EDWARD F. POOLOS
DIRECTOR

JEFFERY W. KITCHENS
DEPUTY DIRECTOR

KAY IVEY
GOVERNOR

Alabama Department of Environmental Management
adem.alabama.gov
1400 Coliseum Blvd. 36110-2400 ▪ Post Office Box 301463
Montgomery, Alabama 36130-1463
(334) 271-7700 ▪ FAX (334) 271-7950

JAN 15 2026

MR. JEFF JORDAN
PLANT MANAGER
STELLA-JONES CORPORATON
100 MCKINNEY DRIVE
CLANTON, AL 35045

RE: DRAFT PERMIT
NPDES PERMIT NUMBER AL0080543

Dear Mr. Jordan:

Transmitted herein is a draft of the referenced permit.

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

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

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

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 Wayne Holt by e-mail at **WHolt@adem.alabama.gov** or by phone at **(334) 271-7847.**

Sincerely,

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

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

Coastal Office
[illegible] South Broad Street
Mobile, AL 36605
(251) 450-3400
(251) 479-2593 (FAX)

Alabama Department of Environmental Management

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT

PERMITTEE: STELLA-JONES CORPORATION

FACILITY LOCATION: STELLA-JONES COPORATION - CLANTON
100 MCKINNEY DRIVE
CLANTON, ALABAMA 35045
CHILTON COUNTY

PERMIT NUMBER: AL0080543

RECEIVING WATERS: DSN002 – DSN004: UNNAMED TRIBUTARY TO YELLOW LEAF 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
Water Division Chief

Table of Contents

Table of Contents (continued)

PART I: DISCHARGE LIMITATIONS, CONDITIONS, AND REQUIREMENTS

A. DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS

DSN002Q – DSN004Q: Storm water associated with wood treating operations involving Creosote, Borate, or Copper Naphthenate 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
pH (00400) Effluent Gross Value	*****	*****	*****	(Report) Minimum Daily	*****	(Report) Maximum Daily	S.U.	Quarterly	Grab	All Months
Solids, Total Suspended (00530) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Quarterly	Grab	All Months
Oil & Grease (00556) Effluent Gross Value	*****	*****	*****	*****	*****	15 Maximum Daily	mg/l	Quarterly	Grab	All Months
Arsenic, Total (As As) (01002) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months
Chromium, Total (As Cr) (01034) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months
Copper, Total (As Cu) (01042) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months
Acenaphthylene (34200) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months
Acenaphthene (34205) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months
Benzo (K) Fluoranthene (34242) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Quarterly	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.

DSN002Q – DSN004Q (Continued): Storm water associated with wood treating operations involving Creosote, Borate, or Copper Naphthenate 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
Benzo (A) Pyrene (34247) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months
Chrysene (34320) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months
Fluorene (34381) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months
Phenanthrene (34461) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months
2,4-Dimethylphenol (34606) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months
2,4,6-Trichlorophenol (34621) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months
Phenols (46000) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months
Flow, In Conduit or Thru Treatment Plant (50050) Effluent Gross Value	*****	(Report) Maximum Daily	MGD	*****	*****	*****	*****	Quarterly	Estimate	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.

DSN002S – DSN004S: Storm water associated with wood treating operations involving Creosote, Borate, or Copper Naphthenate 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
Polynuclear Aromatic Hydrocarbons (PAH) (22456) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/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.

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

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

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

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

(1) If the permittee is unable to complete the electronic submittal of DMR data due to technical problems originating with the Department's electronic system (this could include entry/submittal issues with an entire set of DMRs or individual parameters), the permittee is not relieved of their obligation to submit DMR data to the Department by the date specified in Provision I.C.1.b, unless otherwise directed by the Department.

If the Department's electronic system is down on the 28th day of the month in which the DMR is due or is down for an extended period of time, as determined by the Department, when a DMR is required to be submitted, the permittee may submit the data in an alternate manner and format acceptable to the Department. Preapproved alternate acceptable methods include faxing, e-mailing, mailing, or hand-delivery of data such that they are received by the required reporting date. Within 5 calendar days of the Department's electronic system resuming operation, the permittee shall enter the data into the Department's electronic system, unless an alternate timeframe is approved by the Department. A comment should be included on the electronic DMR submittal verifying the original submittal date (date of the fax, copy of the dated e-mail, or hand-delivery stamped date), if applicable.

(2) The permittee may submit a request to the Department for a temporary electronic reporting waiver for DMR submittals. The waiver request should include the permit number; permittee name; facility/site name; facility address; name, address, and contact information for the responsible official or duly authorized representative; a detailed statement regarding the basis for requesting such a waiver; and the duration for which the waiver is requested. Approved electronic reporting waivers are not transferrable.

Permittees with an approved electronic reporting waiver for DMRs may submit hard copy DMRs for the period that the approved electronic reporting waiver request is effective. The permittee shall submit the Department-approved DMR forms to the address listed in Provision I.C.1.e.

(3) If a permittee is allowed to submit a hard copy DMR, the DMR must be legible and bear an original signature. Photo and electronic copies of the signature are not acceptable and shall not satisfy the reporting requirements of this permit.

(4) If the permittee, using approved analytical methods as specified in Provision I.B.2, monitors any discharge from a point source for a limited substance identified in Provision I.A. of this permit more frequently than required by this permit, the results of such monitoring shall be included in the calculation and reporting of values on the DMR and the increased frequency shall be indicated on the DMR.

(5) In the event no discharge from a point source identified in Provision I.A. of this permit and described more fully in the permittee's application occurs during a monitoring period, the permittee shall report "No Discharge" for such period on the appropriate DMR.

d. All reports and forms required to be submitted by this permit, the AWPCA and the Department's Rules, shall be electronically signed (or, if allowed by the Department, traditionally signed) by a "responsible official" of the permittee as defined in ADEM Administrative Code Rule 335-6-6-.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. **Within 180 days from the effective date of this Permit, the Permittee shall submit to the Department a Pollutant Minimization Plan prepared by an Alabama Licensed Professional Engineer which evaluates methods to prevent or minimize the potential for the release of all pollutants in discharges through Outfalls DSN002, DSN003 and DSN004. At a minimum, the Minimization Plan shall consider the following:**

   a) Identification of all pollutant sources at the facility
   b) A list of operational BMPs currently employed at the facility, and when they were first implemented
   c) A list of structural BMPs currently employed at the facility, and when they were first implemented
   d) An evaluation of the effectiveness of the BMPs currently employed at the site
   e) An evaluation of implementing additional BMPs, control measures, and corrective actions. The evaluation should consider predicted reduction levels and a cost benefit analysis of the actions considered. The evaluation should provide a recommendation for additional BMPs, control measures, and corrective actions to be implemented at the site.
   f) A review of standard operating procedures for BMP inspections, maintenance, training, and corrective action procedures
   g) An operation and maintenance schedule for all BMPs and control measures implemented and/or to be implemented at the site
   h) A schedule of implementation for actions recommended by the Professional Engineer in the Minimization Plan

3. 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. Routine inspections should be done at a frequency to ensure that the BMP is continually implemented and effective and in no case less frequent than once per year;

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.

ADEM PERMIT RATIONALE

PREPARED DATE: December 22, 2025
PREPARED BY: Wayne Holt

Permittee Name: Stella-Jones Corporation

Facility Name: Stella-Jones Coporation - Clanton

Permit Number: AL0080543

PERMIT IS REISSUANCE DUE TO EXPIRATION

DISCHARGE SERIAL NUMBERS (DSN) & DESCRIPTIONS:

DSN	Description
002-004	Storm water associated with wood treating operations involving Creosote, Borate, or Copper Naphthenate

INDUSTRIAL CATEGORY: NON-CATEGORICAL

MAJOR: **No**

STREAM INFORMATION:

Receiving Stream:	Unnamed Tributary to Yellow Leaf Creek*
Classification:	Fish and Wildlife
River Basin:	Coosa River Basin
7Q10:	0.03 CFS
7Q2:	0.11 CFS
1Q10:	0.02 CFS
AA:	1.2 CFS
303(d) List:	NO**
Impairment:	N/A**
TMDL:	NO

*Locally known as Gum Creek

** The U.T. to Yellow Leaf Creek is not listed on the 303(d) List of Impaired Waters; however, Yellow Leaf Creek is listed for siltation (habitat alteration). Additional discussion can be found below.

DISCUSSION:
The facility processes and preserves wood products by the pressure-treating process. Creosote solution, borate, and copper naphthenate are used as preservatives. The primary end products are a variety of pressure-treated forest products, mainly for the railroad industry including railroad crossties. The facility maintains a treated storage yard where finished products await shipment. This permit authorizes the discharge of stormwater only.

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.

EPA has not promulgated specific guidelines for the discharges covered under the proposed permit. Proposed permit limits are based on Best Professional Judgment. The proposed frequencies are based on a review of site specific conditions and an evaluation of similar facilities..

DSN002Q – DSN004Q: Storm water associated with wood treating operations involving Creosote and Borate or Copper Naphthenate

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.	Quarterly	Grab	All Months	BPJ
Solids, Total Suspended (00530) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Quarterly	Grab	All Months	BPJ
Oil & Grease (00556) Effluent Gross Value	*****	*****	*****	*****	*****	15 Maximum Daily	mg/l	Quarterly	Grab	All Months	BPJ
Arsenic, Total (As As) (01002) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months	BPJ
Chromium, Total (As Cr) (01034) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months	BPJ
Copper, Total (As Cu) (01042) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months	BPJ
Acenaphthylene (34200) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months	BPJ
Acenaphthene (34205) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months	BPJ
Benzo (K) Fluoranthene (34242) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months	BPJ
Benzo (A) Pyrene (34247) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months	BPJ
Chrysene (34320) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months	BPJ
Fluorene (34381) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months	BPJ
Phenanthrene (34461) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months	BPJ
2,4-Dimethylphenol (34606) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months	BPJ
2,4,6-Trichlorophenol (34621) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months	BPJ
Phenols (46000) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/l	Quarterly	Grab	All Months	BPJ
Flow, In Conduit or Thru Treatment Plant (50050) Effluent Gross Value	*****	(Report) Maximum Daily	MGD	*****	*****	*****	*****	Quarterly	Estimate	All Months	BPJ

DSN002S – DSN004S: Storm water associated with wood treating operations involving Creosote and Borate or Copper Naphthenate

Parameter	Quantity or Loading		Units	Quality or Concentration			Units	Sample Frequency	Sample Type	Seasonal	Basis
Polynuclear Aromatic Hydrocarbons (PAH) (22456) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	ug/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
This permit authorizes the discharge of stormwater from wood treating operations. The quarterly and semi-annual frequencies should allow the Department to evaluate the effectiveness of the facility's BMPs without being overly burdensome.

