20565 Maximum Daily	lbs/day	*****	*****	*****	*****	Week Days	Composite	All Months
pH (00400) Effluent Gross Value	*****	*****	*****	5.0 Minimum Daily	*****	9.0 Maximum Daily	S.U.	Week Days	Grab	All Months
Solids, Total Suspended (00530) Effluent Gross Value	11275 Monthly Average	22658 Maximum Daily	lbs/day	*****	*****	*****	*****	Week Days	Composite	All Months
Nitrogen, Ammonia Total (As N) (00610) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Monthly	Grab	All Months
Nitrogen, Kjeldahl Total (As N) (00625) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Monthly	Grab	Apr, May, Jun, Jul, Aug, Sep, Oct
Nitrite Plus Nitrate Total 1 Det. (As N) (00630) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Monthly	Grab	Apr, May, Jun, Jul, Aug, Sep, Oct
Phosphorus, Total (As P) (00665) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Monthly	Grab	Apr, May, Jun, Jul, Aug, Sep, Oct

THE DISCHARGE SHALL HAVE NO SHEEN, AND THERE SHALL BE NO DISCHARGE OF VISIBLE OIL, FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

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/ See Part IV.D for Discharge Information Zone (DIZ) Requirements.

DSN0011 (Continued): Process wastewaters associated with tissue and towel manufacturing operations, steam and power generation, virgin fiber, waste cardboard and office paper processing, and stormwater runoff **3/ 4/**

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
Flow, In Conduit or Thru Treatment Plant (50050) Effluent Gross Value	(Report) Monthly Average	(Report) Maximum Daily	MGD	*****	*****	*****	*****	Daily	Totalizer	All Months
Certification - River **5/** Monitoring (51946) Effluent Gross Value	*****	*****	*****	*****	*****	0 Maximum Daily	Yes=0; No=1	Monthly	Not Applicable	Jul, Aug, Sep

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/ See Part IV.D for Discharge Information Zone (DIZ) Requirements.

5/ The Permittee shall report "0" to indicate compliance with the reporting requirements of Part IV.E.4.

DSN0011: Process wastewaters associated with tissue and towel manufacturing operations, steam and power generation, virgin fiber, waste cardboard and office paper processing, and stormwater runoff **3/ 4/**

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
P/F Statre 7 Day Chr Mysid. Bahia (TGP3E) Effluent Gross Value	*****	*****	*****	*****	*****	0 Maximum Daily	pass=0; fail=1	Annually	Composite	All Months
P/F Statre 7 Day Chr Cyprinodon (TGP6A) Effluent Gross Value	*****	*****	*****	*****	*****	0 Maximum Daily	pass=0; fail=1	Annually	Composite	All Months

THE DISCHARGE SHALL HAVE NO SHEEN, AND THERE SHALL BE NO DISCHARGE OF VISIBLE OIL, FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

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/ See Part IV.C for Effluent Toxicity Limitations and Biomonitoring Requirements.

DSN001Y: Process wastewaters associated with tissue and towel manufacturing operations, steam and power generation, virgin fiber, waste cardboard and office paper processing, and stormwater runoff **3/**

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
Pentachlorophenol (39032) **4/** Effluent Gross Value	*****	6.3 Maximum Daily	lbs/day	*****	*****	*****	*****	Annually	Composite	All Months
Trichlorophenol (81848) **4/** Effluent Gross Value	*****	2.2 Maximum Daily	lbs/day	*****	*****	*****	*****	Annually	Composite	All Months

THE DISCHARGE SHALL HAVE NO SHEEN, AND THERE SHALL BE NO DISCHARGE OF VISIBLE OIL, FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

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/ In lieu of monitoring for these parameters, the Permittee may certify non-use of chlorophenolic containing compounds according to the requirements of 40 CFR 430.105 and 40 CFR 430.124 by entering *9 on the discharge monitoring report.

DSN002S – DSN005S: Stormwater runoff from non-process areas associated with paper mill operations **3/**
DSN007S & DSN012S: Non-contact cooling water and stormwater runoff from non-process areas associated with paper mill operations **3/**
DSN008S & DSN013S: Stormwater runoff from non-process areas associated with paper mill operations **3/ 5/**
DSN009S & DSN010S: Stormwater runoff from non-process areas associated with inert material storage, trailer parking, and contractor activities **3/**
DSN021S: Stormwater runoff from non-process areas associated with temporary inert material storage and additional trailer parking **3/**

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
pH (00400) Effluent Gross Value	*****	*****	*****	(Report) Minimum Daily	*****	(Report) Maximum Daily	S.U.	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	*****	*****	*****	*****	*****	15 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 **4/**	All Months
Chemical Oxygen Demand (COD) (81017) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Semi-Annually	Grab	All Months

THE DISCHARGE SHALL HAVE NO SHEEN, AND THERE SHALL BE NO DISCHARGE OF VISIBLE OIL, FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

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/ See Part IV.B for Stormwater Measurement and Sampling Requirements.

5/ Outfall DSN008 is deemed representative of Outfall DSN013. Monitoring is only required at DSN008.

DSN006S: Stormwater runoff from warehouse roof drains **1/**

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	Sample Type	Seasonal

NO LIMITATIONS OR MONITORING REQUIREMENTS IMPOSED

THE DISCHARGE SHALL HAVE NO SHEEN, AND THERE SHALL BE NO DISCHARGE OF VISIBLE OIL, FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

1/ See Part IV.A for Best Management Practices (BMP) Plan Requirements.

DSN0071: Non-contact cooling water and stormwater runoff from non-process areas associated with paper mill operations **3/ 4/**

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
Temperature, Water Deg. Fahrenheit (00011) Effluent Gross Value	*****	*****	*****	*****	*****	95 Maximum Daily	deg F	Monthly	Grab	All Months
Flow, In Conduit or Thru Treatment Plant (50050) Effluent Gross Value	*****	(Report) Maximum Daily	MGD	*****	*****	*****	*****	Monthly	Estimate	All Months
Chlorine, Total Residual (50060) Effluent Gross Value	*****	(Report) Maximum Daily	lbs/day	*****	*****	*****	*****	Monthly	Grab	All Months
Chlorine, Total Residual **5/** (50060) See Comments Below	*****	1.5 Maximum Daily	lbs/day	*****	*****	*****	*****	Monthly	Grab	All Months

THE DISCHARGE SHALL HAVE NO SHEEN, AND THERE SHALL BE NO DISCHARGE OF VISIBLE OIL, FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

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/ Monitoring requirements only apply when DSN007 is discharging in the absence of a qualifying storm event.

5/ To show compliance with the maximum daily loading, the cumulative total for both Outfall DSN007 and Outfall DSN012 is required to be reported on the discharge monitoring report for DSN007.

DSN0121: Non-contact cooling water and stormwater runoff from non-process areas associated with paper mill operations **3/ 4/**

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
Temperature, Water Deg. Fahrenheit (00011) Effluent Gross Value	*****	*****	*****	*****	*****	95 Maximum Daily	deg F	Monthly	Grab	All Months
Flow, In Conduit or Thru Treatment Plant (50050) Effluent Gross Value	*****	(Report) Maximum Daily	MGD	*****	*****	*****	*****	Monthly	Estimate	All Months
Chlorine, Total Residual (50060) Effluent Gross Value	*****	(Report) Maximum Daily	lbs/day	*****	*****	*****	*****	Monthly	Grab	All Months

THE DISCHARGE SHALL HAVE NO SHEEN, AND THERE SHALL BE NO DISCHARGE OF VISIBLE OIL, FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

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/ Monitoring requirements only apply when DSN012 is discharging in the absence of a qualifying storm event.

DSN014S – DSN020S: Stormwater runoff from distribution/shipping warehouse roof drains and adjacent areas surrounding the buildings **3/ 5/**

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
pH (00400) Effluent Gross Value	*****	*****	*****	(Report) Minimum Daily	*****	(Report) Maximum Daily	S.U.	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	*****	*****	*****	*****	*****	15 Maximum Daily	mg/l	Semi-Annually	Grab	All Months
Nitrogen, Ammonia Total (As N) (00610) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Semi-Annually	Grab	All Months
Nitrite Plus Nitrate Total 1 Det. (As N) (00630) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Semi-Annually	Grab	All Months
Phosphorus, Total (As P) (00665) 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 **4/**	All Months
Chemical Oxygen Demand (COD) (81017) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Semi-Annually	Grab	All Months

THE DISCHARGE SHALL HAVE NO SHEEN, AND THERE SHALL BE NO DISCHARGE OF VISIBLE OIL, FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

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/ See Part IV.B for Stormwater Measurement and Sampling Requirements.

5/ Outfall DSN019 is deemed representative of Outfalls DSN014, DSN015, DSN016, DSN017, DSN018, and DSN020. Monitoring is only required at DSN019.

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:

a. 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;

c. 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

f. 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 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-.09 or a "duly authorized representative" of such official as defined in ADEM Administrative Code Rule 335-6-6-.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:

a. 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 Code of Alabama 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. Arithmetic Mean – 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.

6. 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. Daily discharge - 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. Daily maximum - means the highest value of any individual sample result obtained during a day.

10. Daily minimum - 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. Director - means the Director of the Department.

14. Discharge - 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. Discharge Monitoring Report (DMR) - 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. Geometric Mean – 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. Grab Sample – 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. Indirect Discharger – means a nondomestic discharger who discharges pollutants to a publicly owned treatment works or a privately owned treatment facility operated by another person.

25. Industrial User – 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. MGD – 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. Permit application - means forms and additional information that is required by ADEM Administrative Code Rule 335-6-6-.08 and applicable permit fees.

31. Point source - 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. Privately Owned Treatment Works – 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. Publicly Owned Treatment Works – 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. Severe property damage - means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.

37. Significant Source – 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. Solvent – 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

    c. a sample collected over a consecutive 24-hour period using an automatic composite sampler composited proportional to flow.

44. Upset - 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:

(1) 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;

i. 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;

l. 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. 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. EFFLUENT TOXICITY LIMITATIONS AND BIOMONITORING REQUIREMENTS

1. 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.

a. Test Requirements

(1) The samples shall be diluted using appropriate control water, to the Instream Waste Concentration (IWC) which is 4.0% effluent. The IWC is the actual concentration of effluent, after mixing, in the receiving stream during a 7-day, 10-year flow period.

(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 indicates 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 821-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%, C. variegatus dry weight per surviving control organism is less than 0.60 mg, M. bahia dry weight per surviving control organism is less than 0.20 mg and less than 50% of the females in the controls produce eggs (Fecundity), 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

(1) The tests shall be performed in accordance with the latest edition of the "EPA Short-Term Methods for Estimating the Chronic Toxicity to Effluents and Receiving Water to Marine and Estuarine Organisms". The Larval Survival and Growth Test, Methods 1004.0, Section 11, shall be used for the sheepshead minnow (*Cyprinodon Variegatus*) test and the Fertilization Test, Method 1007.0, Section 14, shall be used for the mysid (*Mysidopsis bahia*) 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 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) Specify if aeration was needed

(12) Feeding frequency, and 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 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). 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) Action to be taken

Adapted from "Short-Term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Marine and Estuarine Organisms", Third Edition, October 2002 (EPA 821-R-02-014).

D. DISCHARGE INFORMATION ZONE (DIZ) REQUIREMENTS

1. The permittee shall, upon request for a permit renewal, perform a sediment and benthic community characterization utilizing the same sampling locations approved in the original DIZ study plan, unless a modified study plan is approved by the Department. The DIZ monitoring shall be repeated if the permittee fails accelerated testing and is required to initiate a Toxicity Reduction Evaluation (TRE) pursuant to Part IV.C. of this permit.

2. Monitoring shall be conducted during the same season as the original characterization and shall conform to the DIZ study plan, unless otherwise approved by the Department. Monitoring results shall be submitted to the Department along with the application for permit renewal or with the discharge monitoring report form in the event that repeated monitoring is required.

3. The permittee shall not allow biological damage or adverse water quality impacts to occur at the perimeter or outside the boundaries of the original characterization. If the biological monitoring shows evidence of biological damage or adverse water quality impacts at the perimeter or outside the boundaries of the original characterization, the permittee will be in violation of the permit unless the permittee can demonstrate that the cause of the adverse impacts are due to a source other than the permittee's discharge. In the case that it is determined to be a permit violation, the permittee will be required within 30 days after becoming aware of the violation to submit a plan to correct and eliminate the biological damage and adverse water quality impacts caused by the discharge.

4. The Department may suspend or otherwise modify the DIZ monitoring requirements if:

a. The Department determines, through review of discharge information and/or its own modeling efforts, that the discharge is having no significant impact to coastal resources beyond 400 feet of the discharge point; or

b. The Department determines, through the review of discharge information and/or its own modeling efforts, that the discharge monitoring is inadequate to detect significant impacts to coastal resources beyond 400 feet of the discharge point; or

c. The Department determines, based on available biological and chemical data that, due to the nature of the discharge, no significant impacts to coastal resources will occur beyond 400 feet of the discharge point; or

d. Deemed necessary by the Department to ensure protection of coastal resources.

E. STREAM MONITORING REQUIREMENTS

1. Between July 1 and September 30, stream monitoring requirements shall be performed on a monthly basis. Sampling shall be performed at the following locations:

   a. Approximately 2.6 miles below the Africatown-Cochran Bridge, midstream

   b. Approximately 1.6 miles below the Africatown-Cochran Bridge, midstream

   c. Approximately 0.6 miles below the Africatown-Cochran Bridge, midstream

   d. Approximately 0.2 miles below the Africatown-Cochran Bridge, midstream, one-quarter the width of the stream from the west bank and one-quarter the width of the stream from the east bank

   e. At the Kimberly Clark outfall

   f. Approximately 0.6 miles below the Spanish River, midstream. This location should be upstream of the process outfall.

2. At each location measurements shall be made at the five-foot depth as a minimum for the following parameters:

   a. Dissolved oxygen,

   b. Temperature, both ambient and stream,

   c. Conductivity, and

   d. pH

3. Sample collection and analysis shall be performed in accordance with EPA approved sample collection protocol and analysis methods.

4. Stream monitoring results shall be submitted no later than 28 days after the end of the month during which the samples were collected. The results shall be submitted electronically.

5. This permit shall be modified or revoked and reissued in the event water quality is being contravened by the discharge or if the results of water quality model indicate that more restrictive limits are needed to protect water quality.

LANCE R. LEFLEUR
DIRECTOR

KAY IVEY
GOVERNOR

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FACT SHEET

APPLICATION FOR NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT TO DISCHARGE POLLUTANTS TO WATERS OF THE STATE OF ALABAMA

Date: November 27, 2023 **Prepared By:** Scott Jackson

NPDES Permit No. AL0002801

1. **Name and Address of Applicant:**

   Kimberly-Clark Corp
   200 Bay Bridge Rd
   Mobile, AL 36610

2. **Name and Address of Facility:**

   Kimberly-Clark Corp
   200 Bay Bridge Rd
   Mobile, AL 36610

3. **Description of Applicant's Type of Facility and/or Activity Generating the Discharge:**

   The entire site is composed of two recycle fiber facilities that produce white and brown recycle fiber, five tissue/towel manufacturing machines, converting assets, and a cogeneration facility which generates electricity for the site. Processes include tissue and towel manufacturing operations, steam and power generation, and virgin fiber, waste cardboard, and office paper processing.

4. **Applicant's Receiving Waters**

Receiving Waters	Classification
Chickasaw Creek	Limited Warmwater Fishery
Mobile River	Limited Warmwater Fishery
Threemile Creek	Agricultural and Industrial Water Supply

   For the Outfall latitude and longitude, see the permit application.

5. **Permit Conditions:**

   See attached Rationale and Draft Permit.

6. **PROCEDURES FOR THE FORMULATION OF FINAL DETERMINATIONS**

   a. **Comment Period**

   The Alabama Department of Environmental Management proposes to issue this NPDES permit subject to the limitations and special conditions outlined above. This determination is tentative.

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Birmingham, AL 35209-4702
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(205) 941-1603 (FAX)

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Mobile Branch
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(251) 479-2593 (FAX)

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Mobile, AL 36608
(251) 304-1176
(251) 304-1189 (FAX)

Interested persons are invited to submit written comments on the draft permit to the following address:

Jeffery W. Kitchens, Chief
ADEM-Water Division
1400 Coliseum Blvd
[Mailing Address: Post Office Box 301463; Zip 36130-1463]
Montgomery, Alabama 36110-2400
(334) 271-7823
water-permits@adem.alabama.gov

All comments received prior to the closure of the public notice period (see public notice for date) will be considered in the formulation of the final determination with regard to this permit.

b. Public Hearing

A written request for a public hearing may be filed within the public notice period and must state the nature of the issues proposed to be raised in the hearing. A request for a hearing should be filed with the Department at the following address:

Jeffery W. Kitchens, Chief
ADEM-Water Division
1400 Coliseum Blvd
[Mailing Address: Post Office Box 301463; Zip 36130-1463]
Montgomery, Alabama 36110-2400
(334) 271-7823
water-permits@adem.alabama.gov

The Director shall hold a public hearing whenever it is found, on the basis of hearing requests, that there exists a significant degree of public interest in a permit application or draft permit. The Director may hold a public hearing whenever such a hearing might clarify one or more issues involved in the permit decision. Public notice of such a hearing will be made in accordance with ADEM Admin. Code r. 335-6-6-.21.

c. Issuance of the Permit

All comments received during the public comment period shall be considered in making the final permit decision. At the time that any final permit decision is issued, the Department shall prepare a response to comments in accordance with ADEM Admin. Code r. 335-6-6-.21. **The permit record, including the response to comments, will be available to the public via the eFile System** http://app.adem.alabama.gov/eFile/ **or an appointment to review the record may be made by writing the Permits and Services Division at the above address.**

Unless a request for a stay of a permit or permit provision is granted by the Environmental Management Commission, the proposed permit contained in the Director's determination shall be issued and effective, and such issuance will be the final administrative action of the Alabama Department of Environmental Management.

d. Appeal Procedures

As allowed under ADEM Admin. Code chap. 335-2-1, any person aggrieved by the Department's final administrative action may file a request for hearing to contest such action. Such requests should be received by the Environmental Management Commission within thirty days of issuance of the permit. Requests should be filed with the Commission at the following address:

Alabama Environmental Management Commission
1400 Coliseum Blvd
[Mailing Address: Post Office Box 301463; Zip 36130-1463]
Montgomery, Alabama 36110-2400

All requests must be in writing and shall contain the information provided in ADEM Admin. Code r. 335-2-1-.04.

ADEM PERMIT RATIONALE

PREPARED DATE: March 14, 2024
PREPARED BY: Scott Jackson

Permittee Name: Kimberly-Clark Corp

Facility Name: Kimberly-Clark Corp

Permit Number: AL0002801

PERMIT IS REISSUANCE DUE TO EXPIRATION

DISCHARGE SERIAL NUMBERS (DSN) & DESCRIPTIONS:

DSN001: Process wastewaters associated with tissue and towel manufacturing operations, steam and power generation, virgin fiber, waste cardboard and office paper processing, and stormwater runoff

DSN002 – DSN005, DSN008, & DSN013: Stormwater runoff from non-process areas associated with paper mill operations

DSN006: Stormwater runoff from warehouse roof drains

DSN007 & DSN012: Non-contact cooling water and stormwater runoff from non-process areas associated with paper mill operations

DSN009 & DSN010: Stormwater runoff from non-process areas associated with inert material storage, trailer parking, and contractor activities

DSN014 – DSN020: Stormwater runoff from distribution/shipping warehouse roof drains and adjacent areas surrounding the buildings

DSN021: Stormwater runoff from non-process areas associated with temporary inert material storage and additional trailer parking

INDUSTRIAL CATEGORY:

40 CFR Part 430 – The Pulp, Paper, and Paperboard Point Source Category
430.105 (NSPS) Subpart J – Secondary Fiber Non-Deink Subcategory
430.122 (BCT/BPT) & 430.124 (BAT) Subpart L – Tissue, Filter, Non-Woven, and Paperboard from Purchased Pulp Subcategory

MAJOR: **Y**

STREAM INFORMATION:

Receiving Stream	Mobile River (DSN001)	Chickasaw Creek (DSN002 – DSN010, DSN012, DSN013, & DSN021)	Threemile Creek (DSN014 – DSN020)
Classification	Limited Warmwater Fishery (LWF)	Limited Warmwater Fishery (LWF)	Agricultural and Industrial Water Supply (A&I)
River Basin	Mobile	Mobile	Mobile
7Q10	*	*	*
7Q2	*	*	*
1Q10	*	*	*

Annual Average Flow	*	*	*
303(d) List	NO	YES	NO
Impairment	N/A	Metals (Mercury)	Organic Enrichment/Dissolved Oxygen (OE/DO) & Pathogens (Enterococci)
TMDL	NO	NO	YES

*Critical flows are indeterminate in coastal locations since they are below the ten-foot contour line and due to tidal effects. Based on BPJ, there is some dilution available in all the above receiving streams because of the large volume of water at the point of the discharges.

DISCUSSION:

The Mobile Kimberly-Clark facility (K-C) is comprised of two recycle fiber facilities that produce white and brown recycle fiber, 5 tissue/towel manufacturing machines, and various converting assets. Other operating areas within the facility include the Water Filter Plant (WFP), Wastewater Treatment Plant (WWTP), compressed air supply, contractor storage and fabrication zones, and railcar to truck transfer areas for recycled fiber bales. K-C operates a cogeneration facility which includes two gas turbine generators, two heat recovery boilers, related power distribution switch gear, and auxiliary equipment. The cogeneration system generates 42 megawatts (MW) of the facility's 52 MW electrical demand. The remaining electrical demand is purchased from a local utility company.

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 new or expanded discharge. Therefore, the applicant is not required to demonstrate that the discharge is necessary for economic and social development.

DSN0011: Process wastewaters associated with tissue and towel manufacturing operations, steam and power generation, virgin fiber, waste cardboard and office paper processing, and stormwater runoff

Parameter	Quantity or Loading		Units	Quality or Concentration			Units	Sample Frequency	Sample Type	Seasonal	Basis
BOD, 5-Day (20 Deg. C) (00310) Effluent Gross Value	11259 Monthly Average	20565 Maximum Daily	lbs/day	*****	*****	*****	*****	Week Days	Composite	All Months	EGL
pH (00400) Effluent Gross Value	*****	*****	*****	5.0 Minimum Daily	*****	9.0 Maximum Daily	S.U.	Week Days	Grab	All Months	EGL
Solids, Total Suspended (00530) Effluent Gross Value	11275 Monthly Average	22658 Maximum Daily	lbs/day	*****	*****	*****	*****	Week Days	Composite	All Months	EGL
Nitrogen, Ammonia Total (As N) (00610) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Monthly	Grab	All Months	BPJ
Nitrogen, Kjeldahl Total (As N) (00625) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Monthly	Grab	Apr, May, Jun, Jul, Aug, Sep, Oct	BPJ
Nitrite Plus Nitrate Total 1 Det. (As N) (00630) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Monthly	Grab	Apr, May, Jun, Jul, Aug, Sep, Oct	BPJ
Phosphorus, Total (As P) (00665) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Monthly	Grab	Apr, May, Jun, Jul, Aug, Sep, Oct	BPJ
Flow, In Conduit or Thru Treatment Plant (50050) Effluent Gross Value	(Report) Monthly Average	(Report) Maximum Daily	MGD	*****	*****	*****	*****	Daily	Totalizer	All Months	BPJ
Certification - River Monitoring (51946) Effluent Gross Value	*****	*****	*****	*****	*****	0 Maximum Daily	Yes=0; No=1	Monthly	Not Applicable	Jul, Aug, Sep	WQBEL

DSN001T: Process wastewaters associated with tissue and towel manufacturing operations, steam and power generation, virgin fiber, waste cardboard and office paper processing, and stormwater runoff

Parameter	Quantity or Loading		Units	Quality or Concentration			Units	Sample Frequency	Sample Type	Seasonal	Basis
P/F Statre 7 Day Chr Mysid. Bahia (TGP3E) Effluent Gross Value	*****	*****	*****	*****	*****	0 Maximum Daily	pass=0; fail=1	Annually	Composite	All Months	WQBEL
P/F Statre 7 Day Chr Cyprinodon (TGP6A) Effluent Gross Value	*****	*****	*****	*****	*****	0 Maximum Daily	pass=0; fail=1	Annually	Composite	All Months	WQBEL

DSN001Y: Process wastewaters associated with tissue and towel manufacturing operations, steam and power generation, virgin fiber, waste cardboard and office paper processing, and stormwater runoff

Parameter	Quantity or Loading		Units	Quality or Concentration			Units	Sample Frequency	Sample Type	Seasonal	Basis
Pentachlorophenol (39032) Effluent Gross Value	*****	6.3 Maximum Daily	lbs/day	*****	*****	*****	*****	Annually	Composite	All Months	EGL
Trichlorophenol (81848) Effluent Gross Value	*****	2.2 Maximum Daily	lbs/day	*****	*****	*****	*****	Annually	Composite	All Months	EGL

DSN002S – DSN005S, DSN008, & DSN013: Stormwater runoff from non-process areas associated with paper mill operations
DSN007S & DSN012S: Non-contact cooling water and stormwater runoff from non-process areas associated with paper mill operations
DSN009S & DSN010S: Stormwater runoff from non-process areas associated with inert material storage, trailer parking, and contractor activities
DSN021S: Stormwater runoff from non-process areas associated with temporary inert material storage and additional trailer parking

Parameter	Quantity or Loading		Units	Quality or Concentration			Units	Sample Frequency	Sample Type	Seasonal	Basis
pH (00400) Effluent Gross Value	*****	*****	*****	(Report) Minimum Daily	*****	(Report) Maximum Daily	S.U.	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	*****	*****	*****	*****	*****	15 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	BPJ
Chemical Oxygen Demand (COD) (81017) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Semi-Annually	Grab	All Months	BPJ

DSN006: Stormwater runoff from warehouse roof drains*

***No Limitations or Monitoring Requirements Imposed**

DSN0071: Non-contact cooling water and stormwater runoff from non-process areas associated with paper mill operations

Parameter	Quantity or Loading		Units	Quality or Concentration			Units	Sample Frequency	Sample Type	Seasonal	Basis
Temperature, Water Deg. Fahrenheit (00011) Effluent Gross Value	*****	*****	*****	*****	*****	95 Maximum Daily	deg F	Monthly	Grab	All Months	WQBEL
Flow, In Conduit or Thru Treatment Plant (50050) Effluent Gross Value	*****	(Report) Maximum Daily	MGD	*****	*****	*****	*****	Monthly	Estimate	All Months	BPJ
Chlorine, Total Residual (50060) Effluent Gross Value	*****	(Report) Maximum Daily	lbs/day	*****	*****	*****	*****	Monthly	Grab	All Months	BPJ
Chlorine, Total Residual (50060) R - See Comments Below	*****	1.5 Maximum Daily	lbs/day	*****	*****	*****	*****	Monthly	Grab	All Months	WQBEL

DSN0121: Non-contact cooling water and stormwater runoff from non-process areas associated with paper mill operations

Parameter	Quantity or Loading		Units	Quality or Concentration			Units	Sample Frequency	Sample Type	Seasonal	Basis
Temperature, Water Deg. Fahrenheit (00011) Effluent Gross Value	*****	*****	*****	*****	*****	95 Maximum Daily	deg F	Monthly	Grab	All Months	WQBEL
Flow, In Conduit or Thru Treatment Plant (50050) Effluent Gross Value	*****	(Report) Maximum Daily	MGD	*****	*****	*****	*****	Monthly	Estimate	All Months	BPJ
Chlorine, Total Residual (50060) Effluent Gross Value	*****	(Report) Maximum Daily	lbs/day	*****	*****	*****	*****	Monthly	Grab	All Months	BPJ

DSN014S – DSN020S: Stormwater runoff from distribution/shipping warehouse roof drains and adjacent areas surrounding the buildings

Parameter	Quantity or Loading		Units	Quality or Concentration			Units	Sample Frequency	Sample Type	Seasonal	Basis
pH (00400) Effluent Gross Value	*****	*****	*****	(Report) Minimum Daily	*****	(Report) Maximum Daily	S.U.	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	*****	*****	*****	*****	*****	15 Maximum Daily	mg/l	Semi-Annually	Grab	All Months	BPJ
Nitrogen, Ammonia Total (As N) (00610) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Semi-Annually	Grab	All Months	BPJ
Nitrite Plus Nitrate Total 1 Det. (As N) (00630) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Semi-Annually	Grab	All Months	BPJ
Phosphorus, Total (As P) (00665) 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	BPJ
Chemical Oxygen Demand (COD) (81017) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Semi-Annually	Grab	All Months	BPJ

*Basis for Permit Limitation

- BPJ – Best Professional Judgment
- WQBEL – Water Quality Based Effluent Limits
- EGL – Federal Effluent Guideline Limitations
- 303(d) – 303(d) List of Impaired Waters
- TMDL – Total Maximum Daily Load Requirements

Discussion (continued):

DSN001: Process wastewaters associated with tissue and towel manufacturing operations, steam and power generation, virgin fiber, waste cardboard and office paper processing, and stormwater runoff

Federal Effluent Guideline Limitations (EGL)

Parameters based upon EGL have had effluent guidelines established under the 40 CFR Part 430 – The Pulp, Paper, and Paperboard Point Source Category. More specifically, the facility is subject to 430.105 Subpart J – Secondary Fiber Non-Deink Subcategory and 430.122 & 430.124 Subpart L – Tissue, Filter, Non-Woven, and Paperboard from Purchased Pulp Subcategory. The production data used in the calculations was taken from EPA Form 2C in the facility's reissuance application. A summary of the effluent guideline calculations and permit limitations can be found in Attachment A.

Biochemical Oxygen Demand (5-Day) (BOD_5) and Total Suspended Solids (TSS)

BOD_5 and TSS have effluent guideline limitations established under 40 CFR 430.105 and 430.122. Effluent guideline limitations for BOD_5 and TSS are the sum of the individual limitations under the above 40 CFR subparts. The final BOD_5 and TSS limitations are the most stringent of the calculated effluent guideline limitations and existing permit limitations. The monitoring frequency for BOD_5 and TSS is proposed to continue on week days (Monday through Friday).

Pentachlorophenol* and Trichlorophenol*

These parameters are regulated under 40 CFR 430.105 and 430.124. The sum of these guidelines provides the final limitations applicable to the discharge. As noted in Attachment A, the current daily maximum permit limitations of 2.45 lbs/day for Pentachlorophenol and 6.11 lbs/day for Trichlorophenol were incorrectly calculated. The corrected values using production data reported in the previous reissuance application are 7.66 lbs/day for Pentachlorophenol and 2.69 lbs/day for Trichlorophenol. The calculated limitation for Pentachlorophenol for this permit issuance is less stringent than the existing permit limitation, and the calculated limitation for Trichlorophenol for this permit issuance is more stringent than the existing permit limitation; however, both of the calculated limitations for this permit issuance are each more stringent than the corrected values noted above. The calculated effluent guideline limitations shall apply in this permit issuance. The facility has never used chlorophenolic-containing biocides at the site, therefore, anti-backsliding is not applicable. The 40 CFR 430.105 and 430.124 guidelines state that, "Permittees not using chlorophenolic-containing biocides must certify to the permit-issuing authority that they are not using these biocides."

*In lieu of monitoring for these parameters, the facility can submit a certification of non-use by reporting *9 on the discharge monitoring report.

Water Quality Based Effluent Limits (WQBEL)

pH

ADEM Administrative Code, Division 6 Regulations, specifically 335-6-10-.09(6)(a) – Specific Water Quality for Limited Warmwater Fishery classified streams states: "The provisions of the Fish and Wildlife water use classification at rule 335-6-10-.09(5) shall apply to the Limited Warmwater Fishery water use classification, except as noted below. Unless alternative criteria for a given parameter are provided in paragraph (e) below, the applicable Fish and Wildlife criteria at paragraph 10-.09(5)(e) shall apply year-round." Specifically, 335-6-10-.09(5)(e)2. 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. For salt waters and estuarine waters to which this classification is assigned, wastes as herein described shall not cause the pH to deviate more than one unit from the normal or natural pH, nor be less than 6.5, nor greater than 8.5" The current permit has pH limitations from 5.0 to 9.0 S.U. at Outfall DSN001. The effluent guidelines that the facility are subject to provide for a daily minimum pH of 5.0 S.U. and a daily maximum pH of 9.0 S.U. The discharge from the facility is not expected to adversely affect the instream pH based on the ratio of low effluent flow to stream flow; therefore, pH limitations from 5.0 to 9.0 S.U. are proposed to continue at DSN001 in this permit issuance based on the effluent guidelines and BPJ. The monitoring frequency for pH is proposed to continue on week days (Monday through Friday).

Biomonitoring Requirements

In the current permit, in order to evaluate whole effluent toxicity, the facility is required to perform 48-hour acute toxicity testing; however, based on the receiving stream classification of Limited Warmwater Fishery and an expected ratio of flow in the receiving stream at low flow conditions to the facility's effluent flow being less than 100:1, chronic toxicity monitoring is more appropriate. A CORMIX model (see Attachment C) was completed by the Department's Water Quality section. Based on this model, the instream waste concentration (IWC) is 3.17% at the mixing zone. In order to be consistent with toxicity monitoring protocols, the IWC is rounded to 4%. Due to the facility's discharge being tidally influenced and being located in a Department defined coastal zone, toxicity testing for saltwater species is appropriate. Annual chronic toxicity testing at 4% effluent is proposed in this permit issuance.

Numeric Reasonable Potential Analysis (RPA)

A numeric RPA (see Attachment B) was performed for DSN001 to determine if the effluent discharge to the receiving stream would cause a potential to violate water quality criteria at the point of discharge. The analytical data used in the analysis is from EPA Form 2C in the facility's application. No parameters included in the analysis showed a reasonable potential to violate water quality standards; therefore, no additional limitations are proposed in this permit issuance.

Critical flows are indeterminate in coastal locations due to tidal effects. In order to input flows into the RPA spreadsheet, estimated critical flows have been calculated using the facility's discharge flow rate and IWC% from the most recent CORMIX model. Since the receiving stream is classified as a Limited Warmwater Fishery, the 7Q2 is more appropriate. The calculations for the flows used in the RPA are shown below:

Facility's Effluent Flow Rate = 17.88 MGD
Instream Waste Concentration (IWC) % = 3.17%

Receiving Stream Flows:

$$\mathbf{7Q10 = 7Q2} = \frac{Effluent\ Flow}{IWC} - Effluent\ Flow = \frac{17.88}{0.0317} - 17.88 = 546.2\ MGD = 845\ cfs$$

$$\mathbf{1Q10} = 7Q2\ x\ 75\% = (845)\ x\ 0.75 = 633.75\ cfs$$

$$\mathbf{Annual\ Average\ Flow} = 7Q2 = 845\ cfs$$

Best Professional Judgment (BPJ):

Flow

Flow monitoring is proposed to continue in this permit issuance as daily totalized readings.

Ammonia (as N), Total Kjeldahl Nitrogen (TKN), Nitrite + Nitrate, and Total Phosphorus

Monitoring only requirements for the above nutrients are proposed to continue in this permit issuance. The monitoring frequency for TKN, Nitrite + Nitrate, and Total Phosphorus is proposed to continue at once per month during the growing season of April through October. Monitoring for Ammonia (as N) is proposed year-round at a once per month frequency. The year-round monitoring for Ammonia is consistent with similar discharges from other permitted facilities.

Stream Monitoring

Stream Monitoring Requirements

Part IV.E. of the permit details in-stream monitoring requirements. Between July 1 and September 30, the facility is required perform monthly stream monitoring at the sample locations identified in Part IV.E. of the permit. The facility is required to monitor for dissolved oxygen, water temperature (ambient and stream), conductivity, and pH. Data from the stream monitoring shall be submitted to the Department no later than 28 days following the month during which the samples were collected. This data should be submitted to the Department in an electronic format.

River Monitoring Certification

In order to show compliance with the submittal of the stream monitoring data, the facility will be required to indicate, through the discharge monitoring report (DMR), that such data was submitted no later than 28 days following the last day of the reporting period as required by Part IV.E. of the permit. The Permittee shall report a "0" for the river monitoring certification parameter on the DMR to indicate compliance with the reporting requirements found in Part IV.E. of the permit.

303(d) List of Impaired Waters

The facility's receiving stream, Chickasaw Creek, is listed on the 303(d) List of Impaired Waters for Metals (Mercury). The source of this impairment is from atmospheric deposition. The facility's discharge is not expected to contain significant amounts of mercury or contribute to this impairment; therefore, monitoring for mercury is not proposed at this time.

Total Maximum Daily Load (TMDL)

The facility's receiving stream, Threemile Creek, has an established TMDL for Organic Enrichment/Dissolved Oxygen (OE/DO) and Pathogens (*Enterococci*). The major sources of each impairment are from collection system failures, municipal infrastructure, urban runoff, and storm sewers. The facility was not identified as a point source which contributes discharges containing oxygen-consuming wastes, and the facility is not expected to contribute to this oxygen impairment in this receiving stream. Additionally, the facility is not expected to contribute to the pathogen impairment, and therefore, there will be no pathogen monitoring requirements.

316(b) Cooling Water Intake Structure Requirements .

The facility purchases its raw water from the Mobile Area Water and Sewer System (MAWSS). MAWSS operates two intake structures. The main intake structure is on Big Creek Lake with a 70 MGD average intake and 200 MGD design intake. The other intake structure is infrequently used and is on the Mobile River with a design intake of 33 MGD. Since the source water is purchased from a private lake that is not used for cooling purposes, 316(b) CWIS requirements are not applicable.