Best Professional Judgment (BPJ)
The parameters of concern for 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. The parameters with specific limits are discussed below:

Oil & Grease
The daily maximum limit for Oil and Grease should prevent the occurrence of a visible sheen in the stream and has been shown to be achievable using proper BMPs.

pH
Based on historical DMR data, the discharge is not expected to have a significant impact on the pH in the receiving stream; therefore, it is proposed to continue to monitor pH without limitations.

Other Parameters
Based on the nature of the operations at the facility, the following parameters will continue to be monitored to ensure the effectiveness of the facility's BMP plans.

- Total Suspended Solids
- Acenaphthene
- Acenaphthylene
- Benzo(k)fluoranthene
- Benzo(a)pyrene
- Chrysene
- Florene
- Phenanthrene
- Pentachlorophenol
- 2-4-Dimethylphenol
- Phenols
- 4,6-Trichlorophenol
- Total Recoverable Copper
- Total Recoverable Chromium
- Total Recoverable Arsenic
- PAHs

This Permit has historically required monitoring for benzo(a)fluoranthene, and the rationales have historically referenced benzo(k)fluoranthene. Additionally, the facility provided data for benzo(k) in the application. In order to be consistent with similar monitoring requirements at other permitted wood preservative facilities in the state, monitoring for benzo(k)fluoranthene is proposed to replace monitoring for benzo(a)fluoranthene. The monitoring frequency shall remain quarterly.

Federal Effluent Guideline Limitations (EGL)
Process wastewater discharges from wood preservation is expressly prohibited in the federal effluent guidelines.

303(d) List of Impaired Waters
The ultimate receiving stream, Yellow Leaf Creek, is listed on the 2024 303(d) List of Impaired Waters for siltation. The source of this impairment is from agriculture. The facility is not expected to significantly contribute to this impairment, and therefore, no additional monitoring is proposed at this time.

Pollutant Minimization Plan
A review of the DMR data available indicates elevated levels of several pollutants in stormwater discharges at the facility. The elevated levels can be indicative of insufficient runoff controls and inadequate BMPs. As part of this permit issuance, due to the reported elevated levels and the facility discharging into a low-flow stream, the Permittee will be required to develop a pollutant minimization plan, which aims to reduce the levels of all pollutants in the discharge. Specific requirements can be found in Part I.E.2. of the Permit.

Best Management Practices 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.

The Department has updated the BMP language, located in Part IV.A.2.g of the Permit. The Permit Condition now states "Provide for routine inspections, or 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. Routine inspections should be done at a frequency to ensure that the BMP is continually implemented and effective and in no case less frequent than once per year." This clarification was added to be consistent with 40 CFR Part 122.43(c).

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

version 2.11

(Submission #: HQD-5741-3B6D5, version 1)

Details

Submission ID HQD-5741-3B6D5

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) 271-7799

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:
N/A

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):
AL0080543

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

Is a new stormwater outfall being added?
No

Permit Information

Permit Number
AL0080543

Current Permittee Name
Stella-Jones Corporation

Permittee

Permittee Name
Stella-Jones Corporation

Mailing Address

100 McKinney Drive

Clanton, AL 35045

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

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

Responsible Official

Prefix
Mr.

First Name	Last Name
Jeff	Jordan

Title
Plant Manager

Organization Name
Stella-Jones Corporaton

Phone Type	Number	Extension
Business	2052803950	

Email
jjordan@stella-jones.com

Mailing Address

100 McKinney Drive

Clanton, AL 35045

Does the Responsible Official intend to delegate signatory authority for DMRs or other compliance reports to an individual as a duly authorized representative (DAR) for this site?
No

Existing Permit Contacts

Affiliation Type	Contact Information	Remove?
Environmental Contact,Environmental Contact,DMR Contact,DMR Contact	Jamie (Mitchell) Davenport, Stella-Jones Corporation	Remove
Notification Recipient,Responsible Official	Jeff Jordan, Stella-Jones Corporation	Keep
Permittee	Stella-Jones Corporation	Keep

Facility/Site Information

Facility/Site Name
Stella-Jones Coporation - Clanton

Organization/Ownership Type
Corporation

Facility/Site Address or Location Description
100 McKinney Drive
Clanton, AL 35045

Facility/Site County
Chilton

Detailed Directions to the Facility/Site
From I-65, take exit 212 toward Lay Dam Rd for 0.3 mi. Make a left onto Bell Lane Rd, then turn left onto Yellow Leaf Rd. In approximately 300-feet, turn right onto New Harmony Rd. Continue straight onto Lemax Dr. and make a right onto Industrial Drive after crossing the railroad tracks. In approximately 0.5-mile, make a right onto Bama Lane, which turns into McKinney Drive. The facility is at the end of McKinney Drive.

Facility Map
FIG 1 - Facility Location 14195A001.pdf - 06/06/2025 03:51 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
32.885339769031134,-86.67021842593384

100 McKinney Drive, Clanton, AL

SIC Code(s) [Please enter Primary SIC Code first followed by any additional applicable SIC Codes]
2491-Wood Preserving

NAICS Code(s) [Please enter Primary NAICS Code first followed by any additional applicable NAICS Codes]
321114-Wood Preservation

Facility/Site Contact

Prefix
Mr.

First Name	Last Name
Jeff	Jordan

Title
Division Manager

Organization Name
Stella-Jones Corporaton

Phone Type	Number	Extension
Business	2052803950	

Email
jjordan@stella-jones.com

Address
100 McKinney Drive
Clanton, AL 35045

DMR Contact(s) (1 of 2)

DMR Contact

Prefix
Mr.

First Name	Last Name
Tim	English

Title
EHS Supervisor

Phone Type	Number	Extension
Business	205-280-3950	6158

Email
TEnglish@stella-jones.com

Address
100 McKinney Drive
Clanton, AL 35045

DMR Contact(s) (2 of 2)

DMR Contact

Prefix
Mr.

First Name	Last Name
Daniel	Frederick

Title
NONE PROVIDED

Phone Type	Number	Extension
Business	412-495-0864	

Email
dfrederick@stella-jones.com

Address
1000 Cliff Mine Road
Suite 500
Pittsburgh, PA 15275

Applicant Business Entity Information

Address of Incorporation
1000 Cliff Mine Road
Suite 500
Pittsburgh

Agent Designated by the Corporation for Purposes of Service

Name	Address
Jeff Jordan	100 McKinney Drive Clanton, AL 35045

Please provide all corporate officers

Name	Title	Address
David Whitted	VP, Railway Tie Ops	5865 US Hwy 69 South Suite B Lufkin, TX 75901
Andy Pane	Director of Operations	3855 US-51 Fulton, KY 42041

Does the applicant applying for coverage have a Parent Corporation?
Yes

Parent Corporation of Applicant

Name	Address
Stella Jones US Holding Corp.	1000 Cliff Mine Road Suite 500 Pittsburgh, PA 15275

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?
Yes

Identify all 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, if any, against the Applicant within the State of Alabama in the past five years.

Facility/Site Name	Permit Number, If Applicable	Type of Action	Date of Action
Stella-Jones Corporation - Clanton	25-055-CHW	Consent Order	05/22/2025
Stella-Jones Corporation - Clanton	AL0080543	Notice of Violation	08/07/2024

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:
Timber Products

Give a brief description of all operations at this facility including primary products or services:
This facility produces railroad crossties treated with creosote. The facility air dries railroad crossties and subjects them to wood pressure treatment. The facility has a treated storage yard where finished products await shipment.

Outfalls (1 of 3)

002

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

Outfall Identifier
002

Receiving Water
Gum Creek

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

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

Estimated Average Daily Flow (MGD)
0.04

Monitoring/Sampling Point Location
32.88472200000000, -86.66861100000000

Outfalls (2 of 3)

003

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

Outfall Identifier
003

Receiving Water
Gum Creek

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

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

Estimated Average Daily Flow (MGD)
0.005

Monitoring/Sampling Point Location
32.88563900000000, -86.66917200000000

Outfalls (3 of 3)

004

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

Outfall Identifier
004

Receiving Water
Gum Creek

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

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

Estimated Average Daily Flow (MGD)
0.001

Monitoring/Sampling Point Location
32.88706400000000, -86.67293900000000

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	No
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	No
Automatic Sampling Equipment	No

Please describe the equipment below:
Outfall 002 utilizes a Global Water WS750 Water Sampler

Please attach the process schematic with sampling equipment locations.
WS755.pdf - 07/09/2025 08:53 AM
Comment
The automatic sampler collects stownwater at Outfall 002

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:
TowerAssure A5000
Biotrol 103CF
AcidPro S93

Biocide/Corrosion Inhibitor Summary Sheet

Clanton - NPDES Permit Renewal - Biocides .pdf - 07/15/2025 08:20 PM
Comment
NONE PROVIDED

Safety Data Sheets (SDS)

TowerAssure A5000_SDS_US(en)_04-20-22.pdf - 07/15/2025 08:00 PM
Biotrol 103CF_SDS_US(en).pdf - 07/15/2025 08:00 PM
AcidPro S93_SDS.pdf - 07/15/2025 08:00 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).
Neutralization, pH correction
Other: Evaporation

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:
Only discharging during precipitation events.

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:
F034	230	H061	Off-Site	Rineco

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

Hauler Information

Name	Address	City	State	Zip
Heritage Transport LLC	1626 Research Way	Indianapolis	IN	46231
Action Resources	5001 Underwood Rd	Pasadena	TX	77507

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

CLAN - npdes-application-form-1.pdf - 07/16/2025 11:13 AM
Comment
NONE PROVIDED

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

CLAN - 2025 npdes-application-form-2F Assembled Forms.pdf - 07/16/2025 11:14 AM
Comment
Form 2F

Other attachments (as needed)

NONE PROVIDED
Comment
NONE PROVIDED

Additional Attachments

Please attach any additional information as needed.

NONE PROVIDED
Comment
NONE PROVIDED

Application Preparer

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 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."

"I further certify under penalty of law that 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 Jeff Jordan on 07/16/2025 at 12:14 PM

EPA Identification Number	NPDES Permit Number	Facility Name	OMB No. 2040-0004 Expires 07/31/2026
ALR000053686	AL0080543	Stella-Jones Corporation -	

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** or has your permitting authority directed you to submit Form 2A? If yes, STOP. Do NOT complete Form 1. Complete Form 2A. If the facility is also a **treatment works treating domestic sewage**, you must also complete Form 2S. ☑ No	1.1.2	Is the facility a **sludge-only facility** (i.e., a facility that does not discharge wastewater to surface waters)? 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	1.2.6	Is the facility a new or existing **treatment works treating domestic sewage** that discharges wastewater to surface waters? ☐ Yes → Complete Form 1, Form 2S, ***and*** any other applicable forms, as directed by your permitting authority. ☑ No

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

Name, Mailing Address, and Location

2.1 Facility Name

Stella-Jones Corporation - Clanton

2.2 EPA Identification Number

ALR000053686

2.3 Facility Contact

Name (first and last)	Title	Phone number
Jeff Jordan	Plant Manager	(205) 280-3950

Email address

jjordan@stella-jones.com

EPA Identification Number	NPDES Permit Number	Facility Name	OMB No. 2040-0004 Expires 07/31/2026
ALR000053686	AL0080543	Stella-Jones Corporation -	

Name, Mailing Address, and Location Continued

2.4 Facility Mailing Address

Street or P.O. box		
100 McKinney Drive		
City or town	**State**	**ZIP code**
Clanton	AL	35045

2.5 Facility Location

Street, route number, or other specific identifier		
100 McKinney Drive		
County name	**County code (if known)**	
Chilton		
City or town	**State**	**ZIP code**
Clanton	AL	35045

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

SIC and NAICS Codes

3.1

SIC Code(s)	Description (optional)
2491	Wood Preserving

3.2

NAICS Code(s)	Description (optional)
321114	Wood Preserving

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

Operator Information

4.1 Name of Operator

Stella-Jones Corporation

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

(205) 280-3950

Operator Information Continued

4.5 **Operator Address**

Street or P.O. Box: 100 McKinney Drive

City or town	State	ZIP code
Clanton	AL	35045

Email address of operator: jjordan@stella-jones.com

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

Indian Land

5.1 Is the facility located on Indian Land?

☐ Yes ☑ No

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) AL0080543	☐ RCRA (hazardous wastes)	☐ UIC (underground injection of fluids)
☐ PSD (air emissions)	☐ Nonattainment program (CAA)	☐ NESHAPs (CAA)
☐ 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 ☐ 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 Stella-Jones Clanton facility operates a creosote wood preservation facility and only has stormwater associated with industrial activity (Forms 2F) discharging to waters of the U.S. Form 2C is not being submitted as part of this application since no wood preserving process water is proposed to be discharged or is currently being discharged to waters of the U.S.

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.)

Public Water Source

EPA Identification Number	NPDES Permit Number	Facility Name	OMB No. 2040-0004 Expires 07/31/2026
ALR000053686	AL0080543	Stella-Jones Corporation - Clanton	

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

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 Provide the following certification. (See instructions to determine the appropriate person to sign the application.)

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
Jeff Jordan	Plant Manager
Signature: Jeff Jordan	Date signed: 7/16/2025

REFERENCES:
USGS 7.5–MIN TOPOGRAPHIC QUADRANGLES CLANTON WEST AND JEMISON EAST, ALABAMA, BOTH DATED 2011.

SCALE – FEET
0 2000

REVISION	DATE	DESCRIPTION

APPROVED	–
CHECKED	–
DRAWN	RAM 06/03/2014
CAD FILE NO.	14195A001
PROJECT NO.	SJ1 14195 LAL

KU Resources, Inc.
22 South Linden Street
Duquesne, PA 15110
412.469.9331
412.469.9336 fax
www.kuresources.com

FIGURE 1

FACILITY LOCATION
CLANTON FACILITY

CITY OF CLANTON
CHILTON COUNTY, ALABAMA

PREPARED FOR
STELLA–JONES CORPORATION
CLANTON, ALABAMA

EPA Identification Number	NPDES Permit Number	Facility Name	OMB No. 2040-0004
ALR000053686	AL0080543	Stella-Jones	Expires 07/31/2026

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

Outfall Number	Receiving Water Name	Latitude	Longitude
002	Gum Creek	32.886396	-86.673196
003	Gum Creek	32.885723	-86.669188
004	Gum Creek	32.886992	-86.672655

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

OMB No. 2040-0004
Expires 07/31/2026

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

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.

Outfall Number	Impervious Surface Area (within a mile radius of the facility)		Total Surface Area Drained (within a mile radius of the facility)	
002	N/A	*specify units* sq.ft.	546,055	*specify units* sq.ft.
003	N/A	*specify units* sq.ft.	75,000	*specify units* sq.ft.
004	N/A	*specify units* sq.ft.	170,000	*specify units* sq.ft.
		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.)

The wood preserving process area is roofed and located within secondary containment. Whitewood crossties and treated crossties are exposed to rainfall during storage while awaiting shipment. Trimming operation are conducted under roof.

SIGNIFICANT MATERIALS / AREAS / PROCESSES:
Mixed hardwoods treated with creosote, wood preserving plant and associated tanks (inside secondary containment & majority under roof), miscellaneous mechanical equipment, and diesel AST.

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)
002	Non-structural routine inspections, minimize exposure, and housekeeping	4-A
003	Housekeeping, required inspections, and settling chamber.	1-M, 1-U
004	Housekeeping and routine inspections.	4-A

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

Non-Stormwater Discharges

5.1 Provide the following certification. (See instructions to determine the appropriate person to sign the application.)

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
Jeff Jordan	Plant Manager
Signature: Jeff Jordan	Date signed: 7/16/2025

5.2 Provide the testing information requested in the table below.

Outfall Number	Description of Testing Method Used	Date(s) of Testing	Onsite Drainage Points Directly Observed During Test
002	Visual Observation	05/07/2025	Outfall 002
003	Visual Observation	05/07/2025	Outfall 003
004	Visual Observation	05/07/2025	Outfall 004

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.

None

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

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
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
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
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
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
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
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.

Discharge Information Continued

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

7.17 Have you provided information for the storm event(s) sampled in Table D?

☑ Yes

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. Attach additional sheets, if necessary.

1. Copper, Arsenic, Pyrene, Chrysene	4. Benzo(b)fluoranthence	7. Fluroanthene, Fluorene
2. Anthracene, Acenaphthene	5. Benzo(k)fluoranthene	8. 2,4-Dimethylphenol
3. Benzo(a)anthracene	6. Benzo(a)pyrene	9. Phenanthrene, Phenol

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 (in 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	Guardian Systems, Inc.		
Laboratory address	1108 Ashville Road PO Box 190		
Phone number	(205) 699-6647		
Pollutant(s) analyzed	pH Semi-volatiles (625) PAH, Method 8310		

EPA Identification Number	NPDES Permit Number	Facility Name	OMB No. 2040-0004 Expires 07/31/2026
ALR000053686	AL0080543	Stella-Jones Corporation-Clanton	

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 Provide the following certification. (See instructions to determine the appropriate person to sign the application.)

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
Jeff Jordan	Plant Manager
Signature: Jeff Jordan	Date signed: 7/16/2025

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALR000053686	AL0080543	Stella-Jones Corporation-Clanton	002

OMB No. 2040-0004
Expires 07/31/2026

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	<5 mg/L		<5 mg/L		4	
2.	Biochemical oxygen demand (BOD_5)	N/A	25.3 mg/L	N/A	25.3 mg/L	1	
3.	Chemical oxygen demand (COD)	N/A	140 mg/L	N/A	140 mg/L	1	
4.	Total suspended solids (TSS)	N/A	1198 mg/L	N/A	318 mg/L	4	
5.	Total phosphorus	N/A	0.30 mg/L	N/A	0.30 mg/L	1	
6.	Total Kjeldahl nitrogen (TKN)	N/A	1.3 mg/L	N/A	1.3 mg/L	1	
7.	Total nitrogen (as N)	N/A	1.3 mg/L	N/A	1.3 mg/L	1	
8.	pH (minimum)	8.49 S.U.		8.57 S.U.		4	
	pH (maximum)	8.71 S.U.		8.57 S.U.		4	

[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
ALR000053686	AL0080543	Stella-Jones Corporation - Clanton	003

OMB No. 2040-0004
Expires 07/31/2026

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	<5 mg/L		<5 mg/L		4	
2.	Biochemical oxygen demand (BOD_5)	15.5 mg/L	N/A	15.5 mg/L	N/A	1	
3.	Chemical oxygen demand (COD)	49 mg/L	N/A	49 mg/L	N/A	1	
4.	Total suspended solids (TSS)	1688 mg/L	N/A	614.25 mg/L	N/A	4	
5.	Total phosphorus	0.36 mg/L	N/A	0.36 mg/L	N/A	1	
6.	Total Kjeldahl nitrogen (TKN)	0.8 mg/L	N/A	0.8 mg/L	N/A	1	
7.	Total nitrogen (as N)	<0.7 mg/L	N/A	<0.7 mg/L	N/A	1	
8.	pH (minimum)	8.41 S.U.		8.59 S.U.		4	
	pH (maximum)	8.87 S.U.		8.59 S.U.		4	

[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
ALR000053686	AL0080543	Stella-Jones Corporation - Clanton	004

OMB No. 2040-0004
Expires 07/31/2026

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	8 mg/L		<5.75 mg/L		4	
2.	Biochemical oxygen demand (BOD_5)	12.4 mg/L	N/A	12.4 mg/L	N/A	1	
3.	Chemical oxygen demand (COD)	31 mg/L	N/A	31 mg/L	N/A	1	
4.	Total suspended solids (TSS)	196 mg/L	N/A	87.25 mg/L	N/A	4	
5.	Total phosphorus	0.24 mg/L	N/A	0.24 mg/L	N/A	1	
6.	Total Kjeldahl nitrogen (TKN)	0.6 mg/L	N/A	0.6 mg/L	N/A	1	
7.	Total nitrogen (as N)	2.7 mg/L	N/A	2.7 mg/L	N/A	1	
8.	pH (minimum)	8.39 S.U.		8.60 S.U.		4	
	pH (maximum)	8.69 S.U.		8.60 S.U.		4	

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

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EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALR000053686	AL0080543	Stella-Jones Corporation-Clanton	002

OMB No. 2040-0004
Expires 07/31/2026

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		
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).