Discharge Information Zone (DIZ) Monitoring Requirements

DIZ monitoring requirements apply at permit renewal and shall be conducted within the same season as the original characterization utilizing the same sampling locations approved in the original DIZ Study Plan. If the biological monitoring shows evidence of biological damage or adverse water quality impacts at the perimeter, or outside the boundaries of the original characterization, the Permittee will be in violation of the permit, unless the Permittee can demonstrate that the cause of the adverse impacts are due to a source other than the Permittee's discharge. The Permittee will be required within 30 days after becoming aware of the violation to submit a plan to correct and eliminate the biological damage and/or adverse water quality impacts caused by the discharge. Results of the DIZ study submitted with this permit application were reviewed by the Department's Coastal Area Management Program. The review concluded that the submitted report appears to meet the requirements of ADEM Admin. Code r. 335-8-2-.12 in addition to the Department's guidelines for monitoring discharge information zones. A memo which includes comments and/or recommendations provided by the Department's Coastal Program regarding the review of the facility's DIZ study was sent to the facility on November 16, 2023.

DSN002 – DSN005, DSN008, & DSN013: Stormwater runoff from non-process areas associated with paper mill operations

DSN007 & DSN012: Non-contact cooling water and stormwater runoff from non-process areas associated with paper mill operations

DSN009 & DSN010: Stormwater runoff from non-process areas associated with inert material storage, trailer parking, and contractor activities

DSN014S – DSN020S: Stormwater runoff from distribution/shipping warehouse roof drains and adjacent areas surrounding the buildings

DSN021: Stormwater runoff from non-process areas associated with temporary inert material storage and additional trailer parking

Best Professional Judgment (BPJ)

The parameters of concern for the stormwater outfalls at this facility are based on the parameters of concern listed in EPA form 2F 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. Monitoring for all parameters at the stormwater outfalls are proposed to continue at a semi-annual frequency.

Flow

Monitoring for flow at all stormwater outfalls will continue as estimated readings. The facility uses the rationale method to determine the amount of stormwater being discharged.

Oil & Grease

The daily maximum limit of 15 mg/l for Oil and Grease should prevent the occurrence of a visible sheen in the stream and has been shown to be achievable through the use of proper BMPs.

Chemical Oxygen Demand (COD), pH, Total Suspended Solids (TSS)

Based on the operations occurring onsite, historical DMR data, and data submitted in the facility's reissuance application, monitoring for COD, pH, and TSS is proposed to continue in this permit issuance. The data collected from the facility's monitoring of these pollutants will be useful in determining the effectiveness of the facility's BMPs in minimizing pollutants concentrations in stormwater runoff.

Ammonia (as N), Nitrites plus Nitrates (as N), Total Phosphorus

Monitoring only requirements for the above nutrients are proposed to continue in this permit issuance at Outfalls DSN014-DSN020. The information gathered from the facility's monitoring of these parameters will be useful in determining the effectiveness of the facility's BMPs. As noted below, Outfall DSN019 is deemed representative of Outfalls DSN014 – DSN018 and DSN020.

DSN007 & DSN012: Non-contact cooling water and stormwater runoff from non-process areas associated with paper mill operations

Outfalls DSN007 and DSN012 both have the potential to discharge non-contact cooling water in addition to their respective stormwater discharges. In addition to the above stormwater monitoring required at these outfalls, monitoring for temperature and total residual chlorine is required when the outfall is discharging in the absence of a qualifying storm event.

Temperature

ADEM Administrative Code, Division 6 Regulations, specifically 335-6-10-.09(6)(a) – Specific Water Quality for Limited Warmwater Fishery classified streams states: "The provisions of the Fish and Wildlife water use classification at rule 335-6-10-.09(5) shall apply to the Limited Warmwater Fishery water use classification, except as noted below. Unless alternative criteria for a given parameter are provided in paragraph (e) below, the applicable Fish and Wildlife criteria at paragraph 10-.09(5)(e) shall apply year-round." Specifically, 335-6-10-.09(5)(e)3(i). states: "The maximum temperature in streams, lakes, and reservoirs shall not exceed 90°F." In the current permit, temperature has a daily maximum limit of 95°F. Based on the historical DMR data submitted by the facility and available dilution in the receiving stream, the daily maximum limit of 95°F should be protective of the water quality in the receiving stream. The daily maximum limit of 95°F is proposed to continue in this permit issuance. Monitoring for temperature at DSN007 and DSN012 is proposed to continue at a monthly frequency when discharging in the absence of a qualifying storm event.

Total Residual Chlorine (TRC)

Chlorine is a parameter of concern at these outfalls due to non-contact cooling water being discharged. The current daily maximum TRC limit of 1.5 lbs/day is based on BPJ and is applied as a cumulative total for both DSN007 and DSN012. This limitation is proposed to continue in this permit issuance. The individual contribution of TRC at each outfall should be reported on each outfall's DMR, respectively. The cumulative total should be reported on the Discharge Monitoring Reports (DMR) for DSN007 under the TRC parameter with the 1.5 lbs/day daily maximum limit. Monitoring for TRC at DSN007 and DSN012 is proposed to continue at a monthly frequency when discharging in the absence of a qualifying storm event.

Outfalls DSN007 and DSN012 discharge to a segment of Chickasaw Creek which is considered to be tidally influenced and thus have assumed zero flow streams; however, to provide support that the TRC limitation is protective of water quality in the receiving stream, the following historical flows for this segment of

Chickasaw Creek will be used in the calculations. Since the receiving stream is classified as Limited Warmwater Fishery, the 7Q2 is used for the application of chronic water quality criteria. EPA aquatic life saltwater acute and chronic TRC criteria values are 0.013 mg/l and 0.0075 mg/l, respectively.

7Q2 = 86.4 cfs = 55.8 MGD
1Q10 = 45.4 cfs = 29.3 MGD

$$\text{Instream Water Quality value} = (TRC\ Saltwater\ Acute\ Value) \times (1Q10) \times (8.34)$$
$$= 0.013\frac{mg}{l} \times 29.3\ MGD \times 8.34 = 3.18\ lbs/day$$

$$\text{Instream Water Quality value} = (TRC\ Saltwater\ Chronic\ Value) \times (7Q2) \times (8.34)$$
$$= 0.0075\frac{mg}{l} \times 55.8\ MGD \times 8.34 = 3.49\ lbs/day$$

Since the 1.5 lbs/day limitation is applied as a daily maximum, the acute instream water quality value will be used.

Available TRC allocation in receiving stream = Instream TRC value - Facility contribution
= 3.18 lbs/day - 1.5 lbs/day = 1.68 lbs/day

Based on the calculations above, the loadings from the facility are not expected to have an adverse impact on the water quality in the receiving stream.

DSN006: Stormwater runoff from warehouse roof drains

There are no limitations or monitoring requirements imposed for this outfall. Stormwater discharging through this outfall is addressed under and included as part of the facility's Best Management Practices Plan.

DSN011: Uncontaminated stormwater from bulk petroleum secondary containment

In the current permit, the facility is required to follow specific requirements for Outfall DSN011 as outlined in Part I.A. of the permit. The facility has requested the removal of DSN011 due to the removal of bulk petroleum in the drainage area of the outfall. The facility has indicated in its application that all petroleum products and wastes have been removed and there are no industrial activities conducted in the area. In a compliance evaluation inspection conducted at the facility on August 4, 2022, the Department noted that all tanks had been removed in the area surrounding this outfall, and there was nothing except for vegetation present in the drainage area of the outfall. It is proposed to remove Outfall DSN011 and all of its monitoring requirements in this permit issuance.

Representative Stormwater Outfalls

Outfall DSN008 is currently deemed representative of Outfall DSN013, and Outfall DSN019 is currently deemed representative of Outfalls DSN014 – DSN018 and DSN020. Outfalls DSN008 and DSN019 represent the worst-case scenarios compared to the stormwater discharges from the other similar outfalls, respectively. Based on the current operations onsite, historical DMR data, and data submitted in the reissuance application, it is proposed that DSN008 remain representative of DSN013 and DSN019 remain representative of DSN014 – DSN018 and DSN020. Stormwater monitoring is not required at Outfalls DSN013 – DSN018 or DSN020.

Best Management Practice (BMP) Plan

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.

ATTACHMENT A

Permit Limits Summary			
Pollutant	*Monthly Average (lbs/day)*	*Daily Maximum (lbs/day)*	*Basis*
2023 Reissuance - Calculated Permit Limitations			
BOD5	11,259	20,565	Production data reported in reissuance application
Total Suspended Solids	11,275	22,658	Production data reported in reissuance application
Pentachlorophenol	-	6.3	Production data reported in reissuance application
Trichlorophenol	-	2.2	Production data reported in reissuance application
Current Permit Limitations			
BOD5	12,788	23,392	2010 production based EGL's
Total Suspended Solids	12,384	24,851	2007 & 2010 production based EGL's
Pentachlorophenol*	-	7.66*	2017 production based EGL's
Trichlorophenol*	-	2.69*	2017 production based EGL's
Proposed Permit Limitations			
BOD5	11,259	20,565	Production data reported in reissuance application
Total Suspended Solids	11,275	22,658	Production data reported in reissuance application
Pentachlorophenol	-	6.3	Production data reported in reissuance application
Trichlorophenol	-	2.2	Production data reported in reissuance application

* Note that the current permit limitations shown above for Pentachlorophenol and Trichlorophenol are the corrected values using 2017 production. Please refer to the permit rationale for further clarification.

DSN001: Cluster Rule Calculations - 2023 Application

40 CFR 430 - The Pulp, Paper, and Paperboard Point Source Category

Subpart J - Secondary Fiber Non-Deink Subcategory
40 CFR Part 430.105 - New Source Performance Standards (NSPS)

Tissue/Towel from Waste (Recycled Fiber) Production	500,967	lbs/day
Tissue/Towel from Waste (Old Corrugated Container) Production	186,233	lbs/day
Total Subpart J Production	687,200	lbs/day
	343.6	tons/day

40 CFR 430.105 - NSPS for secondary fiber non-deink facilities where tissue from wastepaper is produced without deinking

Pollutant	Continuous Discharges		Cluster Limitations	
	Daily Maximum (lbs/1000 lbs product)	*Monthly Average (lbs/1000 lbs product)*	*Daily Maximum (lbs/day)*	*Monthly Average (lbs/day)*
BOD_5	4.6	2.5	3161	1718
TSS	10.2	5.3	7009	3642
pH	Within the range of 5.0 to 9.0 at all times			
Pentachlorophenol*	0.0030	-	2.06	-
Trichlorophenol*	0.0011	-	0.76	-

*These limitations do not apply if the facility submits a certification of non-use at the frequency indicated in Part I.A of the permit

Subpart L - Tissue, Filter, Non-Woven, and Paperboard From Purchased Pulp Subcategory
40 CFR Part 430.122 -Best Practicable Control Technology Currently Available (BPT) = Best Conventional Pollutant Control Technology (BCT)

Non-Integrated Tissue Production	1,526,703	lbs/day
	763.4	tons/day

40 CFR 430.122 - BPT effluent limitations for non-integrated mills where tissue papers are produced from purchased pulp

Pollutant	Continuous Discharges		Cluster Limitations	
	Daily Maximum (lbs/1000 lbs product)	*Monthly Average (lbs/1000 lbs product)*	*Daily Maximum (lbs/day)*	*Monthly Average (lbs/day)*
BOD_5	11.4	6.25	17404	9542
TSS	10.25	5.0	15649	7634
pH	Within the range of 5.0 to 9.0 at all times			
40 CFR 430.124 - BAT effluent limitations for non-integrated mills where tissue papers are produced from purchased pulp				
Pentachlorophenol*	0.0028	-	4.27	-
Trichlorophenol*	0.00096	-	1.47	-

*These limitations do not apply if the facility submits a certification of non-use at the frequency indicated in Part I.A of the permit

Total Effluent Guidelines

Pollutant	Cluster Limitations	
	Daily Maximum (lbs/day)	*Monthly Average (lbs/day)*
BOD_5	20565.5	11259.9
TSS	22658.1	11275.7
pH	Within the range of 5.0 to 9.0 at all times	
Pentachlorophenol*	6.34	-
Trichlorophenol*	2.22	-

*These limitations do not apply if the facility submits a certification of non-use at the frequency indicated in Part I.A of the permit

ATTACHMENT B

Facility Name: **Kimberly-Clark Corp**

NPDES No.: **AL0002801**

$Q_d * C_d + Q_{d2} * C_{d2} + Q_s * C_s = Q_r * C_r$

ID	Pollutant	Carcinogen "yes"	Type	Background from upstream source (C_{d2}) Daily Max	Background from upstream source (C_{d2}) Monthly Ave	Background Instream (C_s) Daily Max	Background Instream (C_s) Monthly Ave	Enter Max Daily Discharge as reported by Applicant (C_d) Max	Enter Avg Daily Discharge as reported by Applicant (C_d) Ave	Partition Coefficient (Stream / Lake)
				ug/l	ug/l	ug/l	ug/l	ug/l	ug/l	
1	Antimony		Metals	0	0	0	0	0	0	-
2	**Arsenic*,****	YES	Metals	0	0	0	0	0	0	0.574
3	Beryllium		Metals	0	0	0	0	0	0	-
4	Cadmium**		Metals	0	0	0	0	0	0	0.236
5	Chromium / Chromium III**		Metals	0	0	0	0	0	0	0.210
6	Chromium / Chromium VI**		Metals	0	0	0	0	0		
7	Copper**		Metals	0	0	0	0	0	0	0.388
8	Lead**		Metals	0	0	0	0	0	0	0.206
9	Mercury**		Metals	0	0	0	0	0	0	0.302
10	Nickel**		Metals	0	0	0	0	0	0	0.505
11	Selenium		Metals	0	0	0	0	0	0	-
12	Silver		Metals	0	0	0	0	0	0	-
13	Thallium		Metals	0	0	0	0	0	0	-
14	Zinc**		Metals	0	0	0	0	0	0	0.330
15	Cyanide		Metals	0	0	0	0	0	0	-
16	Total Phenolic Compounds		Metals	0	0	0	0	0	0	-
17	Hardness (As CaCO3)		Metals	0	0	0	0	0	0	-
18	Acrolein		VOC	0	0	0	0	0	0	-
19	**Acrylonitrile***	YES	VOC	0	0	0	0	0	0	-
20	**Aldrin**	YES	VOC	0	0	0	0	0	0	-
21	**Benzene***	YES	VOC	0	0	0	0	0	0	-
22	**Bromoform***	YES	VOC	0	0	0	0	0	0	-
23	**Carbon Tetrachloride***	YES	VOC	0	0	0	0	0	0	-
24	**Chlordane**	YES	VOC	0	0	0	0	0	0	-
25	Clorobenzene		VOC	0	0	0	0	0	0	-
26	**Chlorodibromo-Methane***	YES	VOC	0	0	0	0	0	0	-
27	Chloroethane		VOC	0	0	0	0	0	0	-
28	2-Chloro-Ethylvinyl Ether		VOC	0	0	0	0	0	0	-
29	**ChloroForm***	YES	VOC	0	0	0	0	0	0	-
30	**4,4'-DDD**	YES	VOC	0	0	0	0	0	0	-
31	**4,4'-DDE**	YES	VOC	0	0	0	0	0	0	-
32	**4,4'-DDT**	YES	VOC	0	0	0	0	0	0	-
33	**Dichlorobromo-Methane***	YES	VOC	0	0	0	0	0	0	-
34	1, 1-Dichloroethane		VOC	0	0	0	0	0	0	-
35	**1, 2-Dichloroethane***	YES	VOC	0	0	0	0	0	0	-
36	Trans-1, 2-Dichloro-Ethylene		VOC	0	0	0	0	0	0	-
37	**1, 1-Dichloroethylene***	YES	VOC	0	0	0	0	0	0	-
38	1, 2-Dichloropropane		VOC	0	0	0	0	0	0	-
39	1, 3-Dichloro-Propylene		VOC	0	0	0	0	0	0	-
40	**Dieldrin**	YES	VOC	0	0	0	0	0	0	-
41	Ethylbenzene		VOC	0	0	0	0	0	0	-
42	Methyl Bromide		VOC	0	0	0	0	0	0	-
43	Methyl Chloride		VOC	0	0	0	0	0	0	-
44	**Methylene Chloride***	YES	VOC	0	0	0	0	0	0	-
45	**1, 1, 2, 2-Tetrachloro-Ethane***	YES	VOC	0	0	0	0	0	0	-
46	**Tetrachloro-Ethylene***	YES	VOC	0	0	0	0	0	0	-
47	Toluene		VOC	0	0	0	0	0	0	-
48	**Toxaphene**	YES	VOC	0	0	0	0	0	0	-
49	**Tributyltine (TBT)**	YES	VOC	0	0	0	0	0	0	-
50	1, 1, 1-Trichloroethane		VOC	0	0	0	0	0	0	-
51	**1, 1, 2-Trichloroethane***	YES	VOC	0	0	0	0	0	0	-
52	**Trichlorethylene***	YES	VOC	0	0	0	0	0	0	-
53	**Vinyl Chloride***	YES	VOC	0	0	0	0	0	0	-
54	P-Chloro-M-Cresol		Acids	0	0	0	0	0	0	-
55	2-Chlorophenol		Acids	0	0	0	0	0	0	-
56	2, 4-Dichlorophenol		Acids	0	0	0	0	0	0	-
57	2, 4-Dimethylphenol		Acids	0	0	0	0	0	0	-
58	4, 6-Dinitro-O-Cresol		Acids	0	0	0	0	0	0	-
59	2, 4-Dinitrophenol		Acids	0	0	0	0	0	0	-
60	**4,6-Dintro-2-methylophenol**	YES	Acids	0	0	0	0	0	0	-
61	**Dioxin (2,3,7,8-TCDD)**	YES	Acids	0	0	0	0	0	0	-
62	2-Nitrophenol		Acids	0	0	0	0	0	0	-
63	4-Nitrophenol		Acids	0	0	0	0	0	0	-
64	**Pentachlorophenol***	YES	Acids	0	0	0	0	0	0	-
65	Phenol		Acids	0	0	0	0	0	0	-
66	**2, 4, 6-Trichlorophenol***	YES	Acids	0	0	0	0	0	0	-
67	Acenaphthene		Bases	0	0	0	0	0	0	-
68	Acenaphthylene		Bases	0	0	0	0	0	0	-
69	Anthracene		Bases	0	0	0	0	0	0	-
70	Benzidine		Bases	0	0	0	0	0	0	-
71	**Benzo(A)Anthracene***	YES	Bases	0	0	0	0	0	0	-
72	**Benzo(A)Pyrene***	YES	Bases	0	0	0	0	0	0	-
73	3, 4 Benzo-Fluoranthene		Bases	0	0	0	0	0	0	-
74	Benzo(GHI)Perylene		Bases	0	0	0	0	0	0	-
75	Benzo(K)Fluoranthene		Bases	0	0	0	0	0	0	-
76	Bis (2-Chloroethoxy) Methane		Bases	0	0	0	0	0	0	-
77	**Bis (2-Chloroethyl)-Ether***	YES	Bases	0	0	0	0	0	0	-
78	Bis (2-Chloroiso-Propyl) Ether		Bases	0	0	0	0	0	0	-
79	**Bis (2-Ethylhexyl) Phthalate***	YES	Bases	0	0	0	0	0	0	-
80	4-Bromophenyl Phenyl Ether		Bases	0	0	0	0	0	0	-
81	Butyl Benzyl Phthalate		Bases	0	0	0	0	0	0	-
82	2-Chloronaphthalene		Bases	0	0	0	0	0	0	-
83	4-Chlorophenyl Phenyl Ether		Bases	0	0	0	0	0	0	-
84	**Chrysene***	YES	Bases	0	0	0	0	0	0	-
85	Di-N-Butyl Phthalate		Bases	0	0	0	0	0	0	-
86	Di-N-Octyl Phthalate		Bases	0	0	0	0	0	0	-
87	**Dibenzo(A,H)Anthracene***	YES	Bases	0	0	0	0	0	0	-
88	1, 2-Dichlorobenzene		Bases	0	0	0	0	0	0	-
89	1, 3-Dichlorobenzene		Bases	0	0	0	0	0	0	-
90	1, 4-Dichlorobenzene		Bases	0	0	0	0	0	0	-
91	**3, 3-Dichlorobenzidine***	YES	Bases	0	0	0	0	0	0	-
92	Diethyl Phthalate		Bases	0	0	0	0	0	0	-
93	Dimethyl Phthalate		Bases	0	0	0	0	0	0	-
94	**2, 4-Dinitrotoluene***	YES	Bases	0	0	0	0	0	0	-
95	2, 6-Dinitrotoluene		Bases	0	0	0	0	0	0	-
96	1,2-Diphenylhydrazine		Bases	0	0	0	0	0	0	-
97	**Endosulfan (alpha)**	YES	Bases	0	0	0	0	0	0	-
98	**Endosulfan (beta)**	YES	Bases	0	0	0	0	0	0	-
99	**Endosulfan sulfate**	YES	Bases	0	0	0	0	0	0	-
100	**Endrin**	YES	Bases	0	0	0	0	0	0	-
101	**Endrin Aldeyhide**	YES	Bases	0	0	0	0	0	0	-
102	Fluoranthene		Bases	0	0	0	0	0	0	-
103	Fluorene		Bases	0	0	0	0	0	0	-
104	Heptochlor	YES	Bases	0	0	0	0	0	0	-
105	Heptachlor Epoxide	YES	Bases	0	0	0	0	0	0	-
106	**Hexachlorobenzene***	YES	Bases	0	0	0	0	0	0	-
107	**Hexachlorobutadiene***	YES	Bases	0	0	0	0	0	0	-
108	**Hexachlorocyclohexan (alpa)**	YES	Bases	0	0	0	0	0	0	-
109	**Hexachlorocyclohexan (beta)**	YES	Bases	0	0	0	0	0	0	-
110	**Hexachlorocyclohexan (gamma)**	YES	Bases	0	0	0	0	0	0	-
111	HexachlorocycloPentadiene		Bases	0	0	0	0	0	0	-
112	Hexachloroethane		Bases	0	0	0	0	0	0	-
113	**Indeno(1, 2, 3-CK)Pyrene***	YES	Bases	0	0	0	0	0	0	-
114	Isophorone		Bases	0	0	0	0	0	0	-
115	Naphthalene		Bases	0	0	0	0	0	0	-
116	Nitrobenzene		Bases	0	0	0	0	0	0	-
117	**N-Nitrosodi-N-Propylamine***	YES	Bases	0	0	0	0	0	0	-
118	**N-Nitrosodi-N-Methylamine***	YES	Bases	0	0	0	0	0	0	-
119	**N-Nitrosodi-N-Phenylamine***	YES	Bases	0	0	0	0	0	0	-
120	**PCB-1016**	YES	Bases	0	0	0	0	0	0	-
121	**PCB-1221**	YES	Bases	0	0	0	0	0	0	-
122	**PCB-1232**	YES	Bases	0	0	0	0	0	0	-
123	**PCB-1242**	YES	Bases	0	0	0	0	0	0	-
124	**PCB-1248**	YES	Bases	0	0	0	0	0	0	-
125	**PCB-1254**	YES	Bases	0	0	0	0	0	0	-
126	**PCB-1260**	YES	Bases	0	0	0	0	0	0	-
127	Phenanthrene		Bases	0	0	0	0	0	0	-
128	Pyrene		Bases	0	0	0	0	0	0	-
129	1, 2, 4-Trichlorobenzene		Bases	0	0	0	0	0	0	-

17.88	Enter Q_d = wastewater discharge flow from facility (MGD)
27.6644545	Q_d = wastewater discharge flow (cfs) (this value is calculated 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)
845	Enter 7Q10, Q_s = background stream flow in cfs above point of discharge
634	Enter or estimated, 1Q10, Q_s = background stream flow in cfs above point of discharge (1Q10 estimated at 75% of 7Q10)
845	Enter Mean Annual Flow, Q_s = background stream flow in cfs above point of discharge
634.00	Enter 7Q2. Q_s = background stream flow in cfs above point of discharge (For LWF class streams)
Enter to Left	Enter C_s = background in-stream pollutant concentration in µg/l (assuming this is zero "0" unless there is data)
Q_d +Qd2+Q_s	Q_r = resultant in-stream flow, after discharge
Calculated on other	C_r = 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

November 27, 2023

Facility Name: Kimberly-Clark Corp

NPDES No.: AL0002801

	Marine LWF classification				Max Daily Discharge as reported by Applicant (C_{max})	Marine Acute (µg/l) 7Q10 for LWF				Background from upstream source (Cd2) Monthly Ave	Avg Daily Discharge as reported by Applicant (C_{avg})	Marine Chronic (µg/l) 7Q2 for LWF				Human Health Consumption Fish only (µg/l) Carcinogen Q_s = Annual Average Non-Carcinogen Q_s = 7Q10			
ID	Pollutant	RP?	Carcinogen yes	Background from upstream source (Cd2) Daily Max		Water Quality Criteria (C_s)	Draft Permit Limit (C_{max})	20% of Draft Permit Limit	RP?			Water Quality Criteria (C_s)	Draft Permit Limit (C_{avg})	20% of Draft Permit Limit	RP?	Water Quality Criteria (C_s)	Draft Permit Limit (C_{avg})	20% of Draft Permit Limit	RP?
1	Antimony			0	0	-	-	-	-	0	0	-	-	-	-	3.73E+02	3.73E+02	7.47E+01	No
2	Arsenic		YES	0	0	69	2178.578	435.315631	No	0	0	36	861.030	172.205964	No	3.03E-01	9.56E+00	1.91E+00	No
3	Beryllium			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
4	Cadmium			0	0	40	1261.784	252.356867	No	0	0	8.8	210.474	42.0947913	No	-	-	-	-
5	Chromium/ Chromium III			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
6	Chromium/ Chromium VI			0	0	1100	34698.072	6939.81441	No	0	0	50	1195.875	239.174951	No	-	-	-	-
7	Copper			0	0	4.8	151.414	30.2828265	No	0	0	3.1	74.144	14.8288469	No	-	-	-	-
8	Lead			0	0	210	6624.368	1324.87366	No	0	0	8.1	193.732	38.746342	No	-	-	-	-
9	Mercury			0	0	2.1	66.244	13.2487366	No	0	0	0.025	0.598	0.11958748	No	4.24E-02	4.24E-02	8.48E-03	No
10	Nickel			0	0	74	2334.301	466.860242	No	0	0	8.2	196.123	39.2246919	No	9.93E+02	9.93E+02	1.99E+02	No
11	Selenium			0	0	290	9147.937	1829.58743	No	0	0	71	1698.142	339.62843	No	2.43E+03	2.43E+03	4.86E+02	No
12	Silver			0	0	1.9	59.935	11.9869522	No	0	0	-	-	-	-	-	-	-	-
13	Thallium			0	0	-	-	-	-	0	0	-	-	-	-	2.74E-01	2.74E-01	5.47E-02	No
14	Zinc			0	0	90	2839.015	567.802997	No	0	0	81	1937.317	387.46342	No	1.49E+04	1.49E+04	2.98E+03	No
15	Cyanide			0	0	1.0	31.545	6.30892219	No	0	0	1.0	23.917	4.7834901	No	9.33E+03	9.33E+03	1.87E+03	No
16	Total Phenolic Compounds			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
17	Hardness (As CaCO3)			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
18	Acrolein			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
19	Acrylonitrile		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.44E-01	4.54E+00	9.09E-01	No
20	Aldrin		YES	0	0	-	-	-	-	0	0	-	-	-	-	2.94E-05	9.27E-04	1.85E-04	No
21	Benzene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.55E+01	4.88E+02	9.76E+01	No
22	Bromoform		YES	0	0	-	-	-	-	0	0	-	-	-	-	7.88E+01	2.48E+03	4.97E+02	No
23	Carbon Tetrachloride		YES	0	0	-	-	-	-	0	0	-	-	-	-	9.57E-01	3.02E+01	6.04E+00	No
24	Chlordane		YES	0	0	0.09	2.839	0.567803	No	0	0	0.004	0.095	0.019134	No	4.73E-04	1.49E-02	2.98E-03	No
25	Clorobenzene			0	0	-	-	-	-	0	0	-	-	-	-	9.06E+02	9.06E+02	1.81E+02	No
26	Chlorodibromo-Methane		YES	0	0	-	-	-	-	0	0	-	-	-	-	7.41E+00	2.34E+02	4.67E+01	No
27	Chloroethane			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
28	2-Chloro-Ethylvinyl Ether			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
29	ChloroForm		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.02E+02	3.22E+03	6.44E+02	No
30	4,4 - DDD		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.81E-04	5.72E-03	1.14E-03	No
31	4,4 - DDE		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.28E-04	4.04E-03	8.08E-04	No
32	4,4 - DDT		YES	0	0	0.13	4.101	0.82015988	No	0	0	0.001	0.024	0.0047835	No	1.28E-04	4.04E-03	8.08E-04	No
33	Dichlorobromo-Methane		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.00E+01	3.17E+02	6.33E+01	No
34	1, 1-Dichloroethane			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
35	1, 2-Dichloroethane		YES	0	0	-	-	-	-	0	0	-	-	-	-	2.14E+01	6.74E+02	1.35E+02	No
36	Trans-1, 2-Dichloro-Ethylene			0	0	-	-	-	-	0	0	-	-	-	-	5.91E+03	5.91E+03	1.18E+03	No
37	1, 1-Dichloroethylene		YES	0	0	-	-	-	-	0	0	-	-	-	-	4.17E+03	1.31E+05	2.63E+04	No
38	1, 2-Dichloropropane			0	0	-	-	-	-	0	0	-	-	-	-	8.49E+00	8.49E+00	1.70E+00	No
39	1, 3-Dichloro-Propylene			0	0	-	-	-	-	0	0	-	-	-	-	1.23E+01	1.23E+01	2.46E+00	No
40	Dieldrin		YES	0	0	0.71	22.397	4.47933475	No	0	0	0.0019	0.045	0.00908865	No	3.12E-05	9.85E-04	1.97E-04	No
41	Ethylbenzene			0	0	-	-	-	-	0	0	-	-	-	-	1.24E+03	1.24E+03	2.49E+02	No
42	Methyl Bromide			0	0	-	-	-	-	0	0	-	-	-	-	8.71E+02	8.71E+02	1.74E+02	No
43	Methyl Chloride			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
44	Methylene Chloride		YES	0	0	-	-	-	-	0	0	-	-	-	-	3.46E+02	1.09E+04	2.18E+03	No
45	1, 1, 2, 2-Tetrachloro-Ethane		YES	0	0	-	-	-	-	0	0	-	-	-	-	2.33E+00	7.36E+01	1.47E+01	No
46	Tetrachloro-Ethylene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.92E+00	6.06E+01	1.21E+01	No
47	Toluene			0	0	-	-	-	-	0	0	-	-	-	-	8.72E+03	8.72E+03	1.74E+03	No
48	Toxaphene		YES	0	0	0.21	6.624	1.32487366	No	0	0	0.0002	0.005	0.0009567	No	1.62E-04	5.11E-03	1.02E-03	No
49	Tributyltin (TBT)		YES	0	0	0.42	13.249	2.64974732	No	0	0	0.0074	0.177	0.03539789	No	-	-	-	-
50	1, 1, 1-Trichloroethane			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
51	1, 1, 2-Trichloroethane		YES	0	0	-	-	-	-	0	0	-	-	-	-	9.10E+00	2.87E+02	5.74E+01	No
52	Trichloroethylene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.75E+01	5.51E+02	1.10E+02	No
53	Vinyl Chloride		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.42E+00	4.49E+01	8.99E+00	No
54	P-Chloro-M-Cresol			0	0	13	410.080	82.0159684	No	0	0	7.9	188.948	37.7896422	No	-	-	-	-
55	2-Chlorophenol			0	0	-	-	-	-	0	0	-	-	-	-	8.71E+01	8.71E+01	1.74E+01	No
56	2, 4-Dichlorophenol			0	0	-	-	-	-	0	0	-	-	-	-	1.72E+02	1.72E+02	3.44E+01	No
57	2, 4-Dimethylphenol			0	0	-	-	-	-	0	0	-	-	-	-	4.98E+02	4.98E+02	9.95E+01	No
58	4, 6-Dinitro-O-Cresol			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
59	2, 4-Dinitrophenol			0	0	-	-	-	-	0	0	-	-	-	-	3.11E+03	3.11E+03	6.22E+02	No
60	4,6-Dinitro-2-methylphenol		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.65E+02	5.22E+03	1.04E+03	No
61	Dioxin (2,3,7,8-TCDD)		YES	0	0	-	-	-	-	0	0	-	-	-	-	2.67E-05	8.41E-07	1.68E-07	No
62	2-Nitrophenol			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
63	4-Nitrophenol			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
64	Pentachlorophenol		YES	0	0	13	410.080	82.0159684	No	0	0	7.9	188.948	37.7896422	No	1.77E+00	5.58E+01	1.12E+01	No
65	Phenol			0	0	-	-	-	-	0	0	-	-	-	-	5.00E+05	5.00E+05	1.00E+05	No
66	2, 4, 6-Trichlorophenol		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.41E+00	4.46E+01	8.92E+00	No
67	Acenaphthene			0	0	-	-	-	-	0	0	-	-	-	-	5.79E+02	5.79E+02	1.16E+02	No
68	Acenaphthylene			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
69	Anthracene			0	0	-	-	-	-	0	0	-	-	-	-	2.33E+04	2.33E+04	4.67E+03	No
70	Benzidine			0	0	-	-	-	-	0	0	-	-	-	-	1.16E-04	1.16E-04	2.32E-05	No
71	Benzo(A)Anthracene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.07E-02	3.38E-01	6.72E-02	No
72	Benzo(A)Pyrene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.07E-02	3.38E-01	6.72E-02	No
73	Benzo(b)fluoranthene			0	0	-	-	-	-	0	0	-	-	-	-	1.07E-02	1.07E-02	2.13E-03	No
74	Benzo(GHI)Perylene			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
75	Benzo(K)Fluoranthene			0	0	-	-	-	-	0	0	-	-	-	-	1.07E-02	1.07E-02	2.13E-03	No
76	Bis (2-Chloroethoxy) Methane			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
77	Bis (2-Chloroethyl)-Ether		YES	0	0	-	-	-	-	0	0	-	-	-	-	3.07E-01	9.70E+00	1.94E+00	No
78	Bis (2-Chloroiso-Propyl) Ether			0	0	-	-	-	-	0	0	-	-	-	-	3.78E+04	3.78E+04	7.56E+03	No
79	Bis (2-Ethylhexyl) Phthalate		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.28E+00	4.04E+01	8.08E+00	No
80	4-Bromophenyl Phenyl Ether			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
81	Butyl Benzyl Phthalate			0	0	-	-	-	-	0	0	-	-	-	-	1.13E+03	1.13E+03	2.25E+02	No
82	2-Chloronaphthalene			0	0	-	-	-	-	0	0	-	-	-	-	9.24E+02	9.24E+02	1.85E+02	No
83	4-Chlorophenyl Phenyl Ether			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
84	Chrysene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.07E-02	3.38E-01	6.72E-02	No
85	Di-N-Butyl Phthalate			0	0	-	-	-	-	0	0	-	-	-	-	2.62E+03	2.62E+03	5.24E+02	No
86	Di-N-Octyl Phthalate			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
87	Dibenzo(A,H)Anthracene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.07E-02	3.38E-01	6.72E-02	No
88	1, 2-Dichlorobenzene			0	0	-	-	-	-	0	0	-	-	-	-	7.55E+02	7.55E+02	1.51E+02	No
89	1, 3-Dichlorobenzene			0	0	-	-	-	-	0	0	-	-	-	-	5.62E+02	5.62E+02	1.12E+02	No
90	1, 4-Dichlorobenzene			0	0	-	-	-	-	0	0	-	-	-	-	1.12E+02	1.12E+02	2.25E+01	No
91	3, 3-Dichlorobenzidine		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.66E-02	5.24E-01	1.05E-01	No
92	Diethyl Phthalate			0	0	-	-	-	-	0	0	-	-	-	-	2.56E+04	2.56E+04	5.11E+03	No
93	Dimethyl Phthalate			0	0	-	-	-	-	0	0	-	-	-	-	6.48E+05	6.48E+05	1.30E+05	No
94	2, 4-Dinitrotoluene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.98E+00	6.25E+01	1.25E+01	No
95	2, 6-Dinitrotoluene			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
96	1,2-Diphenylhydrazine			0	0	-	-	-	-	0	0	-	-	-	-	1.17E-01	1.17E-01	2.34E-02	No
97	Endosulfan (alpha)		YES	0	0	0.034	1.073	0.21450335	No	0	0	0.0087	0.208	0.04161644	No	5.19E+01	1.64E+03	3.27E+02	No
98	Endosulfan (beta)		YES	0	0	0.034	1.073	0.21450335	No	0	0	0.0087	0.208	0.04161644	No	5.19E+01	1.64E+03	3.27E+02	No
99	Endosulfan sulfate		YES	0	0	-	-	-	-	0	0	-	-	-	-	5.19E+01	1.64E+03	3.27E+02	No
100	Endrin		YES	0	0	0.037	1.167	0.23343012	No	0	0	0.0023	0.055	0.01100205	No	3.53E-02	1.11E+00	2.22E-01	No
101	Endrin Aldeyhde		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.76E-01	5.56E+00	1.11E+00	No
102	Fluoranthene			0	0	-	-	-	-	0	0	-	-	-	-	8.12E+01	8.12E+01	1.62E+01	No
103	Fluorene			0	0	-	-	-	-	0	0	-	-	-	-	3.11E+03	3.11E+03	6.22E+02	No
104	Heptachlor		YES	0	0	0.053	1.672	0.33437288	No	0	0	0.0036	0.086	0.0172206	No	4.63E-05	1.46E-03	2.92E-04	No
105	Heptachlor Epoxide		YES	0	0	0.053	1.672	0.33437288	No	0	0	0.0036	0.086	0.0172206	No	2.28E-05	7.22E-04	1.44E-04	No
106	Hexachlorobenzene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.68E-04	5.29E-03	1.06E-03	No
107	Hexachlorobutadiene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.08E+01	3.39E+02	6.79E+01	No
108	Hexachlorocyclohexan (alpha)		YES	0	0	-	-	-	-	0	0	-	-	-	-	2.85E-03	8.99E-02	1.80E-02	No
109	Hexachlorocyclohexan (beta)		YES	0	0	-	-	-	-	0	0	-	-	-	-	9.97E-03	3.15E-01	6.29E-02	No
110	(gamma)		YES	0	0	0.16	5.047	1.00942755	No	0	0	-	-	-	-	1.08E+00	3.40E+01	6.79E+00	No
111	HexachlorocycloPentadiene			0	0	-	-	-	-	0	0	-	-	-	-	6.45E+02	6.45E+02	1.29E+02	No
112	Hexachloroethane			0	0	-	-	-	-	0	0	-	-	-	-	1.92E+00	1.92E+00	3.64E-01	No
113	Indeno(1, 2, 3-CK)Pyrene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.07E-02	3.38E-01	6.72E-02	No
114	Isophorone			0	0	-	-	-	-	0	0	-	-	-	-	5.61E+02	5.61E+02	1.12E+02	No
115	Naphthalene			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
116	Nitrobenzene			0	0	-	-	-	-	0	0	-	-	-	-	4.04E+02	4.04E+02	8.07E+01	No
117	N-Nitrosodi-N-Propylamine		YES	0	0	-	-	-	-	0	0	-	-	-	-	2.95E-01	9.31E+00	1.86E+00	No
118	N-Nitrosodimethylamine		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.76E+00	5.56E+01	1.11E+01	No
119	N-Nitrosodiphenylamine		YES	0	0	-	-	-	-	0	0	-	-	-	-	3.50E+00	1.10E+02	2.21E+01	No
120	PCB-1016		YES	0	0	-	-	-	-	0	0	0.03	0.718	0.14350497	No	3.74E-05	1.18E-03	2.36E-04	No
121	PCB-1221		YES	0	0	-	-	-	-	0	0	0.03	0.718	0.14350497	No	3.74E-05	1.18E-03	2.36E-04	No
122	PCB-1232		YES	0	0	-	-	-	-	0	0	0.03	0.718	0.14350497	No	3.74E-05	1.18E-03	2.36E-04	No
123	PCB-1242		YES	0	0	-	-	-	-	0	0	0.03	0.718	0.14350497	No	3.74E-05	1.18E-03	2.36E-04	No
124	PCB-1248		YES	0	0	-	-	-	-	0	0	0.03	0.718	0.14350497	No	3.74E-05	1.18E-03	2.36E-04	No
125	PCB-1254		YES	0	0	-	-	-	-	0	0	0.03	0.718	0.14350497	No	3.74E-05	1.18E-03	2.36E-04	No
126	PCB-1260		YES	0	0	-	-	-	-	0	0	0.03	0.718	0.14350497	No	3.74E-05	1.18E-03	2.36E-04	No
127	Phenanthrene			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
128	Pyrene			0	0	-	-	-	-	0	0	-	-	-	-	2.33E+03	2.33E+03	4.67E+02	No
129	1, 2, 4-Trichlorobenzene			0	0	-	-	-	-	0	0	-	-	-	-	4.09E+01	4.09E+01	8.19E+00	No

ATTACHMENT C

Mixing Zone Analysis Summary

REQUEST INFORMATION

request number: 3911

From: (Responsible Engineer) Scott Jackson — In Branch/Section: Industrial

Date Submitted: 10/11/2022 — **Date Required:** 11/10/2022 — **FUND Code:** 210

Date Permit application received by NPDES program: 10/5/2022

Receiving: Mobile River

Previous Stream:

Facility: Kimberly Clark Corp (Name of Discharger-WQ will use to file)

Scott Paper — **Previous Discharger Name**

River Basin: obile River - Mobile Ba — **Outfall Latitude:** 30.746894 (decimal degrees)

County: Mobile — **Outfall Longitude:** -88.040669 (decimal degrees)

Permit Number: AL0002801 — **Permit Type:** Permit Reissuance

Permit Status: Active

Type of Discharger: INDUSTRIAL

Do other discharges exist that may impact the model? ☐ Yes ☑ No

If yes, impacting dischargers names.	Impacting dischargers permit numbers.