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALR000053686	AL0080543	Stella-Jones Corporation-Clanton	003

OMB No. 2040-0004
Expires 07/31/2026

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		
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).

EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALR000053686	AL0080543	Stella-Jones Corporation-Clanton	002

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		
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).

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EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number
ALR000053686	AL0080543	Stella-Jones Corporation-Clanton	002

OMB No. 2040-0004
Expires 07/31/2026

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		
Copper	N/A	0.03 mg/L	N/A	<0.0225 mg/L	4	
Arsenic	N/A	0.079 mg/L	N/A	<0.024 mg/L	4	
Acenaphthene	N/A	60 ug/L	N/A	<20.925 ug/L	4	
Anthracene	N/A	28 ug/L	N/A	<10.75 ug/L	4	
Benzo(a)anthracene	N/A	13 ug/L	N/A	<8.525 ug/L	4	
Benzo(b)fluoranthence	N/A	16.5 ug/L	N/A	<9.375 ug/L	4	
Benzo(k)fluoranthene	N/A	5.2 ug/L	N/A	<5.05 ug/L	4	
Benzo(a)pyrene	N/A	20.7 ug/L	N/A	<10.425 ug/L	4	
Chrysene	N/A	18.1 ug/L	N/A	<10.275 ug/L	4	
2,4-Dimethylphenol	N/A	219 ug/L	N/A	<58.5 ug/L	4	
Fluroanthene	N/A	83 ug/L	N/A	<39.725 ug/L	4	
Fluorene	N/A	53 ug/L	N/A	<17 ug/L	4	
Phenanthrene	N/A	58 ug/L	N/A	<18.25 ug/L	4	
Pyrene	N/A	62 ug/L	N/A	<30.8 ug/L	4	

[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
ALR000053686	AL0080543	Stella-Jones Corporation-Clanton	003

OMB No. 2040-0004
Expires 07/31/2026

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		
Arsenic	0.092 mg/L	N/A	0.03 mg/L	N/A	4	
Chrysene	5.0 ug/L	N/A	<5.0 ug/L	N/A	4	
Fluroanthene	9 ug/L	N/A	<6.0 ug/L	N/A	4	
Phenol	40 ug/L	N/A	<13.75 ug/L	N/A	4	
Pyrene	10 ug/L	N/A	<6.25 ug/L	N/A	4	

[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
ALR000053686	AL0080543	Stella-Jones Corporation-Clanton	004

OMB No. 2040-0004
Expires 07/31/2026

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		
Arsenic	0.09 mg/L	N/A	<0.0238 mg/L	N/A	4	
2,4-Dimethylphenol	17.0 ug/L	N/A	<8.0 ug/L	N/A	4	
Phenol	110 ug/L	N/A	<31.25 mg/L	N/A	4	

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

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EPA Identification Number	NPDES Permit Number	Facility name	Outfall Number
ALR000053686	AL0080543	Stella-Jones Corporation-Clanton	002

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)
05/07/2025	5	0.76	88	776 gpm	232,847 gallons

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

Rational Method:

Volume = C x I A

C - Runoff coefficient (0.9 for paved / 0.5 for unpaved)
I - Rainfall amount (in/feet)
A - Area (square feet)
(convert from ft3 to gallons by multiplying by 7.481)

LEGEND

---------- UNDERGROUND STORMWATER DRAINAGE

STORMWATER FLOW DIRECTION

APPROVED	RTS	04/03/2020
CHECKED	RTS	04/03/2020
DRAWN	RAM	04/03/2020
CAD FILE NO.		20016A001
PROJECT NO.		SJI20016Y20RA

KU Resources, Inc.
22 South Linden Street
Duquesne, PA 15110
412.469.9331
412.469.9336 fax
www.kuresources.com

REFERENCE:
IMAGE BY GOOGLE EARTH

SCALE – FEET
0 250

FIGURE 3

STORMWATER MANAGEMENT
CLANTON FACILITY

CITY OF CLANTON
CHILTON COUNTY, ALABAMA

PREPARED FOR
STELLA–JONES CORPORATION
CLANTON, ALABAMA

Stella-Jones Corporation – Clanton, AL
NPDES Permit Renewal
Supplemental Information

(1) List of Biocides

- **a. TowerAssure A5000**
- **b. Biotrol 103CF**
- **c. AcidPro S93**

(2) Toxicity

- **a. TowerAssure A5000**
  - **i. LC50 - 1075 mg/l Fathead Minnow (96 Hr Static Acute Bioassay (pH adjusted))**
- **b. Biotrol 103CF**
  - **i. EC50 - Crustacea [1] - 11.88 mg/l Daphnia magna (Water Flea), 48 Hr**
- **c. AcidPro S93**
  - **i. Harmful to aquatic life with long lasting effects – No other information provided on the SDS.**

TowerAssure A5000 is currently fed at 100 ppm:

Dosage, Monitoring and Control

The optimum dosage of TOWERASSURE A5000 depends on cooling water quality.

The target dosage of TOWERASSURE A5000 is 100 ppm in the cycled- up cooling tower water for most systems.

Best results will be achieved when water quality is controlled within the following limits:

Ryznar Saturation Index (RSI):	4.0 – 8.0
Langelier Saturation Index (LSI):	-1.0 – +2.0
M Alkalinity (as $CaCO_3$):	100 – 300 ppm
pH:	7.0 – 8.0
Cooling Water Polymer:	90 – 160 FAU
OrthoPhosphate (as PO_4):	8 – 12 ppm

Biotrol-103F is currently fed at 80 ppm:

Dosage

For the control of microbial biofilms, bacteria, algae and yeast, BIOTROL 103CF can be fed continuously or intermittently, with intermittent feed being most common. Always apply to a point which assures rapid and complete mixing.

For all approved applications, refer to the product label for detailed dosage and feed instructions. Some applications are summarized below.

Industrial Recirculating Water Cooling Towers
Add 0.3 – 1.87 pounds BIOTROL 103CF per 1000 gallons of cooling water in the system weekly to maintain microbial control. Add BIOTROL 103CF to a point in the cooling water system to ensure uniform mixing. For noticeably fouled systems dose as initial treatment with 1.26 – 7.46 pounds per 1000 gallons cooling water. Repeat as needed.

AcidPro S93 is currently fed at 40 ppm:

Dosage, Monitoring and Control

The dosage of ACIDPRO S93 will vary due to the amount and alkalinity of the make-up water. One ppm of ACIDPRO S93 will neutralize 1 ppm of Total (M) Alkalinity.

TowerAssure A5000

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Issue date: 07/21/2021 Revision date: 04/20/2022 Supersedes: 04/15/2021 Version: 2.0

SECTION 1: Identification

1.1. Identification

Product form : Mixture

Name : TowerAssure A5000

Product code : CT0154

1.2. Recommended use and restrictions on use

Recommended use : Cooling Water Treatment

1.3. Supplier

Kurita America Inc.
6600 94th Ave North
Minneapolis, MN 55445 - USA
T 866-663-7632
kai_sds@kurita-water.com - www.kuritaamerica.com

1.4. Emergency telephone number

Emergency number : CHEMTEL, For Chemical Emergency Call 800-255-3924 24hr/day 7days/week
Kurita America: 866-663-7633 International: +01-813-248-0585

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

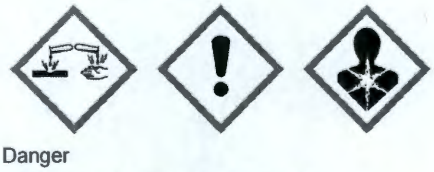
GHS US classification

Corrosive to metals, Category 1	H290 May be corrosive to metals.
Acute toxicity (inhalation:dust,mist) Category 4	H332 Harmful if inhaled.
Skin corrosion/irritation, Category 1	H314 Causes severe skin burns and eye damage.
Serious eye damage/eye irritation, Category 1	H318 Causes serious eye damage.
Reproductive toxicity, Category 2	H361 Suspected of damaging fertility or the unborn child.
Hazardous to the aquatic environment — Chronic Hazard, Category 3	H412 Harmful to aquatic life with long lasting effects.

2.2. GHS Label elements, including precautionary statements

GHS US labelling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Danger

Hazard statements (GHS US) : H290 - May be corrosive to metals.
H314 - Causes severe skin burns and eye damage.
H318 - Causes serious eye damage.
H332 - Harmful if inhaled.
H361 - Suspected of damaging fertility or the unborn child.
H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements (GHS US) : P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P234 - Keep only in original container.
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 - Wash hands, forearms and face thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P273 - Avoid release to the environment.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
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 - If inhaled: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 - If exposed or concerned: Get medical advice/attention.
P310 - Immediately call a poison center or doctor.

P312 - Call a poison center or doctor if you feel unwell.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P363 - Wash contaminated clothing before reuse.
P390 - Absorb spillage to prevent material damage.
P405 - Store locked up.
P406 - Store in corrosive resistant container with a resistant inner liner.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
Phosphoric acid, tripotassium salt	(CAS-No.) 7778-53-2	15 – 40	Acute Tox. 3 (Inhalation:dust,mist), H331 Skin Corr. 1, H314 Eye Dam. 1, H318
Potassium hydroxide	(CAS-No.) 1310-58-3	3 – 7	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Skin Corr. 1, H314 Eye Dam. 1, H318
Methyl-1h-benzotriazole	(CAS-No.) 29385-43-1	1 – 5	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:dust,mist), H332 Eye Irrit. 2, H319 Repr. 2, H361 Aquatic Acute 2, H401 Aquatic Chronic 2, H411

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general : Call a physician immediately.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell.

First-aid measures after skin contact : Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a physician immediately.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.

First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. Call a physician immediately.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after skin contact : Burns.

Symptoms/effects after eye contact : Serious damage to eyes.

Symptoms/effects after ingestion : Burns.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray.

Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in corrosive resistant container with a resistant inner liner. Keep only in original container. Store locked up. Store in a well-ventilated place. Keep cool.

Incompatible materials : Metals.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

TowerAssure A5000	
No additional information available	

Phosphoric acid, tripotassium salt (7778-53-2)	
No additional information available	

Potassium hydroxide (1310-58-3)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Potassium hydroxide
ACGIH OEL C	2 mg/m³
Remark (ACGIH)	TLV® Basis: URT, eye, & skin irr
Regulatory reference	ACGIH 2022

Methyl-1h-benzotriazole (29385-43-1)	
No additional information available	

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Respiratory protection:

In case of inadequate ventilation wear respiratory protection.

Personal protective equipment symbol(s):

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Appearance	:	clear.
Colour	:	Yellow
Odour	:	slight
Odour threshold	:	No data available
pH	:	> 13
Melting point	:	Not applicable
Freezing point	:	-6 °C / 20°F
Boiling point	:	No data available
Flash point	:	No data available
Relative evaporation rate (butylacetate=1)	:	No data available
Flammability (solid, gas)	:	Not applicable.
Vapour pressure	:	Similar to water
Relative vapour density at 20 °C	:	No data available
Relative density	:	1.37
Density	:	11.43 lb/gal
Solubility	:	Complete in water.
Partition coefficient n-octanol/water (Log Pow)	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
No data availableViscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
Explosive limits	:	No data available
Explosive properties	:	No data available
Oxidising properties	:	No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Extremely high or low temperatures.

10.5. Incompatible materials

Strong oxidizing agents. Strong acids. metals.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Harmful if inhaled.

ATE US (dust,mist)	1.2 mg/l/4h

Phosphoric acid, tripotassium salt (7778-53-2)	
LD50 oral rat	4500 mg/kg (Rat, Oral)
LD50 dermal rabbit	> 7940 mg/kg (Rabbit, Dermal)
LC50 Inhalation - Rat	> 0.83 mg/l air Animal: rat, Guideline: EPA OPP 81-3 (Acute inhalation toxicity), Guideline: other:, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Guideline: EU Method B.2 (Acute Toxicity (Inhalation)), Guideline: other:
ATE US (oral)	4500 mg/kg bodyweight
ATE US (dust,mist)	0.5 mg/l/4h

Potassium hydroxide (1310-58-3)	
LD50 oral rat	388 mg/kg Source: ECHA
ATE US (oral)	388 mg/kg bodyweight

Methyl-1h-benzotriazole (29385-43-1)	
LD50 oral rat	≈ 720 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), 95% CL: 700 - 800
LD50 dermal rabbit	> 2000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 Inhalation - Rat	> 1.73 mg/l (1 h, Rat, Literature study, Inhalation (dust))
ATE US (oral)	500 mg/kg bodyweight
ATE US (dust,mist)	1.5 mg/l/4h

Skin corrosion/irritation : Causes severe skin burns.
pH: > 13

Serious eye damage/irritation : Causes serious eye damage.
pH: > 13

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Suspected of damaging fertility or the unborn child.

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Phosphoric acid, tripotassium salt (7778-53-2)	
NOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

Methyl-1h-benzotriazole (29385-43-1)	
NOAEL (oral, rat, 90 days)	≈ 150 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity in Rodents)

Aspiration hazard : Not classified

Viscosity, kinematic : No data available

Symptoms/effects after skin contact : Burns.

Symptoms/effects after eye contact : Serious damage to eyes.

Symptoms/effects after ingestion : Burns.

SECTION 12: Ecological information

12.1. Toxicity

TowerAssure A5000	
LC50 - Fish [1]	1075 mg/l Fathead Minnow (96 Hr Static Acute Bioassay (pH adjusted))
LC50 - Other aquatic organisms [1]	2290 mg/l Daphnia magna (48 Hr Static Acute Bioassay (pH adjusted))
LC50 - Fish [2]	825 mg/l Rainbow Trout (96 Hr Static Acute Bioassay (pH adjusted))
NOEC (acute)	845 mg/l mg/L Fathead Minnow (96 Hr Static Acute Bioassay (pH adjusted))

12.2. Persistence and degradability

TowerAssure A5000	
Biochemical oxygen demand (BOD)	3 mg/g BOD5; 12 mg/g BOD28
Chemical oxygen demand (COD)	187 mg/g; 68 mg/g TOC

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

Additional information : RCRA: Corrosive, D002.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Transport document description (DOT) : UN3266 Corrosive liquid, basic, inorganic, n.o.s. (Potassium Hydroxide), 8, PG III

UN-No.(DOT) : UN3266

Proper Shipping Name (DOT) : Corrosive liquid, basic, inorganic, n.o.s.
Potassium Hydroxide

Class (DOT) : 8 - Class 8 - Corrosive material 49 CFR 173.136

Packing group (DOT) : PG III - Minor Danger

Hazard labels (DOT) : 8 - Corrosive

DOT Packaging Non Bulk (49 CFR 173.xxx) : 203

DOT Packaging Bulk (49 CFR 173.xxx) : 241

DOT Special Provisions (49 CFR 172.102)	:	IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T7 - 4 178.274(d)(2) Normal..... 178.275(d)(3) TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / (1 + a (tr - tf)) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling. TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.
DOT Packaging Exceptions (49 CFR 173.xxx)	:	154
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	:	5 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	:	60 L
DOT Vessel Stowage Location	:	A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
DOT Vessel Stowage Other	:	40 - Stow "clear of living quarters",52 - Stow "separated from" acids
Emergency Response Guide (ERG) Number	:	154
Other information	:	No supplementary information available.

Transportation of Dangerous Goods

Transport document description (TDG)	:	UN3266 CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. (Potassium Hydroxide), 8, III
UN-No. (TDG)	:	UN3266
Proper Shipping Name (TDG)	:	CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.
TDG Primary Hazard Classes	:	8 - Class 8 - Corrosives
Packing group (TDG)	:	III - Minor Danger
TDG Special Provisions	:	16 - (1) The technical name of at least one of the most dangerous substances that predominantly contributes to the hazard or hazards posed by the dangerous goods must be shown, in parentheses, on the shipping document following the shipping name in accordance with clause 3.5(1)(c)(ii)(A) of Part 3 (Documentation). The technical name must also be shown, in parentheses, on a small means of containment or on a tag following the shipping name in accordance with subsections 4.11(2) and (3) of Part 4 (Dangerous Goods Safety Marks). (2) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a shipping document or on a small means of containment when Canadian law for domestic transport or an international convention for international transport prohibits the disclosure of the technical name: (a) UN1544, ALKALOID SALTS, SOLID, N.O.S. or ALKALOIDS, SOLID, N.O.S; (b) UN1851, MEDICINE, LIQUID, TOXIC, N.O.S; (c) UN3140, ALKALOID SALTS, LIQUID, N.O.S. or ALKALOIDS, LIQUID, N.O.S; (d) UN3248, MEDICINE, LIQUID, FLAMMABLE, TOXIC, N.O.S; or (e) UN3249, MEDICINE, SOLID, TOXIC, N.O.S. (3) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a small means of containment: (a) UN2814, INFECTIOUS SUBSTANCE, AFFECTING HUMANS; or (b) UN2900, INFECTIOUS SUBSTANCE, AFFECTING ANIMALS.
Explosive Limit and Limited Quantity Index	:	5 L
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index	:	5 L

Air transport

	:	UN 3266 Corrosive liquid, basic, inorganic, n.o.s. (Potassium Hydroxide), 8, III
UN-No. (IATA)	:	3266
Proper Shipping Name (IATA)	:	Corrosive liquid, basic, inorganic, n.o.s.
Class (IATA)	:	8 - Corrosives
Packing group (IATA)	:	III - Minor Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

Potassium hydroxide (1310-58-3)	
CERCLA RQ	1000 lb

Methyl-1h-benzotriazole (29385-43-1)	
EPA TSCA Regulatory Flag	TP - TP - indicates a substance that is the subject of a proposed TSCA section 4 test rule.

15.2. International regulations

CANADA

Phosphoric acid, tripotassium salt (7778-53-2)
Listed on the Canadian DSL (Domestic Substances List)

Potassium hydroxide (1310-58-3)
Listed on the Canadian DSL (Domestic Substances List)

Methyl-1h-benzotriazole (29385-43-1)
Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations
No additional information available

National regulations

Phosphoric acid, tripotassium salt (7778-53-2)
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Listed on INSQ (Mexican National Inventory of Chemical Substances)

Potassium hydroxide (1310-58-3)
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Listed on INSQ (Mexican National Inventory of Chemical Substances)

Methyl-1h-benzotriazole (29385-43-1)
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. US State regulations

⚠ **WARNING:** This product can expose you to Methyl-1h-benzotriazole, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Component	**State or local regulations**
Potassium hydroxide(1310-58-3)	U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date : 04/20/2022

Kurita - SDS US (GHS HazCom 2012)

***Author**: Kurita Water Industries Ltd.*
***Revision Notes**: Updated to GHS format*
***Disclaimer**:*
Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained herein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s). The above information is not claiming characteristics of the product in term of legal claims of performance / guarantee. This information only describes safety measures and no liability may arise from the use or application of the product described herein. This information is given in good faith and based on our current knowledge of the product.

Biotrol 103CF

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Issue date: 09/20/2021 Revision date: 06/29/2022 Supersedes: 09/20/2021 Version: 2.0

SECTION 1: Identification

1.1. Identification

Product form : Mixture

Name : Biotrol 103CF

Product code : BI0170

1.2. Recommended use and restrictions on use

Recommended use : Biocide

1.3. Supplier

Kurita America Inc.
6600 94th Ave North
Minneapolis, MN 55445 - USA
T 866-663-7632
kai_sds@kurita-water.com - www.kuritaamerica.com

1.4. Emergency telephone number

Emergency number : CHEMTEL, For Chemical Emergency Call 800-255-3924 24hr/day 7days/week
Kurita America: 866-663-7633 International: +01-813-248-0585

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Skin corrosion/irritation, Category 1C	H314 Causes severe skin burns and eye damage.
Serious eye damage/eye irritation, Category 1	H318 Causes serious eye damage.
Skin sensitisation, Category 1	H317 May cause an allergic skin reaction.