Existing Discharge Design Flow	17.88	MGD
Proposed Discharge Design Flow	17.88	MGD

Note: The flow rates given should be those requested for modeling.

Seasonal limits requested? ☐ Yes ☑ No — **If not seasonal, only the summer sections will be used**

Comments included ☐ Yes ☑ No

Information Verified By:

Year File Was Started: 1993

12 Digit HUC Code: 031602040403

Date of MZ Response: 5/1/2023

Use Classification: LWF

Site Visit Completed? ☐ Yes ☑ No — **Date of Site Visit:**

Hydrology			Method Used to Calculate
Drainage Area		sq mi	
Stream 7Q10		cfs	Coastal Location
Stream 1Q10		cfs	Coastal Location
Stream 7Q2		cfs	Coastal Location
Annual Average		cfs	Coastal Location

Date of MZ Analysis: 3/27/2023 — **Model Completed:** JBR

Pollutant Category

Whole Effluent Toxicity (WET) ☑ — **Thermal** ☐ — **Pathogens** ☐

Mixing Zone Analysis Summary

WET Parameters

Summer

Acute

Ambient Streamflow		cfs
ZID Length		Meters
ZID IWC		%

Chronic

Ambient Streamflow		cfs
Mixing Zone Length	121.92	Meters
Mixing Zone IWC	3.2	%

Winter

Acute

Ambient Streamflow		cfs
ZID Length		Meters
ZID IWC		%

Chronic

Ambient Streamflow		cfs
Mixing Zone Length	121.92	Meters
Mixing Zone IWC		%

Thermal Parameters

Summer

Ambient Streamflow		cfs
Mixing Zone Length		Meters
Max. Effluent Temp		°C

Winter

Ambient Streamflow		cfs
Mixing Zone Length		Meters
Max. Effluent Temp		°C

Pathogen Parameters

Summer

Ambient Streamflow		cfs
ZID Length		Meters
Max. Effluent Fecal Conc		Cols/100 mls
Max. Effluent E. coli Conc		Cols/100 mls
Monthly Average Effluent E. coli Conc		Cols/100 mls
Max. Effluent Enterococci Conc (for coastal waters)		Cols/100 mls

Winter

Ambient Streamflow		cfs
ZID Length		Meters
Max. Effluent Fecal Conc		Cols/100 mls
Max. Effluent E. coli Conc		Cols/100 mls
Monthly Average Effluent E. coli Conc		Cols/100 mls
Max. Effluent Enterococci Conc (for coastal waters)		Cols/100 mls

Comments and/or Notations

Kimberly Clark
AL0002801

MZ Rationale for Kimberly Clark Corp to Mobile River

April 28, 2023

Receiving Waterbody: Mobile River
Basin: Mobile
Date Completed 5/1/23
Performed by: JBR, Water Quality

Kimberly Clark
AL0002801

Kimberly Clark to Mobile River

I. Introduction

Scott Jackson of the Industrial Section placed a MZ request with Water Quality on 10/11/2022 for Kimberly Clark Corp. The long-term average flow for this facility is currently 17.88 MGD. The receiving waterbody is Mobile River. This portion of Mobile River is classified as Limited Warmwater Fishery and is a coastal water of the State of Alabama. An updated CORMIX model was performed to provide an appropriate instream dilution for this facility.

II. Low Flow Estimates

Since the Mobile River at the discharge location is considered a coastal waterbody, low-flow estimates that are commonly used for modeling applications are not applicable. Therefore, as is the case with other estuarine environments, there are no low-flow estimates available for this location.

III. Current Permit Limits

Currently, the facility's permit has an Instream Waste Concentration (IWC) of 4% that is used for acute toxicity testing.

IV. IWC Determination

The Kimberly Clark outfall is a submerged multiport diffuser located 58.92 meters from the shore. It is 30.4 meters long and is set at a 15 degree angle with the shore upstream. The diffuser consists of five ports and is angled slightly outward due to the slope of the river.

Mobile River velocities were measured by the United States Army Corps of Engineers (USACE) in 2016 and 2017. The two closest stations to this facility are the ones marked SMR and SD on the map below. These stand for South Mobile River and State Docks, respectively. The station SMR was chosen to be more representative of the characteristics at the discharge point due to the nature of the Mobile ship channel, which is a dredged manmade channel. The dredged area is significantly wider and deeper below the discharge point than it is at the discharge point, which would result in a significantly lower velocity under critical conditions.

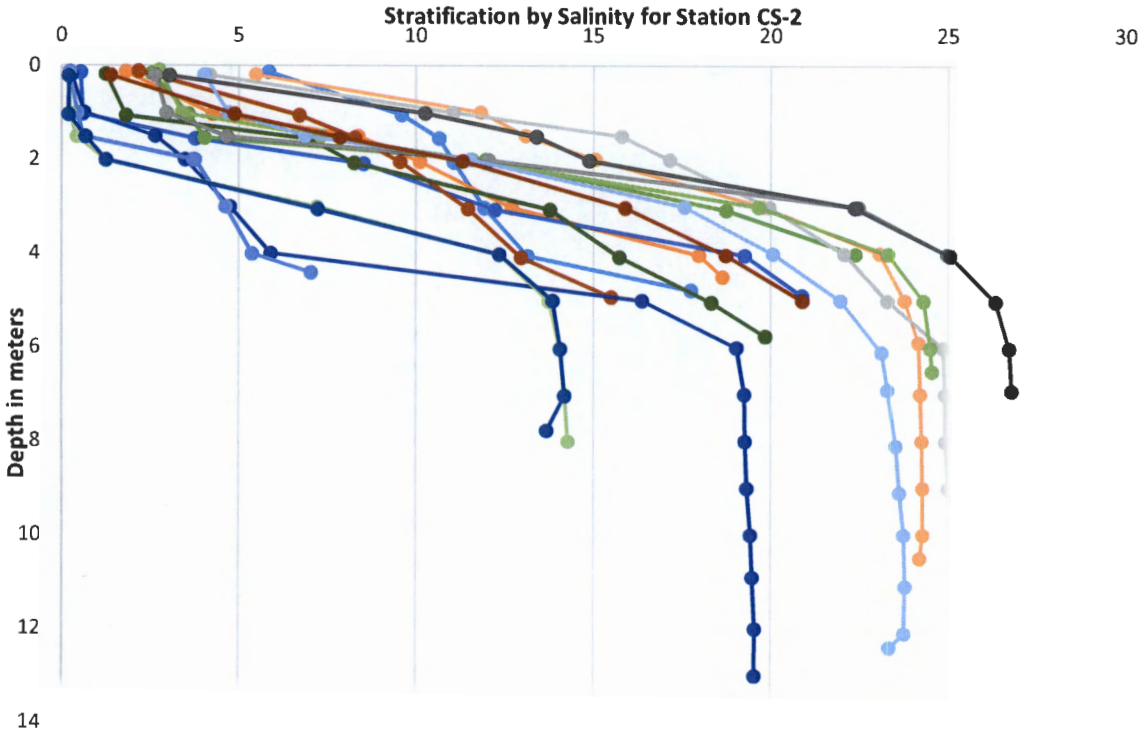
The USACE data consisted of Horizontal Acoustic Doppler Current Profiler (HADCP) readings collected at three minute intervals. Each sample consisted of a series of cross sectional measurements grouped into bins. A bin is a two meter horizontal section. Across the river, there are 128 bins. For each time interval

modeled in CORMIX, the average velocity of the bins was selected at the appropriate periods in the tidal cycle. The data used for the CORMIX model was from October 22, 2016, as this date represents critical low flow conditions for the Mobile River.

The discharge is located above the Mobile Ship Channel. This portion of the river more closely resembles Chickasaw Creek for purposes of stratification. Therefore, ADEM station CS-2 on Chickasaw Creek (near

Receiving Waterbody: Mobile River
Basin: Mobile
Date Completed 5/1/23
Performed by: JBR, Water Quality

its confluence with the Mobile River) was chosen as representative for the stratification inputs to the model.



The mixing zone is the most conservative of several criteria. The first criterion is that for a coastal area. It is 400 feet, or 121.92 meters. The remaining criteria are as follows:

1. Mixing zone width cannot exceed half the stream width.
2. Mixing zone area cannot exceed one-quarter of the stream cross-sectional area.
3. Mixing zone length cannot exceed five times the width of the mixing zone.
4. Mixing zones may not encompass drinking water intakes.

The width of the Mobile River at the discharge point is roughly 470 meters; thus, half the width is 235 meters, and five times the mixing zone width is 1017.5 meters. The latter criterion was not evaluated due to it being less stringent than the 400 feet coastal criterion. The half width and coastal area criteria, along with the 25% of the stream cross sectional area criterion, were evaluated by CORMIX. Several tidal simulations were performed for both before and after slack tide situations. The most stringent of these was the one-hour post slack tide scenario, which resulted in an IWC of 3.17%.

Receiving Waterbody: Mobile River
Basin: Mobile
Date Completed 5/1/23
Performed by: JBR, Water Quality

Kimberly Clark
AL0002801

Results of Kimberly Clark Cormix using USACE Gauge Velocities. South mobile River Station				
X = Model Termination prior to edge of MZ				
Mixing Zone Criteria	Starting Velocity ft/s	1/2 Width	25% Cross Sectional	400 ft Coastal Criteria
Hours Before Slack				
4	0.53	x	x	1.47%
3	0.48	x	x	1.61%
2	0.3	x	x	2.36%
1	0.22	x	x	2.94%
Hours After Slack				
1	0.27	x	x	3.17%
2	0.47	x	x	1.96%
3	0.51	x	x	1.75%
4	0.62	x	x	1.41%
The length 5/2 width criteria greater than 400 ft is not included since it is greater than 400 ft.				
Max Velocity for all scenarios:			0.95 ft/s	

There are no drinking water intakes located on this portion of the Mobile River.

For the purposes of toxicity testing, the chronic test at an IWC of 3.17% applies. Since Kimberly Clark's discharge is located within the ADEM defined coastal zone, saltwater species will be applicable for toxicity testing.

CORMIX inputs and outputs are included in the appendix.

Receiving Waterbody: Mobile River
Basin: Mobile
Date Completed 5/1/23
Performed by: JBR, Water Quality

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

version 2.5

(Submission #: HPQ-WVKV-Z53D4, version 1)

Details

Submission ID HPQ-WVKV-Z53D4

Form Input

General Instructions

This form should be used to submit the following permit requests for permitted Industrial Individual NPDES facilities

-Permit Transfers
-Permittee/Facility Name Changes
-Minor Modifications, for example:
> Frequency of monitoring or reporting modifications
> Changes to interim compliance dates in a schedule of compliance, not including the final compliance date.
> Removal of a point source outfall, provided the discharge is terminated and does not result in discharge of pollutants from other outfalls, except in accordance with permit limits.
-Major Modifications, (Any modifications not covered by minor mod◆s, whether Effluent Limit changes occur or not)
-Reissuances
-Reissuance of a permit due to approaching expiration
-Revocation and Reissuance of permit prior to its scheduled expiration

Applicable Base Fees:
-Permit Transfers and/or Permittee/Facility Name Changes
> $800
-Minor Modifications (see examples above)
> $3,940 (Major Sources)
> $3,120 (Minor Sources)
-Major Modifications
> $17,990 (Major Sources)
> $5,615 (Minor Sources)
-Reissuances
> $17,990 (Major Sources)
> $5,615 (Minor Sources)

For assistance, please click here to determine the permit staff responsible for the site or call (334) 271-7943

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):
AL0002801

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
AL0002801

Current Permittee Name
Kimberly Clark Corp

Permittee

Permittee Name
Kimberly Clark Corp

Mailing Address

200 BAY BRIDGE RD

MOBILE, AL 36610

Responsible Official

Prefix
Mr.

First Name	Last Name
Nick	*Engebos*

Title
Mobile Facility Manager

Organization Name
Kimberly-Clark Corp

Phone Type	Number	Extension
Business	2513302464	

Email
Nick.Engebos@kcc.com

Mailing Address

200 BAY BRIDGE RD

MOBILE, AL 36610

Existing Permit Contacts

Affiliation Type	Contact Information	Remove?
Permittee	Kimberly Clark Corp	Keep
DMR Contact,Environmental Contact	Leanne Strickland	Keep
Notification Recipient,Responsible Official	Nick Engebos	Keep

Facility/Site Information

Facility/Site Name
Kimberly Clark Corp

Organization/Ownership Type
Corporation

Facility/Site Address or Location Description
200 BAY BRIDGE RD
MOBILE, AL 36610

Facility/Site County
Mobile

Detailed Directions to the Facility/Site
E-> W over Cochrane Bridge, first right hand turn, guard house/gate is under bridge

Facility Map
AL0002801_ Site Vicinity Map.pdf - 01/23/2023 01:32 PM
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
30.73380000000000,-88.05029999999999

SIC Code(s) [Please enter Primary SIC Code first followed by any additional applicable SIC Codes]
2621-Paper Mills
2676-Sanitary Paper Products

NAICS Code(s) [Please enter Primary NAICS Code first followed by any additional applicable NAICS Codes]
322291-Sanitary Paper Product Manufacturing
322121-Paper (except Newsprint) Mills

Facility/Site Contact

Prefix
Ms.

First Name	Last Name
LeeAnne	*Strickland*

Title
Enviro Coordinator

Organization Name
Kimberly-Clark Corporation

Phone Type	Number	Extension
Business	2513303000	

Email
leeanne.strickland@kcc.com

Address
200 BAY BRIDGE RD
MOBILE, AL 36610

DMR Contact(s) (1 of 1)

DMR Contact

Prefix
Ms.

First Name	Last Name
LeeAnne	*Strickland*

Title
Enviro Coordinator

Phone Type	Number	Extension
Business	2513303000	

Email
leeanne.strickland@kcc.com

Address
200 BAY BRIDGE RD
MOBILE, AL 36610

Applicant Business Entity Information

Address of Incorporation
Delaware

Agent Designated by the Corporation for Purposes of Service

Name	Address
CT Corporation	2 North Jackson Street, Suite 605 Montgomery, AL 36104

Please provide all corporate officers

Name	Title	Address
Michael D Hsu	Chairman and CEO	351 Phelps Drive Irving, TX 75038-6540
Russ Torres	President, NACB	351 Phelps Drive Irving, TX 75038-6540

Does the applicant applying for coverage have a Parent Corporation?
No

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?
No

Business Activity

A facility with processes inclusive in the business areas shown below may be covered by Environmental Protection Agency's (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:
Pulp, Paper, and Fiberboard Manufacturing

Give a brief description of all operations at this facility including primary products or services:
The Mobile Kimberly-Clark (K-C) facility is comprised of two recycle fiber facilities that produce white and brown recycle fiber, 5 tissue/towel manufacturing machines and various converting assets. Other operating areas within the facility include the Water Filter Plant (WFP), Wastewater Treatment Plant (WWTP), compressed air supply,
contractor storage and fabrication zones, and railcar to truck transfer areas for recycled fiber bales. K-C operates a cogeneration facility which includes; two gas turbine generators, two heat recovery boilers, related power distribution switch gear, and auxiliary equipment. This system is sized to efficiently support the thermal energy
(steam) demand of the mill, and generate 42 megawatts (MW) of the mill's 52MW mill electrical demand. The remainder of the required electrical power is purchased from the local utility company.

Water Supply

Water Sources (check all that apply):
Municipal Water Utility

Please specify the City of the Municipal Water Utility:
Mobile

Name of Utility	Million Gallons per Day (MGD)
Mobile Area Water & Sewer System (MAWSS)	13

Cooling Water Intake Structure Information

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

Name of Provider	Location of Provider	Latitude	Longitude
Mobile Area Water & Sewer System (MAWSS)	Mobile, AL	30.72024	-88.30369

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 4)

001

Please click below if this discharge no longer exists or is no longer required:
NONE PROVIDED

Outfall Identifier
001

Receiving Water
Mobile 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)
13

Monitoring/Sampling Point Location
30.74583300000000, -88.04166700000000

Outfalls (2 of 4)

007

Please click below if this discharge no longer exists or is no longer required:
NONE PROVIDED

Outfall Identifier
007

Receiving Water
Chickasaw Creek

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:
Intermittent Discharge

Estimated Average Daily Flow (MGD)
0.006

Monitoring/Sampling Point Location
30.736944,-88.045833

Outfalls (3 of 4)

011

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

Provide the reason this outfall is being deleted.
Outfall Location No Longer Exists

Outfall Identifier
011

Indicate if either of the following characteristics apply to this discharge:
None apply

Estimated Average Daily Flow (MGD)
0

Outfalls (4 of 4)

012

Please click below if this discharge no longer exists or is no longer required:
NONE PROVIDED

Outfall Identifier
012

Receiving Water
Chickasaw Creek

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:
Intermittent Discharge

Estimated Average Daily Flow (MGD)
0.002

Monitoring/Sampling Point Location
30.737778,-88.051667

Stormwater Outfalls (1 of 17)

002

Please click below if this discharge no longer exists or is no longer required:
NONE PROVIDED

Outfall Identifier
002

Receiving Water
Chickasaw Creek

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

Monitoring/Sampling Point Location
30.737319,-88.053053

Stormwater Outfalls (2 of 17)

003

Please click below if this discharge no longer exists or is no longer required:
NONE PROVIDED

Outfall Identifier
003

Receiving Water
Chickasaw Creek

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

Monitoring/Sampling Point Location
30.739358-88.050661

Stormwater Outfalls (3 of 17)

004

Please click below if this discharge no longer exists or is no longer required:
NONE PROVIDED

Outfall Identifier
004

Receiving Water
Chickasaw Creek

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

Monitoring/Sampling Point Location
30.738958,-88.051803

Stormwater Outfalls (4 of 17)

005

Please click below if this discharge no longer exists or is no longer required:
NONE PROVIDED

Outfall Identifier
005

Receiving Water
Chickasaw Creek

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

Monitoring/Sampling Point Location
30.737333,-88.053033

Stormwater Outfalls (5 of 17)

006

Please click below if this discharge no longer exists or is no longer required:
NONE PROVIDED

Outfall Identifier
006

Receiving Water
Chickasaw Creek

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

Monitoring/Sampling Point Location
30.73761700000000, -88.04601099999999

Stormwater Outfalls (6 of 17)

008

Please click below if this discharge no longer exists or is no longer required:
NONE PROVIDED

Outfall Identifier
008

Receiving Water
Chickasaw Creek

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

Monitoring/Sampling Point Location
30.739786,-88.049081

Stormwater Outfalls (7 of 17)

009

Please click below if this discharge no longer exists or is no longer required:
NONE PROVIDED

Outfall Identifier
009

Receiving Water
Chickasaw Creek

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

Monitoring/Sampling Point Location
30.740639,-88.048564

Stormwater Outfalls (8 of 17)

010

Please click below if this discharge no longer exists or is no longer required:
NONE PROVIDED

Outfall Identifier
010

Receiving Water
Chickasaw Creek

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

Monitoring/Sampling Point Location
30.740419,-88.049436

Stormwater Outfalls (9 of 17)

013

Please click below if this discharge no longer exists or is no longer required:
NONE PROVIDED

Outfall Identifier
013

Receiving Water
Chickasaw Creek

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

Monitoring/Sampling Point Location
30.738589,-88.051233

Stormwater Outfalls (10 of 17)

014

Please click below if this discharge no longer exists or is no longer required:
NONE PROVIDED

Outfall Identifier
014

Receiving Water
Threemile Creek

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

Monitoring/Sampling Point Location
30.733503,-88.052381

Stormwater Outfalls (11 of 17)

015

Please click below if this discharge no longer exists or is no longer required:
NONE PROVIDED

Outfall Identifier
015

Receiving Water
Threemile Creek

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

Monitoring/Sampling Point Location
30.731469,-88.0522853

Stormwater Outfalls (12 of 17)

016

Please click below if this discharge no longer exists or is no longer required:
NONE PROVIDED

Outfall Identifier
016

Receiving Water
Threemile Creek

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

Monitoring/Sampling Point Location
30.7307,-88.0531

Stormwater Outfalls (13 of 17)

017

Please click below if this discharge no longer exists or is no longer required:
NONE PROVIDED

Outfall Identifier
017

Receiving Water
Threemile Creek

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

Monitoring/Sampling Point Location
30.729825,-88.053139

Stormwater Outfalls (14 of 17)

018

Please click below if this discharge no longer exists or is no longer required:
NONE PROVIDED

Outfall Identifier
018

Receiving Water
Threemile Creek

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

Monitoring/Sampling Point Location
30.729544,-88.053222

Stormwater Outfalls (15 of 17)

019

Please click below if this discharge no longer exists or is no longer required:
NONE PROVIDED

Outfall Identifier
019

Receiving Water
Threemile Creek

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

Monitoring/Sampling Point Location
30.729247,-88.051533

Stormwater Outfalls (16 of 17)

020

Please click below if this discharge no longer exists or is no longer required:
NONE PROVIDED

Outfall Identifier
020

Receiving Water
Threemile Creek

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

Monitoring/Sampling Point Location
30.731869,-88.047022

Stormwater Outfalls (17 of 17)

021

Please click below if this discharge no longer exists or is no longer required:
NONE PROVIDED

Outfall Identifier
021

Receiving Water
Chickasaw Creek

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

Monitoring/Sampling Point Location
30.73975600000000, -88.05108300000001

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
AL0002801_ Site Process Flow.pdf - 01/23/2023 01:43 PM
Comment
NONE PROVIDED

Coastal Zone Information

Is the discharge(s) located within the 10-foot elevation contour and within the limits of Mobile or Baldwin County?
Yes

Does the project require new construction?
No

Will the project be a source of new air emissions?
No

Does the project involve dredging and/or filling of a wetland area or water way?
No

Does the project involve wetlands and/or submersed grassbeds?
No

Are oyster reefs located near the project site?
No

Does the project involve the site developement, construction and operation of an energy facility as defined in ADEM Admin. Code r. 335-8-1-.02(bb)?
No

Does the project involve mitigation of shoreline or coastal area erosion?
No

Does the project involve construction on beaches or dune areas?
No

Will the project interfere with public access to coastal waters?
No

Does the project lie within the 100-year floodplain?
No

Does the project involve the registration, sale, use, or application of pesticides?
No

Does the project propose or require construction of a new well or to alter an existing groundwater well to pump more than 50 gallons per day (GPD)?
No

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?
No

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	Yes

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	N/A

Please describe the equipment below:
FLOW - Parshall flume on mill side (West Side) of Chickasaw Creek - Radar Flow Meter with totalizator flow on DCS display
SAMPLING Parshall flume on mill side (West Side) of Chickasaw Creek - 24-hour ISCO composite sampler and refrigerator

Please attach the process schematic with sampling equipment locations.

AL0002801_Site WWTP Flow.pdf - 01/23/2023 02:13 PM

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

Please list biocides below:
Biosperse CN7539
Biosperse Cx9071
Spectrum XD3899
Spectrum XD1878
Bleach

Biocide/Corrosion Inhibitor Summary Sheet

AL000280 Biocides_Corrosion Inhibitors Summary Table.pdf - 01/25/2023 09:13 AM

Comment

NONE PROVIDED

Safety Data Sheets (SDS)

AL0002801_SDSs KCC.pdf - 01/23/2023 02:04 PM

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).

Screen
Sedimentation
Other physical treatment
Other chemical treatment

Other chemical treatment:

Chemical conditioning

Other physical treatment:

Belt Filter/Screw Press

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 (lbs/day)	Disposal Method	On-Site or Off-Site?	If Off-Site, Identify the Facility:
Sludge	733333	Landfill	Off-Site	Axis Industrial Landfill

Does any outside firm remove any of the above checked wastes?
No

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
AL0002801_EPA Form 1.pdf - 01/23/2023 01:20 PM
Comment
NONE PROVIDED

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

AL0002801_EPA Form 2E_DSN012.pdf - 01/23/2023 01:23 PM
AL0002801_EPA Form 2E_DSN007.pdf - 01/23/2023 01:23 PM
AL0002801_EPA Form 2F.pdf - 01/23/2023 01:24 PM
AL0002801_EPA Form 2F_DNS005Tables.pdf - 01/23/2023 01:24 PM
AL0002801_EPA Form 2F_DNS003Tables.pdf - 01/23/2023 01:24 PM
AL0002801_EPA Form 2F_DNS004Tables.pdf - 01/23/2023 01:24 PM
AL0002801_EPA Form 2F_DNS014Tables.pdf - 01/23/2023 03:23 PM
AL0002801_EPA Form 2F_DNS011Tables.pdf - 01/23/2023 03:23 PM
AL0002801_EPA Form 2F_DNS020Tables.pdf - 01/23/2023 03:23 PM
AL0002801_EPA Form 2F_DNS013Tables.pdf - 01/23/2023 03:23 PM
AL0002801_EPA Form 2F_DNS018Tables.pdf - 01/23/2023 03:23 PM
AL0002801_EPA Form 2F_DNS017Tables.pdf - 01/23/2023 03:23 PM
AL0002801_EPA Form 2F_DNS010Tables.pdf - 01/23/2023 03:23 PM
AL0002801_EPA Form 2F_DNS019Tables.pdf - 01/23/2023 03:23 PM
AL0002801_EPA Form 2F_DNS015Tables.pdf - 01/23/2023 03:23 PM
AL0002801_EPA Form 2F_DNS021Tables.pdf - 01/23/2023 03:23 PM
AL0002801_EPA Form 2F_DNS012Tables.pdf - 01/23/2023 03:23 PM
AL0002801_EPA Form 2F_DNS016Tables.pdf - 01/23/2023 03:23 PM
AL0002801_EPA Form 2F_DNS009Tables.pdf - 01/23/2023 03:23 PM
AL0002801_EPA Form 2F_DNS008Tables.pdf - 01/23/2023 03:23 PM
AL0002801_EPA Form 2F_DNS007Tables.pdf - 01/23/2023 03:23 PM
AL0002801_EPA Form 2F_DNS006Tables.pdf - 01/23/2023 03:23 PM
AL0002801_EPA Form 2C.pdf - 01/25/2023 06:59 AM

Comment
NONE PROVIDED

Other attachments (as needed)

AL0002801_ Site Vicinity Map_USGS Topo.pdf - 01/23/2023 01:33 PM
AL0002801_ Site Drainage Map.pdf - 01/23/2023 01:38 PM

Comment
NONE PROVIDED

Additional Attachments

Please attach any additional information as needed.

AL0002801 Kimberly-Clark DIZ Final Report 2022.pdf - 01/25/2023 07:04 AM

Comment
AL0002801 Kimberly-Clark DIZ Final Report is being submitted in accordance with K-C Permit AL0002801 Part IV, Section C.

Application Preparer

Application Preparer

Prefix
Ms.

First Name	Last Name
LeeAnne	*Strickland*

Title
Environmental Coordinator

Organization Name
NONE PROVIDED

Phone Type	Number	Extension
Business	2513303000	

Email
leeanne.strickland@kcc.com

Address
200 BAY BRIDGE RD
MOBILE, AL 36610

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*

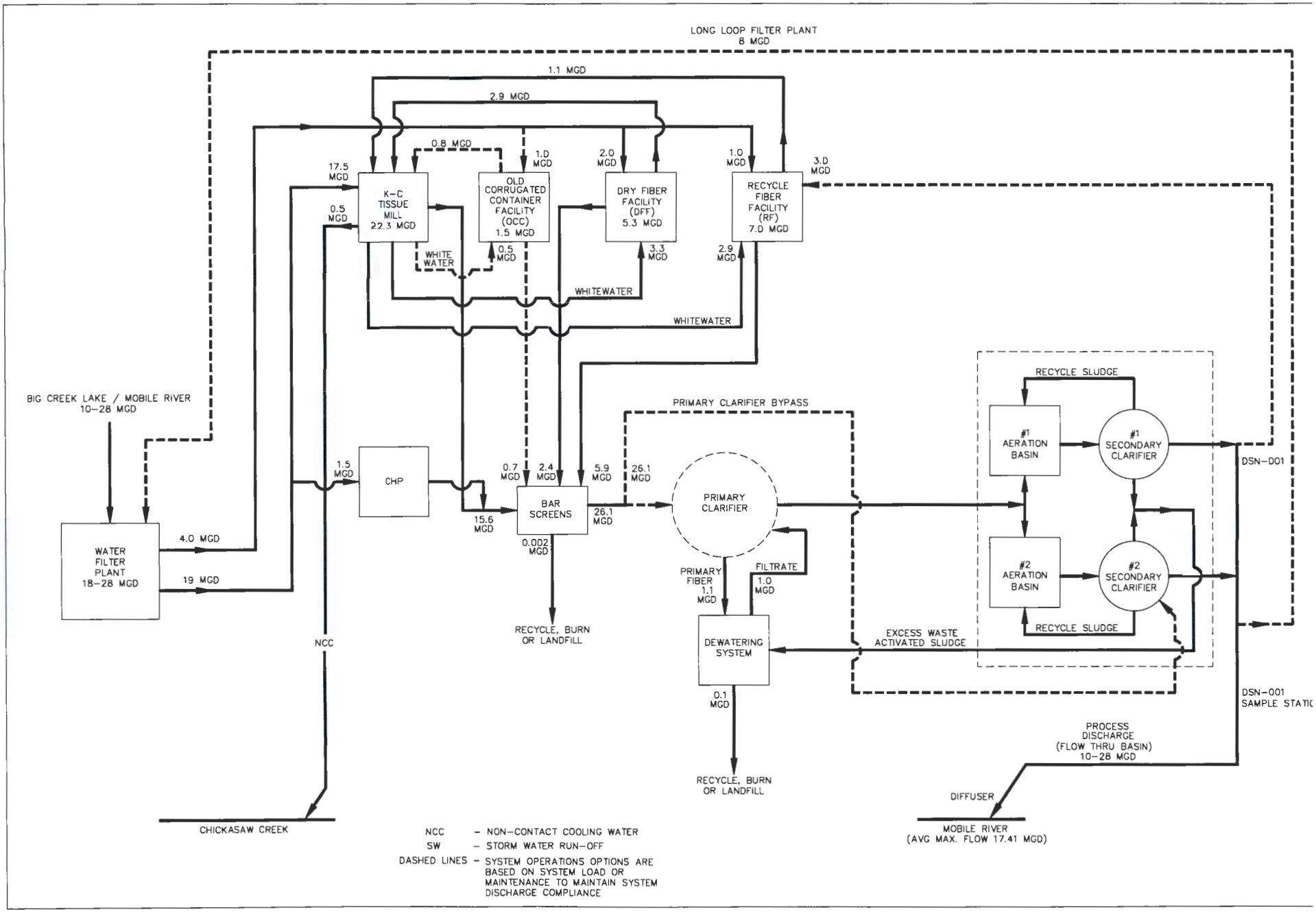
Signed By NICHOLAS ENGEBOS on 01/25/2023 at 10:31 AM