2.2. GHS Label elements, including precautionary statements

GHS US labelling

Hazard pictograms (GHS US) :

Signal word (GHS US) : Danger

Hazard statements (GHS US) : H314 - Causes severe skin burns and eye damage.
H317 - May cause an allergic skin reaction.
H318 - Causes serious eye damage.

Precautionary statements (GHS US) : P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 - Wash hands, forearms and face thoroughly after handling.
P272 - Contaminated work clothing must not be allowed out of the workplace.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting.
P302+P352 - If on skin: Wash with plenty of water.
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a poison center or doctor.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P363 - Wash contaminated clothing before reuse.
P405 - Store locked up.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
Magnesium nitrate	(CAS-No.) 10377-60-3	1 – 5	Ox. Sol. 3, H272
5-Chloro-2-methyl-3-isothiazolone	(CAS-No.) 26172-55-4	1 – 5	Flam. Liq. 4, H227 Acute Tox. 3 (Oral), H301 Acute Tox. 2 (Dermal), H310 Acute Tox. 2 (Inhalation:dust,mist), H330 Aquatic Acute 1, H400
2-methylisothiazol-3(2H)-one	(CAS-No.) 2682-20-4	0.1 – 1	Flam. Liq. 4, H227 Acute Tox. 3 (Oral), H301 Acute Tox. 2 (Dermal), H310 Acute Tox. 2 (Inhalation), H330 Acute Tox. 2 (Inhalation:dust,mist), H330 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general : Call a physician immediately.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a physician immediately.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.

First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. Call a physician immediately.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after skin contact : Burns. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Serious damage to eyes.

Symptoms/effects after ingestion : Burns.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.

Hygiene measures : Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store locked up. Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Biotrol 103CF
No additional information available
Magnesium nitrate (10377-60-3)
No additional information available
5-Chloro-2-methyl-3-isothiazolone (26172-55-4)
No additional information available
2-methylisothiazol-3(2H)-one (2682-20-4)
No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Protective gloves

Eye protection:

Safety glasses

Personal protective equipment symbol(s):

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Colour	: Yellow
Odour	: odourless
Odour threshold	: No data available
pH	: 4 – 6 Concentration: 1 %
Melting point	: 30 °F -1 °C
Freezing point	: No data available
Boiling point	: 212 °F 100 °C (1,013 hPa)
Flash point	: > 212 °F > 100 °C Method: closed cup
Relative evaporation rate (butylacetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 1.024 g/cm³ (68 °F / 20 °C)
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: > 1112 °F > 600 °C
Decomposition temperature	: No data available
No data availableViscosity, kinematic	: 1.215 mm²/s
Viscosity, dynamic	: 1.244 mPa.s
Explosive limits	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Acids. Bases.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Biotrol 103CF	
LD50 oral rat	> 2000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
LC50 Inhalation - Rat	≈ 66.05 mg/l (Estimate) Exposure time: 4 h; Test atmosphere: dust/mist; Method: Calculation method

Magnesium nitrate (10377-60-3)	
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method), Guideline: EU Method B.1 tris (Acute Oral Toxicity - Acute Toxic Class Method), Guideline: EPA OPPTS 870.1100 (Acute Oral Toxicity), Guideline: other:Japanese Ministry of Agriculture, Forestry and Fisheries (JMAFF), 12 Nousan, Notification No 8147, November 2000, including the most recent partial revisions.
LD50 dermal rat	> 5000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

5-Chloro-2-methyl-3-isothiazolone (26172-55-4)	
LD50 oral rat	66 – 105 mg/kg
LD50 dermal rabbit	200 mg/kg
ATE US (oral)	66 mg/kg bodyweight
ATE US (dermal)	200 mg/kg bodyweight
ATE US (dust,mist)	0.33 mg/l/4h

2-methylisothiazol-3(2H)-one (2682-20-4)	
LD50 oral rat	66 – 105 mg/kg
LD50 dermal rat	242 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))
LD50 dermal rabbit	200 mg/kg
LC50 Inhalation - Rat	0.11 mg/l (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (aerosol), 7 day(s))
ATE US (oral)	66 mg/kg bodyweight
ATE US (dermal)	200 mg/kg bodyweight
ATE US (gases)	100 ppmv/4h
ATE US (vapours)	0.11 mg/l/4h
ATE US (dust,mist)	0.11 mg/l/4h

Skin corrosion/irritation : Causes severe skin burns.
pH: 4 – 6 Concentration: 1 %

Serious eye damage/irritation : Causes serious eye damage.
pH: 4 – 6 Concentration: 1 %

Respiratory or skin sensitisation : May cause an allergic skin reaction.

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Magnesium nitrate (10377-60-3)	
NOAEL (oral, rat, 90 days)	≥ 1500 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

2-methylisothiazol-3(2H)-one (2682-20-4)	
LOAEL (oral, rat, 90 days)	71.2 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents), Guideline: other:
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified

Viscosity, kinematic : 1.215 mm²/s

Symptoms/effects after skin contact : Burns. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Serious damage to eyes.

Symptoms/effects after ingestion : Burns.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Before neutralisation, the product may represent a danger to aquatic organisms.

Biotrol 103CF	
EC50 - Crustacea [1]	11.88 mg/l Daphnia magna (Water Flea), 48 Hr

12.2. Persistence and degradability
No additional information available

12.3. Bioaccumulative potential
No additional information available

12.4. Mobility in soil
No additional information available

12.5. Other adverse effects
No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods
Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

Department of Transportation (DOT)
In accordance with DOT

Transport document description (DOT) : UN3265 Corrosive liquid, acidic, organic, n.o.s. (5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE), 8, PG III

UN-No.(DOT) : UN3265

Proper Shipping Name (DOT) : Corrosive liquid, acidic, organic, n.o.s.
5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE

Class (DOT) : 8 - Class 8 - Corrosive material 49 CFR 173.136

Packing group (DOT) : PG III - Minor Danger

Hazard labels (DOT) : 8 - Corrosive

DOT Packaging Non Bulk (49 CFR 173.xxx) : 203

DOT Packaging Bulk (49 CFR 173.xxx) : 241

DOT Special Provisions (49 CFR 172.102) : 386 - Notwithstanding the provisions of §177.834(l) of this subchapter, cargo heaters may be used when weather conditions are such that the freezing of a wetted explosive material is likely. Shipments must be made by private, leased or contract carrier vehicles under exclusive use of the offeror. Cargo heaters must be reverse refrigeration (heat pump) units. Shipments made in accordance with this Special provision are excepted from the requirements of §173.60(b)(4) of this subchapter.
IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).
T7 - 4 178.274(d)(2) Normal..... 178.275(d)(3)
TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / (1 + a (tr - tf)) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.
TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the MAWP.

DOT Packaging Exceptions (49 CFR 173.xxx) : 154

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 5 L

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	:	60 L
DOT Vessel Stowage Location	:	A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
DOT Vessel Stowage Other	:	40 - Stow "clear of living quarters"
Emergency Response Guide (ERG) Number	:	153
Other information	:	No supplementary information available.

Transportation of Dangerous Goods

Transport document description (TDG)	:	UN3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE), 8, III
UN-No. (TDG)	:	UN3265
Proper Shipping Name (TDG)	:	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
TDG Primary Hazard Classes	:	8 - Class 8 - Corrosives
Packing group (TDG)	:	III - Minor Danger
TDG Special Provisions	:	16 - (1) The technical name of at least one of the most dangerous substances that predominantly contributes to the hazard or hazards posed by the dangerous goods must be shown, in parentheses, on the shipping document following the shipping name in accordance with clause 3.5(1)(c)(ii)(A) of Part 3 (Documentation). The technical name must also be shown, in parentheses, on a small means of containment or on a tag following the shipping name in accordance with subsections 4.11(2) and (3) of Part 4 (Dangerous Goods Safety Marks). (2) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a shipping document or on a small means of containment when Canadian law for domestic transport or an international convention for international transport prohibits the disclosure of the technical name: (a) UN1544, ALKALOID SALTS, SOLID, N.O.S. or ALKALOIDS, SOLID, N.O.S; (b) UN1851, MEDICINE, LIQUID, TOXIC, N.O.S; (c) UN3140, ALKALOID SALTS, LIQUID, N.O.S. or ALKALOIDS, LIQUID, N.O.S; (d) UN3248, MEDICINE, LIQUID, FLAMMABLE, TOXIC, N.O.S; or (e) UN3249, MEDICINE, SOLID, TOXIC, N.O.S. (3) Despite subsection (1), the technical name for the following dangerous goods is not required to be shown on a small means of containment: (a) UN2814, INFECTIOUS SUBSTANCE, AFFECTING HUMANS; or (b) UN2900, INFECTIOUS SUBSTANCE, AFFECTING ANIMALS.
Explosive Limit and Limited Quantity Index	:	5 L
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index	:	5 L

Air transport

	:	UN 3265 Corrosive liquid, acidic, organic, n.o.s. (5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE), 8, III
UN-No. (IATA)	:	3265
Proper Shipping Name (IATA)	:	Corrosive liquid, acidic, organic, n.o.s.
Class (IATA)	:	8 - Corrosives
Packing group (IATA)	:	III - Minor Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Contains chemical(s) subject to TSCA 12b export notification if product is shipped outside the U.S

5-Chloro-2-methyl-3-isothiazolone	CAS-No. 26172-55-4	1 – 5%
2-methylisothiazol-3(2H)-one	CAS-No. 2682-20-4	0.1 – 1%

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

5-Chloro-2-methyl-3-isothiazolone (26172-55-4)	
EPA TSCA Regulatory Flag	PMN - PMN - indicates a commenced PMN substance. SP - SP - indicates a substance that is identified in a proposed Significant New Use Rule.

2-methylisothiazol-3(2H)-one (2682-20-4)	
EPA TSCA Regulatory Flag	PMN - PMN - indicates a commenced PMN substance. SP - SP - indicates a substance that is identified in a proposed Significant New Use Rule.

15.2. International regulations

CANADA

Magnesium nitrate (10377-60-3)
Listed on the Canadian DSL (Domestic Substances List)

5-Chloro-2-methyl-3-isothiazolone (26172-55-4)
Listed on the Canadian DSL (Domestic Substances List)

2-methylisothiazol-3(2H)-one (2682-20-4)
Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations
No additional information available

National regulations

Magnesium nitrate (10377-60-3)
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Listed on INSQ (Mexican National Inventory of Chemical Substances)

5-Chloro-2-methyl-3-isothiazolone (26172-55-4)
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Listed on INSQ (Mexican National Inventory of Chemical Substances)

2-methylisothiazol-3(2H)-one (2682-20-4)
Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

Component	State or local regulations
Magnesium nitrate(10377-60-3)	U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

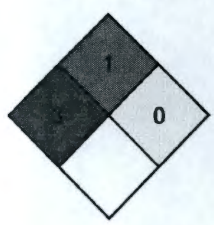
according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date : 06/29/2022

NFPA health hazard : 3 - Materials that, under emergency conditions, can cause serious or permanent injury.

NFPA fire hazard : 1 - Materials that must be preheated before ignition can occur.

NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



Hazard Rating	
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability	: 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Kurita - SDS US (GHS HazCom 2012)

Author: *Kurita Water Industries Ltd.*
Revision Notes: *Updated to GHS format*
Disclaimer:
Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained herein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s). The above information is not claiming characteristics of the product in term of legal claims of performance / guarantee. This information only describes safety measures and no liability may arise from the use or application of the product described herein. This information is given in good faith and based on our current knowledge of the product.

AcidPro S93

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Issue date: 5/7/2021 Revision date: 7/8/2024 Supersedes: 6/30/2022 Version: 3.0

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Name : AcidPro S93
Product code : CT0411

1.2. Recommended use and restrictions on use

Recommended use : Alkalinity Reducer

1.3. Supplier

Kurita America Inc.
6600 94th Ave North
Minneapolis, MN, MN, 55445
USA
T 866-663-7632
kai_sds@kurita-water.com - www.kuritaamerica.com

1.4. Emergency telephone number

Emergency number : CHEMTEL, For Chemical Emergency Call 800-255-3924 24hr/day 7days/week
Kurita America: 866-663-7633 International: +01-813-248-0585

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Corrosive to metals, Category 1	H290	May be corrosive to metals.
Skin corrosion/irritation, Category 1	H314	Causes severe skin burns and eye damage.
Serious eye damage/eye irritation, Category 1	H318	Causes serious eye damage.
Carcinogenicity, Category 1A	H350	May cause cancer.

Full text of H-statements: see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labelling

Hazard pictograms (GHS US) :

Signal word (GHS US) : Danger
Hazard statements (GHS US) : H290 - May be corrosive to metals.
H314 - Causes severe skin burns and eye damage.
H318 - Causes serious eye damage.
H350 - May cause cancer.
Precautionary statements (GHS US) : P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P234 - Keep only in original container.
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.
P264 - Wash hands, forearms and face thoroughly after handling.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
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 - If inhaled: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 - If exposed or concerned: Get medical advice/attention.
P310 - Immediately call a poison center or doctor.
P321 - Specific treatment (see supplemental first aid instruction on this label).
P363 - Wash contaminated clothing before reuse.
P390 - Absorb spillage to prevent material damage.
P405 - Store locked up.
P406 - Store in corrosive resistant container with a resistant inner liner.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Common Name (Synonyms)	Product identifier	%	GHS US classification
Sulfuric Acid	battery acid / dihydrogen sulfate	CAS-No.: 7664-93-9	93 – 95	Acute Tox. 2 (Inhalation:dust,mist), H330 Skin Corr. 1, H314 Eye Dam. 1, H318 Carc. 1A, H350 Aquatic Chronic 3, H412

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general : Get medical advice/attention if you feel unwell.
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact : Rinse skin with water/shower. Take off immediately all contaminated clothing. Call a physician immediately.
First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. Call a physician immediately.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after skin contact : Burns.
Symptoms/effects after eye contact : Serious damage to eyes.

Symptoms/effects after ingestion : Burns.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.

5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Only qualified personnel equipped with suitable protective equipment may intervene. Do not breathe dust/fume/gas/mist/vapours/spray.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Take all necessary technical measures to avoid or minimize the release of the product on the workplace. Limit quantities of product at the minimum necessary for handling and limit the number of exposed workers. Provide local exhaust or general room ventilation. Wear personal protective equipment. Floors, walls and other surfaces in the hazard area must be cleaned regularly. Avoid contact with skin and eyes. Do not breathe dust/fume/gas/mist/vapours/spray.

Hygiene measures : Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store locked up. Store in a well-ventilated place. Keep cool.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Sulfuric Acid (7664-93-9)	
USA - ACGIH - Occupational Exposure Limits	
Local name	Sulfuric acid
ACGIH OEL TWA	0.2 mg/m³ (T - Thoracic particulate matter)
Remark (ACGIH)	TLV® Basis: Pulm func. Notations: A2 (Suspected Human Carcinogen. Classification refers to sulfuric acid contained in strong inorganic acid mists)
Regulatory reference	ACGIH 2024
USA - OSHA - Occupational Exposure Limits	
Local name	Sulfuric acid
OSHA PEL TWA	1 mg/m³
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

8.2. Appropriate engineering controls

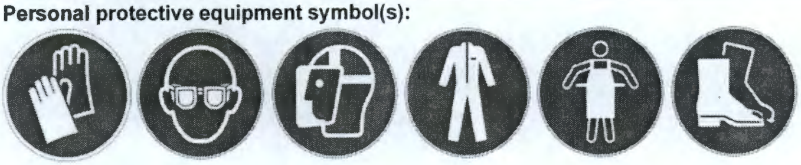
Appropriate engineering controls : Ensure good ventilation of the work station.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Materials for protective clothing:
Wear protective clothing
Hand protection:
Protective gloves
Eye protection:
Safety glasses. Face shield
Skin and body protection:
Wear suitable protective clothing. Chemical resistant apron. Corrosionproof clothing. Chemical resistant safety shoes
Respiratory protection:
In case of inadequate ventilation wear respiratory protection.

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Appearance	:	Clear.
Colour	:	Colorless to brown
Odour	:	Mild
Odour threshold	:	No data available
pH	:	< 2
Melting point	:	Not applicable
Freezing point	:	-26 °F (-32°C)
Boiling point	:	529 °F (276°C)
Flash point	:	No data available
Relative evaporation rate (butylacetate=1)	:	< 1
Flammability (solid, gas)	:	Not applicable.
Vapour pressure	:	0.0016 mm Hg
Relative vapour density at 20°C	:	3.4
Relative density	:	1.83
Density	:	15.3 lb/gal
Molecular mass	:	98.08 g/mol
Solubility	:	Complete in water.
Partition coefficient n-octanol/water (Log Pow)	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
Explosive limits	:	No data available
Explosive properties	:	No data available
Oxidising properties	:	No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Hygroscopic.

10.3. Possibility of hazardous reactions

Contact with metallic substances may release flammable hydrogen gas.

10.4. Conditions to avoid

Do not allow water (or moist air) contact with this material. Extremely high or low temperatures.

10.5. Incompatible materials

Water. Metals. Strong acids. Strong oxidizing agents. Strong reducing agents. Alkalis. Cyanides. Sulfide. Organic materials. Chlorates. Nitrogen compounds.

10.6. Hazardous decomposition products

Sulfur oxides (SOx).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Sulfuric Acid	
LC50 Inhalation - Rat (Dust/Mist)	0.375 mg/l Source: ECHA

Skin corrosion/irritation : Causes severe skin burns.
pH: < 2
Serious eye damage/irritation : Causes serious eye damage.
pH: < 2
Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : May cause cancer.
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified
Viscosity, kinematic : No data available
Symptoms/effects after skin contact : Burns.
Symptoms/effects after eye contact : Serious damage to eyes.
Symptoms/effects after ingestion : Burns.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Harmful to aquatic life with long lasting effects.

12.2. Persistence and degradability

AcidPro S93	
Persistence and degradability	Rapidly degradable

Sulfuric Acid	
Persistence and degradability	Rapidly degradable

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Regional waste regulation : RCRA: Corrosive, D002.
Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

DOT	TDG	IMDG	IATA
14.1. UN number			
UN1830	UN1830	1830	1830
14.2. Proper Shipping Name			
Sulfuric acid	SULFURIC ACID	SULPHURIC ACID	Sulphuric acid
14.3. Transport hazard class(es)			
8	8	8	8
			
14.4. Packing group			
PG II	II	II	II
14.5. Environmental hazards			
Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No
No supplementary information available			

14.6. Special precautions for user

DOT
UN-No.(DOT) : UN1830

DOT Special Provisions (49 CFR 172.102)	:	A3 - For combination packagings, if glass inner packagings (including ampoules) are used, they must be packed with absorbent material in tightly closed metal receptacles before packing in outer packagings. A7 - Steel packagings must be corrosion-resistant or have protection against corrosion. B3 - MC 300, MC 301, MC 302, MC 303, MC 305, and MC 306 and DOT 406 cargo tanks and DOT 57 portable tanks are not authorized. B83 - Bottom outlets are prohibited on tank car tanks transporting sulfuric acid in concentrations over 65.25 percent. B84 - Packagings must be protected with non-metallic linings impervious to the lading or have a suitable corrosion allowance for sulfuric acid or spent sulfuric acid in concentration up to 65.25 percent. IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. N34 - Aluminum construction materials are not authorized for any part of a packaging which is normally in contact with the hazardous material. T8 - 4 178.274(d)(2) Normal..... Prohibited TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, tf is the temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image) Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively.
DOT Packaging Exceptions (49 CFR 173.xxx)	:	154
DOT Packaging Non Bulk (49 CFR 173.xxx)	:	202
DOT Packaging Bulk (49 CFR 173.xxx)	:	242
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	:	1 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	:	30 L
DOT Vessel Stowage Location	:	C - The material must be stowed "on deck only" on a cargo vessel and on a passenger vessel.
DOT Vessel Stowage Other	:	14 - For metal drums, stowage permitted under deck on cargo vessels,53 - Stow "separated from" alkaline compounds,58 - Stow "separated from" cyanides

TDG

UN-No. (TDG)	:	UN1830
ERAP Index	:	3000
Explosive Limit and Limited Quantity Index	:	1 L
Excepted quantities (TDG)	:	E2
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index	:	1 L
Emergency Response Guide (ERG) Number	:	137

IMDG

Limited quantities (IMDG)	:	1 L
Excepted quantities (IMDG)	:	E2
Packing instructions (IMDG)	:	P001
IBC packing instructions (IMDG)	:	IBC02
IBC special provisions (IMDG)	:	B20
Tank instructions (IMDG)	:	T8
Tank special provisions (IMDG)	:	TP2
EmS-No. (Fire)	:	F-A - FIRE SCHEDULE Alfa - GENERAL FIRE SCHEDULE
EmS-No. (Spillage)	:	S-B - SPILLAGE SCHEDULE Bravo - CORROSIVE SUBSTANCES
Stowage category (IMDG)	:	C
Stowage and handling (IMDG)	:	SW15
Segregation (IMDG)	:	SGG1, SG36, SG49

Properties and observations (IMDG) : Colourless, oily liquid, mixture over 1.41 up to 1.84 relative density. In the presence of moisture, highly corrosive to most metals. Causes burns to skin, eyes and mucous membranes.