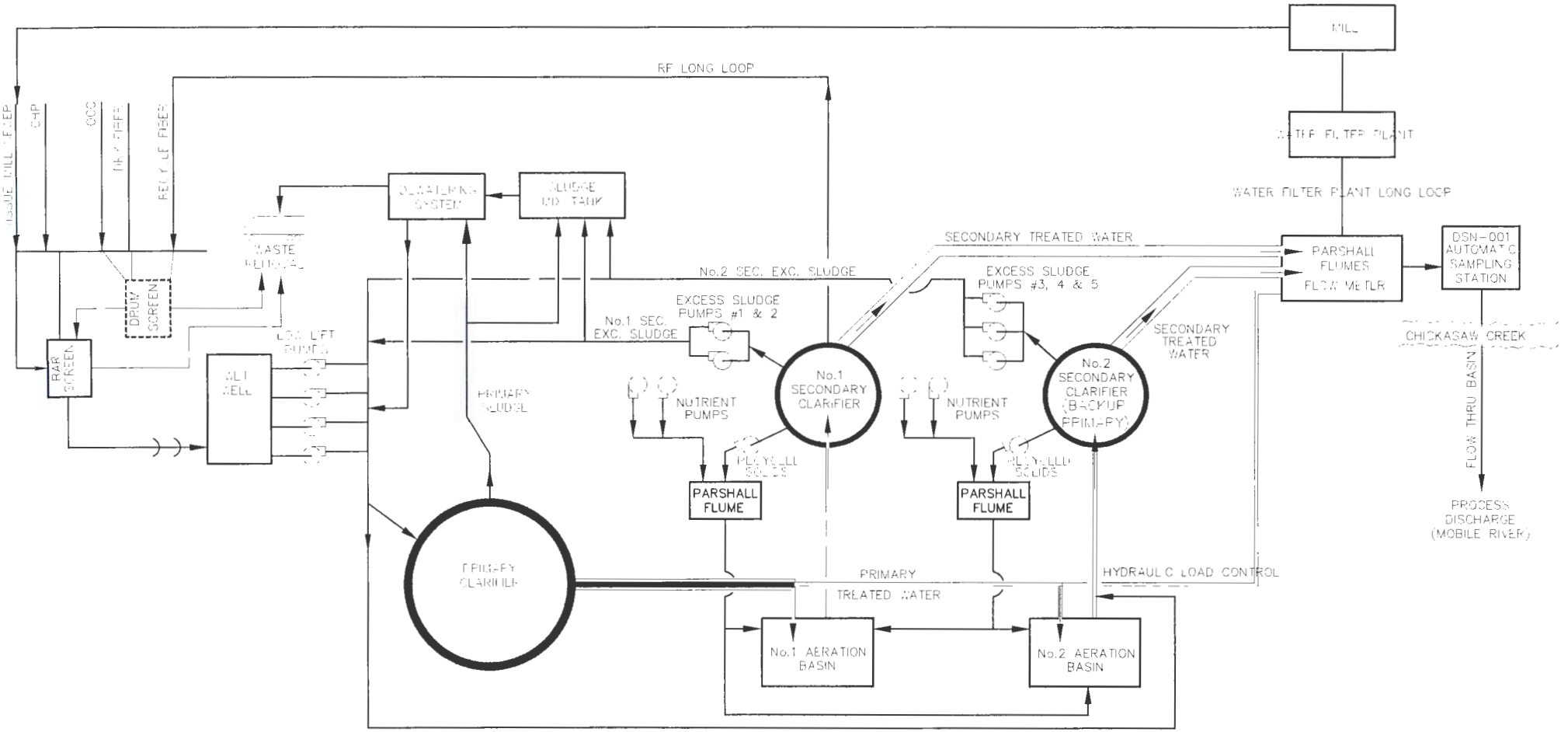
National Pollution Discharge Elimination System (NPDES) Permit Renewal Application - AL0002801
Kimberly-Clark Corp., 200 Bay Bridge Road, Mobile (Mobile County) AL
ADEM Form 187 - Section C.4
Attachment 1
Biocides / Corrosion inhibitors Used

Trade Name	Chemical Composition	Annual Quantity (gallons)	Frequency of Use (Area of use)	Discharge Concentration [1]	EPA Registration Number (if applicable)	Ecological Information (Lethal Dose – LC50)
Biosperse CN7539	ORGANIC ALCOHOL - CAS (Trade Secret) >= 5 - < 10% MIXED KETONES – CAS (Trade Secret) >= 1.5 - < 5% MAGNESIUM COMPOUND – CAS (Trade Secret) >= 1.5 - < 5% INORGANIC ACID – CAS (Trade Secret) >= 1. - < 1.5%	1020 <5	2-3 gal/week (CHP Tower) As Needed (Closed Systems	NA	74655-38	Pimephales promelas (fathead minnow): 3.5 mg/l Exposure time: 96 h Sheepshead minnow (Cyprinodon variegatus): 26.7 mg/l Exposure time: 96 h Water flea (Ceriodaphnia dubia): 4.7 mg/l Exposure time: 48 h Daphnia (water flea): 5 mg/l Exposure time: 48 h
Biosperse Cx9071	Sodium N-bromosulfamate – CAS 1004542-84-0 >= 20 - < 30 % Sodium hydroxide Cas 1310-73-2 >= 1.5 - < 5%	S	0.25 gal/week (Napkin Tower)	NA	63838-5-74655	Pimephales promelas (fathead minnow): 9.35 mg/l Exposure time: 96 h

Trade Name	Chemical Composition	Annual Quantity (gallons)	Frequency of Use (Area of use)	Discharge Concentration [1]	EPA Registration Number (if applicable)	Ecological Information (Lethal Dose – LC50)
Spectrum XD3899	Amonium Bromide – CAS 12124-97-9 >= 30 - < 40%	1,299 1,205	Batch Feed (OCC) 3.3 gal/day (Converting Big Tower)	NA	8622-64-755	Lepomis macrochirus (Bluegill sunfish): > 1,000 mg/l Exposure time: 96 h Oncorhynchus mykiss (rainbow trout): > 1,000 mg/l Exposure time: 96 h
Spectrum XD1878	Ammonium carbamate CAS 1111-78-0 >= 15 - < 20%	10,916 10,349	Batch Feed (TM5/TM7) Batch Feed (TM8/TM11)	NA		Lepomis macrochirus (Bluegill sunfish): 35 mg/l Exposure time: 96 h Oncorhynchus mykiss (rainbow trout): 21 mg/l Exposure time: 96 h
Bleach	Sodium Hypochlorite CAS 7681-52-6 10-13%	28,046	Batch Feed (TM5/TM7)	NA		Harmful to aquatic life. Very toxic to aquatic life with long lasting effects.
		23,621	Batch Feed (TM8/TM11)			
		2,574	Batch Feed (OCC)			
		2,386	6.5 gal/day (Big Tower)			
		1,551	4.25 gal/day (CHP Tower)			

[1] **All cooling tower water discharges are conveyed via pipes to the facility wastewater treatment plant where it is treated along with the facility process waters prior to discharge. Concentrations of the biocides/inhibitors are estimated to be less than analytical method detection limits.**


LONG LOOP FILTER PLANT
8 MGD
1.1 MGD
2.9 MGD
0.8 MGD
1.0 MGD
2.0 MGD
1.0 MGD
3.0 MGD
17.5 MGD
0.5 MGD
K-C TISSUE MILL 22.3 MGD
OLD CORRUGATED CONTAINER FACILITY (OCC) 1.5 MGD
DRY FIBER FACILITY (DFF) 5.3 MGD
RECYCLE FIBER FACILITY (RF) 7.0 MGD
WHITE WATER
0.5 MGD
3.3 MGD
2.9 MGD
WHITEWATER
WHITEWATER
BIG CREEK LAKE / MOBILE RIVER
10-28 MGD
PRIMARY CLARIFIER BYPASS
RECYCLE SLUDGE
#1 AERATION BASIN
#1 SECONDARY CLARIFIER
DSN-001
1.5 MGD
CHP
0.7 MGD
2.4 MGD
5.9 MGD
26.1 MGD
PRIMARY CLARIFIER
BAR SCREENS
26.1 MGD
15.6 MGD
0.002 MGD
4.0 MGD
WATER FILTER PLANT 18-28 MGD
19 MGD
PRIMARY FIBER 1.1 MGD
FILTRATE
1.0 MGD
#2 AERATION BASIN
#2 SECONDARY CLARIFIER
RECYCLE SLUDGE
NCC
RECYCLE, BURN OR LANDFILL
DEWATERING SYSTEM
EXCESS WASTE ACTIVATED SLUDGE
0.1 MGD
DSN-001 SAMPLE STATIC
PROCESS DISCHARGE (FLOW THRU BASIN) 10-28 MGD
RECYCLE, BURN OR LANDFILL
DIFFUSER
CHICKASAW CREEK
MOBILE RIVER (AVG MAX. FLOW 17.41 MGD)
NCC - NON-CONTACT COOLING WATER
SW - STORM WATER RUN-OFF
DASHED LINES - SYSTEM OPERATIONS OPTIONS ARE BASED ON SYSTEM LOAD OR MAINTENANCE TO MAINTAIN SYSTEM DISCHARGE COMPLIANCE



WASTE TREATMENT PLANT – FLOW DIAGRAM

Outfall No.	Latitude	Longitude	Area (Acres)
DSN-002	30° 44' 14.95"	88° 03' 10.95"	2.92
DSN-003	30° 44' 21.60"	88° 03' 03.38"	0.94
DSN-004	30° 44' 30.25"	88° 03' 05.45"	10.85
DSN-005	30° 44' 14.60"	88° 03' 10.92"	3.56
DSN-006	30° 44' 15.42"	88° 02' 45.64"	4.71
DSN-007	30° 43' 53.39"	88° 03' 49.08"	18.48
DSN-008	30° 44' 23.23"	88° 02' 56.68"	2.68
DSN-009	30° 44' 36.80"	88° 02' 54.43"	3.69
DSN-010	30° 44' 35.51"	88° 02' 57.97"	9.05
DSN-011	30° 44' 34.73"	88° 03' 11.35"	4.80
DSN-012	[illegible]	[illegible]	2.42
DSN-013	30° 44' 18.92"	88° 03' 04.44"	2.43
DSN-014	30° 44' 00.62"	88° 03' 08.57"	1.51
DSN-015	30° 43' 53.78"	88° 03' 10.27"	5.95
DSN-016	30° 43' 56.52"	88° 03' 11.18"	1.81
DSN-017	30° 43' 47.37"	88° 03' 11.70"	0.55
DSN-018	30° 43' 46.36"	88° 03' 13.60"	1.31
DSN-019	30° 43' 45.29"	88° 03' 35.52"	12.04
DSN-020	[illegible]	[illegible]	6.41
DSN-021	30° 44' 23.17"	88° 03' 03.90"	1.38
DSN-022	30° 44' 16.37"	88° 02' 56.50"	0.43
Total Area (acres)			91.80

0' 200' 400' 600' 800' 1000'
1"=200'

ISSUED FOR INFORMATION ONLY

PRELIMINARY NOT FOR CONSTRUCTION

NO.	DATE	REVISIONS	BY	CK.	APPR.
E	01.19.23	ISSUED FOR INFORMATION	ABC	DRN	DRN
D	10.14.19	ISSUED FOR INFORMATION	ABC	DRN	DRN
C	05.17.19	ISSUED FOR INFORMATION	ABC	DRN	DRN
B	04.26.19	ISSUED FOR INFORMATION	ABC	DRN	DRN
A	02.26.19	ISSUED FOR OFFICE CHECK	DXN	AC	DRN

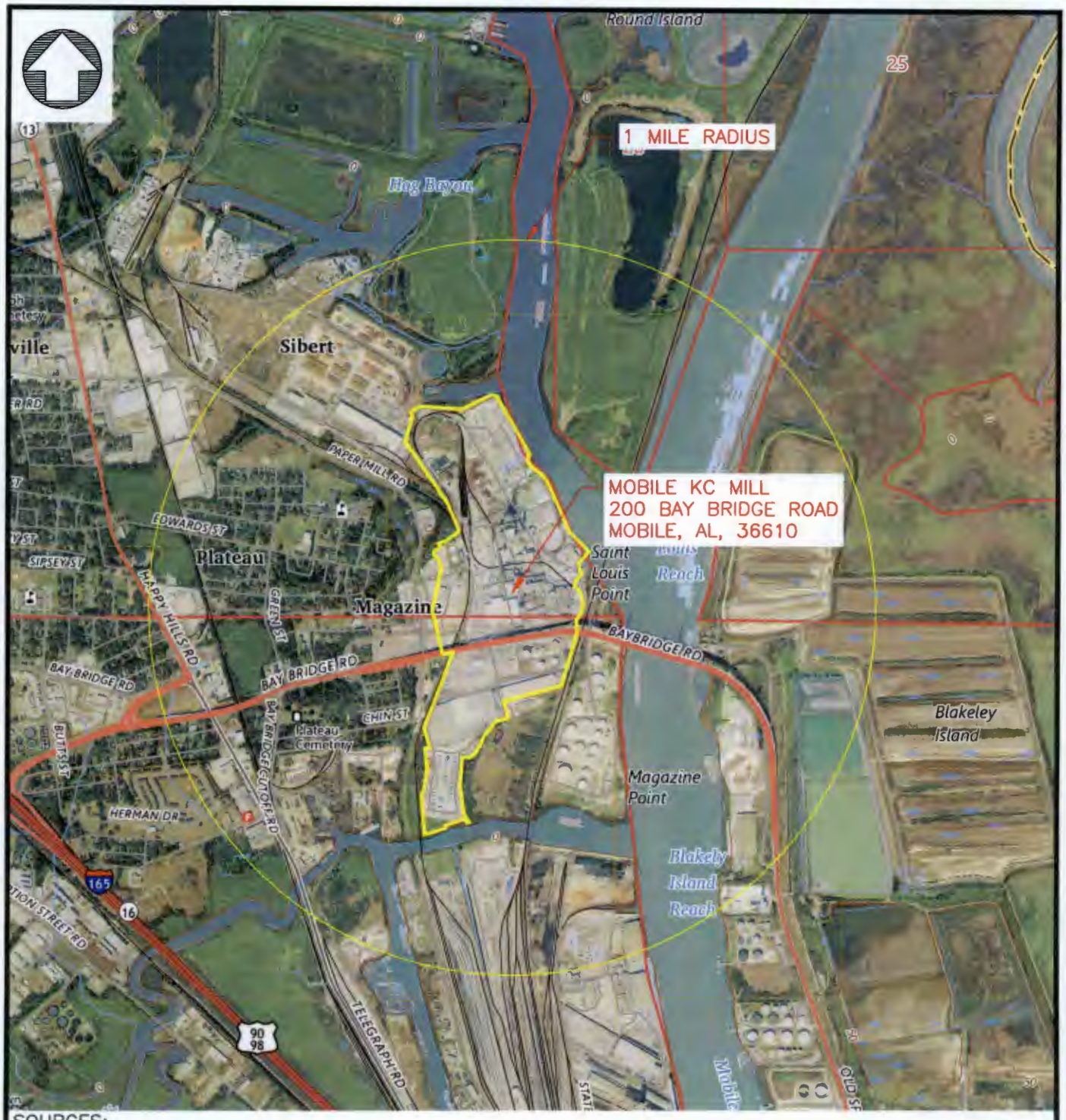
REFERENCE DRAWINGS

DRAWN BY: A. CARDER — DATE: 02.21.19
CHECKED BY: A. CARDER — DATE: 02.25.19
APPROVED BY: C. NOBLES — DATE: 02.25.19
COST/SCHEDULE/ AREA: –
SCALE: 1"=200'

hargrove engineers + constructors
Hargrove and Associates Inc.
20 S Royal St. Mobile, AL 36602
251.476.0605 - hargrove-epc.com

DRAWING TITLE
UTILITIES, GENERAL
DSN OVERALL DRAINAGE PLAN

CONTRACT NO. – | OWNER NO.
APPROVED BY – | DATE –
APPROVED BY – | DATE –
DRAWING NUMBER: CV-280-DSN-001.1 | REV. E



SOURCES:
USGS QUADRANGLE MAP
MOBILE, AL

0 2000 4000 Feet

Kimberly-Clark

ISSUED FOR INFORMATION ONLY

hargrove engineers+constructors
Hargrove and Associates Inc.
20 S Royal St. Mobile, AL 36602
251.476.0605 - hargrove-epc.com

SITE PLAN
SITE VICINITY MAP
MOBILE MILL
MOBILE, ALABAMA

DRAWN BY A. CARDER	DATE 1/18/23	CONTRACT NO. –	OWNER NO. 0003
CHECKED BY C. NOBLES	DATE 1/18/23	APPROVED BY –	DATE –
APPROVED BY C. NOBLES	DATE 1/18/23	APPROVED BY –	DATE –
SCALE 1"=2000'		DRAWING NUMBER FIGURE 1	REV. 1

USGS science for a changing world

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

The National Map US Topo

MOBILE QUADRANGLE
ALABAMA
7.5-MINUTE SERIES

Produced by the United States Geological Survey

North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and 1 000-meter grid: Universal Transverse Mercator, Zone 16S

This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Imagery ..... NAIP, November 2019
Roads ..... U.S. Census Bureau, 2017
Names ..... GNIS, 1980 - 2020
Hydrography ..... National Hydrography Dataset, 2004 - 2019
Contours ..... National Elevation Dataset, 2010 - 2020
Boundaries ..... Multiple sources; see publication file 2019
Public Land Survey System ..... BLM, 2020
Wetlands ..... 2005 National Wetlands Inventory 2001 - 2005

SCALE 1:24 000

CONTOUR INTERVAL 10 FEET
NORTH AMERICAN VERTICAL DATUM OF 1988

This map was produced to conform with the National Geological Program US Topo Product Standard, 2011. A metadata file associated with this product is draft version 0.0.16

ROAD CLASSIFICATION

Expressway ..... Local Connector
Secondary Hwy ..... Local Road
Ramp 4WD
Interstate Route ..... US Route ..... State Route

MOBILE, AL
2020

EPA Identification Number	NPDES Permit Number	Facility Name	Form Approved 03/05/19 OMB No. 2040-0004
ALD008149858	AL0002801	Kimberly-Clark Corp	

Form 1 NPDES | **EPA**

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

GENERAL INFORMATION

SECTION 1. ACTIVITIES REQUIRING AN NPDES PERMIT (40 CFR 122.21(f) and (f)(1))

Activities Requiring an NPDES Permit

1.1 Applicants *Not Required* to Submit Form 1

1.1.1 Is the facility a new or existing **publicly owned treatment works**?
If yes, STOP. Do NOT complete Form 1. Complete Form 2A. ☑ No

1.1.2 Is the facility a new or existing **treatment works treating domestic sewage**?
If yes, STOP. Do NOT complete Form 1. Complete Form 2S. ☑ No

1.2 Applicants *Required* to Submit Form 1

1.2.1 Is the facility a **concentrated animal feeding operation** or a **concentrated aquatic animal production facility?**
☐ Yes → Complete Form 1 ***and*** Form 2B. ☑ No

1.2.2 Is the facility an **existing** manufacturing, commercial, mining, or silvicultural **facility** that **is currently discharging process wastewater**?
☑ Yes → Complete Form 1 ***and*** Form 2C. ☐ No

1.2.3 Is the facility a **new** manufacturing, commercial, mining, or silvicultural **facility** that has **not yet commenced to discharge**?
☐ Yes → Complete Form 1 ***and*** Form 2D. ☑ No

1.2.4 Is the facility a **new or existing** manufacturing, commercial, mining, or silvicultural **facility** that **discharges only nonprocess wastewater**?
☐ Yes → Complete Form 1 ***and*** Form 2E. ☑ No

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 ***and*** Form 2F unless exempted by 40 CFR 122.26(b)(14)(x) or (b)(15). ☐ No

SECTION 2. NAME, MAILING ADDRESS, AND LOCATION (40 CFR 122.21(f)(2))

Name, Mailing Address, and Location

2.1 Facility Name

Kimberly-Clark Corp

2.2 EPA Identification Number

ALD008149858

2.3 Facility Contact

Name (first and last)	Title	Phone number
LeeAnne Strickland	Environmental Coordinator	251-330-2464

Email address
LeeAnne.Strickland@kcc.com

2.4 Facility Mailing Address

Street or P.O. box
200 Bay Bridge Road

City or town	State	ZIP code
Mobile	AL	36610

EPA Identification Number	NPDES Permit Number	Facility Name	Form Approved 03/05/19 OMB No. 2040-0004
ALD008149858	AL0002801	Kimberly-Clark Corp	

Name, Mailing Address, and Location Continued

2.5	Facility Location		
	Street, route number, or other specific identifier 200 Bay Bridge Road		
	County name Mobile	County code (if known)	
	City or town Mobile	State AL	ZIP code 36610

SECTION 3. SIC AND NAICS CODES (40 CFR 122.21(f)(3))

SIC and NAICS Codes

3.1	SIC Code(s)	Description (optional)
	2621	Paper Mill
	2676	Sanitary Paper Products

3.2	NAICS Code(s)	Description (optional)
	322121	Paper (except Newsprint) Mill
	322291	Sanitary Paper Product Manufacturing

SECTION 4. OPERATOR INFORMATION (40 CFR 122.21(f)(4))

Operator Information

4.1	Name of Operator
	Kimberly-Clark Corp (For Section 4.4 and 4.5 the Facility Environmental Coordinator contact information is provided)
4.2	Is the name you listed in Item 4.1 also the owner? ☑ Yes ☐ No
4.3	Operator Status ☐ Public—federal ☐ Public—state ☐ Other public (specify)_____ ☑ Private ☐ Other (specify)_____
4.4	Phone Number of Operator (251) 330-6464

Operator Information Continued

4.5	Operator Address		
	Street or P.O. Box 200 Bay Bridge Road		
	City or town Mobile	State AL	ZIP code 36610
	Email address of operator LeeAnne.Strickland@kcc.com		

SECTION 5. INDIAN LAND (40 CFR 122.21(f)(5))

Indian Land

5.1	Is the facility located on Indian Land? ☐ Yes ☑ No

EPA Identification Number	NPDES Permit Number	Facility Name	Form Approved 03/05/19 OMB No. 2040-0004
ALD008149858	AL0002801	Kimberly-Clark Corp	

SECTION 6. EXISTING ENVIRONMENTAL PERMITS (40 CFR 122.21(f)(6))

Existing Environmental Permits

6.1 **Existing Environmental Permits** (check all that apply and print or type the corresponding permit number for each)

☑ NPDES (discharges to surface water) AL0002801	☑ RCRA (hazardous wastes) ALD008149858	☐ UIC (underground injection of fluids)
☐ PSD (air emissions)	☐ Nonattainment program (CAA)	☑ NESHAPs (CAA) 503-2012
☐ Ocean dumping (MPRSA)	☐ Dredge or fill (CWA Section 404)	☐ Other (specify)

SECTION 7. MAP (40 CFR 122.21(f)(7))

Map

7.1 Have you attached a topographic map containing all required information to this application? (See instructions for specific requirements.)

☑ Yes ☐ No ☐ CAFO—Not Applicable (See requirements in Form 2B.)

SECTION 8. NATURE OF BUSINESS (40 CFR 122.21(f)(8))

Nature of Business

8.1 Describe the nature of your business.

The Mobile Kimberly-Clark (K-C) facility is comprised of two recycle fiber facilities that produce white and brown recycle fiber, 5 tissue/towel manufacturing machines and various converting assets. Other operating areas within the facility include the Water Filter Plant (WFP), Wastewater Treatment Plant (WWTP), compressed air supply, contractor storage and fabrication zones, and railcar to truck transfer areas for recycled fiber bales. K-C operates a cogeneration facility which includes; two gas turbine generators, two heat recovery boilers, related power distribution switch gear, and auxiliary equipment. This system is sized to efficiently support the thermal energy (steam) demand of the mill, and generate 42 megawatts (MW) of the mill's 52MW mill electrical demand. The remainder of the required electrical power is purchased from the local utility company.

SECTION 9. COOLING WATER INTAKE STRUCTURES (40 CFR 122.21(f)(9))

Cooling Water Intake Structures

9.1 Does your facility use cooling water?

☑ Yes ☐ No ➔ SKIP to Item 10.1.

9.2 Identify the source of cooling water. (Note that facilities that use a cooling water intake structure as described at 40 CFR 125, Subparts I and J may have additional application requirements at 40 CFR 122.21(r). Consult with your NPDES permitting authority to determine what specific information needs to be submitted and when.)

Source of cooling water is provided by Mobile Area Water Sewer System (MAWSS) - Big Creek Lake. The raw water received from MAWSS is treated on site by K-C, This treated water is used in the process including the cooling towers.

SECTION 10. VARIANCE REQUESTS (40 CFR 122.21(f)(10))

Variance Requests

10.1 Do you intend to request or renew one or more of the variances authorized at 40 CFR 122.21(m)? (Check all that apply. Consult with your NPDES permitting authority to determine what information needs to be submitted and when.)

☐ Fundamentally different factors (CWA Section 301(n))	☐ Water quality related effluent limitations (CWA Section 302(b)(2))
☐ Non-conventional pollutants (CWA Section 301(c) and (g))	☐ Thermal discharges (CWA Section 316(a))
☑ Not applicable	

EPA Identification Number	NPDES Permit Number	Facility Name	Form Approved 03/05/19 OMB No. 2040-0004
ALD008149858	AL0002801	Kimberly-Clark Corp	

SECTION 11. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d))

Checklist and Certification Statement

11.1 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
☑ Section 1: Activities Requiring an NPDES Permit	☐ w/ attachments
☑ Section 2: Name, Mailing Address, and Location	☐ w/ attachments
☑ Section 3: SIC Codes	☐ w/ attachments
☑ Section 4: Operator Information	☐ w/ attachments
☑ Section 5: Indian Land	☐ w/ attachments
☑ Section 6: Existing Environmental Permits	☐ w/ attachments
☑ Section 7: Map	☑ w/ topographic map ☐ w/ additional attachments
☑ Section 8: Nature of Business	☐ w/ attachments
☐ Section 9: Cooling Water Intake Structures	☐ w/ attachments
☑ 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
Nick Engebos	Mobile Mill Facility Manager
Signature	Date signed

EPA Identification Number	NPDES Permit Number	Facility Name	Form Approved 03/05/19 OMB No. 2040-0004
ALD008149858	AL0002801	Kimberly-Clark Corp.	

Form 2C NPDES

EPA

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

EXISTING MANUFACTURING, COMMERCIAL, MINING, AND SILVICULTURE OPERATIONS

SECTION 1. OUTFALL LOCATION (40 CFR 122.21(g)(1))

Outfall Location

1.1 Provide information on each of the facility's outfalls in the table below.

Outfall Number	Receiving Water Name	Latitude	Longitude
DSN001	Mobile River	30° 44′ 45″ N	88° 2′ 30″ W
		° ′ ″	° ′ ″
		° ′ ″	° ′ ″

SECTION 2. LINE DRAWING (40 CFR 122.21(g)(2))

Line Drawing

2.1 Have you attached a line drawing to this application that shows the water flow through your facility with a water balance? (See instructions for drawing requirements. See Exhibit 2C–1 at end of instructions for example.)

☑ Yes ☐ No

SECTION 3. AVERAGE FLOWS AND TREATMENT (40 CFR 122.21(g)(3))

Average Flows and Treatment

3.1 For each outfall identified under Item 1.1, provide average flow and treatment information. Add additional sheets if necessary.

****Outfall Number**** DSN001

Operations Contributing to Flow

Operation	Average Flow
Production of tissue in a non-intergrated mill and production of tissue from waste paper	13.0 mgd
	mgd
	mgd
	mgd

Treatment Units

Description (include 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
Screening Sedimentation	1-T 1-U	
Activated Sludge Chemical Conditioning	3-A 5-E	
Belt Filter / Screw Press	5-C	
Landfill	5-Q	Axis Industrial Landfill*

* The sludge that is shipped to the landfill (approximately 11,000 tons/month) is used as alternative daily cover.

EPA Identification Number	NPDES Permit Number	Facility Name	Form Approved 03/05/19 OMB No. 2040-0004
ALD008149858	AL0002801	Kimberly-Clark Corp.	

Average Flows and Treatment Continued

3.1 cont.

****Outfall Number**** _____

Operations Contributing to Flow

Operation	Average Flow
	mgd
	mgd
	mgd
	mgd

Treatment Units

Description (include 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

****Outfall Number**** _____

Operations Contributing to Flow

Operation	Average Flow
	mgd
	mgd
	mgd
	mgd

Treatment Units

Description (include 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

System Users

3.2 Are you applying for an NPDES permit to operate a privately owned treatment works?

☐ Yes ☑ No ➔ SKIP to Section 4.

3.3 Have you attached a list that identifies each user of the treatment works?

☐ Yes ☐ No

EPA Identification Number	NPDES Permit Number	Facility Name	Form Approved 03/05/19 OMB No. 2040-0004
ALD008149858	AL0002801	Kimberly-Clark Corp.	

SECTION 4. INTERMITTENT FLOWS (40 CFR 122.21(g)(4))

Intermittent Flows

4.1 Except for storm runoff, leaks, or spills, are any discharges described in Sections 1 and 3 intermittent or seasonal?

☐ Yes ☑ No ➔ SKIP to Section 5.

4.2 Provide information on intermittent or seasonal flows for each applicable outfall. Attach additional pages, if necessary.

Outfall Number	Operation (list)	Frequency		Flow Rate		Duration
		Average Days/Week	Average Months/Year	Long-Term Average	Maximum Daily	
		days/week	months/year	mgd	mgd	days
		days/week	months/year	mgd	mgd	days
		days/week	months/year	mgd	mgd	days
		days/week	months/year	mgd	mgd	days
		days/week	months/year	mgd	mgd	days
		days/week	months/year	mgd	mgd	days
		days/week	months/year	mgd	mgd	days
		days/week	months/year	mgd	mgd	days
		days/week	months/year	mgd	mgd	days

SECTION 5. PRODUCTION (40 CFR 122.21(g)(5))

Applicable ELGs

5.1 Do any effluent limitation guidelines (ELGs) promulgated by EPA under Section 304 of the CWA apply to your facility?

☑ Yes ☐ No ➔ SKIP to Section 6.

5.2 Provide the following information on applicable ELGs.

ELG Category	ELG Subcategory	Regulatory Citation
Pulp, Paper, and Fiberboard Mfg. Point Source Category	Secondary Fiber Non-Deink Subcategory	40 CFR 430, Subpart J

Production-Based Limitations

5.3 Are any of the applicable ELGs expressed in terms of production (or other measure of operation)?

☑ Yes ☐ No ➔ SKIP to Section 6.

5.4 Provide an actual measure of daily production expressed in terms and units of applicable ELGs.

Outfall Number	Operation, Product, or Material	Quantity per Day	Unit of Measure
DSN001	Production of tissue paper in a non-intergrated mill	1,526,703	lbs/day
	Production of tissue/towel from waste (recycled fiber)	500,967	lbs/day
	Production of tissue/towel from waste (used corrugated container)	186,233	lbs/day

SECTION 6. IMPROVEMENTS (40 CFR 122.21(g)(6))

Upgrades and Improvements

6.1 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 → SKIP to Item 6.3.

6.2 Briefly identify each applicable project in the table below.

Brief Identification and Description of Project	Affected Outfalls (list outfall number)	Source(s) of Discharge	Final Compliance Dates	
			Required	Projected

6.3 Have you attached sheets describing any additional water pollution control programs (or other environmental projects that may affect your discharges) that you now have underway or planned? *(optional item)*

☐ Yes ☐ No ☑ Not applicable

SECTION 7. EFFLUENT AND INTAKE CHARACTERISTICS (40 CFR 122.21(g)(7))

Effluent and Intake Characteristics

See the instructions to determine the pollutants and parameters you are required to monitor and, in turn, the tables you must complete. Not all applicants need to complete each table.

Table A. Conventional and Non-Conventional Pollutants

7.1 Are you requesting a waiver from your NPDES permitting authority for one or more of the Table A pollutants for any of your outfalls?

☐ Yes ☑ No → SKIP to Item 7.3.

7.2 If yes, indicate the applicable outfalls below. Attach waiver request and other required information to the application.

Outfall Number _____ Outfall Number _____ Outfall Number _____

7.3 Have you completed monitoring for all Table A pollutants at each of your outfalls for which a waiver has not been requested and attached the results to this application package?

☑ Yes ☐ No; a waiver has been requested from my NPDES permitting authority for all pollutants at all outfalls.

Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants

7.4 Do any of the facility's processes that contribute wastewater fall into one or more of the primary industry categories listed in Exhibit 2C-3? (See end of instructions for exhibit.)

☑ Yes ☐ No → SKIP to Item 7.8.

7.5 Have you checked "Testing Required" for all toxic metals, cyanide, and total phenols in Section 1 of Table B?

☑ Yes ☐ No

7.6 List the applicable primary industry categories and check the boxes indicating the required GC/MS fraction(s) identified in Exhibit 2C-3.

Primary Industry Category	Required GC/MS Fraction(s) (Check applicable boxes.)			
Pulp and paperboard mills	☑ Volatile	☑ Acid	☑ Base/Neutral	☑ Pesticide
	☐ Volatile	☐ Acid	☐ Base/Neutral	☐ Pesticide
	☐ Volatile	☐ Acid	☐ Base/Neutral	☐ Pesticide

Effluent and Intake Characteristics Continued

7.7	Have you checked "Testing Required" for all required pollutants in Sections 2 through 5 of Table B for each of the GC/MS fractions checked in Item 7.6? ☑ Yes ☐ No
7.8	Have you checked "Believed Present" or "Believed Absent" for all pollutants listed in Sections 1 through 5 of Table B where testing is not required? ☑ Yes ☐ No
7.9	Have you provided (1) quantitative data for those Section 1, Table B, pollutants for which you have indicated testing is required or (2) quantitative data or other required information for those Section 1, Table B, pollutants that you have indicated are "Believed Present" in your discharge? ☑ Yes ☐ No
7.10	Does the applicant qualify for a small business exemption under the criteria specified in the instructions? ☐ Yes ➔ Note that you qualify at the top of Table B, then SKIP to Item 7.12. ☑ No
7.11	Have you provided (1) quantitative data for those Sections 2 through 5, Table B, pollutants for which you have determined testing is required or (2) quantitative data or an explanation for those Sections 2 through 5, Table B, pollutants you have indicated are "Believed Present" in your discharge? ☑ Yes ☐ No
Table C. Certain Conventional and Non-Conventional Pollutants	
7.12	Have you indicated whether pollutants are "Believed Present" or "Believed Absent" for all pollutants listed on Table C for all outfalls? ☑ Yes ☐ No
7.13	Have you completed Table C by providing (1) quantitative data for those pollutants that are limited either directly or indirectly in an ELG and/or (2) quantitative data or an explanation for those pollutants for which you have indicated "Believed Present"? ☑ Yes ☐ No
Table D. Certain Hazardous Substances and Asbestos	
7.14	Have you indicated whether pollutants are "Believed Present" or "Believed Absent" for all pollutants listed in Table D for all outfalls? ☑ Yes ☐ No
7.15	Have you completed Table D by (1) describing the reasons the applicable pollutants are expected to be discharged and (2) by providing quantitative data, if available? ☑ Yes ☐ No
Table E. 2,3,7,8-Tetrachlorodibenzo-p-Dioxin (2,3,7,8-TCDD)	
7.16	Does the facility use or manufacture one or more of the 2,3,7,8-TCDD congeners listed in the instructions, or do you know or have reason to believe that TCDD is or may be present in the effluent? ☐ Yes ➔ Complete Table E. ☑ No ➔ SKIP to Section 8.
7.17	Have you completed Table E by reporting *qualitative* data for TCDD? ☑ Yes ☐ No

SECTION 8. USED OR MANUFACTURED TOXICS (40 CFR 122.21(g)(9))

Used or Manufactured Toxics

8.1	Is any pollutant listed in Table B a substance or a component of a substance used or manufactured at your facility as an intermediate or final product or byproduct? ☐ Yes ☑ No ➔ SKIP to Section 9.
8.2	List the pollutants below.

1.	4.	7.
2.	5.	8.
3.	6.	9.

SECTION 9. BIOLOGICAL TOXICITY TESTS (40 CFR 122.21(g)(11))

Biological Toxicity Tests

9.1 Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made within the last three years on (1) any of your discharges or (2) on a receiving water in relation to your discharge?

☑ Yes ☐ No → SKIP to Section 10.

9.2 Identify the tests and their purposes below. **Test results are submitted annually to ADEM as required by NPDES permit**

Test(s)	Purpose of Test(s)	Submitted to NPDES Permitting Authority?	Date Submitted
Pass/Fail Static 48 hr Acute Cyprinodon variegatus	As required by NPDES Permit	☑ Yes ☐ No	
Pass/Fail Static 48 hr Acute Mysidopsis Bahia	As required by NPDES Permit	☑ Yes ☐ No	
		☐ Yes ☐ No	

SECTION 10. CONTRACT ANALYSES (40 CFR 122.21(g)(12))

Contract Analyses

10.1 Were any of the analyses reported in Section 7 performed by a contract laboratory or consulting firm?

☑ Yes ☐ No → SKIP to Section 11.

10.2 Provide information for each contract laboratory or consulting firm below.

	Laboratory Number 1	Laboratory Number 2	Laboratory Number 3
Name of laboratory/firm	Micro Method		
Laboratory address	6500 Suplex Drive Ocean Springs, MS 39564		
Phone number	(228) 875-6420		
Pollutant(s) analyzed	Volatile, Acid, Base Neutral, Peticides, BOD, COD, TOC, TSS, Ammonia, Metals, Chlorine, Bromide, Fecal Coliform, Fluoride, Nitrate/Nitirite,		

SECTION 11. ADDITIONAL INFORMATION (40 CFR 122.21(g)(13))

Additional Information

11.1 Has the NPDES permitting authority requested additional information?

☐ Yes ☑ No → SKIP to Section 12.

11.2 List the information requested and attach it to this application.

1.	4.
2.	5.
3.	6.

EPA Identification Number	NPDES Permit Number	Facility Name	Form Approved 03/05/19 OMB No. 2040-0004
ALD008149858	ALD0002801	Kimberly-Clark Corp.	

SECTION 12. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d))

Checklist and Certification Statement

12.1 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			
☑ Section 1: Outfall Location	☑ w/ attachments			
☑ Section 2: Line Drawing	☑ w/ line drawing	☐ w/ additional attachments		
☑ Section 3: Average Flows and Treatment	☐ w/ attachments	☐ w/ list of each user of privately owned treatment works		
☑ Section 4: Intermittent Flows	☐ w/ attachments			
☑ Section 5: Production	☐ w/ attachments			
☑ Section 6: Improvements	☐ w/ attachments	☐ w/ optional additional sheets describing any additional pollution control plans		
☑ Section 7: Effluent and Intake Characteristics	☐ w/ request for a waiver and supporting information	☐ w/ explanation for identical outfalls		
	☐ w/ small business exemption request	☐ w/ other attachments		
	☑ w/ Table A	☑ w/ Table B		
	☑ w/ Table C	☑ w/ Table D		
	☐ w/ Table E	☐ w/ analytical results as an attachment		
☑ Section 8: Used or Manufactured Toxics	☐ w/ attachments			
☑ Section 9: Biological Toxicity Tests	☐ w/ attachments			
☑ Section 10: Contract Analyses	☐ w/ attachments			
☑ Section 11: Additional Information	☐ w/ attachments			
☑ Section 12: Checklist and Certification Statement	☐ w/ attachments			

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
Nick Engebos	Mobile Mill Facility Manager
Signature	Date signed

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD008149858	ALD0002801	Kimberly-Clark Corp.	DSN001

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

TABLE A. CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(iii))[1]

	Pollutant	Waiver Requested (if applicable)	Units (specify)		Effluent: Maximum Daily Discharge (required)	Effluent: Maximum Monthly Discharge (if available)	Effluent: Long-Term Average Daily Discharge (if available)	Effluent: Number of Analyses	Intake (Optional): Long-Term Average Value	Intake (Optional): Number of Analyses
☐	Check here if you have applied to your NPDES permitting authority for a waiver for *all* of the pollutants listed on this table for the noted outfall.									
1.	Biochemical oxygen demand (BOD_5)	☐	Concentration	mg/L	68		31.88	650		
			Mass	lbs	6,781		2966	650		
2.	Chemical oxygen demand (COD)	☐	Concentration	mg/L	26.0			1		
			Mass	lbs	2,615			1		
3.	Total organic carbon (TOC)	☐	Concentration	mg/L	9.14			1		
			Mass	lbs	919			1		
4.	Total suspended solids (TSS)	☐	Concentration	mg/L	239.86		52.60	650		
			Mass	lbs	23,219		5,011	650		
5.	Ammonia (as N)	☐	Concentration	mg/L	0.25			1		
			Mass	lbs	25.15					
6.	Flow	☐	Rate	MGD	27.36		13.07	912		
7.	Temperature (winter)	☐	°C	°C	27.8		21	365		
	Temperature (summer)	☐	°C	°C	36.1		28.1	365		
8.	pH (minimum)	☐	Standard units	s.u.	6.8		7.27	650		
	pH (maximum)	☐	Standard units	s.u.	8.0		7.64	650		

[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	Outfall Number
ALD008149858	ALD0002801	Kimberly-Clark Corp.	DSN001

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

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			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 qualify as a small business per the instructions to Form 2C and, therefore, do not need to submit quantitative data for any of the organic toxic pollutants in Sections 2 through 5 of this table. Note, however, that you must still indicate in the appropriate column of this table if you believe any of the pollutants listed are present in your discharge.											
Section 1. Toxic Metals, Cyanide, and Total Phenols												
1.1	Antimony, total (7440-36-0)	☑	☐	☑	Concentration	mg/L	ND			1		
					Mass							
1.2	Arsenic, total (7440-38-2)	☑	☐	☑	Concentration	mg/L	ND			1		
					Mass							
1.3	Beryllium, total (7440-41-7)	☑	☐	☑	Concentration	mg/L	ND			1		
					Mass							
1.4	Cadmium, total (7440-43-9)	☑	☐	☑	Concentration	mg/L	ND			1		
					Mass							
1.5	Chromium, total (7440-47-3)	☑	☐	☑	Concentration	mg/L	ND			1		
					Mass							
1.6	Copper, total (7440-50-8)	☑	☐	☑	Concentration	mg/L	ND			1		
					Mass							
1.7	Lead, total (7439-92-1)	☑	☐	☑	Concentration	mg/L	ND			1		
					Mass							
1.8	Mercury, total (7439-97-6)	☑	☐	☑	Concentration	ng/L	ND			1		
					Mass							
1.9	Nickel, total (7440-02-0)	☑	☐	☑	Concentration	mg/L	ND			1		
					Mass							
1.10	Selenium, total (7782-49-2)	☑	☐	☑	Concentration	mg/L	ND			1		
					Mass							
1.11	Silver, total (7440-22-4)	☐	☐	☑	Concentration	mg/L	ND			1		
					Mass							

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD008149858	ALD0002801	Kimberly-Clark Corp.	DSN001

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

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	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			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)	☑	☐	☑	Concentration	mg/L	ND			1		
					Mass							
1.13	Zinc, total (7440-66-6)	☑	☐	☑	Concentration	mg/L	ND			1		
					Mass							
1.14	Cyanide, total (57-12-5)	☑	☐	☑	Concentration	mg/L	ND			1		
					Mass							
1.15	Phenols, total	☑	☐	☑	Concentration	mg/L	ND			1		
					Mass							
Section 2. Organic Toxic Pollutants (GC/MS Fraction—Volatile Compounds)												
2.1	Acrolein (107-02-8)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
2.2	Acrylonitrile (107-13-1)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
2.3	Benzene (71-43-2)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
2.4	Bromoform (75-25-2)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
2.5	Carbon tetrachloride (56-23-5)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
2.6	Chlorobenzene (108-90-7)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
2.7	Chlorodibromomethane (124-48-1)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
2.8	Chloroethane (75-00-3)	☑	☐	☐	Concentration	ug/L	ND			1		
					Mass							

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD008149858	ALD0002801	Kimberly-Clark Corp.	DSN001

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

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			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
2.9	2-chloroethylvinyl ether (110-75-8)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
2.10	Chloroform (67-66-3)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
2.11	Dichlorobromomethane (75-27-4)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
2.12	1,1-dichloroethane (75-34-3)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
2.13	1,2-dichloroethane (107-06-2)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
2.14	1,1-dichloroethylene (75-35-4)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
2.15	1,2-dichloropropane (78-87-5)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
2.16	1,3-dichloropropylene (542-75-6)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
2.17	Ethylbenzene (100-41-4)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
2.18	Methyl bromide (74-83-9)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
2.19	Methyl chloride (74-87-3)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
2.20	Methylene chloride (75-09-2)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
2.21	1,1,2,2- tetrachloroethane (79-34-5)	☑	☐	☐	Concentration	ug/L	ND			1		
					Mass							

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD008149858	ALD0002801	Kimberly-Clark Corp.	DSN001

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

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	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			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
2.22	Tetrachloroethylene (127-18-4)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
2.23	Toluene (108-88-3)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
2.24	1,2-trans-dichloroethylene (156-60-5)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
2.25	1,1,1-trichloroethane (71-55-6)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
2.26	1,1,2-trichloroethane (79-00-5)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
2.27	Trichloroethylene (79-01-6)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
2.28	Vinyl chloride (75-01-4)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
Section 3. Organic Toxic Pollutants (GC/MS Fraction—Acid Compounds)												
3.1	2-chlorophenol (95-57-8)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
3.2	2,4-dichlorophenol (120-83-2)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
3.3	2,4-dimethylphenol (105-67-9)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
3.4	4,6-dinitro-o-cresol (534-52-1)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
3.5	2,4-dinitrophenol (51-28-5)	☐	☐	☑	Concentration	ug/L	ND			1		
					Mass							

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD008149858	ALD0002801	Kimberly-Clark Corp.	DSN001

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

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			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	ug/L	ND			1		
					Mass							
3.7	4-nitrophenol (100-02-7)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
3.8	p-chloro-m-cresol (59-50-7)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
3.9	Pentachlorophenol (87-86-5)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
3.10	Phenol (108-95-2)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
3.11	2,4,6-trichlorophenol (88-05-2)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
Section 4. Organic Toxic Pollutants (GC/MS Fraction—Base /Neutral Compounds)												
4.1	Acenaphthene (83-32-9)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
4.2	Acenaphthylene (208-96-8)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
4.3	Anthracene (120-12-7)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
4.4	Benzidine (92-87-5)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
4.5	Benzo (a) anthracene (56-55-3)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
4.6	Benzo (a) pyrene (50-32-8)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD008149858	ALD0002801	Kimberly-Clark Corp.	DSN001

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

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	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			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	ug/L	ND			1		
					Mass							
4.8	Benzo (ghi) perylene (191-24-2)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
4.9	Benzo (k) fluoranthene (207-08-9)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
4.10	Bis (2-chloroethoxy) methane (111-91-1)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
4.11	Bis (2-chloroethyl) ether (111-44-4)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
4.12	Bis (2-chloroisopropyl) ether (102-80-1)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
4.13	Bis (2-ethylhexyl) phthalate (117-81-7)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
4.14	4-bromophenyl phenyl ether (101-55-3)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
4.15	Butyl benzyl phthalate (85-68-7)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
4.16	2-chloronaphthalene (91-58-7)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
4.17	4-chlorophenyl phenyl ether (7005-72-3)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
4.18	Chrysene (218-01-9)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
4.19	Dibenzo (a,h) anthracene (53-70-3)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD008149858	ALD0002801	Kimberly-Clark Corp.	DSN001

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

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			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 (95-50-1)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
4.21	1,3-dichlorobenzene (541-73-1)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
4.22	1,4-dichlorobenzene (106-46-7)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
4.23	3,3-dichlorobenzidine (91-94-1)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
4.24	Diethyl phthalate (84-66-2)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
4.25	Dimethyl phthalate (131-11-3)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
4.26	Di-n-butyl phthalate (84-74-2)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
4.27	2,4-dinitrotoluene (121-14-2)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
4.28	2,6-dinitrotoluene (606-20-2)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
4.29	Di-n-octyl phthalate (117-84-0)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
4.30	1,2-Diphenylhydrazine (as azobenzene) (122-66-7)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
4.31	Fluoranthene (206-44-0)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
4.32	Fluorene (86-73-7)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD008149858	ALD0002801	Kimberly-Clark Corp.	DSN001

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

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			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
4.33	Hexachlorobenzene (118-74-1)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
4.34	Hexachlorobutadiene (87-68-3)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
4.35	Hexachlorocyclopentadiene (77-47-4)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
4.36	Hexachloroethane (67-72-1)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
4.37	Indeno (1,2,3-cd) pyrene (193-39-5)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
4.38	Isophorone (78-59-1)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
4.39	Naphthalene (91-20-3)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
4.40	Nitrobenzene (98-95-3)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
4.41	N-nitrosodimethylamine (62-75-9)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
4.42	N-nitrosodi-n-propylamine (621-64-7)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
4.43	N-nitrosodiphenylamine (86-30-6)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
4.44	Phenanthrene (85-01-8)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
4.45	Pyrene (129-00-0)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD008149858	ALD0002801	Kimberly-Clark Corp.	DSN001

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

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			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)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
Section 5. Organic Toxic Pollutants (GC/MS Fraction—Pesticides)												
5.1	Aldrin (309-00-2)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
5.2	α-BHC (319-84-6)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
5.3	β-BHC (319-85-7)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
5.4	γ-BHC (58-89-9)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
5.5	δ-BHC (319-86-8)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
5.6	Chlordane (57-74-9)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
5.7	4,4'-DDT (50-29-3)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
5.8	4,4'-DDE (72-55-9)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
5.9	4,4'-DDD (72-54-8)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
5.10	Dieldrin (60-57-1)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
5.11	α-endosulfan (115-29-7)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD008149858	ALD0002801	Kimberly-Clark Corp.	DSN001

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

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			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
5.12	β-endosulfan (115-29-7)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
5.13	Endosulfan sulfate (1031-07-8)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
5.14	Endrin (72-20-8)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
5.15	Endrin aldehyde (7421-93-4)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
5.16	Heptachlor (76-44-8)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
5.17	Heptachlor epoxide (1024-57-3)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
5.18	PCB-1242 (53469-21-9)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
5.19	PCB-1254 (11097-69-1)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
5.20	PCB-1221 (11104-28-2)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
5.21	PCB-1232 (11141-16-5)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
5.22	PCB-1248 (12672-29-6)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
5.23	PCB-1260 (11096-82-5)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							
5.24	PCB-1016 (12674-11-2)	☑	☐	☑	Concentration	ug/L	ND			1		
					Mass							

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

TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))[1]

	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)		Units (specify)		Effluent				Intake (optional)	
			Believed Present	Believed Absent			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)	☑	☐	☑	Concentration	ug/L	ND			1		
					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	Outfall Number
ALD008149858	ALD0002801	Kimberly-Clark Corp.	DSN001

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

TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))[1]

	Pollutant	Presence or Absence (check one)		Units (specify)		Effluent				Intake (Optional)	
		Believed Present	Believed Absent			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 believe all pollutants on Table C to be ***present*** in your discharge from the noted outfall. You need *not* complete the "Presence or Absence" column of Table C for *each* pollutant.										
☐	Check here if you believe all pollutants on Table C to be ***absent*** in your discharge from the noted outfall. You need *not* complete the "Presence or Absence" column of Table C for *each* pollutant.										
1.	Bromide (24959-67-9)	☑	☐	Concentration	mg/L	ND			1		
				Mass							
2.	Chlorine, total residual	☐	☑	Concentration							
				Mass							
3.	Color	☑	☐	Concentration	PCU	88			1		
				Mass							
4.	Fecal coliform	☑	☐	Concentration	CFM/100m	12			1		
				Mass							
5.	Fluoride (16984-48-8)	☐	☑	Concentration							
				Mass							
6	Nitrate-nitrite	☑	☐	Concentration	mg/L	2.5		1.72	14		
				Mass							
7.	Nitrogen, total organic (as N)	☑	☐	Concentration	mg/L	2.17		1.13	14		
				Mass							
8.	Oil and grease	☑	☐	Concentration	mg/L	ND			1		
				Mass							
9.	Phosphorus (as P), total (7723-14-0)	☑	☐	Concentration	mg/L	1.09		0.571	14		
				Mass							
10.	Sulfate (as SO_4) (14808-79-8)	☑	☐	Concentration	mg/L	64.8			1		
				Mass							
11.	Sulfide (as S)	☐	☑	Concentration							
				Mass							

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD008149858	ALD0002801	Kimberly-Clark Corp.	DSN001

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

TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))[1]

	Pollutant	Presence or Absence (check one)		Units (specify)		Effluent				Intake (Optional)	
		Believed Present	Believed Absent			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							
13.	Surfactants	☐	☑	Concentration							
				Mass							
14.	Aluminum, total (7429-90-5)	☐	☑	Concentration							
				Mass							
15.	Barium, total (7440-39-3)	☑	☐	Concentration	mg/L	0.0297			1		
				Mass							
16.	Boron, total (7440-42-8)	☑	☐	Concentration	mg/L	0.165			1		
				Mass							
17.	Cobalt, total (7440-48-4)	☐	☑	Concentration							
				Mass							
18.	Iron, total (7439-89-6)	☐	☑	Concentration							
				Mass							
19.	Magnesium, total (7439-95-4)	☑	☐	Concentration	mg/L	1.91			1		
				Mass							
20.	Molybdenum, total (7439-98-7)	☐	☑	Concentration							
				Mass							
21.	Manganese, total (7439-96-5)	☑	☐	Concentration	mg/L	0.00742			1		
				Mass							
22.	Tin, total (7440-31-5)	☐	☑	Concentration							
				Mass							
23.	Titanium, total (7440-32-6)	☐	☑	Concentration							
				Mass							

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD008149858	ALD0002801	Kimberly-Clark Corp.	DSN001

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

TABLE C. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(g)(7)(vi))[1]

	Pollutant	Presence or Absence (check one)		Units (specify)		Effluent				Intake (Optional)	
		Believed Present	Believed Absent			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
24.	**Radioactivity**										
	Alpha, total	☑	☐	Concentration	pCi/L	0.572			1		
				Mass							
	Beta, total	☑	☐	Concentration	pCi/L	1.362			1		
				Mass							
	Radium, total	☐	☑	Concentration							
				Mass							
	Radium 226, total	☑	☐	Concentration	pCi/L	0.610			1		
				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).

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))[1]

	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
1.	Asbestos	☐	☑		
2.	Acetaldehyde	☐	☑		
3.	Allyl alcohol	☐	☑		
4.	Allyl chloride	☐	☑		
5.	Amyl acetate	☐	☑		
6.	Aniline	☐	☑		
7.	Benzonitrile	☐	☑		
8.	Benzyl chloride	☐	☑		
9.	Butyl acetate	☐	☑		
10.	Butylamine	☐	☑		
11.	Captan	☐	☑		
12.	Carbaryl	☐	☑		
13.	Carbofuran	☐	☑		
14.	Carbon disulfide	☐	☑		
15.	Chlorpyrifos	☐	☑		
16.	Coumaphos	☐	☑		
17.	Cresol	☐	☑		
18.	Crotonaldehyde	☐	☑		
19.	Cyclohexane	☐	☑		

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))[1]

	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
20.	2,4-D (2,4-dichlorophenoxyacetic acid)	☐	☑		
21.	Diazinon	☐	☑		
22.	Dicamba	☐	☑		
23.	Dichlobenil	☐	☑		
24.	Dichlone	☐	☑		
25.	2,2-dichloropropionic acid	☐	☑		
26.	Dichlorvos	☐	☑		
27.	Diethyl amine	☐	☑		
28.	Dimethyl amine	☐	☑		
29.	Dintrobenzene	☐	☑		
30.	Diquat	☐	☑		
31.	Disulfoton	☐	☑		
32.	Diuron	☐	☑		
33.	Epichlorohydrin	☐	☑		
34.	Ethion	☐	☑		
35.	Ethylene diamine	☐	☑		
36.	Ethylene dibromide	☐	☑		
37.	Formaldehyde	☐	☑		
38.	Furfural	☐	☑		

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))[1]

	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
39.	Guthion	☐	☑		
40.	Isoprene	☐	☑		
41.	Isopropanolamine	☐	☑		
42.	Kelthane	☐	☑		
43.	Kepone	☐	☑		
44.	Malathion	☐	☑		
45.	Mercaptodimethur	☐	☑		
46.	Methoxychlor	☐	☑		
47.	Methyl mercaptan	☐	☑		
48.	Methyl methacrylate	☐	☑		
49.	Methyl parathion	☐	☑		
50.	Mevinphos	☐	☑		
51.	Mexacarbate	☐	☑		
52.	Monoethyl amine	☐	☑		
53.	Monomethyl amine	☐	☑		
54.	Naled	☐	☑		
55.	Naphthenic acid	☐	☑		
56.	Nitrotoluene	☐	☑		
57.	Parathion	☐	☑		

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))[1]

	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
58.	Phenolsulfonate	☐	☑		
59.	Phosgene	☐	☑		
60.	Propargite	☐	☑		
61.	Propylene oxide	☐	☑		
62.	Pyrethrins	☐	☑		
63.	Quinoline	☐	☑		
64.	Resorcinol	☐	☑		
65.	Strontium	☐	☑		
66.	Strychnine	☐	☑		
67.	Styrene	☐	☑		
68.	2,4,5-T (2,4,5-trichlorophenoxyacetic acid)	☐	☑		
69.	TDE (tetrachlorodiphenyl ethane)	☐	☑		
70.	2,4,5-TP [2-(2,4,5-trichlorophenoxy) propanoic acid]	☐	☑		
71.	Trichlorofon	☐	☑		
72.	Triethanolamine	☐	☑		
73.	Triethylamine	☐	☑		
74.	Trimethylamine	☐	☑		
75.	Uranium	☐	☑		
76.	Vanadium	☐	☑		

TABLE D. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(g)(7)(vii))[1]

	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
77.	Vinyl acetate	☐	☑		
78.	Xylene	☐	☑		
79.	Xylenol	☐	☑		
80.	Zirconium	☐	☑		

[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).

TABLE E. 2,3,7,8 TETRACHLORODIBENZO P DIOXIN (2,3,7,8 TCDD) (40 CFR 122.21(g)(7)(viii))

Pollutant	TCDD Congeners Used or Manufactured	Presence or Absence (check one)		Results of Screening Procedure
		Believed Present	Believed Absent	
2,3,7,8-TCDD	☐	☐	☑	Analytical results of the water sample collected on 8/25/2022 are less than Laboratory Method Detection limits

EPA Identification Number	NPDES Permit Number	Facility Name	Form Approved 03/05/19 OMB No. 2040-0004
ALD008149858	ALD0002801	Kimberly-Clark Corp.	

FORM 2E NPDES

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

MANUFACTURING, COMMERCIAL, MINING, AND SILVICULTURAL FACILITIES WHICH DISCHARGE ONLY NONPROCESS WASTEWATER

SECTION 1. OUTFALL LOCATION (40 CFR 122.21(h)(1))

Outfall Location

1.1 Provide information on each of the facility's outfalls in the table below.

Outfall Number	Receiving Water Name	Latitude	Longitude
DSN007	Chickasaw Creek	30° 44′ 13″ N	88° 02′ 45″ W
		° ′ ″ N	° ′ ″ W
		° ′ ″	° ′ ″

SECTION 2. DISCHARGE DATE (40 CFR 122.21(h)(2))

Discharge Date

2.1 Are you a new or existing discharger? (Check only one response.)

☐ New discharger ☑ Existing discharger → SKIP to Section 3.

2.2 Specify your anticipated discharge date:

SECTION 3. WASTE TYPES (40 CFR 122.21(h)(3))

Waste Types

3.1 What types of wastes are currently being discharged if you are an existing discharger or will be discharged if you are a new discharger? (Check all that apply.)

☐ Sanitary wastes
☐ Restaurant or cafeteria waste
☑ Non-contact cooling water
☐ Other nonprocess wastewater (describe/explain directly below)

3.2 Does the facility use cooling water additives?

☐ Yes ☐ No → SKIP to Section 4.

3.3 List the cooling water additives used and describe their composition.

Cooling Water Additives (list)	Composition of Additives (if available to you)
N/A	

SECTION 4. EFFLUENT CHARACTERISTICS (40 CFR 122.21(h)(4))

Effluent Characteristics

4.1 Have you completed monitoring for all parameters in the table below at each of your outfalls and attached the results to this application package?

☑ Yes ☐ No; a waiver has been requested from my NPDES permitting authority (attach waiver request and additional information) → SKIP to Section 5.

4.2 Provide data as requested in the table below.[1] (See instructions for specifics.)

Parameter or Pollutant	Number of Analyses (if actual data reported)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Source (use codes per instructions)
		Mass	Conc.	Mass	Conc.	
Biochemical oxygen demand (BOD_5)	1		14 mg/L			
Total suspended solids (TSS)	1		5.3mg/L			
Oil and grease	1		<5.7 mg/L			
Ammonia (as N)	1		0.21mg/L			
Discharge flow	12	0.0137 MGD				
pH (report as range)						
Temperature (winter)	12	18.3 C				
Temperature (summer)	12	32.2 C				

[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).

Effluent Characteristics Continued

4.3 Is fecal coliform believed present, or is sanitary waste discharged (or will it be discharged)?

☐ Yes ☑ No ➔ SKIP to Item 4.5.

4.4 Provide data as requested in the table below.[1] (See instructions for specifics.)

Parameter or Pollutant	Number of Analyses (if actual data reported)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Source (Use codes per Instructions.)
		Mass	Conc.	Mass	Conc.	
Fecal coliform	1		600 cfu/100			
E. coli						
Enterococci						

4.5 Is chlorine used (or will it be used)?

☐ Yes ☑ No ➔ SKIP to Item 4.7.

4.6 Provide data as requested in the table below.[1] (See instructions for specifics.)

Parameter or Pollutant	Number of Analyses (if actual data reported)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Source (use codes per instructions)
		Mass	Conc.	Mass	Conc.	
Total Residual Chlorine (mg/L)	12		0.011			

4.7 Is non-contact cooling water discharged (or will it be discharged)?

☑ Yes ☐ No ➔ SKIP to Section 5.

4.8 Provide data as requested in the table below.[1] (See instructions for specifics.)

Parameter or Pollutant	Number of Analyses (if actual data reported)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Source (use codes per instructions)
		Mass	Conc.	Mass	Conc.	
Chemical oxygen demand (COD)	1		20 mg/L			
Total organic carbon (TOC)	1		5.22 mg/L			

SECTION 5. FLOW (40 CFR 122.21(h)(5))

Flow

5.1 Except for stormwater water runoff, leaks, or spills, are any of the discharges you described in Sections 1 and 3 of this application intermittent or seasonal?

☐ Yes ➔ Complete this section. ☑ No ➔ SKIP to Section 6.

5.2 Briefly describe the frequency and duration of flow.

SECTION 6. TREATMENT SYSTEM (40 CFR 122.21(h)(6))

Treatment System

6.1 Briefly describe any treatment system(s) used (or to be used).

Three skimming pipes attached to one pump are located in the catch basin prior to the DSN-007 outfall

[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).

SECTION 7. OTHER INFORMATION (40 CFR 122.21(h)(7))

Other Information

7.1 Use the space below to expand upon any of the above items. Use this space to provide any information you believe the reviewer should consider in establishing permit limitations. Attach additional sheets as needed.

SECTION 8. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d))

Checklist and Certification Statement

8.1 In Column 1 below, mark the sections of Form 2E 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
☑ Section 1: Outfall Location	☐ w/ attachments (e.g., responses for additional outfalls)
☑ Section 2: Discharge Date	☐ w/ attachments
☑ Section 3: Waste Types	☐ w/ attachments
☑ Section 4: Effluent Characteristics	☐ w/ attachments
☑ Section 5: Flow	☐ w/ attachments
☑ Section 6: Treatment System	☐ w/ attachments
☑ Section 7: Other Information	☐ w/ attachments
☑ Section 8: Checklist and Certification Statement	☐ w/ attachments

8.2 **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
Nick Engebos	Mobile Mill Facility Manager
Signature	Date signed

EPA Identification Number	NPDES Permit Number	Facility Name	Form Approved 03/05/19 OMB No. 2040-0004
ALD008149858	ALD0002801	Kimberly-Clark Corp.	

FORM 2E NPDES

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

MANUFACTURING, COMMERCIAL, MINING, AND SILVICULTURAL FACILITIES WHICH DISCHARGE ONLY NONPROCESS WASTEWATER

SECTION 1. OUTFALL LOCATION (40 CFR 122.21(h)(1))

Outfall Location

1.1 Provide information on each of the facility's outfalls in the table below.

Outfall Number	Receiving Water Name	Latitude	Longitude
DSN012	Chickasaw Creek	30° 44′ 16″ N	88° 03′ 06″ W
		° ′ ″ N	° ′ ″ W
		° ′ ″	° ′ ″

SECTION 2. DISCHARGE DATE (40 CFR 122.21(h)(2))

Discharge Date

2.1 Are you a new or existing discharger? (Check only one response.)

☐ New discharger ☑ Existing discharger ➔ SKIP to Section 3.

2.2 Specify your anticipated discharge date:

SECTION 3. WASTE TYPES (40 CFR 122.21(h)(3))

Waste Types

3.1 What types of wastes are currently being discharged if you are an existing discharger or will be discharged if you are a new discharger? (Check all that apply.)

☐ Sanitary wastes
☐ Restaurant or cafeteria waste
☑ Non-contact cooling water
☐ Other nonprocess wastewater (describe/explain directly below)

3.2 Does the facility use cooling water additives?

☐ Yes ☐ No ➔ SKIP to Section 4.

3.3 List the cooling water additives used and describe their composition.

Cooling Water Additives (list)	Composition of Additives (if available to you)
N/A	

SECTION 4. EFFLUENT CHARACTERISTICS (40 CFR 122.21(h)(4))

Effluent Characteristics

4.1 Have you completed monitoring for all parameters in the table below at each of your outfalls and attached the results to this application package?

☑ Yes ☐ No; a waiver has been requested from my NPDES permitting authority (attach waiver request and additional information) ➔ SKIP to Section 5.

4.2 Provide data as requested in the table below.[1] (See instructions for specifics.)

Parameter or Pollutant	Number of Analyses (if actual data reported)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Source (use codes per instructions)
		Mass	Conc.	Mass	Conc.	
Biochemical oxygen demand (BOD_5)	1		12 mg/L			
Total suspended solids (TSS)	1		2.7 mg/L			
Oil and grease	1		<5.0 mg/L			
Ammonia (as N)	1		<0.21mg/L			
Discharge flow	12	0.007 MGD				
pH (report as range)						
Temperature (winter)	12	15.56 C				
Temperature (summer)	12	30.0 C				

[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
ALD008149858	ALD0002801	Kimberly-Clark Corp.	

Effluent Characteristics Continued

4.3 Is fecal coliform believed present, or is sanitary waste discharged (or will it be discharged)?

☐ Yes ☑ No ➔ SKIP to Item 4.5.

4.4 Provide data as requested in the table below.[1] (See instructions for specifics.)

Parameter or Pollutant	Number of Analyses (if actual data reported)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Source (Use codes per Instructions.)
		Mass	Conc.	Mass	Conc.	
Fecal coliform	1		225 CFU/100			
E. coli						
Enterococci						

4.5 Is chlorine used (or will it be used)?

☐ Yes ☑ No ➔ SKIP to Item 4.7.

4.6 Provide data as requested in the table below.[1] (See instructions for specifics.)

Parameter or Pollutant	Number of Analyses (if actual data reported)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Source (use codes per instructions)
		Mass	Conc.	Mass	Conc.	
Total Residual Chlorine (mg/L)	12		0.0080			

4.7 Is non-contact cooling water discharged (or will it be discharged)?

☑ Yes ☐ No ➔ SKIP to Section 5.

4.8 Provide data as requested in the table below.[1] (See instructions for specifics.)

Parameter or Pollutant	Number of Analyses (if actual data reported)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Source (use codes per instructions)
		Mass	Conc.	Mass	Conc.	
Chemical oxygen demand (COD)	1		18 mg/L			
Total organic carbon (TOC)	1		7.20 mg/L			

SECTION 5. FLOW (40 CFR 122.21(h)(5))

Flow

5.1 Except for stormwater water runoff, leaks, or spills, are any of the discharges you described in Sections 1 and 3 of this application intermittent or seasonal?

☐ Yes ➔ Complete this section. ☑ No ➔ SKIP to Section 6.

5.2 Briefly describe the frequency and duration of flow.

SECTION 6. TREATMENT SYSTEM (40 CFR 122.21(h)(6))

Treatment System

6.1 Briefly describe any treatment system(s) used (or to be used).

n/a

[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).

SECTION 7. OTHER INFORMATION (40 CFR 122.21(h)(7))

Other Information

7.1 Use the space below to expand upon any of the above items. Use this space to provide any information you believe the reviewer should consider in establishing permit limitations. Attach additional sheets as needed.

SECTION 8. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d))

Checklist and Certification Statement

8.1 In Column 1 below, mark the sections of Form 2E 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
☐ Section 1: Outfall Location	☐ w/ attachments (e.g., responses for additional outfalls)
☐ Section 2: Discharge Date	☐ w/ attachments
☐ Section 3: Waste Types	☐ w/ attachments
☐ Section 4: Effluent Characteristics	☐ w/ attachments
☐ Section 5: Flow	☐ w/ attachments
☐ Section 6: Treatment System	☐ w/ attachments
☐ Section 7: Other Information	☐ w/ attachments
☐ Section 8: Checklist and Certification Statement	☐ w/ attachments

8.2 **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
Nick Engebos	Mobile Mill Facility Manager
Signature	Date signed

EPA Identification Number	NPDES Permit Number	Facility Name
ALD008149858	AL0002801	Kimberly-Clark Corp.

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

Form 2F NPDES

EPA

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

STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY

SECTION 1. OUTFALL LOCATION (40 CFR 122.21(g)(1))

Outfall Location

1.1 Provide information on each of the facility's outfalls in the table below. **SEE ATTACHMENT 1**

Outfall Number	Receiving Water Name	Latitude	Longitude
		° ' "	° ' "
		° ' "	° ' "
		° ' "	° ' "
		° ' "	° ' "
		° ' "	° ' "
		° ' "	° ' "

SECTION 2. IMPROVEMENTS (40 CFR 122.21(g)(6))

Improvements

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 → SKIP to Section 3.

2.2 Briefly identify each applicable project in the table below.

Brief Identification and Description of Project	Affected Outfalls (list outfall numbers)	Source(s) of Discharge	Final Compliance Dates	
			Required	Projected

2.3 Have you attached sheets describing any additional water pollution control programs (or other environmental projects that may affect your discharges) that you now have underway or planned? (Optional Item)

☐ Yes ☐ No

EPA Identification Number	NPDES Permit Number	Facility Name	Form Approved 03/05/19 OMB No. 2040-0004
ALD008149858	AL0002801	Kimberly-Clark Corp.	

SECTION 3. SITE DRAINAGE MAP (40 CFR 122.26(c)(1)(i)(A))

Site Drainage Map

3.1 Have you attached a site drainage map containing all required information to this application? (See instructions for specific guidance.)

☑ Yes ☐ No

SECTION 4. POLLUTANT SOURCES (40 CFR 122.26(c)(1)(i)(B))

Pollutant Sources

4.1 Provide information on the facility's pollutant sources in the table below. **SEE ATTACHMENT 2.**

Outfall Number	Impervious Surface Area (within a mile radius of the facility)		Total Surface Area Drained (within a mile radius of the facility)	
		specify units		*specify units*
		specify units		*specify units*
		specify units		*specify units*
		specify units		*specify units*
		specify units		*specify units*
		specify units		*specify units*

4.2 Provide a narrative description of the facility's significant material in the space below. (See instructions for content requirements.)

This information is provided in the facility's Best Management Practices (BMP) plan

4.3 Provide the location and a description of existing structural and non-structural control measures to reduce pollutants in stormwater runoff. (See instructions for specific guidance.)

Stormwater Treatment		
Outfall Number	Control Measures and Treatment	Codes from Exhibit 2F–1 (list)
ALL	Control measures listed in the facility's BMP Plan	N/A
DSN007	Collection basin	N/A
DSN009	Retention Pond	N/A
DSN010	Retention Pond	

SECTION 5. NON STORMWATER DISCHARGES (40 CFR 122.26(c)(1)(i)(C))

Non-Stormwater Discharges

5.1 *I certify under penalty of law that the outfall(s) covered by this application have been tested or evaluated for the presence of non-stormwater discharges. Moreover, I certify that the outfalls identified as having non-stormwater discharges are described in either an accompanying NPDES Form 2C, 2D, or 2E application.*

Name (print or type first and last name)	Official title
Nick Engebos	Mobile Facility Manger
Signature	Date signed

5.2 Provide the testing information requested in the table below. **See Attachment 3**

Outfall Number	Description of Testing Method Used	Date(s) of Testing	Onsite Drainage Points Directly Observed During Test
	DSN007 and DSN012 are non-contact cooling water discharges identified in EPA Form 2E. Review of site drawings and direct observations indicate no non-stormwater discharges exist within DSN002 thru DSN006, DSN008 thru DSN011, DSN013, and DSN015 thru DSN021		

SECTION 6. SIGNIFICANT LEAKS OR SPILLS (40 CFR 122.26(c)(1)(i)(D))

Significant Leaks or Spills

6.1 Describe any significant leaks or spills of toxic or hazardous pollutants in the last three years.

A review of corporate records indicates that no significant leaks or spills of toxic or hazardous pollutants have occured at or in the vicinity of the stormwater outfalls with the last three years

SECTION 7. DISCHARGE INFORMATION (40 CFR 122.26(c)(1)(i)(E))

Discharge Information

See the instructions to determine the pollutants and parameters you are required to monitor and, in turn, the tables you must complete. Not all applicants need to complete each table.

7.1 Is this a new source or new discharge?

☐ Yes → See instructions regarding submission of *estimated* data. ☑ No → See instructions regarding submission of *actual* data.

Tables A, B, C, and D

7.2 Have you completed Table A for each outfall?

☑ Yes ☐ No

Discharge Information Continued

7.3	Is the facility subject to an effluent limitation guideline (ELG) or effluent limitations in an NPDES permit for its process wastewater? ☑ Yes ☐ No ➔ SKIP to Item 7.5.
7.4	Have you completed Table B by providing quantitative data for those pollutants that are (1) limited either directly or indirectly in an ELG and/or (2) subject to effluent limitations in an NPDES permit for the facility's process wastewater? ☑ Yes See Tables A & C for applicable pollutants ☐ No
7.5	Do you know or have reason to believe any pollutants in Exhibit 2F–2 are present in the discharge? ☑ Yes ☐ No ➔ SKIP to Item 7.7.
7.6	Have you listed all pollutants in Exhibit 2F–2 that you know or have reason to believe are present in the discharge and provided quantitative data or an explanation for those pollutants in Table C? ☑ Yes ☐ No
7.7	Do you qualify for a small business exemption under the criteria specified in the Instructions? ☐ Yes ➔ SKIP to Item 7.18. ☑ No
7.8	Do you know or have reason to believe any pollutants in Exhibit 2F–3 are present in the discharge? ☑ Yes ☐ No ➔ SKIP to Item 7.10.
7.9	Have you listed all pollutants in Exhibit 2F–3 that you know or have reason to believe are present in the discharge in Table C? ☑ Yes ☐ No
7.10	Do you expect any of the pollutants in Exhibit 2F–3 to be discharged in concentrations of 10 ppb or greater? ☐ Yes ☑ No ➔ SKIP to Item 7.12.
7.11	Have you provided quantitative data in Table C for those pollutants in Exhibit 2F–3 that you expect to be discharged in concentrations of 10 ppb or greater? ☑ 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 ☑ No ➔ SKIP to Item 7.14.
7.13	Have you provided quantitative data in Table C for the pollutants identified in Item 7.12 that you expect to be discharged in concentrations of 100 ppb or greater? ☑ Yes ☐ No
7.14	Have you provided quantitative data or an explanation in Table C for pollutants you expect to be present in the discharge at concentrations less than 10 ppb (or less than 100 ppb for the pollutants identified in Item 7.12)? ☑ Yes ☐ No
7.15	Do you know or have reason to believe any pollutants in Exhibit 2F–4 are present in the discharge? ☐ Yes ☑ No ➔ SKIP to Item 7.17.
7.16	Have you listed pollutants in Exhibit 2F–4 that you know or believe to be present in the discharge and provided an explanation in Table C? ☑ Yes ☐ No
7.17	Have you provided information for the storm event(s) sampled in Table D? ☑ Yes ☐ No

Discharge Information Continued

Used or Manufactured Toxics

7.18 Is any pollutant listed on Exhibits 2F–2 through 2F–4 a substance or a component of a substance used or manufactured as an intermediate or final product or byproduct?

☐ Yes ☑ No → SKIP to Section 8.

7.19 List the pollutants below, including TCDD if applicable.

1.	4.	7.
2.	5.	8.
3.	6.	9.

SECTION 8. BIOLOGICAL TOXICITY TESTING DATA (40 CFR 122.21(g)(11))

Biological Toxicity Testing Data

8.1 Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last three years?

☐ Yes ☑ No → SKIP to Section 9.

8.2 Identify the tests and their purposes below.

Test(s)	Purpose of Test(s)	Submitted to NPDES Permitting Authority?	Date Submitted
		☐ Yes ☐ No	
		☐ Yes ☐ No	
		☐ Yes ☐ No	

SECTION 9. CONTRACT ANALYSIS INFORMATION (40 CFR 122.21(g)(12))

Contract Analysis Information

9.1 Were any of the analyses reported in Section 7 (on Tables A through C) performed by a contract laboratory or consulting firm?

☑ Yes ☐ No → SKIP to Section 10.

9.2 Provide information for each contract laboratory or consulting firm below.

	Laboratory Number 1	Laboratory Number 2	Laboratory Number 3
Name of laboratory/firm	Micro-Methods Laboratory, Inc		
Laboratory address	6500 Sunplex Drive Ocean Springs, MS 39564		
Phone number	(228) 875-6420		
Pollutant(s) analyzed	Ammonia, BOD, COD, Nitrate/Nitrite, Oil & Grease, TKN, TOC, TSS, Phosphorus, Mercury, Pentachlorophenol, 2,4,6-Trichlorophenol		

EPA Identification Number	NPDES Permit Number	Facility Name	Form Approved 03/05/19 OMB No. 2040-0004
ALD008149858	AL0002801	Kimberly-Clark Corp.	

SECTION 10. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d))

Checklist and Certification Statement

10.1 In Column 1 below, mark the sections of Form 2F 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
☑ Section 1	☑ w/ attachments (e.g., responses for additional outfalls)
☑ Section 2	☑ w/ attachments
☑ Section 3	☑ w/ site drainage map
☑ Section 4	☑ w/ attachments
☑ Section 5	☐ w/ attachments
☑ Section 6	☐ w/ attachments
☐ Section 7	☑ Table A ☐ w/ small business exemption request ☑ Table B ☐ w/ analytical results as an attachment ☑ Table C ☑ Table D
☑ Section 8	☐ w/attachments
☑ Section 9	☐ w/attachments (e.g., responses for additional contact laboratories or firms)
☑ Section 10	☐

10.2 **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
Nick Engebos	Mobile Mill Facility Manager
Signature	Date signed

Attachment 1 – EPA Form 2F - Section 1 Outfall Locations
NPDES Permit Renewal Application - AL0002801
Kimberly-Clark Corp., 200 Bay Bridge Road, Mobile (Mobile County) AL

Outfall Number	Receiving Waters	Latitude	Longitude
DSN002	Chickasaw Creek	30°44'14" N	88°03'11" W
DSN003	Chickasaw Creek	30°44'22" N	88°03'02" W
DSN004	Chickasaw Creek	30°44'20" N	88°03'06" W
DSN005	Chickasaw Creek	30°44'14" N	88°03'11" W
DSN006[A]	Chickasaw Creek	30°44'15" N	88°02'45" W
DSN007[B]	Chickasaw Creek	30°44'13" N	88°02'45" W
DSN008[C]	Chickasaw Creek	30°44'23" N	88°02'57" W
DSN009	Chickasaw Creek	30°44'26" N	88°02'55" W
DSN010	Chickasaw Creek	30°44'26" N	88°02'58" W
DSN011[D]	N/A	N/A	N/A
DSN012[B]	Chickasaw Creek	30°44'16" N	88°03'06" W
DSN013	Chickasaw Creek	30°44'18" N	88°03'04" W
DSN014	Three Mile Creek	30°44'01" N	88°03'09" W
DSN015	Three Mile Creek	30°43'53" N	88°03'11" W
DSN016	Three Mile Creek	30°43'51" N	88°03'11" W
DSN017	Three Mile Creek	30°43'47" N	88°03'11" W
DSN018	Three Mile Creek	30°43'46" N	88°03'12" W
DSN019[E]	Three Mile Creek	30°43'45" N	88°02'49" W
DSN020	Three Mile Creek	30°44'23" N	88°03'04" W
DSN021	Chickasaw Creek	30°44'16" N	88°02'57" W

NOTE:

A) *Stormwater runoff from warehouse roof drains*

B) *Non-contact cooling water and storm water runoff from non-process areas associated with paper mill operations. See EPA Form 2E.*

C) *DSN008 is considered representative for DSN008 and DSN013.*

D) *DSN011 is no longer applicable. This outfall is requested to be removed from the permit. This outfall does not discharge industrial related runoff. DSN011 was originally permitted to manage the discharge from the retention area that stored petroleum products and other waste; however this process was stopped in 20???. All petroleum products and wastes have been removed. No industrial activities are conducted in this area.*

E) *DSN019 is considered representative of DSN014-DSN020*

Attachment 2 – EPA Form 2F - Section 4 Pollutant Source
NPDES Permit Renewal Application - AL0002801
Kimberly-Clark Corp., 200 Bay Bridge Road, Mobile (Mobile County) AL

Outfall Number	Impervious Surface Area *(Within a mile radius of the facility)*	Total Surface Area Drained *(Within a mile radius of the facility)*
DSN002	0.51 Acres	2.82 Acres
DSN003	0.30 Acres	0.64 Acres
DSN004	2.29 Acres	10.35 Acres
DSN005	1.49 Acres	7.56 Acres
DSN006	0.95 Acres	4.71 Acres
DSN007	16.60 Acres	18.48 Acres
DSN008	0.76 Acres	2.03 Acres
DSN009	3.04 Acres	3.69 Acres
DSN010	2.31 Acres	9.03 Acres
DSN011	0.00 Acres	4.60 Acres
DSN012	1.35 Acres	2.92 Acres
DSN013	0.19 Acres	2.42 Acres
DSN014	0.00 Acres	1.51 Acres
DSN015	5.95 Acres	5.95 Acres
DSN016	1.01 Acres	1.01 Acres
DSN017	0.15 Acres	0.15 Acres
DSN018	1.12 Acres	1.31 Acres
DSN019	9.24 Acres	12.04 Acres
DSN020	6.00 Acres	6.43 Acres
DSN021	0.00 Acres	1.28 Acres

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN002

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

TABLE A. CONVENTIONAL AND NON CONVENTIONAL PARAMETERS (40 CFR 122.26(c)(1)(i)(E)(3))[1]

You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details and requirements.

	Pollutant or Parameter	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
		Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
1.	Oil and grease	ND		N/A		1	Stormwater runoff
2.	Biochemical oxygen demand (BOD_5)	15 mg/L	N/A	N/A	N/A	1	Stormwater runoff
3.	Chemical oxygen demand (COD)	58 mg/L	N/A	N/A	N/A	1	Stormwater runoff
4.	Total suspended solids (TSS)	215 mg/L	N/A	N/A	N/A	1	Stormwater runoff
5.	Total phosphorus	0.483 mg/L	N/A	N/A	N/A	1	Stormwater runoff
6.	Total Kjeldahl nitrogen (TKN)	0.93 mg/L	N/A	N/A	N/A	1	Stormwater runoff
7.	Total nitrogen (as N)	2.46 mg/L	N/A	N/A	N/A	1	Stormwater runoff
8.	pH (minimum)	8.41		N/A		1	Stormwater runoff
	pH (maximum)	8.43		N/A		1	Stormwater runoff

[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	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN002

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

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

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.

Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
See Tables A & C for applicable pollutants						

[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	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN002

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.

Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
Ammonia - 7664-41-7	ND	N/A	N/A	N/A	1	5 - Stormwater
Nitrate/Nitrite - 14797-55-8/14797-65	1.53 mg/L	N/A	N/A	N/A	1	5 - Stormwater
Mercury - 7439-97-6	ND	N/A	N/A	N/A	1	5 - Stormwater
Pentachlorophenol - 87-86-5	ND	N/A	N/A	N/A	1	5 - Stormwater
2,4,6-Trichlorophenol - 88-06-2	ND	N/A	N/A	N/A	1	5 - Stormwater
Total Organic Carbon	24.1 mg/L	N/A	N/A	N/A	1	5 -Stormwater

[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	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN002

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

TABLE D. STORM EVENT INFORMATION (40 CFR 122.26(c)(1)(i)(E)(6))

Provide data for the storm event(s) that resulted in the maximum daily discharges for the flow-weighted composite sample.

Date of Storm Event	Duration of Storm Event (in hours)	Total Rainfall During Storm Event (in inches)	Number of Hours Between Beginning of Storm Measured and End of Previous Measurable Rain Event	Maximum Flow Rate During Rain Event (in gpm or specify units)	Total Flow from Rain Event (in gallons or specify units)
10/25/2022	0.8hrs	0.11 inches	264 Hours (10/13/2022)	.14 inches/hour	0.004 MG

Provide a description of the method of flow measurement or estimate.

The flow estimate was calculated based on the Rational Formula Q=CIA

Q - Total flow ((million gallons)
C - runoff coefficient
I - intensity (inches/hr)
A - area (Acres)

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN003

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

TABLE A. CONVENTIONAL AND NON CONVENTIONAL PARAMETERS (40 CFR 122.26(c)(1)(i)(E)(3))[1]

You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details and requirements.

	Pollutant or Parameter	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
		Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
1.	Oil and grease	ND		N/A		1	Stormwater runoff
2.	Biochemical oxygen demand (BOD_5)	ND	N/A	N/A	N/A	1	Stormwater runoff
3.	Chemical oxygen demand (COD)	13 mg/L	N/A	N/A	N/A	1	Stormwater runoff
4.	Total suspended solids (TSS)	24.3 mg/L	N/A	N/A	N/A	1	Stormwater runoff
5.	Total phosphorus	ND	N/A	N/A	N/A	1	Stormwater runoff
6.	Total Kjeldahl nitrogen (TKN)	ND	N/A	N/A	N/A	1	Stormwater runoff
7.	Total nitrogen (as N)	ND	N/A	N/A	N/A	1	Stormwater runoff
8.	pH (minimum)	7.53		N/A		1	Stormwater runoff
	pH (maximum)	7.56		N/A		1	Stormwater runoff

[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	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN003

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

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

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.

Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
See Tables A & C for applicable pollutants						

[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	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN003

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.

Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
Ammonia - 7664-41-7	ND	N/A	N/A	N/A	1	5 - Stormwater
Nitrate/Nitrite - 14797-55-8/14797-65	ND	N/A	N/A	N/A	1	5 - Stormwater
Mercury - 7439-97-6	ND	N/A	N/A	N/A	1	5 - Stormwater
Pentachlorophenol - 87-86-5	ND	N/A	N/A	N/A	1	5 - Stormwater
2,4,6-Trichlorophenol 88-06-2	ND	N/A	N/A	N/A	1	5 - Stormwater
Total Organic Carbon	5.26 mg/L	N/A	N/A	N/A	1	5 - Stormwater

[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	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN003

TABLE D. STORM EVENT INFORMATION (40 CFR 122.26(c)(1)(i)(E)(6))

Provide data for the storm event(s) that resulted in the maximum daily discharges for the flow-weighted composite sample.

Date of Storm Event	Duration of Storm Event (in hours)	Total Rainfall During Storm Event (in inches)	Number of Hours Between Beginning of Storm Measured and End of Previous Measurable Rain Event	Maximum Flow Rate During Rain Event (in gpm or specify units)	Total Flow from Rain Event (in gallons or specify units)
11/15/2022	5.5hrs	0.59 inches	240 Hours (11/05/2022)	Unknown	0.007 MG

Provide a description of the method of flow measurement or estimate.

The flow estimate was calculated based on the Rational Formula Q=CIA

Q - Total flow ((million gallons)
C - runoff coefficient
I - intensity (inches/hr)
A - area (Acres)

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN004

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

TABLE A. CONVENTIONAL AND NON CONVENTIONAL PARAMETERS (40 CFR 122.26(c)(1)(i)(E)(3))[1]

You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details and requirements.

	Pollutant or Parameter	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
		Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
1.	Oil and grease	ND		N/A		1	Stormwater runoff
2.	Biochemical oxygen demand (BOD_5)	19 mg/L	N/A	N/A	N/A	1	Stormwater runoff
3.	Chemical oxygen demand (COD)	69 mg/L	N/A	N/A	N/A	1	Stormwater runoff
4.	Total suspended solids (TSS)	369 mg/L	N/A	N/A	N/A	1	Stormwater runoff
5.	Total phosphorus	0.268 mg/L	N/A	N/A	N/A	1	Stormwater runoff
6.	Total Kjeldahl nitrogen (TKN)	0.80 mg/L	N/A	N/A	N/A	1	Stormwater runoff
7.	Total nitrogen (as N)	1.80 mg/L	N/A	N/A	N/A	1	Stormwater runoff
8.	pH (minimum)	8.45		N/A		1	Stormwater runoff
	pH (maximum)	8.47		N/A		1	Stormwater runoff

[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	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN004

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

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

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.

Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
See Tables A & C for applicable pollutants						

[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	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN004

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.

Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
Ammonia - 7664-41-7	ND	N/A	N/A	N/A	1	5 - Stormwater
Nitrate/Nitrite - 14797-55-8/14797-65	ND	N/A	N/A	N/A	1	5 - Stormwater
Mercury - 7439-97-6	ND	N/A	N/A	N/A	1	5 - Stormwater
Pentachlorophenol - 87-86-5	ND	N/A	N/A	N/A	1	5 - Stormwater
2,4,6-Trichlorophenol 88-06-2	ND	N/A	N/A	N/A	1	5 - Stormwater
Total Organic Carbon	26.6 mg/L	N/A	N/A	N/A	1	5 - Stormwater

[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	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN004

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

TABLE D. STORM EVENT INFORMATION (40 CFR 122.26(c)(1)(i)(E)(6))

Provide data for the storm event(s) that resulted in the maximum daily discharges for the flow-weighted composite sample.

Date of Storm Event	Duration of Storm Event (in hours)	Total Rainfall During Storm Event (in inches)	Number of Hours Between Beginning of Storm Measured and End of Previous Measurable Rain Event	Maximum Flow Rate During Rain Event (in gpm or specify units)	Total Flow from Rain Event (in gallons or specify units)
10/25/2022	0.8hrs	0.11 inches	264 Hours (10/13/2022)	.14 inches/hour	0.018 MG

Provide a description of the method of flow measurement or estimate.

The flow estimate was calculated based on the Rational Formula Q=CIA

Q - Total flow ((million gallons)
C - runoff coefficient
I - intensity (inches/hr)
A - area (Acres)

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN005

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

TABLE A. CONVENTIONAL AND NON CONVENTIONAL PARAMETERS (40 CFR 122.26(c)(1)(i)(E)(3))[1]

You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details and requirements.

	Pollutant or Parameter	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
		Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
1.	Oil and grease	ND		N/A		1	Stormwater runoff
2.	Biochemical oxygen demand (BOD_5)	17 mg/L	N/A	N/A	N/A	1	Stormwater runoff
3.	Chemical oxygen demand (COD)	55 mg/L	N/A	N/A	N/A	1	Stormwater runoff
4.	Total suspended solids (TSS)	209 mg/L	N/A	N/A	N/A	1	Stormwater runoff
5.	Total phosphorus	0.385 mg/L	N/A	N/A	N/A	1	Stormwater runoff
6.	Total Kjeldahl nitrogen (TKN)	ND	N/A	N/A	N/A	1	Stormwater runoff
7.	Total nitrogen (as N)	2.12 mg/L	N/A	N/A	N/A	1	Stormwater runoff
8.	pH (minimum)	8.51		N/A		1	Stormwater runoff
	pH (maximum)	8.54		N/A		1	Stormwater runoff

[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	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN005

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

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

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.

Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
See Tables A & C for applicable pollutants						

[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	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN005

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.

Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
Ammonia - 7664-41-7	ND	N/A	N/A	N/A	1	5 - Stormwater
Nitrate/Nitrite - 14797-55-8/14797-65	1.42 mg/L	N/A	N/A	N/A	1	5 - Stormwater
Mercury - 7439-97-6	ND	N/A	N/A	N/A	1	5 - Stormwater
Pentachlorophenol - 87-86-5	ND	N/A	N/A	N/A	1	5 - Stormwater
2,4,6-Trichlorophenol 88-06-2	ND	N/A	N/A	N/A	1	5 - Stormwater
Total Organic Carbon	21.5 mg/L	N/A	N/A	N/A	1	5 - Stormwater

[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	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN005

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

TABLE D. STORM EVENT INFORMATION (40 CFR 122.26(c)(1)(i)(E)(6))

Provide data for the storm event(s) that resulted in the maximum daily discharges for the flow-weighted composite sample.

Date of Storm Event	Duration of Storm Event (in hours)	Total Rainfall During Storm Event (in inches)	Number of Hours Between Beginning of Storm Measured and End of Previous Measurable Rain Event	Maximum Flow Rate During Rain Event (in gpm or specify units)	Total Flow from Rain Event (in gallons or specify units)
10/25/2022	0.8hrs	0.11 inches	264 Hours (10/13/2022)	.14 inches/hour	0.012 MG

Provide a description of the method of flow measurement or estimate.

The flow estimate was calculated based on the Rational Formula Q=CIA

Q - Total flow ((million gallons)
C - runoff coefficient
I - intensity (inches/hr)
A - area (Acres)

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN006

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

TABLE A. CONVENTIONAL AND NON CONVENTIONAL PARAMETERS (40 CFR 122.26(c)(1)(i)(E)(3))[1]

You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details and requirements.

	Pollutant or Parameter	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
		Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
1.	Oil and grease	ND		N/A		1	Stormwater runoff
2.	Biochemical oxygen demand (BOD_5)	ND	N/A	N/A	N/A	1	Stormwater runoff
3.	Chemical oxygen demand (COD)	9 mg/L	N/A	N/A	N/A	1	Stormwater runoff
4.	Total suspended solids (TSS)	40.3 mg/L	N/A	N/A	N/A	1	Stormwater runoff
5.	Total phosphorus	0.095mg/L	N/A	N/A	N/A	1	Stormwater runoff
6.	Total Kjeldahl nitrogen (TKN)	ND	N/A	N/A	N/A	1	Stormwater runoff
7.	Total nitrogen (as N)	ND	N/A	N/A	N/A	1	Stormwater runoff
8.	pH (minimum)	8.61		N/A		1	Stormwater runoff
	pH (maximum)	8.63		N/A		1	Stormwater runoff

[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	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN006

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

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

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.

Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
See Tables A & C for applicable pollutants						

[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	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN006

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.

Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
Ammonia - 7664-41-7	ND	N/A	N/A	N/A	1	5 - Stormwater
Nitrate/Nitrite - 14797-55-8/14797-65	ND	N/A	N/A	N/A	1	5 - Stormwater
Mercury - 7439-97-6	ND	N/A	N/A	N/A	1	5 - Stormwater
Pentachlorophenol - 87-86-5	ND	N/A	N/A	N/A	1	5 - Stormwater
2,4,6-Trichlorophenol 88-06-2	ND	N/A	N/A	N/A	1	5 - Stormwater
Total Organic Carbon	3.24 mg/L	N/A	N/A	N/A	1	5 - Stormwater

[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	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN006

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

TABLE D. STORM EVENT INFORMATION (40 CFR 122.26(c)(1)(i)(E)(6))

Provide data for the storm event(s) that resulted in the maximum daily discharges for the flow-weighted composite sample.

Date of Storm Event	Duration of Storm Event (in hours)	Total Rainfall During Storm Event (in inches)	Number of Hours Between Beginning of Storm Measured and End of Previous Measurable Rain Event	Maximum Flow Rate During Rain Event (in gpm or specify units)	Total Flow from Rain Event (in gallons or specify units)
11/15/2022	5.5hrs	0.59 inches	240 Hours (11/05/2022)	Unknown	0.041 MG

Provide a description of the method of flow measurement or estimate.

The flow estimate was calculated based on the Rational Formula Q=CIA

Q - Total flow ((million gallons)
C - runoff coefficient
I - intensity (inches/hr)
A - area (Acres)

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN007

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OMB No. 2040-0004

TABLE A. CONVENTIONAL AND NON CONVENTIONAL PARAMETERS (40 CFR 122.26(c)(1)(i)(E)(3))[1]

You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details and requirements.

	Pollutant or Parameter	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
		Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
1.	Oil and grease	ND		N/A		1	Stormwater runoff
2.	Biochemical oxygen demand (BOD_5)	8 mg/L	N/A	N/A	N/A	1	Stormwater runoff
3.	Chemical oxygen demand (COD)	33 mg/L	N/A	N/A	N/A	1	Stormwater runoff
4.	Total suspended solids (TSS)	6.9 mg/L	N/A	N/A	N/A	1	Stormwater runoff
5.	Total phosphorus	0.284 mg/L	N/A	N/A	N/A	1	Stormwater runoff
6.	Total Kjeldahl nitrogen (TKN)	0.86 mg/L	N/A	N/A	N/A	1	Stormwater runoff
7.	Total nitrogen (as N)	1.86 mg/L	N/A	N/A	N/A	1	Stormwater runoff
8.	pH (minimum)	7.30		N/A		1	Stormwater runoff
	pH (maximum)	7.31		N/A		1	Stormwater runoff

[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	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN007

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

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

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.

Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
See Tables A & C for applicable pollutants						

[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	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN007

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.

Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
Ammonia - 7664-41-7	ND	N/A	N/A	N/A	1	5 - Stormwater
Nitrate/Nitrite - 14797-55-8/14797-65	ND	N/A	N/A	N/A	1	5 - Stormwater
Mercury - 7439-97-6	ND	N/A	N/A	N/A	1	5 - Stormwater
Pentachlorophenol - 87-86-5	ND	N/A	N/A	N/A	1	5 - Stormwater
2,4,6-Trichlorophenol 88-06-2	ND	N/A	N/A	N/A	1	5 - Stormwater
Total Organic Carbon	9.44 mg/L	N/A	N/A	N/A	1	5 - Stormwater

[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	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN007

Form Approved 03/05/19
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TABLE D. STORM EVENT INFORMATION (40 CFR 122.26(c)(1)(i)(E)(6))

Provide data for the storm event(s) that resulted in the maximum daily discharges for the flow-weighted composite sample.

Date of Storm Event	Duration of Storm Event (in hours)	Total Rainfall During Storm Event (in inches)	Number of Hours Between Beginning of Storm Measured and End of Previous Measurable Rain Event	Maximum Flow Rate During Rain Event (in gpm or specify units)	Total Flow from Rain Event (in gallons or specify units)
10/25/2022	0.8hrs	0.11 inches	264 Hours (10/13/2022)	.14 inches/hour	0.050 MG

Provide a description of the method of flow measurement or estimate.

The flow estimate was calculated based on the Rational Formula Q=CIA

Q - Total flow ((million gallons)
C - runoff coefficient
I - intensity (inches/hr)
A - area (Acres)

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN008

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TABLE A. CONVENTIONAL AND NON CONVENTIONAL PARAMETERS (40 CFR 122.26(c)(1)(i)(E)(3))[1]

You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details and requirements.

	Pollutant or Parameter	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
		Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
1.	Oil and grease	ND		N/A		1	Stormwater runoff
2.	Biochemical oxygen demand (BOD_5)	6 mg/L	N/A	N/A	N/A	1	Stormwater runoff
3.	Chemical oxygen demand (COD)	11 mg/L	N/A	N/A	N/A	1	Stormwater runoff
4.	Total suspended solids (TSS)	104 mg/L	N/A	N/A	N/A	1	Stormwater runoff
5.	Total phosphorus	0.175 mg/L	N/A	N/A	N/A	1	Stormwater runoff
6.	Total Kjeldahl nitrogen (TKN)	1.46 mg/L	N/A	N/A	N/A	1	Stormwater runoff
7.	Total nitrogen (as N)	2.16 mg/L	N/A	N/A	N/A	1	Stormwater runoff
8.	pH (minimum)	8.51		N/A		1	Stormwater runoff
	pH (maximum)	8.81		N/A		1	Stormwater runoff

[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	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN008

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

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

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.

Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
See Tables A & C for applicable pollutants						

[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	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN008

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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.

Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
Ammonia - 7664-41-7	0.26 mg/L	N/A	N/A	N/A	1	5 - Stormwater
Nitrate/Nitrite - 14797-55-8/14797-65	ND	N/A	N/A	N/A	1	5 - Stormwater
Mercury - 7439-97-6	ND	N/A	N/A	N/A	1	5 - Stormwater
Pentachlorophenol - 87-86-5	ND	N/A	N/A	N/A	1	5 - Stormwater
2,4,6-Trichlorophenol 88-06-2	ND	N/A	N/A	N/A	1	5 - Stormwater
Total Organic Carbon	3.20 mg/L	N/A	N/A	N/A	1	5 - Stormwater

[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	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN008

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

TABLE D. STORM EVENT INFORMATION (40 CFR 122.26(c)(1)(i)(E)(6))

Provide data for the storm event(s) that resulted in the maximum daily discharges for the flow-weighted composite sample.

Date of Storm Event	Duration of Storm Event (in hours)	Total Rainfall During Storm Event (in inches)	Number of Hours Between Beginning of Storm Measured and End of Previous Measurable Rain Event	Maximum Flow Rate During Rain Event (in gpm or specify units)	Total Flow from Rain Event (in gallons or specify units)
11/30/2022	2.5 hrs	0.71 inches	96 Hours (11/26/2022)	Unknown	0.024MG

Provide a description of the method of flow measurement or estimate.

The flow estimate was calculated based on the Rational Formula Q=CIA

Q - Total flow ((million gallons)
C - runoff coefficient
I - intensity (inches/hr)
A - area (Acres)

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN009

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

TABLE A. CONVENTIONAL AND NON CONVENTIONAL PARAMETERS (40 CFR 122.26(c)(1)(i)(E)(3))[1]

You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details and requirements.

	Pollutant or Parameter	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
		Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
1.	Oil and grease	ND		N/A		1	Stormwater runoff
2.	Biochemical oxygen demand (BOD_5)	ND	N/A	N/A	N/A	1	Stormwater runoff
3.	Chemical oxygen demand (COD)	ND	N/A	N/A	N/A	1	Stormwater runoff
4.	Total suspended solids (TSS)	19 mg/L	N/A	N/A	N/A	1	Stormwater runoff
5.	Total phosphorus	0.066 mg/L	N/A	N/A	N/A	1	Stormwater runoff
6.	Total Kjeldahl nitrogen (TKN)	ND	N/A	N/A	N/A	1	Stormwater runoff
7.	Total nitrogen (as N)	ND	N/A	N/A	N/A	1	Stormwater runoff
8.	pH (minimum)	8.53		N/A		1	Stormwater runoff
	pH (maximum)	8.54		N/A		1	Stormwater runoff

[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	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN009

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

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.

Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
See Tables A & C for applicable pollutants						

[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	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN009

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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.

Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
Ammonia - 7664-41-7	ND	N/A	N/A	N/A	1	5 - Stormwater
Nitrate/Nitrite - 14797-55-8/14797-65	ND	N/A	N/A	N/A	1	5 - Stormwater
Mercury - 7439-97-6	ND	N/A	N/A	N/A	1	5 - Stormwater
Pentachlorophenol - 87-86-5	ND	N/A	N/A	N/A	1	5 - Stormwater
2,4,6-Trichlorophenol 88-06-2	ND	N/A	N/A	N/A	1	5 - Stormwater
Total Organic Carbon	3.74 mg/L	N/A	N/A	N/A	1	5 - Stormwater

[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	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN009

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OMB No. 2040-0004

TABLE D. STORM EVENT INFORMATION (40 CFR 122.26(c)(1)(i)(E)(6))

Provide data for the storm event(s) that resulted in the maximum daily discharges for the flow-weighted composite sample.

Date of Storm Event	Duration of Storm Event (in hours)	Total Rainfall During Storm Event (in inches)	Number of Hours Between Beginning of Storm Measured and End of Previous Measurable Rain Event	Maximum Flow Rate During Rain Event (in gpm or specify units)	Total Flow from Rain Event (in gallons or specify units)
11/15/2022	5.5hrs	0.59 inches	240 Hours (11/05/2022)	Unknown	0.051 MG

Provide a description of the method of flow measurement or estimate.

The flow estimate was calculated based on the Rational Formula Q=CIA

Q - Total flow ((million gallons)
C - runoff coefficient
I - intensity (inches/hr)
A - area (Acres)

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN010

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

TABLE A. CONVENTIONAL AND NON CONVENTIONAL PARAMETERS (40 CFR 122.26(c)(1)(i)(E)(3))[1]

You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details and requirements.

	Pollutant or Parameter	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
		Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
1.	Oil and grease	ND		N/A		1	Stormwater runoff
2.	Biochemical oxygen demand (BOD_5)	ND	N/A	N/A	N/A	1	Stormwater runoff
3.	Chemical oxygen demand (COD)	ND	N/A	N/A	N/A	1	Stormwater runoff
4.	Total suspended solids (TSS)	3.1 mg/L	N/A	N/A	N/A	1	Stormwater runoff
5.	Total phosphorus	0.063 mg/L	N/A	N/A	N/A	1	Stormwater runoff
6.	Total Kjeldahl nitrogen (TKN)	ND	N/A	N/A	N/A	1	Stormwater runoff
7.	Total nitrogen (as N)	ND	N/A	N/A	N/A	1	Stormwater runoff
8.	pH (minimum)	8.50		N/A		1	Stormwater runoff
	pH (maximum)	8.53		N/A		1	Stormwater runoff

[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	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN010

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

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.

Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
See Tables A & C for applicable pollutants						

[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	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN010

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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.

Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
Ammonia - 7664-41-7	ND	N/A	N/A	N/A	1	5 - Stormwater
Nitrate/Nitrite - 14797-55-8/14797-65	ND	N/A	N/A	N/A	1	5 - Stormwater
Mercury - 7439-97-6	ND	N/A	N/A	N/A	1	5 - Stormwater
Pentachlorophenol - 87-86-5	ND	N/A	N/A	N/A	1	5 - Stormwater
2,4,6-Trichlorophenol 88-06-2	ND	N/A	N/A	N/A	1	5 - Stormwater
Total Organic Carbon	2.42 mg/L	N/A	N/A	N/A	1	5 - Stormwater

[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	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN010

TABLE D. STORM EVENT INFORMATION (40 CFR 122.26(c)(1)(i)(E)(6))

Provide data for the storm event(s) that resulted in the maximum daily discharges for the flow-weighted composite sample.

Date of Storm Event	Duration of Storm Event (in hours)	Total Rainfall During Storm Event (in inches)	Number of Hours Between Beginning of Storm Measured and End of Previous Measurable Rain Event	Maximum Flow Rate During Rain Event (in gpm or specify units)	Total Flow from Rain Event (in gallons or specify units)
11/15/2022	5.5hrs	0.59 inches	240 Hours (11/05/2022)	Unknown	0.088 MG

Provide a description of the method of flow measurement or estimate.

The flow estimate was calculated based on the Rational Formula Q=CIA

Q - Total flow ((million gallons)
C - runoff coefficient
I - intensity (inches/hr)
A - area (Acres)

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN011

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

TABLE A. CONVENTIONAL AND NON CONVENTIONAL PARAMETERS (40 CFR 122.26(c)(1)(i)(E)(3))[1]

You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details and requirements.

	Pollutant or Parameter	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
		Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
1.	Oil and grease	ND		N/A		1	Stormwater runoff
2.	Biochemical oxygen demand (BOD_5)	NA	N/A	N/A	N/A	1	Stormwater runoff
3.	Chemical oxygen demand (COD)	13 mg/L	N/A	N/A	N/A	1	Stormwater runoff
4.	Total suspended solids (TSS)	848 mg/L	N/A	N/A	N/A	1	Stormwater runoff
5.	Total phosphorus	NA	N/A	N/A	N/A	1	Stormwater runoff
6.	Total Kjeldahl nitrogen (TKN)	ND	N/A	N/A	N/A	1	Stormwater runoff
7.	Total nitrogen (as N)	NA	N/A	N/A	N/A	1	Stormwater runoff
8.	pH (minimum)	8.25		N/A		1	Stormwater runoff
	pH (maximum)	8.27		N/A		1	Stormwater runoff

[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	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN011

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

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

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.

Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
See Tables A & C for applicable pollutants						

[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	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN011

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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.

Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
NA						

[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	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN011

TABLE D. STORM EVENT INFORMATION (40 CFR 122.26(c)(1)(i)(E)(6))

Provide data for the storm event(s) that resulted in the maximum daily discharges for the flow-weighted composite sample.

Date of Storm Event	Duration of Storm Event (in hours)	Total Rainfall During Storm Event (in inches)	Number of Hours Between Beginning of Storm Measured and End of Previous Measurable Rain Event	Maximum Flow Rate During Rain Event (in gpm or specify units)	Total Flow from Rain Event (in gallons or specify units)
11/15/2022	5.5hrs	0.59 inches	240 Hours (11/05/2022)	Unknown	0.029 MG

Provide a description of the method of flow measurement or estimate.

The flow estimate was calculated based on the Rational Formula Q=CIA

Q - Total flow ((million gallons)
C - runoff coefficient
I - intensity (inches/hr)
A - area (Acres)

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN012

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OMB No. 2040-0004

TABLE A. CONVENTIONAL AND NON CONVENTIONAL PARAMETERS (40 CFR 122.26(c)(1)(i)(E)(3))[1]

You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details and requirements.

	Pollutant or Parameter	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
		Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
1.	Oil and grease	ND		N/A		1	Stormwater runoff
2.	Biochemical oxygen demand (BOD_5)	ND	N/A	N/A	N/A	1	Stormwater runoff
3.	Chemical oxygen demand (COD)	21 mg/L	N/A	N/A	N/A	1	Stormwater runoff
4.	Total suspended solids (TSS)	84 mg/L	N/A	N/A	N/A	1	Stormwater runoff
5.	Total phosphorus	0.056 mg/L	N/A	N/A	N/A	1	Stormwater runoff
6.	Total Kjeldahl nitrogen (TKN)	1.13 mg/L	N/A	N/A	N/A	1	Stormwater runoff
7.	Total nitrogen (as N)	2.13 mg/L	N/A	N/A	N/A	1	Stormwater runoff
8.	pH (minimum)	8.23		N/A		1	Stormwater runoff
	pH (maximum)	8.29		N/A		1	Stormwater runoff

[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	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN012

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

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

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.

Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
See Tables A & C for applicable pollutants						

[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	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN012

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.

Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
Ammonia - 7664-41-7	ND	N/A	N/A	N/A	1	5 - Stormwater
Nitrate/Nitrite - 14797-55-8/14797-65	ND	N/A	N/A	N/A	1	5 - Stormwater
Mercury - 7439-97-6	ND	N/A	N/A	N/A	1	5 - Stormwater
Pentachlorophenol - 87-86-5	ND	N/A	N/A	N/A	1	5 - Stormwater
2,4,6-Trichlorophenol 88-06-2	ND	N/A	N/A	N/A	1	5 - Stormwater
Total Organic Carbon	10.1 mg/L	N/A	N/A	N/A	1	5 - Stormwater

[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	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN012

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OMB No. 2040-0004

TABLE D. STORM EVENT INFORMATION (40 CFR 122.26(c)(1)(i)(E)(6))

Provide data for the storm event(s) that resulted in the maximum daily discharges for the flow-weighted composite sample.

Date of Storm Event	Duration of Storm Event (in hours)	Total Rainfall During Storm Event (in inches)	Number of Hours Between Beginning of Storm Measured and End of Previous Measurable Rain Event	Maximum Flow Rate During Rain Event (in gpm or specify units)	Total Flow from Rain Event (in gallons or specify units)
10/25/2022	0.8hrs	0.11 inches	264 Hours (10/13/2022)	.14 inches/hour	0.006 MG

Provide a description of the method of flow measurement or estimate.

The flow estimate was calculated based on the Rational Formula Q=CIA

Q - Total flow ((million gallons)
C - runoff coefficient
I - intensity (inches/hr)
A - area (Acres)

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN013

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

TABLE A. CONVENTIONAL AND NON CONVENTIONAL PARAMETERS (40 CFR 122.26(c)(1)(i)(E)(3))[1]

You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details and requirements.

	Pollutant or Parameter	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
		Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
1.	Oil and grease	ND		N/A		1	Stormwater runoff
2.	Biochemical oxygen demand (BOD_5)	ND	N/A	N/A	N/A	1	Stormwater runoff
3.	Chemical oxygen demand (COD)	11 mg/L	N/A	N/A	N/A	1	Stormwater runoff
4.	Total suspended solids (TSS)	30.9 mg/L	N/A	N/A	N/A	1	Stormwater runoff
5.	Total phosphorus	0.071 mg/L	N/A	N/A	N/A	1	Stormwater runoff
6.	Total Kjeldahl nitrogen (TKN)	ND	N/A	N/A	N/A	1	Stormwater runoff
7.	Total nitrogen (as N)	ND	N/A	N/A	N/A	1	Stormwater runoff
8.	pH (minimum)	8.56		N/A		1	Stormwater runoff
	pH (maximum)	8.58		N/A		1	Stormwater runoff

[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	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN013

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

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

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.

Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
See Tables A & C for applicable pollutants						

[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	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN013

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.

Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
Ammonia - 7664-41-7	ND	N/A	N/A	N/A	1	5 - Stormwater
Nitrate/Nitrite - 14797-55-8/14797-65	ND	N/A	N/A	N/A	1	5 - Stormwater
Mercury - 7439-97-6	ND	N/A	N/A	N/A	1	5 - Stormwater
Pentachlorophenol - 87-86-5	ND	N/A	N/A	N/A	1	5 - Stormwater
2,4,6-Trichlorophenol 88-06-2	ND	N/A	N/A	N/A	1	5 - Stormwater
Total Organic Carbon	4.65 mg/L	N/A	N/A	N/A	1	5 - Stormwater

[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	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN013

TABLE D. STORM EVENT INFORMATION (40 CFR 122.26(c)(1)(i)(E)(6))

Provide data for the storm event(s) that resulted in the maximum daily discharges for the flow-weighted composite sample.

Date of Storm Event	Duration of Storm Event (in hours)	Total Rainfall During Storm Event (in inches)	Number of Hours Between Beginning of Storm Measured and End of Previous Measurable Rain Event	Maximum Flow Rate During Rain Event (in gpm or specify units)	Total Flow from Rain Event (in gallons or specify units)
11/15/2022	5.5hrs	0.59 inches	240 Hours (11/05/2022)	Unknown	0.792 MG

Provide a description of the method of flow measurement or estimate.

The flow estimate was calculated based on the Rational Formula Q=CIA

Q - Total flow ((million gallons)
C - runoff coefficient
I - intensity (inches/hr)
A - area (Acres)

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN014

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OMB No. 2040-0004

TABLE A. CONVENTIONAL AND NON CONVENTIONAL PARAMETERS (40 CFR 122.26(c)(1)(i)(E)(3))[1]

You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details and requirements.

	Pollutant or Parameter	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
		Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
1.	Oil and grease	ND		N/A		1	Stormwater runoff
2.	Biochemical oxygen demand (BOD_5)	ND	N/A	N/A	N/A	1	Stormwater runoff
3.	Chemical oxygen demand (COD)	ND	N/A	N/A	N/A	1	Stormwater runoff
4.	Total suspended solids (TSS)	7.8 mg/L	N/A	N/A	N/A	1	Stormwater runoff
5.	Total phosphorus	ND	N/A	N/A	N/A	1	Stormwater runoff
6.	Total Kjeldahl nitrogen (TKN)	ND	N/A	N/A	N/A	1	Stormwater runoff
7.	Total nitrogen (as N)	ND	N/A	N/A	N/A	1	Stormwater runoff
8.	pH (minimum)	8.45		N/A		1	Stormwater runoff
	pH (maximum)	8.49		N/A		1	Stormwater runoff

[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	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN014

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

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

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.

Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
See Tables A & C for applicable pollutants						

[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	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN014

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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.

Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
Ammonia - 7664-41-7	ND	N/A	N/A	N/A	1	5 - Stormwater
Nitrate/Nitrite - 14797-55-8/14797-65	ND	N/A	N/A	N/A	1	5 - Stormwater
Mercury - 7439-97-6	ND	N/A	N/A	N/A	1	5 - Stormwater
Pentachlorophenol - 87-86-5	ND	N/A	N/A	N/A	1	5 - Stormwater
2,4,6-Trichlorophenol 88-06-2	ND	N/A	N/A	N/A	1	5 - Stormwater
Total Organic Carbon	2.54 mg/L	N/A	N/A	N/A	1	5 - Stormwater

[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	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN014

TABLE D. STORM EVENT INFORMATION (40 CFR 122.26(c)(1)(i)(E)(6))

Provide data for the storm event(s) that resulted in the maximum daily discharges for the flow-weighted composite sample.

Date of Storm Event	Duration of Storm Event (in hours)	Total Rainfall During Storm Event (in inches)	Number of Hours Between Beginning of Storm Measured and End of Previous Measurable Rain Event	Maximum Flow Rate During Rain Event (in gpm or specify units)	Total Flow from Rain Event (in gallons or specify units)
11/30/2022	2.5 hrs	0.71 inches	96 Hours (11/26/2022)	Unknown	0.012MG

Provide a description of the method of flow measurement or estimate.

The flow estimate was calculated based on the Rational Formula Q=CIA

Q - Total flow ((million gallons)
C - runoff coefficient
I - intensity (inches/hr)
A - area (Acres)

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN015

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TABLE A. CONVENTIONAL AND NON CONVENTIONAL PARAMETERS (40 CFR 122.26(c)(1)(i)(E)(3))[1]

You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details and requirements.

	Pollutant or Parameter	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
		Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
1.	Oil and grease	ND		N/A		1	Stormwater runoff
2.	Biochemical oxygen demand (BOD_5)	ND	N/A	N/A	N/A	1	Stormwater runoff
3.	Chemical oxygen demand (COD)	ND	N/A	N/A	N/A	1	Stormwater runoff
4.	Total suspended solids (TSS)	17.2 mg/L	N/A	N/A	N/A	1	Stormwater runoff
5.	Total phosphorus	ND	N/A	N/A	N/A	1	Stormwater runoff
6.	Total Kjeldahl nitrogen (TKN)	ND	N/A	N/A	N/A	1	Stormwater runoff
7.	Total nitrogen (as N)	ND	N/A	N/A	N/A	1	Stormwater runoff
8.	pH (minimum)	8.81		N/A		1	Stormwater runoff
	pH (maximum)	8.84		N/A		1	Stormwater runoff

[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	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN015

Form Approved 03/05/19
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TABLE B. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.26(c)(1)(i)(E)(4) and 40 CFR 122.21(g)(7)(vi)(A))[1]

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.

Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
See Tables A & C for applicable pollutants						

[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	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN015

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.

Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
Ammonia - 7664-41-7	ND	N/A	N/A	N/A	1	5 - Stormwater
Nitrate/Nitrite - 14797-55-8/14797-65	ND	N/A	N/A	N/A	1	5 - Stormwater
Mercury - 7439-97-6	ND	N/A	N/A	N/A	1	5 - Stormwater
Pentachlorophenol - 87-86-5	ND	N/A	N/A	N/A	1	5 - Stormwater
2,4,6-Trichlorophenol 88-06-2	ND	N/A	N/A	N/A	1	5 - Stormwater
Total Organic Carbon	1.43 mg/L	N/A	N/A	N/A	1	5 - Stormwater

[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	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN015

TABLE D. STORM EVENT INFORMATION (40 CFR 122.26(c)(1)(i)(E)(6))

Provide data for the storm event(s) that resulted in the maximum daily discharges for the flow-weighted composite sample.

Date of Storm Event	Duration of Storm Event (in hours)	Total Rainfall During Storm Event (in inches)	Number of Hours Between Beginning of Storm Measured and End of Previous Measurable Rain Event	Maximum Flow Rate During Rain Event (in gpm or specify units)	Total Flow from Rain Event (in gallons or specify units)
11/30/2022	2.5 hrs	0.71 inches	96 Hours (11/26/2022)	Unknown	0.109MG

Provide a description of the method of flow measurement or estimate.

The flow estimate was calculated based on the Rational Formula Q=CIA

Q - Total flow ((million gallons)
C - runoff coefficient
I - intensity (inches/hr)
A - area (Acres)

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN016

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OMB No. 2040-0004

TABLE A. CONVENTIONAL AND NON CONVENTIONAL PARAMETERS (40 CFR 122.26(c)(1)(i)(E)(3))[1]

You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details and requirements.

	Pollutant or Parameter	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
		Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
1.	Oil and grease	ND		N/A		1	Stormwater runoff
2.	Biochemical oxygen demand (BOD_5)	ND	N/A	N/A	N/A	1	Stormwater runoff
3.	Chemical oxygen demand (COD)	ND	N/A	N/A	N/A	1	Stormwater runoff
4.	Total suspended solids (TSS)	16.7 mg/L	N/A	N/A	N/A	1	Stormwater runoff
5.	Total phosphorus	ND	N/A	N/A	N/A	1	Stormwater runoff
6.	Total Kjeldahl nitrogen (TKN)	ND	N/A	N/A	N/A	1	Stormwater runoff
7.	Total nitrogen (as N)	ND	N/A	N/A	N/A	1	Stormwater runoff
8.	pH (minimum)	8.67		N/A		1	Stormwater runoff
	pH (maximum)	8.68		N/A		1	Stormwater runoff

[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	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN016

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

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

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.

Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
See Tables A & C for applicable pollutants						

[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	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN016

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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.

Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
Ammonia - 7664-41-7	ND	N/A	N/A	N/A	1	5 - Stormwater
Nitrate/Nitrite - 14797-55-8/14797-65	ND	N/A	N/A	N/A	1	5 - Stormwater
Mercury - 7439-97-6	ND	N/A	N/A	N/A	1	5 - Stormwater
Pentachlorophenol - 87-86-5	ND	N/A	N/A	N/A	1	5 - Stormwater
2,4,6-Trichlorophenol 88-06-2	ND	N/A	N/A	N/A	1	5 - Stormwater
Total Organic Carbon	0.99 mg/L	N/A	N/A	N/A	1	5 - Stormwater

[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	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN016

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

TABLE D. STORM EVENT INFORMATION (40 CFR 122.26(c)(1)(i)(E)(6))

Provide data for the storm event(s) that resulted in the maximum daily discharges for the flow-weighted composite sample.

Date of Storm Event	Duration of Storm Event (in hours)	Total Rainfall During Storm Event (in inches)	Number of Hours Between Beginning of Storm Measured and End of Previous Measurable Rain Event	Maximum Flow Rate During Rain Event (in gpm or specify units)	Total Flow from Rain Event (in gallons or specify units)
11/30/2022	2.5 hrs	0.71 inches	96 Hours (11/26/2022)	Unknown	0.018MG

Provide a description of the method of flow measurement or estimate.

The flow estimate was calculated based on the Rational Formula Q=CIA

Q - Total flow ((million gallons)
C - runoff coefficient
I - intensity (inches/hr)
A - area (Acres)

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN017

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

TABLE A. CONVENTIONAL AND NON CONVENTIONAL PARAMETERS (40 CFR 122.26(c)(1)(i)(E)(3))[1]

You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details and requirements.

	Pollutant or Parameter	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
		Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
1.	Oil and grease	ND		N/A		1	Stormwater runoff
2.	Biochemical oxygen demand (BOD_5)	ND	N/A	N/A	N/A	1	Stormwater runoff
3.	Chemical oxygen demand (COD)	ND	N/A	N/A	N/A	1	Stormwater runoff
4.	Total suspended solids (TSS)	200 mg/L	N/A	N/A	N/A	1	Stormwater runoff
5.	Total phosphorus	0.106 mg/L	N/A	N/A	N/A	1	Stormwater runoff
6.	Total Kjeldahl nitrogen (TKN)	ND	N/A	N/A	N/A	1	Stormwater runoff
7.	Total nitrogen (as N)	ND	N/A	N/A	N/A	1	Stormwater runoff
8.	pH (minimum)	8.81		N/A		1	Stormwater runoff
	pH (maximum)	8.83		N/A		1	Stormwater runoff

[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	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN017

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

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

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.

Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
See Tables A & C for applicable pollutants						

[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	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN017

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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.

Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
Ammonia - 7664-41-7	ND	N/A	N/A	N/A	1	5 - Stormwater
Nitrate/Nitrite - 14797-55-8/14797-65	ND	N/A	N/A	N/A	1	5 - Stormwater
Mercury - 7439-97-6	ND	N/A	N/A	N/A	1	5 - Stormwater
Pentachlorophenol - 87-86-5	ND	N/A	N/A	N/A	1	5 - Stormwater
2,4,6-Trichlorophenol 88-06-2	ND	N/A	N/A	N/A	1	5 - Stormwater
Total Organic Carbon	2.05 mg/L	N/A	N/A	N/A	1	5 - Stormwater

[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	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN017

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

TABLE D. STORM EVENT INFORMATION (40 CFR 122.26(c)(1)(i)(E)(6))

Provide data for the storm event(s) that resulted in the maximum daily discharges for the flow-weighted composite sample.

Date of Storm Event	Duration of Storm Event (in hours)	Total Rainfall During Storm Event (in inches)	Number of Hours Between Beginning of Storm Measured and End of Previous Measurable Rain Event	Maximum Flow Rate During Rain Event (in gpm or specify units)	Total Flow from Rain Event (in gallons or specify units)
11/30/2022	2.5 hrs	0.71 inches	96 Hours (11/26/2022)	Unknown	0.003MG

Provide a description of the method of flow measurement or estimate.

The flow estimate was calculated based on the Rational Formula Q=CIA

Q - Total flow ((million gallons)
C - runoff coefficient
I - intensity (inches/hr)
A - area (Acres)

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN018

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OMB No. 2040-0004

TABLE A. CONVENTIONAL AND NON CONVENTIONAL PARAMETERS (40 CFR 122.26(c)(1)(i)(E)(3))[1]

You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details and requirements.

	Pollutant or Parameter	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
		Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
1.	Oil and grease	ND		N/A		1	Stormwater runoff
2.	Biochemical oxygen demand (BOD_5)	5 mg/L	N/A	N/A	N/A	1	Stormwater runoff
3.	Chemical oxygen demand (COD)	22 mg/L	N/A	N/A	N/A	1	Stormwater runoff
4.	Total suspended solids (TSS)	210 mg/L	N/A	N/A	N/A	1	Stormwater runoff
5.	Total phosphorus	0.180 mg/L	N/A	N/A	N/A	1	Stormwater runoff
6.	Total Kjeldahl nitrogen (TKN)	ND	N/A	N/A	N/A	1	Stormwater runoff
7.	Total nitrogen (as N)	ND	N/A	N/A	N/A	1	Stormwater runoff
8.	pH (minimum)	8.07		N/A		1	Stormwater runoff
	pH (maximum)	8.11		N/A		1	Stormwater runoff

[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	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN018

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

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

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.

Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
See Tables A & C for applicable pollutants						

[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	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN018

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.

Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
Ammonia - 7664-41-7	ND	N/A	N/A	N/A	1	5 - Stormwater
Nitrate/Nitrite - 14797-55-8/14797-65	ND	N/A	N/A	N/A	1	5 - Stormwater
Mercury - 7439-97-6	ND	N/A	N/A	N/A	1	5 - Stormwater
Pentachlorophenol - 87-86-5	ND	N/A	N/A	N/A	1	5 - Stormwater
2,4,6-Trichlorophenol 88-06-2	ND	N/A	N/A	N/A	1	5 - Stormwater
Total Organic Carbon	10.1 mg/L	N/A	N/A	N/A	1	5 - Stormwater

[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	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN018

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

TABLE D. STORM EVENT INFORMATION (40 CFR 122.26(c)(1)(i)(E)(6))

Provide data for the storm event(s) that resulted in the maximum daily discharges for the flow-weighted composite sample.

Date of Storm Event	Duration of Storm Event (in hours)	Total Rainfall During Storm Event (in inches)	Number of Hours Between Beginning of Storm Measured and End of Previous Measurable Rain Event	Maximum Flow Rate During Rain Event (in gpm or specify units)	Total Flow from Rain Event (in gallons or specify units)
11/30/2022	2.5 hrs	0.71 inches	96 Hours (11/26/2022)	Unknown	0.022MG

Provide a description of the method of flow measurement or estimate.

The flow estimate was calculated based on the Rational Formula Q=CIA

Q - Total flow ((million gallons)
C - runoff coefficient
I - intensity (inches/hr)
A - area (Acres)

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN019

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

TABLE A. CONVENTIONAL AND NON CONVENTIONAL PARAMETERS (40 CFR 122.26(c)(1)(i)(E)(3))[1]

You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details and requirements.

	Pollutant or Parameter	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
		Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
1.	Oil and grease	ND		N/A		1	Stormwater runoff
2.	Biochemical oxygen demand (BOD_5)	ND	N/A	N/A	N/A	1	Stormwater runoff
3.	Chemical oxygen demand (COD)	ND	N/A	N/A	N/A	1	Stormwater runoff
4.	Total suspended solids (TSS)	30.7 mg/L	N/A	N/A	N/A	1	Stormwater runoff
5.	Total phosphorus	ND	N/A	N/A	N/A	1	Stormwater runoff
6.	Total Kjeldahl nitrogen (TKN)	ND	N/A	N/A	N/A	1	Stormwater runoff
7.	Total nitrogen (as N)	ND	N/A	N/A	N/A	1	Stormwater runoff
8.	pH (minimum)	8.74		N/A		1	Stormwater runoff
	pH (maximum)	8.80		N/A		1	Stormwater runoff

[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	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN019

Form Approved 03/05/19
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TABLE B. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.26(c)(1)(i)(E)(4) and 40 CFR 122.21(g)(7)(vi)(A))[1]

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.

Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
See Tables A & C for applicable pollutants						

[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	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN019

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.

Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
Ammonia - 7664-41-7	ND	N/A	N/A	N/A	1	5 - Stormwater
Nitrate/Nitrite - 14797-55-8/14797-65	ND	N/A	N/A	N/A	1	5 - Stormwater
Mercury - 7439-97-6	ND	N/A	N/A	N/A	1	5 - Stormwater
Pentachlorophenol - 87-86-5	ND	N/A	N/A	N/A	1	5 - Stormwater
2,4,6-Trichlorophenol 88-06-2	ND	N/A	N/A	N/A	1	5 - Stormwater
Total Organic Carbon	1.69 mg/L	N/A	N/A	N/A	1	5 - Stormwater

[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	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN019

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

TABLE D. STORM EVENT INFORMATION (40 CFR 122.26(c)(1)(i)(E)(6))

Provide data for the storm event(s) that resulted in the maximum daily discharges for the flow-weighted composite sample.

Date of Storm Event	Duration of Storm Event (in hours)	Total Rainfall During Storm Event (in inches)	Number of Hours Between Beginning of Storm Measured and End of Previous Measurable Rain Event	Maximum Flow Rate During Rain Event (in gpm or specify units)	Total Flow from Rain Event (in gallons or specify units)
11/30/2022	2.5 hrs	0.71 inches	96 Hours (11/26/2022)	Unknown	0.193MG

Provide a description of the method of flow measurement or estimate.

The flow estimate was calculated based on the Rational Formula Q=CIA

Q - Total flow ((million gallons)
C - runoff coefficient
I - intensity (inches/hr)
A - area (Acres)

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN020

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

TABLE A. CONVENTIONAL AND NON CONVENTIONAL PARAMETERS (40 CFR 122.26(c)(1)(i)(E)(3))[1]

You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details and requirements.

	Pollutant or Parameter	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
		Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
1.	Oil and grease	ND		N/A		1	Stormwater runoff
2.	Biochemical oxygen demand (BOD_5)	ND	N/A	N/A	N/A	1	Stormwater runoff
3.	Chemical oxygen demand (COD)	ND	N/A	N/A	N/A	1	Stormwater runoff
4.	Total suspended solids (TSS)	54.8 mg/L	N/A	N/A	N/A	1	Stormwater runoff
5.	Total phosphorus	ND	N/A	N/A	N/A	1	Stormwater runoff
6.	Total Kjeldahl nitrogen (TKN)	ND	N/A	N/A	N/A	1	Stormwater runoff
7.	Total nitrogen (as N)	ND	N/A	N/A	N/A	1	Stormwater runoff
8.	pH (minimum)	8.79		N/A		1	Stormwater runoff
	pH (maximum)	8.82		N/A		1	Stormwater runoff

[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	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN020

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

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

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.

Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
See Tables A & C for applicable pollutants						

[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	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN020

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.

Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
Ammonia - 7664-41-7	ND	N/A	N/A	N/A	1	5 - Stormwater
Nitrate/Nitrite - 14797-55-8/14797-65	ND	N/A	N/A	N/A	1	5 - Stormwater
Mercury - 7439-97-6	ND	N/A	N/A	N/A	1	5 - Stormwater
Pentachlorophenol - 87-86-5	ND	N/A	N/A	N/A	1	5 - Stormwater
2,4,6-Trichlorophenol 88-06-2	ND	N/A	N/A	N/A	1	5 - Stormwater
Total Organic Carbon	1.51 mg/L	N/A	N/A	N/A	1	5 - Stormwater

[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	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN020

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

TABLE D. STORM EVENT INFORMATION (40 CFR 122.26(c)(1)(i)(E)(6))

Provide data for the storm event(s) that resulted in the maximum daily discharges for the flow-weighted composite sample.

Date of Storm Event	Duration of Storm Event (in hours)	Total Rainfall During Storm Event (in inches)	Number of Hours Between Beginning of Storm Measured and End of Previous Measurable Rain Event	Maximum Flow Rate During Rain Event (in gpm or specify units)	Total Flow from Rain Event (in gallons or specify units)
11/30/2022	2.5 hrs	0.71 inches	96 Hours (11/26/2022)	Unknown	0.113MG

Provide a description of the method of flow measurement or estimate.

The flow estimate was calculated based on the Rational Formula Q=CIA

Q - Total flow ((million gallons)
C - runoff coefficient
I - intensity (inches/hr)
A - area (Acres)

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN021

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

TABLE A. CONVENTIONAL AND NON CONVENTIONAL PARAMETERS (40 CFR 122.26(c)(1)(i)(E)(3))[1]

You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details and requirements.

	Pollutant or Parameter	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
		Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
1.	Oil and grease	ND		N/A		1	Stormwater runoff
2.	Biochemical oxygen demand (BOD_5)	5 mg/L	N/A	N/A	N/A	1	Stormwater runoff
3.	Chemical oxygen demand (COD)	32 mg/L	N/A	N/A	N/A	1	Stormwater runoff
4.	Total suspended solids (TSS)	197 mg/L	N/A	N/A	N/A	1	Stormwater runoff
5.	Total phosphorus	0.122 mg/L	N/A	N/A	N/A	1	Stormwater runoff
6.	Total Kjeldahl nitrogen (TKN)	1.87 mg/L	N/A	N/A	N/A	1	Stormwater runoff
7.	Total nitrogen (as N)	3.11 mg/L	N/A	N/A	N/A	1	Stormwater runoff
8.	pH (minimum)	7.78		N/A		1	Stormwater runoff
	pH (maximum)	7.81		N/A		1	Stormwater runoff

[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	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN021

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

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

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Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
See Tables A & C for applicable pollutants						

[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	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN021

Form Approved 03/05/19
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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]

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Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
Ammonia - 7664-41-7	0.22 mg/L	N/A	N/A	N/A	1	5 - Stormwater
Nitrate/Nitrite - 14797-55-8/14797-65	1.24 mg/L	N/A	N/A	N/A	1	5 - Stormwater
Mercury - 7439-97-6	ND	N/A	N/A	N/A	1	5 - Stormwater
Pentachlorophenol - 87-86-5	ND	N/A	N/A	N/A	1	5 - Stormwater
2,4,6-Trichlorophenol 88-06-2	ND	N/A	N/A	N/A	1	5 - Stormwater
Total Organic Carbon	10.17 mg/L	N/A	N/A	N/A	1	5 - Stormwater

[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	Outfall Number
ALD008149858	AL0002801	Kimberly-Clark Corp.	DSN021

Form Approved 03/05/19
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TABLE D. STORM EVENT INFORMATION (40 CFR 122.26(c)(1)(i)(E)(6))

Provide data for the storm event(s) that resulted in the maximum daily discharges for the flow-weighted composite sample.

Date of Storm Event	Duration of Storm Event (in hours)	Total Rainfall During Storm Event (in inches)	Number of Hours Between Beginning of Storm Measured and End of Previous Measurable Rain Event	Maximum Flow Rate During Rain Event (in gpm or specify units)	Total Flow from Rain Event (in gallons or specify units)
11/15/2022	5.5hrs	0.59 inches	240 Hours (11/05/2022)	Unknown	0.765 MG

Provide a description of the method of flow measurement or estimate.

The flow estimate was calculated based on the Rational Formula Q=CIA

Q - Total flow ((million gallons)
C - runoff coefficient
I - intensity (inches/hr)
A - area (Acres)

SECTION 1. IDENTIFICATION

Product identifier

Trade name : Biosperse™ CN7539 MICROBIOCIDE
™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries

Recommended use of the chemical and restrictions on use

Use of the Substance/Mixture : Industrial chemical

Details of the supplier of the safety data sheet	**Emergency telephone number**
Solenis LLC 500 Hercules Road Wilmington, Delaware 19808 United States of America (USA) EHSProductSafetyTeam@solenis.com	1-844-SOLENIS (844-765-3647) **Product Information** Contact your local Solenis representative

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Corrosive to metals	:	Category 1
Acute toxicity (Oral)	:	Category 4
Skin corrosion	:	Category 1
Serious eye damage	:	Category 1
Skin sensitisation	:	Category 1

GHS label elements

Hazard pictograms :

Signal word : Danger

Hazard statements : H290 May be corrosive to metals.
H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.

Precautionary statements :

Prevention:

P234 Keep only in original container.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P272 Contaminated work clothing must not be allowed out of the workplace.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
P363 Wash contaminated clothing before reuse.
P390 Absorb spillage to prevent material damage.

Storage:

P405 Store locked up.
P406 Store in corrosive resistant container with a resistant inner liner.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Classification	Concentration (%)
ORGANIC ALCOHOL	Trade Secret	Acute Tox. 4; H302	>= 5 - < 10

		Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H335	
MIXED KETONES	Trade Secret	Acute Tox. 3; H301 Acute Tox. 2; H330 Acute Tox. 2; H310 Skin Corr. 1; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317	>= 1.5 - < 5
MAGNESIUM COMPOUND	Trade Secret		>= 1.5 - < 5
INORGANIC ACID	Trade Secret	Skin Corr. 1A; H314 Eye Dam. 1; H318	>= 1 - < 1.5

Trade Secret Composition - conceal identity + concentration

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.

If inhaled : Move to fresh air.
If breathed in, move person into fresh air.
Keep patient warm and at rest.
If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.

In case of skin contact : Remove contaminated clothing. If irritation develops, get medical attention.
If on skin, rinse well with water.
Wash contaminated clothing before re-use.

In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Continue rinsing eyes during transport to hospital.
Remove contact lenses.
Protect unharmed eye.

If swallowed : Get medical attention immediately.
Do NOT induce vomiting.
Rinse mouth with water.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed	:	Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: stomach or intestinal upset (nausea, vomiting, diarrhea) irritation (nose, throat, airways) wheezing cyanosis (causes blue coloring of the skin and nails from lack of oxygen) Convulsions Difficulty in breathing Harmful if swallowed. May cause an allergic skin reaction. Causes serious eye damage. Causes severe burns.
Notes to physician	:	Probable mucosal damage may contraindicate the use of gastric lavage.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water spray Foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during firefighting	:	Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products	:	Bromine Carbon monoxide Carbon dioxide (CO2) hydrogen bromide Nitrogen oxides (NOx) Formaldehyde Hydrocarbons hydrogen chloride Sulphur oxides acid vapors Chlorine chlorine oxide
Specific extinguishing methods	:	Product is compatible with standard fire-fighting agents.
Further information	:	Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Use personal protective equipment. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Comply with all applicable federal, state, and local regulations.
Environmental precautions	:	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up	:	Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
Advice on safe handling	:	Do not breathe vapours/dust. Do not smoke. Container hazardous when empty. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. Smoking, eating and drinking should be prohibited in the application area. For personal protection see section 8. Dispose of rinse water in accordance with local and national regulations.
Conditions for safe storage	:	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.
Further information on storage stability	:	No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
INORGANIC ACID	Trade Secret	TWA (Thoracic particulate matter)	0.2 mg/m3	ACGIH
		TWA	1 mg/m3	NIOSH REL
		TWA	1 mg/m3	OSHA Z-1
		TWA	1 mg/m3	OSHA P0

Trade Secret Composition - conceal identity + concentration

Engineering measures : Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Personal protective equipment

Hand protection

Material : Nitrile rubber

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Wear chemical splash goggles and face shield when there is potential for exposure of the eyes or face to liquid, vapor or mist.
Maintain eye wash station in immediate work area.

Skin and body protection : Wear as appropriate:
Impervious clothing
Chemical resistant apron
Safety shoes
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Wear resistant gloves (consult your safety equipment supplier).
Discard gloves that show tears, pinholes, or signs of wear.

Hygiene measures : Wash hands before breaks and at the end of workday.
When using do not eat or drink.
Ensure that eyewash stations and safety showers are close to the workstation location.
When using do not smoke.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Aqueous solution
Colour	:	light green
Odour	:	odourless
Odour Threshold	:	No data available
pH	:	2.0 - 4.0
Melting point/freezing point	:	ca. 25 °F / -4 °C
Boiling point/boiling range	:	No data available
Flash point	:	Not applicable
Evaporation rate	:	< 1 n-Butyl Acetate
Flammability (solid, gas)	:	No data available
Self-ignition	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	24 hPa
Relative vapour density	:	< 1 AIR=1
Relative density	:	No data available
Density	:	1.05 - 1.15 g/cm3 (77 °F / 25 °C)
Solubility(ies)		
Water solubility	:	completely soluble
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Decomposition temperature	:	No data available
Viscosity		

Viscosity, dynamic	:	4 - 10 mPa.s (70 °F / 21 °C)
Viscosity, kinematic	:	No data available
Oxidizing properties	:	No data available
Metal corrosion rate	:	> 6.25 mm/a Corrosive to metals

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No decomposition if stored and applied as directed.
Chemical stability	:	Stable under recommended storage conditions.
Possibility of hazardous reactions	:	Product will not undergo hazardous polymerization.
Conditions to avoid	:	temperatures above 194 degrees F (90 C degrees)
Incompatible materials	:	aluminum Amines mercaptans Metals Reducing agents strong bases Strong oxidizing agents
Hazardous decomposition products	:	Bromine Carbon monoxide Carbon dioxide (CO2) Formaldehyde hydrogen bromide Nitrogen oxides (NOx) Hydrocarbons Hydrogen chloride gas Sulphur oxides acid vapors Chlorine chlorine oxide

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Harmful if swallowed.

Product:

Acute oral toxicity	:	LD50 (Rat): 1,030 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg

Components:

ORGANIC ALCOHOL:

Acute oral toxicity : LD50 (Rat, female): 342 mg/kg

LD50 (Rat, male): 307 mg/kg

Acute dermal toxicity : LD50 (Rat): 1,600 mg/kg

MIXED KETONES:

Acute oral toxicity : LD50 (Rat): > 66 mg/kg

Acute inhalation toxicity : LC 50 (Rat): 0.33 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Remarks: Aerosol

Assessment: Corrosive to the respiratory tract.

Acute dermal toxicity : LD50 (Rabbit): 141 mg/kg

MAGNESIUM COMPOUND:

Acute oral toxicity : LD50 (Rat): 2,800 mg/kg

LD50 (Rat): > 5,000 mg/kg

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg

INORGANIC ACID:

Acute oral toxicity : LD50 (Rat): 2,140 mg/kg

Acute inhalation toxicity : Assessment: Not classified as acutely toxic by inhalation under GHS.

Skin corrosion/irritation

Causes severe burns.

Product:

Result : Causes burns.

Remarks : May cause skin irritation in susceptible persons.
Causes severe skin burns and eye damage.

Components:

ORGANIC ALCOHOL:

Species : Rabbit

Method : OECD Test Guideline 404
Result : Irritating to skin

MIXED KETONES:

Species : Rabbit
Result : Corrosive to skin

MAGNESIUM COMPOUND:

Result : Mildly irritating to skin

INORGANIC ACID:

Result : Causes severe burns.

Serious eye damage/eye irritation

Causes serious eye damage.

Product:

Result : Causes burns.

Remarks : May cause irreversible eye damage.

Components:

ORGANIC ALCOHOL:

Species : Rabbit
Result : Corrosive to eyes
Method : Draize Test

MIXED KETONES:

Species : Rabbit
Result : Corrosive to eyes

MAGNESIUM COMPOUND:

Result : Mildly irritating to eyes

INORGANIC ACID:

Result : Corrosive to eyes

Respiratory or skin sensitisation

Skin sensitisation

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Product:

Remarks : May cause allergic skin reaction.

Components:

MIXED KETONES:

Result : Probability or evidence of high skin sensitisation rate in humans

Germ cell mutagenicity

Not classified based on available information.

Components:

ORGANIC ALCOHOL:

Genotoxicity in vitro : Test Type: Ames test
Result: negative

Carcinogenicity

Not classified based on available information.

IARC	Group 1: Carcinogenic to humans sulphuric acid (Acid mists, strong inorganic)	7664-93-9
OSHA	No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.	
NTP	Known to be human carcinogen sulphuric acid	7664-93-9

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

Components:

ORGANIC ALCOHOL:

Assessment : May cause respiratory irritation.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Product:

No aspiration toxicity classification

Further information

Product:

Remarks : No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 3.5 mg/l
Exposure time: 96 h

NOEC (Pimephales promelas (fathead minnow)): 1.8 mg/l
Exposure time: 96 h

LC50 (Sheepshead minnow (Cyprinodon variegatus)): 26.7 mg/l
Exposure time: 96 h

NOEC (Sheepshead minnow (Cyprinodon variegatus)): 15.5 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : LC 50 (Water flea (Ceriodaphnia dubia)): 4.7 mg/l
Exposure time: 48 h

NOEC (Water flea (Ceriodaphnia dubia)): 0.63 mg/l
Exposure time: 48 h

LC 50 (Daphnia (water flea)): 5 mg/l
Exposure time: 48 h

NOEC (Daphnia (water flea)): 2.5 mg/l
Exposure time: 48 h

Ecotoxicology Assessment

Acute aquatic toxicity : Acute aquatic toxicity Category 2; Toxic to aquatic life.

Chronic aquatic toxicity : Chronic aquatic toxicity Category 1; Very toxic to aquatic life with long lasting effects.

Components:

ORGANIC ALCOHOL:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 41.2 mg/l
Exposure time: 96 h

LC50 (Bluegill (Lepomis macrochirus)): 35.7 mg/l
Exposure time: 96 h

Test Type: flow-through test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.4 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 0.37 mg/l
End point: Growth inhibition
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201

EC50 (Skeletonema costatum (diatom)): 0.25 mg/l
Exposure time: 72 h
Test Type: static test
Method: ISO 10253

NOEC (Skeletonema costatum (diatom)): 0.1 mg/l
End point: Growth inhibition
Exposure time: 72 h
Test Type: static test
Method: ISO 10253

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0.27 mg/l
Exposure time: 21 d
Test Type: flow-through test
Method: OECD Test Guideline 211

MIXED KETONES:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0.19 mg/l
Exposure time: 96 h

LC50 (Lepomis macrochirus (Bluegill sunfish)): 0.28 mg/l
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0.16 mg/l
Exposure time: 48 h

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 0.027 mg/l
Exposure time: 72 h

M-Factor (Acute aquatic toxicity) : 10

M-Factor (Chronic aquatic toxicity) : 1

Toxicity to microorganisms : EC50 (activated sludge): 4.5 mg/l
Test Type: Respiration inhibition

MAGNESIUM COMPOUND:

Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 1,580 - 2,740 mg/l Exposure time: 96 h Method: Static Remarks: Mortality
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 140 mg/l Exposure time: 48 h Method: Static Remarks: Intoxication
Toxicity to algae/aquatic plants	:	EC50 (Desmodesmus subspicatus (green algae)): 2,200 mg/l Exposure time: 72 h

INORGANIC ACID:

Toxicity to fish	:	LC50 (Lepomis macrochirus (Bluegill sunfish)): > 28 mg/l Exposure time: 96 h Method: Static Remarks: Mortality LC50 (Lepomis macrochirus (Bluegill sunfish)): 16 - 28 mg/l Exposure time: 96 h Method: Static Remarks: Mortality
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: Static
Toxicity to algae/aquatic plants	:	EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l Exposure time: 72 h

Persistence and degradability

Components:

ORGANIC ALCOHOL:

Biodegradability	:	Inoculum: activated sludge Result: Readily biodegradable. Biodegradation: 70 - 80 % Exposure time: 28 d Method: OECD Test Guideline 301B
Chemical Oxygen Demand (COD)	:	600 mg/g Remarks: Chemical Oxygen Demand (COD)

MIXED KETONES:

Biodegradability	:	Biodegradation: 30 %

Exposure time: 28 d
Method: OECD Test Guideline 301B
Remarks: Not readily biodegradable.

INORGANIC ACID:

Biodegradability : Result: The methods for determining biodegradability are not applicable to inorganic substances.

Bioaccumulative potential

Components:

ORGANIC ALCOHOL:

Partition coefficient: n-octanol/water : log Pow: 0.22 (75 °F / 24 °C)
pH: 7

MIXED KETONES:

Partition coefficient: n-octanol/water : log Pow: <= 0.71
Method: OECD Test Guideline 117

Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life.
Very toxic to aquatic life with long lasting effects.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

Dispose of in accordance with all applicable local, state and federal regulations.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

UN number	:	UN 3265
Proper shipping name	:	Corrosive liquid, acidic, organic, n.o.s. (5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE)
Class	:	8
Packing group	:	II
Packing instruction (cargo aircraft)	:	855
Packing instruction (passenger aircraft)	:	851
Marine pollutant	:	yes

IMDG-Code

UN number	:	UN 3265
Proper shipping name	:	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE)
Class	:	8
Packing group	:	II
EmS Code	:	F-A, S-B
Marine pollutant	:	yes

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

49 CFR

UN number	:	UN 3265
Proper shipping name	:	Corrosive liquid, acidic, organic, n.o.s. (5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE)
Class	:	8
Packing group	:	II
ERG Code	:	153
Marine pollutant	:	no

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
INORGANIC ACID	Trade Secret	1000	102732

SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
INORGANIC ACID	Trade Secret	1000	102732

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Corrosive to metals
Acute toxicity (any route of exposure)
Respiratory or skin sensitization
Skin corrosion or irritation
Serious eye damage or eye irritation

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

MAGNESIUM NITRATE	10377-60-3	>= 1 - < 5 %

California Prop. 65

Proposition 65 warnings are not required for this product based on the results of a risk assessment performed on the product as delivered and when used as intended.

The components of this product are reported in the following inventories:

TCSI	:	On the inventory, or in compliance with the inventory
TSCA	:	All substances listed as active on the TSCA inventory
AIIC	:	All components are listed on the inventory, regulatory obligations/restrictions apply
DSL	:	All components of this product are on the Canadian DSL
ENCS	:	On the inventory, or in compliance with the inventory
KECI	:	On the inventory, or in compliance with the inventory
PICCS	:	On the inventory, or in compliance with the inventory
IECSC	:	On the inventory, or in compliance with the inventory
NZIOC	:	On the inventory, or in compliance with the inventory

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION

Further information

Revision Date : 08/22/2022

Full text of H-Statements

H301	:	Toxic if swallowed.
H302	:	Harmful if swallowed.
H310	:	Fatal in contact with skin.
H312	:	Harmful in contact with skin.
H314	:	Causes severe skin burns and eye damage.
H315	:	Causes skin irritation.
H317	:	May cause an allergic skin reaction.
H318	:	Causes serious eye damage.
H330	:	Fatal if inhaled.
H335	:	May cause respiratory irritation.

Full text of other abbreviations

Acute Tox.	:	Acute toxicity
Eye Dam.	:	Serious eye damage
Skin Corr.	:	Skin corrosion
Skin Irrit.	:	Skin irritation
Skin Sens.	:	Skin sensitisation
STOT SE	:	Specific target organ toxicity - single exposure
ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL	:	USA. NIOSH Recommended Exposure Limits
OSHA P0	:	USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
ACGIH / TWA	:	8-hour, time-weighted average
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
OSHA P0 / TWA	:	8-hour time weighted average
OSHA Z-1 / TWA	:	8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide;

GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Sources of key data used to compile the Safety Data Sheet
Key literature references and sources of data
SOLENIS Internal data
SOLENIS internal data including own and sponsored test reports
The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. This SDS has been prepared by the Solenis Environmental Health and Safety Department.

US / EN

SECTION 1. IDENTIFICATION

Product identifier

Trade name : Biosperse™ CX9071 MICROBIOCIDE
™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries

Recommended use of the chemical and restrictions on use

Use of the Substance/Mixture : Biocide

Details of the supplier of the safety data sheet	**Emergency telephone number**
Solenis LLC 500 Hercules Road Wilmington, Delaware 19808 United States of America (USA) EHSProductSafetyTeam@solenis.com Solenis LLC	1-844-SOLENIS (844-765-3647) **Product Information** Contact your local Solenis representative

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Corrosive to metals : Category 1

Acute toxicity (Inhalation) : Category 4

Skin corrosion : Category 1

Serious eye damage : Category 1

GHS label elements

Hazard pictograms :

Signal word : Danger

Hazard statements : H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.
H332 Harmful if inhaled.

Precautionary statements :

Prevention:

P234 Keep only in original container.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.
P363 Wash contaminated clothing before reuse.
P390 Absorb spillage to prevent material damage.

Storage:

P405 Store locked up.
P406 Store in corrosive resistant container with a resistant inner liner.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Components

Chemical name	CAS-No.	Classification	Concentration (%)
Sodium N-bromosulfamate	1004542-84-0	Met. Corr. 1; H290 Acute Tox. 4; H302 Skin Corr. 1; H314 Eye Dam. 1; H318	>= 20 - < 30
sodium hydroxide	1310-73-2	Met. Corr. 1; H290 Skin Corr. 1A; H314 Eye Dam. 1; H318	>= 1.5 - < 5

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice	:	Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.
If inhaled	:	Move to fresh air. IF INHALED: Call a POISON CENTER/ doctor if you feel unwell. Keep patient warm and at rest. If unconscious, place in recovery position and seek medical advice.
In case of skin contact	:	If on skin, rinse well with water. Wash contaminated clothing before re-use.
In case of eye contact	:	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Continue rinsing eyes during transport to hospital. Remove contact lenses. Protect unharmed eye.
If swallowed	:	Get medical attention immediately. Do NOT induce vomiting. Rinse mouth with water. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.
Most important symptoms and effects, both acute and delayed	:	Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: irritation (nose, throat, airways) Cough lung edema (fluid buildup in the lung tissue) Difficulty in breathing Causes serious eye damage. Harmful if inhaled. Causes severe burns.
Notes to physician	:	No hazards which require special first aid measures.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water spray Foam Carbon dioxide (CO2) Dry chemical

Unsuitable extinguishing media	:	High volume water jet
Specific hazards during firefighting	:	Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products	:	corrosive vapors Sodium oxides toxic fumes
Specific extinguishing methods	:	Product is compatible with standard fire-fighting agents.
Further information	:	Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Use personal protective equipment. Ensure adequate ventilation. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Comply with all applicable federal, state, and local regulations.
Environmental precautions	:	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up	:	Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
Advice on safe handling	:	Avoid formation of aerosol. Provide sufficient air exchange and/or exhaust in work rooms. Do not breathe vapours/dust. Do not smoke. When diluting, always add the product to water. Never add water to the product. Container hazardous when empty. Avoid contact with skin and eyes. Smoking, eating and drinking should be prohibited in the application area.

For personal protection see section 8.
Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Observe label precautions.
Electrical installations / working materials must comply with the technological safety standards.

Recommended storage temperature : > 25 °F / > -4 °C

Further information on storage stability : No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
sodium hydroxide	1310-73-2	C	2 mg/m3	ACGIH
		C	2 mg/m3	NIOSH REL
		TWA	2 mg/m3	OSHA Z-1
		C	2 mg/m3	OSHA P0

Engineering measures : Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Personal protective equipment

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.

A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any

other circumstances where an air-purifying respirator may not provide adequate protection.

Hand protection

Remarks	:	The suitability for a specific workplace should be discussed with the producers of the protective gloves.
Eye protection	:	Safety glasses
Skin and body protection	:	Wear as appropriate: Impervious clothing Chemical resistant apron Safety shoes Choose body protection according to the amount and concentration of the dangerous substance at the work place. Wear resistant gloves (consult your safety equipment supplier). Discard gloves that show tears, pinholes, or signs of wear.
Hygiene measures	:	Wash hands before breaks and at the end of workday. When using do not eat or drink. Ensure that eyewash stations and safety showers are close to the workstation location. When using do not smoke.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	yellow, to, light orange
Odour	:	mild, chlorine-like
Odour Threshold	:	No data available
pH	:	12 - 13
Melting point/freezing point	:	< 25 °F / < -4 °C
Boiling point/boiling range	:	No data available
Flash point	:	No data available
Evaporation rate	:	No data available
Flammability (solid, gas)	:	The product is not flammable.

Self-ignition	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	No data available
Density	:	1.30 - 1.35 g/cm3
Solubility(ies)		
Water solubility	:	completely soluble
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available
Decomposition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	0.15 - 0.25 Stokes
Oxidizing properties	:	No data available
Metal corrosion rate	:	Corrosive to metals

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No decomposition if stored and applied as directed.
Chemical stability	:	Stable under recommended storage conditions.
Possibility of hazardous reactions	:	Product will not undergo hazardous polymerization.
Conditions to avoid	:	Exposure to sunlight.
Incompatible materials	:	Acids halogenated hydrocarbons Metals organic nitro compounds Strong oxidizing agents

Hazardous decomposition products	:	corrosive vapors Sodium oxides toxic fumes

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Harmful if inhaled.

Product:

Acute inhalation toxicity	:	Assessment: The component/mixture is classified as acute inhalation toxicity, category 4.
Acute dermal toxicity	:	Assessment: The component/mixture is classified as acute dermal toxicity, category 5.

Components:

Sodium N-bromosulfamate:

Acute oral toxicity	:	Assessment: The component/mixture is classified as acute oral toxicity, category 4.

sodium hydroxide:

Acute oral toxicity	:	LDLo (Rabbit): 500 mg/kg

Skin corrosion/irritation

Causes severe burns.

Product:

Result	:	Corrosive to skin
Remarks	:	Causes severe skin burns and eye damage. The feeling of irritation or pain may be delayed.

Components:

Sodium N-bromosulfamate:

sodium hydroxide:

Result	:	Causes severe burns.

Serious eye damage/eye irritation

Causes serious eye damage.

Product:

Result	:	Corrosive to eyes

Remarks : May cause irreversible eye damage.

Components:

Sodium N-bromosulfamate:

Result : Corrosive to eyes

sodium hydroxide:

Result : Corrosive to eyes

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

IARC No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks : No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 9.35 mg/l
End point: mortality
Exposure time: 96 h
Method: OECD Test Guideline 203

NOEC (Pimephales promelas (fathead minnow)): 3.46 mg/l
End point: mortality
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 3.83 mg/l
End point: Immobilization
Exposure time: 48 h
Method: OECD Test Guideline 202

NOEC (Daphnia magna (Water flea)): 1.24 mg/l
End point: Immobilization
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Selenastrum capricornutum (green algae)): 13.4 mg/l
End point: Growth inhibition
Exposure time: 72 h
Method: OECD Test Guideline 201

NOEC (Selenastrum capricornutum (green algae)): 3.46 mg/l
End point: Growth inhibition
Exposure time: 72 h
Method: OECD Test Guideline 201

Ecotoxicology Assessment

Acute aquatic toxicity : Acute aquatic toxicity Category 2; Toxic to aquatic life.

Chronic aquatic toxicity : Not classified based on available information.

Components:

sodium hydroxide:

Toxicity to fish : LC50 (Gambusia affinis (Mosquito fish)): 125 mg/l
Exposure time: 96 h
Method: Static
Remarks: Mortality

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 34.59 - 47.13 mg/l
Exposure time: 48 h

Remarks: Intoxication

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological information	:	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues	:	Dispose of in accordance with all applicable local, state and federal regulations. The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.
Contaminated packaging	:	Empty remaining contents. Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR

UN number	:	UN 1760
Proper shipping name	:	Corrosive liquid, n.o.s. (BROMIDE SALT)
Class	:	8
Packing group	:	III
Packing instruction (cargo aircraft)	:	856
Packing instruction (passenger aircraft)	:	852
Marine pollutant	:	no

IMDG-Code

UN number	:	UN 1760
Proper shipping name	:	CORROSIVE LIQUID, N.O.S. (BROMIDE SALT)
Class	:	8
Packing group	:	III
EmS Code	:	F-A, S-B
Marine pollutant	:	no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

National Regulations

49 CFR

UN number	:	UN 1760
Proper shipping name	:	Corrosive liquids, n.o.s. (BROMIDE SALT)
Class	:	8
Packing group	:	III
ERG Code	:	154
Marine pollutant	:	no

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
sodium hydroxide	1310-73-2	1000	33333

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Corrosive to metals
Acute toxicity (any route of exposure)
Skin corrosion or irritation
Serious eye damage or eye irritation

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop. 65
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

The components of this product are reported in the following inventories:

TCSI	:	Not in compliance with the inventory
TSCA	:	Exempt
AIIC	:	Not in compliance with the inventory
DSL	:	Exempt
ENCS	:	Not in compliance with the inventory
KECI	:	Not in compliance with the inventory
PICCS	:	Not in compliance with the inventory
IECSC	:	Not in compliance with the inventory

TSCA list
No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

Biocides
EPA Reg. # 63838-5-74655

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

Danger, Corrosive., Causes irreversible eye damage., Causes skin burns., Do not get in eyes, on skin or on clothing.

SECTION 16. OTHER INFORMATION

Further information

Revision Date	:	08/22/2022

Full text of H-Statements

H290	:	May be corrosive to metals.
H302	:	Harmful if swallowed.
H314	:	Causes severe skin burns and eye damage.
H318	:	Causes serious eye damage.

Full text of other abbreviations

Acute Tox.	:	Acute toxicity
Eye Dam.	:	Serious eye damage
Met. Corr.	:	Corrosive to metals
Skin Corr.	:	Skin corrosion
ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL	:	USA. NIOSH Recommended Exposure Limits
OSHA P0	:	USA. Table Z-1-A Limits for Air Contaminants (1989 vacated values)
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
ACGIH / C	:	Ceiling limit
NIOSH REL / C	:	Ceiling value not be exceeded at any time.
OSHA P0 / C	:	Ceiling limit
OSHA Z-1 / TWA	:	8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United

Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Sources of key data used to compile the Safety Data Sheet
Key literature references and sources of data
SOLENIS Internal data
SOLENIS internal data including own and sponsored test reports
The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. This SDS has been prepared by the Solenis Environmental Health and Safety Department.

US / EN

SECTION 1. IDENTIFICATION

Product identifier

Trade name : Biosperse™ XD1878 MICROBIOCIDE
™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries

Recommended use of the chemical and restrictions on use

Use of the Substance/Mixture : Biocide

Details of the supplier of the safety data sheet	**Emergency telephone number**
Solenis LLC 500 Hercules Road Wilmington, Delaware 19808 United States of America (USA) RegulatoryRequestsNA@solenis.com Solenis LLC	1-844-SOLENIS (844-765-3647) **Product Information** Contact your local Solenis representative

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious eye damage : Category 1

GHS label elements

Hazard pictograms :

Signal word : Danger

Hazard statements : H318 Causes serious eye damage.

Precautionary statements :

Prevention:

P280 Wear eye protection/ face protection.

Response:

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON

CENTER/ doctor.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Classification	Concentration (%)
Ammonium carbamate	1111-78-0	Acute Tox. 4; H302 Eye Dam. 1; H318	>= 15 - < 20

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.

If inhaled : If breathed in, move person into fresh air.
If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.

In case of skin contact : First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.

In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Continue rinsing eyes during transport to hospital.
Remove contact lenses.
Protect unharmed eye.

If swallowed : Obtain medical attention.
Do NOT induce vomiting.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed : No symptoms known or expected.
Causes serious eye damage.

Notes to physician : No hazards which require special first aid measures.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water spray Foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during firefighting	:	Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products	:	Ammonia Carbon monoxide Carbon dioxide (CO2)
Specific extinguishing methods	:	Product is compatible with standard fire-fighting agents.
Further information	:	Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Use personal protective equipment. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Comply with all applicable federal, state, and local regulations.
Environmental precautions	:	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up	:	Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
Advice on safe handling	:	Do not breathe vapours/dust. Container hazardous when empty. Avoid contact with skin and eyes.

Smoking, eating and drinking should be prohibited in the application area.
For personal protection see section 8.
Dispose of rinse water in accordance with local and national regulations.

Conditions for safe storage : Store between 5 and 25 °C in a dry, well ventilated place away from sources of heat, ignition and direct sunlight.

Keep container tightly closed in a dry and well-ventilated place.
Electrical installations / working materials must comply with the technological safety standards.

Recommended storage temperature : 41 - 77 °F / 5 - 25 °C

Further information on storage stability : No decomposition if stored and applied as directed.

No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures : Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Personal protective equipment

Respiratory protection : Use respirator when performing operations involving potential exposure to vapour of the product.

Hand protection
Material : Impervious gloves

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Wear chemical splash goggles and face shield when there is potential for exposure of the eyes or face to liquid, vapor or mist.
Maintain eye wash station in immediate work area.

Skin and body protection	:	Wear resistant gloves (consult your safety equipment supplier). Wear as appropriate: Impervious clothing Safety shoes Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Hygiene measures	:	Wash hands before breaks and at the end of workday. When using do not eat or drink. When using do not smoke.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	liquid
Colour	:	clear
Odour	:	ammoniacal, strong
Odour Threshold	:	Not applicable
pH	:	10.4 - 11.0
Melting point/freezing point	:	9 °F / -13 °C
Boiling point/boiling range	:	180 °F / 82 °C
Flash point	:	does not flash
Evaporation rate	:	0.160
Flammability (solid, gas)	:	No data available
Burning rate	:	Not applicable
Self-ignition	:	not auto-flammable
Upper explosion limit / Upper flammability limit	:	Not applicable
Lower explosion limit / Lower flammability limit	:	Not applicable
Vapour pressure	:	127 hPa (75.4 °F / 24.1 °C) Method: ASTM D 2879-86
Relative vapour density	:	0.6 (77 °F / 25 °C)
Relative density	:	1 (77 °F / 25 °C)
Density	:	1.156 g/cm3 (77 °F / 25 °C)

Bulk density	:	1.156 g/cm3
Solubility(ies)		
Water solubility	:	completely soluble
Solubility in other solvents	:	soluble Solvent: Alcohol
Partition coefficient: n-octanol/water	:	No data available
Decomposition temperature	:	Not applicable
Viscosity		
Viscosity, dynamic	:	5.13 cps (77 °F / 25 °C) Method: Brookfield
Viscosity, kinematic	:	No data available
Explosive properties	:	Not explosive
Oxidizing properties	:	Not applicable

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No decomposition if stored and applied as directed.
Chemical stability	:	Stable under recommended storage conditions.
Possibility of hazardous reactions	:	Product will not undergo hazardous polymerization.
Conditions to avoid	:	Heat
Incompatible materials	:	Acids Bases nitrites sodium nitrate
Hazardous decomposition products	:	Ammonia Carbon monoxide Carbon dioxide (CO2)

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity	:	LD50 (Rat): 3,400 mg/kg Method: OECD Test Guideline 425
Acute inhalation toxicity	:	LC 50 (Rat): > 1.9 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Assessment: No adverse effect has been observed in acute inhalation toxicity tests.
Acute dermal toxicity	:	LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 402

Components:

Ammonium carbamate:

Acute oral toxicity	:	LD50 (Rat): 1,080 mg/kg Method: OECD Test Guideline 425
Acute dermal toxicity	:	LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 402

Skin corrosion/irritation

Not classified based on available information.

Product:

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	Not irritating to skin

Components:

Ammonium carbamate:

Species	:	Rabbit
Result	:	Not irritating to skin

Serious eye damage/eye irritation

Causes serious eye damage.

Product:

Species	:	Rabbit
Result	:	Corrosive to eyes
Method	:	OECD Test Guideline 405
Remarks	:	May cause irreversible eye damage.

Components:

Ammonium carbamate:

Species	:	Rabbit

Result : Corrosive to eyes

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

Ammonium carbamate:

Test Type : Local lymph node assay (LLNA)
Species : Mouse

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

IARC No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Product:

No aspiration toxicity classification

Further information

Product:

Remarks : No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 296 mg/l
Exposure time: 24 h
Test Type: static test
Test substance: An aqueous solution was tested.
Method: OECD Test Guideline 202
GLP: no

EC50 (Daphnia magna (Water flea)): 280 mg/l
Exposure time: 48 h
Test Type: static test
Test substance: An aqueous solution was tested.
Method: OECD Test Guideline 202
GLP: no

NOEC (Daphnia magna (Water flea)): 109 mg/l
Exposure time: 48 h
Test Type: static test
Test substance: An aqueous solution was tested.
Method: OECD Test Guideline 202
GLP: no

Ecotoxicology Assessment

Acute aquatic toxicity : Not classified based on available information.

Chronic aquatic toxicity : Not classified based on available information.

Components:

Ammonium carbamate:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 21 mg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 203

LC50 (Lepomis macrochirus (Bluegill sunfish)): 35 mg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC 50 (Daphnia magna (Water flea)): 42 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202

Toxicity to algae/aquatic : EC 50 (green algae): 129.13 mg/l

plants — Exposure time: 72 h

Toxicity to microorganisms : EC20 (activated sludge): 1,000 mg/l
Exposure time: 0.5 h
Method: OECD Test Guideline 209

EC 50 (Bacteria): 1,180 mg/l
Exposure time: 17 h
Method: DIN 38412

Persistence and degradability

Product:

Biodegradability : Remarks: The methods for determining biodegradability are not applicable to inorganic substances.

Bioaccumulative potential

Components:

Ammonium carbamate:

Partition coefficient: n-octanol/water : log Pow: -0.47 (77 °F / 25 °C)

Mobility in soil

No data available

Other adverse effects

Product:

Results of PBT and vPvB assessment : This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT). This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

Additional ecological information : No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of in accordance with all applicable local, state and federal regulations.

Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR
Not regulated as a dangerous good

IMDG-Code
Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as supplied.

National Regulations

49 CFR
Not regulated as a dangerous good

Special precautions for user
The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Ammonium carbamate	1111-78-0	5000	25641

SARA 304 Extremely Hazardous Substances Reportable Quantity
This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity
This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Serious eye damage or eye irritation

SARA 313 : 2.18% of ammonium carbamate (CASRN 1111-78-0) is calculated as ammonia for reporting purposes; see EPA SARA 313 guidance on reporting "dissociable ammonium salt".

Ammonium carbamate	1111-78-0	19.5 %
Ammonium hydroxide	1336-21-6	0.1275 %

The following components are subject to reporting levels established by SARA Title III, Section 313:

Ammonium carbamate	1111-78-0	>= 10 - < 20 %

California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

The components of this product are reported in the following inventories:

TCSI	:	On the inventory, or in compliance with the inventory
TSCA	:	All substances listed as active on the TSCA inventory
AIIC	:	On the inventory, or in compliance with the inventory
DSL	:	All components of this product are on the Canadian DSL
ENCS	:	On the inventory, or in compliance with the inventory
KECI	:	On the inventory, or in compliance with the inventory
PICCS	:	On the inventory, or in compliance with the inventory
IECSC	:	On the inventory, or in compliance with the inventory

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

Biocides

EPA Reg. # 74655-34

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for

workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

Danger, Corrosive., Causes irreversible eye damage., Harmful if swallowed., Do not get in eyes, on skin or on clothing.

SECTION 16. OTHER INFORMATION

Further information

Revision Date : 05/07/2021

Full text of H-Statements

H302 : Harmful if swallowed.
H318 : Causes serious eye damage.

Full text of other abbreviations

Acute Tox. : Acute toxicity
Eye Dam. : Serious eye damage

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Phiippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations

Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Sources of key data used to compile the Safety Data Sheet
Key literature references and sources of data
SOLENIS Internal data
SOLENIS internal data including own and sponsored test reports
The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. This SDS has been prepared by the Solenis Environmental Health and Safety Department.

US / EN

SECTION 1. IDENTIFICATION

Product identifier

Trade name : Spectrum™ XD3899 MICROBIOCIDE AGENT
™ Trademark, Solenis or its subsidiaries or affiliates, registered in various countries

Recommended use of the chemical and restrictions on use

Use of the Substance/Mixture : Biocide

Details of the supplier of the safety data sheet	**Emergency telephone number**
Solenis LLC 500 Hercules Road Wilmington, Delaware 19808 United States of America (USA) EHSProductSafetyTeam@solenis.com	1-844-SOLENIS (844-765-3647) **Product Information** Contact your local Solenis representative

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Reproductive toxicity : Category 2

Specific target organ toxicity - single exposure : Category 3 (Central nervous system)

Specific target organ toxicity - repeated exposure : Category 2 (Nervous system)

GHS label elements

Hazard pictograms :

Signal word : Warning

Hazard statements : H336 May cause drowsiness or dizziness.
H361 Suspected of damaging fertility or the unborn child.
H373 May cause damage to organs (Nervous system) through prolonged or repeated exposure.

Precautionary statements :

Prevention:

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe mist or vapours.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell.
P308 + P313 IF exposed or concerned: Get medical advice/ attention.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Classification	Concentration (%)
AMMONIUM BROMIDE	12124-97-9	Eye Irrit. 2A; H319 Repr. 2; H361 STOT SE 3; H336 STOT RE 2; H373	>= 30 - < 40

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.
Call a POISON CENTRE or doctor/physician if exposed or you feel unwell.
Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

If inhaled	:	Move to fresh air. If unconscious, place in recovery position and seek medical advice. Consult a physician after significant exposure.
In case of skin contact	:	First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.
In case of eye contact	:	Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. If eye irritation persists, consult a specialist.
If swallowed	:	Obtain medical attention. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.
Most important symptoms and effects, both acute and delayed	:	Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: stomach or intestinal upset (nausea, vomiting, diarrhea) irritation (nose, throat, airways) effects on memory Blurred vision May cause drowsiness or dizziness. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.
Notes to physician	:	No hazards which require special first aid measures.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water spray Foam Carbon dioxide (CO2) Dry chemical
Unsuitable extinguishing media	:	High volume water jet
Specific hazards during firefighting	:	Do not allow run-off from fire fighting to enter drains or water courses.
Hazardous combustion products	:	hydrogen bromide Ammonia

Specific extinguishing methods	:	Product is compatible with standard fire-fighting agents.
Further information	:	Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Special protective equipment for firefighters	:	In the event of fire, wear self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	:	Use personal protective equipment. Ensure adequate ventilation. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Comply with all applicable federal, state, and local regulations.
Environmental precautions	:	Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.
Methods and materials for containment and cleaning up	:	Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against fire and explosion	:	Normal measures for preventive fire protection.
Advice on safe handling	:	Avoid formation of aerosol. Provide sufficient air exchange and/or exhaust in work rooms. Do not breathe vapours/dust. Do not smoke. Container hazardous when empty. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. Smoking, eating and drinking should be prohibited in the application area. For personal protection see section 8. Dispose of rinse water in accordance with local and national regulations.
Conditions for safe storage	:	Keep container tightly closed in a dry and well-ventilated place. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

Further information on storage stability : No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures : Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Personal protective equipment

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.

A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.

Hand protection

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye protection : Not required under normal conditions of use. Wear splash-proof safety goggles if material could be misted or splashed into eyes.

Skin and body protection : Wear as appropriate:
Impervious clothing
Safety shoes
Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Wear resistant gloves (consult your safety equipment supplier).

Hygiene measures : Wash hands before breaks and at the end of workday.
When using do not eat or drink.
When using do not smoke.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Aqueous solution
Colour	:	colourless, light yellow
Odour	:	odourless
Odour Threshold	:	No data available
pH	:	ca. 6.6
Melting point/freezing point	:	ca. 25 - 30 °F / -4 - -1 °C
Boiling point/boiling range	:	No data available
Flash point	:	Not applicable
Evaporation rate	:	< 1 butyl acetate=1
Flammability (solid, gas)	:	No data available
Self-ignition	:	No data available
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	Not applicable
Relative vapour density	:	< 1 AIR=1
Relative density	:	ca. 1.23
Density	:	ca. 1.23 g/cm3
Solubility(ies)		
Water solubility	:	completely soluble
Solubility in other solvents	:	No data available
Partition coefficient: n-octanol/water	:	No data available

Decomposition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	< 10 mPa.s
Viscosity, kinematic	:	No data available
Oxidizing properties	:	No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	No decomposition if stored and applied as directed.
Chemical stability	:	Stable under recommended storage conditions.
Possibility of hazardous reactions	:	Product will not undergo hazardous polymerization.
Conditions to avoid	:	Exposure to moisture
Incompatible materials	:	Acids Bases Heavy metal salts Potassium Silver Strong oxidizing agents
Hazardous decomposition products	:	Ammonia hydrogen bromide

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg Assessment: The substance or mixture has no acute oral toxicity Remarks: Information given is based on tests on the mixture itself.
Acute dermal toxicity	:	LD50 (Rat): > 5,000 mg/kg

Components:

AMMONIUM BROMIDE:

Acute oral toxicity	:	LD50 (Rat, male and female): 2,714 mg/kg Method: OECD Test Guideline 401

Acute inhalation toxicity	:	LC50 (Rat, male and female): > 0.1 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403 Assessment: Not classified as acutely toxic by inhalation under GHS.
Acute dermal toxicity	:	LD50 (Rat, male and female): > 2,000 mg/kg GLP: yes Assessment: No adverse effect has been observed in acute dermal toxicity tests.

Skin corrosion/irritation

Not classified based on available information.

Product:

Species	:	Rabbit
Result	:	Not irritating to skin

Components:

AMMONIUM BROMIDE:

Species	:	Rabbit
Method	:	OECD Test Guideline 404
Result	:	Not irritating to skin
GLP	:	yes

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Result	:	No eye irritation
Remarks	:	Unlikely to cause eye irritation or injury.

Components:

AMMONIUM BROMIDE:

Result	:	Irritating to eyes

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Product:

Components:

AMMONIUM BROMIDE:

Test Type	:	Maximisation Test
Exposure routes	:	Dermal
Species	:	Guinea pig
Method	:	OECD Test Guideline 406
GLP	:	yes

Germ cell mutagenicity

Not classified based on available information.

Product:

Genotoxicity in vitro : Test Type: Ames test
Result: negative
Remarks: Information refers to the main component.

Components:

AMMONIUM BROMIDE:

Genotoxicity in vitro : Test Type: Ames test
Test system: Salmonella typhimurium
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
GLP: yes

Test Type: In vitro mammalian cell gene mutation test
Test system: mouse lymphoma cells
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative
GLP: yes

Test Type: Chromosome aberration test in vitro
Test system: Human lymphocytes
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 473
Result: negative
GLP: yes
Remarks: Information given is based on data obtained from similar substances.

Genotoxicity in vivo : Test Type: In vivo micronucleus test
Species: Mouse (male and female)
Cell type: Bone marrow
Application Route: Ingestion
Method: OECD Test Guideline 474
Result: negative
GLP: yes

Carcinogenicity

Not classified based on available information.

IARC No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Suspected of damaging fertility or the unborn child.

Components:

AMMONIUM BROMIDE:

Effects on fertility	:	Test Type: Two-generation study Species: Rat, male and female Application Route: Oral General Toxicity - Parent: NOAEL: 1,600 mg/l General Toxicity F1: NOAEL: 1,600 mg/l Method: OECD Test Guideline 416 GLP: yes
Reproductive toxicity - Assessment	:	Some evidence of adverse effects on sexual function and fertility, and/or on development, based on animal experiments.

STOT - single exposure

May cause drowsiness or dizziness.

Components:

AMMONIUM BROMIDE:

Assessment	:	May cause drowsiness or dizziness.

STOT - repeated exposure

May cause damage to organs (Nervous system) through prolonged or repeated exposure.

Components:

AMMONIUM BROMIDE:

Target Organs	:	Nervous system
Assessment	:	May cause damage to organs through prolonged or repeated exposure.

Aspiration toxicity

Not classified based on available information.

Product:

No aspiration toxicity classification

Further information

Product:

Remarks : Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
Concentrations substantially above the TLV value may cause narcotic effects.
Solvents may degrease the skin.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): > 1,000 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

LC50 (Oncorhynchus mykiss (rainbow trout)): > 1,000 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1,000 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Ecotoxicology Assessment

Acute aquatic toxicity : Not classified based on available information.

Chronic aquatic toxicity : Not classified based on available information.

Components:

AMMONIUM BROMIDE:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): > 1,000 mg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 203
GLP: no

Toxicity to daphnia and other aquatic invertebrates : (Daphnia magna (Water flea)): > 1,000 mg/l
Exposure time: 48 h
Test Type: static test
Analytical monitoring: no
GLP: yes

Persistence and degradability

Product:

Chemical Oxygen Demand (COD) : 324,000 mg/l

Components:

AMMONIUM BROMIDE:

Biodegradability : Result: The methods for determining biodegradability are not applicable to inorganic substances.

Bioaccumulative potential

Components:

AMMONIUM BROMIDE:

Bioaccumulation : Bioconcentration factor (BCF): 2.3

Mobility in soil

No data available

Other adverse effects

Product:

Additional ecological information : No data available

Components:

AMMONIUM BROMIDE:

Additional ecological information : No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Dispose of in accordance with all applicable local, state and federal regulations.

Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Empty containers should be taken to an approved waste handling site for recycling or disposal.

Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International Regulations

IATA-DGR
Not regulated as a dangerous good

IMDG-Code
Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as supplied.

National Regulations

49 CFR
Not regulated as a dangerous good

Special precautions for user
The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

SARA 304 Extremely Hazardous Substances Reportable Quantity
This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity
This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Reproductive toxicity
Specific target organ toxicity (single or repeated exposure)

SARA 313 : The following components are subject to reporting levels established by SARA Title III, Section 313:

AMMONIUM BROMIDE	12124-97-9	35 %

The following components are subject to reporting levels established by SARA Title III, Section 313:

AMMONIUM BROMIDE	12124-97-9	>= 30 - < 50 %

California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

The components of this product are reported in the following inventories:

TCSI	:	On the inventory, or in compliance with the inventory
TSCA	:	Exempt
AIIC	:	All components are listed on the inventory, regulatory obligations/restrictions apply
DSL	:	Exempt
ENCS	:	On the inventory, or in compliance with the inventory
KECI	:	On the inventory, or in compliance with the inventory
PICCS	:	On the inventory, or in compliance with the inventory
IECSC	:	On the inventory, or in compliance with the inventory
NZIOC	:	On the inventory, or in compliance with the inventory

TSCA list

Exempt- This product is exempt from Significant New Use Rule requirements. See information under Biocides for product registration information."

Exempt-This product is exempt from TSCA 12(b) requirements. See information under Biocides for product registration information."

Biocides

EPA Reg. # 8622-64-74655

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

Caution., Causes moderate eye irritation., Avoid contact with eyes or clothing.

SECTION 16. OTHER INFORMATION

Further information

Revision Date	:	11/01/2022

Full text of H-Statements

H319	:	Causes serious eye irritation.
H336	:	May cause drowsiness or dizziness.
H361	:	Suspected of damaging fertility or the unborn child.
H373	:	May cause damage to organs through prolonged or repeated exposure.

Full text of other abbreviations

Eye Irrit.	:	Eye irritation
Repr.	:	Reproductive toxicity
STOT RE	:	Specific target organ toxicity - repeated exposure
STOT SE	:	Specific target organ toxicity - single exposure

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

Sources of key data used to compile the Safety Data Sheet
Key literature references and sources of data
SOLENIS Internal data
SOLENIS internal data including own and sponsored test reports
The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. This SDS has been prepared by the Solenis Environmental Health and Safety Department.

US / EN

Jackson, Scott A

Subject: RE: KC draft permit renewal - NPDES Permit No. AL0002801

From: Strickland, LeeAnne <LeeAnne.Strickland@kcc.com>
Sent: Friday, January 19, 2024 3:17 PM
To: Jackson, Scott A <scott.jackson@adem.alabama.gov>
Cc: Chris Nobles <cnobles@hargrove-epc.com>
Subject: RE: KC draft permit renewal - NPDES Permit No. AL0002801

Dear Mr. Jackson: Please find attached an updated Form 187 page 5 regarding Cooling Water Intake and Structure(s) requested by The State on December 26, 2023. The only small issue I had was that question #6 on Form 187. Question #6 in 2015 was one combined question, and now it is question #6.a. and #6.b. with two separate questions, and the form will not allow you to answer yes to both. The answers to both 6.a. and 6.b. should be yes, as K-C operates multiple cooling towers (3), of various flow-through designs. If you have any questions or require me to conduct additional updates, just let me know. Glad to help.

Sincerely,

L.A.
251-330-2464
LeeAnne.Strickland@kcc.com

Cooling Water Intake Structure Information

Complete D.1 and D.2 if your water supply is provided by an outside source and not by an onsite water intake structure? (e.g., another industry, municipality, etc...)

1. Does the provider of your source water operate a surface water intake? ☐ Yes ☐ No
   (If yes, continue, if no, go to Section E.)
   a) Name of Provider: Mobile Area Water and Sewer System b) Location of Provider: 207 N. Catherine St. Mobile, AL.
   c) Latitude: 30.72024 Longitude: -88.30369

2. 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 ☒ No (If yes, go to Section E, if no, continue.)

Only to be completed if you have a cooling water intake structure or the provider of your water supply uses an intake structure and does not treat the raw water.

3. Is any water withdrawn from the source water used for cooling? ☒ Yes ☐ No

4. Using the average monthly measurements over any 12-month period, approximately what percentage of water withdrawn is used exclusively for cooling purposes? 1.9 %

5. Does the cooling water consist of treated effluent that would otherwise be discharged? ☐ Yes ☒ No
   (If yes, go to Section E, if no, complete D.6 – D.17)

6. a. Is the cooling water used in a once-through cooling system? ☒ Yes ☐ No

   b. Is the cooling water used in a closed cycle cooling system? ☒ Yes ☐ No

7. When was the intake installed? 1952
   (Please provide dates for all major construction/installation of intake components including screens)

8. What is the maximum intake volume? 200 MGD
   (maximum pumping capacity in gallons per day)

9. What is the average intake volume? 70 MGD
   (average intake pump rate in gallons per day average in any 30-day period)

10. What is the actual intake flow (AIF) as defined in 40 CFR §125.92(a)? _____MGD

11. How is the intake operated? (e.g., continuously, intermittently, batch) Continuously

12. What is the mesh size of the screen on your intake? 1" Square

13. What is the intake screen flow-through area? 750 square feet

14. What is the through-screen design intake flow velocity? _____ft/sec

15. What is the through-screen actual velocity (in ft/sec)? _____ft/sec

16. What is the mechanism for cleaning the screen? (e.g., does it rotate for cleaning) manual

17. Do you have any additional fish detraction technology on your intake? ☐ Yes ☒ No

18. Have there been any studies to determine the impact of the intake on aquatic organisms? ☐ Yes ☒ No (If yes, please provide.)

19. Attach a site map showing the location of the water intake in relation to the facility, shoreline, water depth, etc.