IATA

PCA Excepted quantities (IATA) : E2
PCA Limited quantities (IATA) : Y840
PCA limited quantity max net quantity (IATA) : 0.5L
PCA packing instructions (IATA) : 851
PCA max net quantity (IATA) : 1L
CAO packing instructions (IATA) : 855
CAO max net quantity (IATA) : 30L
ERG code (IATA) : 8L

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

Sulfuric Acid (7664-93-9)	
CERCLA RQ	1000 lb
RQ (Reportable quantity, section 304 of EPA's List of Lists)	1000 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	1000 lb

15.2. International regulations

CANADA

Sulfuric Acid (7664-93-9)
Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

National regulations

Sulfuric Acid (7664-93-9)
Listed as carcinogen on NTP (National Toxicology Program) Listed on IARC (International Agency for Research on Cancer) Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

Component	State or local regulations
Sulfuric Acid(7664-93-9)	U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Revision date : 7/8/2024

Full text of hazard classes and H-statements	
H290	May be corrosive to metals.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H350	May cause cancer.
H412	Harmful to aquatic life with long lasting effects.

Safety Data Sheet (SDS), USA

Author: Kurita Water Industries Ltd.
Revision Notes: Updated to GHS format
Disclaimer:
Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained herein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s). The above information is not claiming characteristics of the product in term of legal claims of performance / guarantee. This information only describes safety measures and no liability may arise from the use or application of the product described herein. This information is given in good faith and based on our current knowledge of the product.

Global Water

Instrumentation, Inc.

151 Graham Road
P.O. Box 9010
College Station, TX 77842-9010
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WS755 Water Sampler

Publication Number 39160314
01-957

Table of Contents

Congratulations on your purchase of the Global Water WS755 Water Sampler. This instrument has been quality tested and approved for accurate and reliable operation. We are confident that you will find the WS755 to be a valuable asset for your applications. Should you require assistance, our technical staff will be happy to help.

I. WS755 Checklist

1. WS755 Water Sampler with Transport Case
2. Two 20-Mesh Pickup Strainers w/ 15' of Hose
3. NiMH 12V Battery
4. NiMH Battery Charger
5. Battery Cable
6. Two Water Sensor Shorting Plugs
7. Two Quick-Disconnect Fitting Caps and Plugs
8. WS755 Manual

II. Inspection

The WS755 unit was carefully inspected and certified by Global Water's Quality Assurance Team before shipping. If any damage has occurred during shipping, please notify Global Water Instrumentation, Inc. and file a claim with the carrier involved.

Use the checklist to ensure that everything needed to operate the WS755 Water Sampler was received.

III. Description

The Global Water WS755 Sampler is designed specifically to meet a wide variety of sampling requirements including industrial discharge, process control, water and wastewater treatment plants, sewers, rivers and streams.

The sampler consists of a rugged, rainproof and lockable wheeled transport case with a comfort grip handle on top and retractable handle on the back. The enclosure houses a control panel with two peristaltic sampling pumps, two sample bottles, two pickup hoses and strainers with quick-disconnect fittings and a rechargeable battery in a self-contained battery box.

The WS755 Sampler can take two individual "time weighted" composite samples, or the sampler can be set to take full-bottle discrete or "Grab" samples. Each pump has its own sample bottle and control for setting the size of individual samples. This allows each pump to be set as either a composite or discrete sampler independently of the other or, in the case of two composite samplers, have different size settings for each pump.

A delay timer can be set to start sampling after a preset time. This allows multiple samplers to be deployed in the field and have them turn on at the same time. The delay can also be used to hold off sampling to let the water source flush out debris or other contaminants.

After each sample, the pumps will reverse for 15 seconds. This clears any debris from the strainer at the end of the pickup hose and also empties water from the hose so the next sample is not contaminated by the previous one.

Inputs are provided for triggering the sampler based on water level, a rain gauge sensor or signals from an external process controller or other monitoring device. Individual outputs are also available for monitoring when each of the pumps has taken a sample, using a data logger or similar recording device.

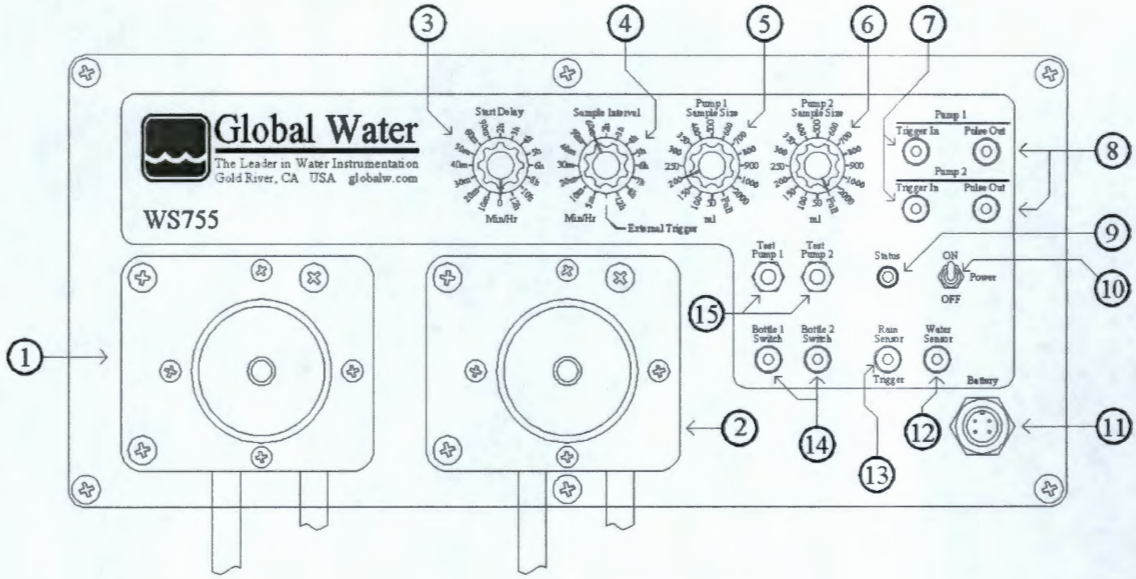
IV. Installing the Water Sampler

a. The sampler should be placed upright (it will not work if placed on its back or side).
b. Remove the pickup hoses and connect to the sampler using the quick-disconnect fittings on the side of the enclosure. Place the protective caps over the protective quick-disconnect plugs and save for future use.
c. To secure the sample bottles:
    1. Screw the bottle cap/float switch onto the sample bottle
    2. Place the bottles into the sampler enclosure
    3. Insert the end of the peristaltic pump's hose in the hole at the top of the bottle cap
    4. Plug the float switch lead into the jack on the front of the control panel
d. The sampling unit can be secured from vandalism and strong winds by one of the following methods:
    1. Mount unit on post and lock closed
    2. Lock closed and chain handles to a solid structure (such as a tree, post, or building)
    3. Enclose and lock unit in a steel electrical box
e. Avoid drilling holes in the enclosure if possible. If holes must be drilled in the enclosure avoid drilling through the control panel enclosure. Any holes drilled through the enclosure must be sealed with some type of sealant to prevent water from entering the case and causing equipment failure.
f. The unit is water resistant, not water proof. The unit must be located well above the expected water level to continue to provide reliable service.

V. Installing the Pickup Hose

Remove the pickup hoses from the enclosure and connect to the sampler using the quick-disconnect fittings. Place the protective caps over the protective plugs and save for future use. When storing the hoses inside the enclosure, replace the protective caps and plugs to keep the fittings clean of dirt and contamination. The pickup hoses should be installed in a wastewater discharge channel or stream. The pickup strainers should be submerged under water and should be situated to avoid contact with the channel bottom.

The Control Panel



1. Pump One.
2. Pump Two.
3. Start Delay: This setting delays sampling by a preset amount of time. If no delay is desired, set the control to zero. Only the first sample taken by each pump is delayed, except as described later in the section titled "External Trigger Mode".
4. Sample Interval: Sets the time interval between composite samples. The "External Trigger" position is reserved for using the Trigger and Rain Sensor inputs to initiate sampling as described later in the section titled "External Trigger Mode".
5. Pump 1 Sample Size: Sets the size for a single composite sample with pump one. The sample size settings are approximate and apply to a head height of four feet. The switch position marked "Full" causes the pump to work as a discrete sampler, filling the bottle full in one sample. Note: In the "Full" position, the sampler will shut off the pump after one hour, even if the bottle is not full.
6. Pump 2 Sample Size: Sets the sample size for pump two and works the same as Pump 1 Sample Size described above.
7. Trigger In: These inputs work in "External Trigger" mode only, when selected by the Sample Interval control. A signal from an external device will cause a single sample to be taken by the corresponding pump according to its Size control. The External Trigger mode is described in

more detail later in the section titled "External Trigger Mode". Refer to the Specifications section for details about the input pulse requirements.

8. Pulse Out: These outputs send a pulse to an optional recording or monitoring device each time the corresponding pump starts, allowing the time of the sample event to be recorded. Refer to the Specifications section for details about the output pulse.
9. Status: This red LED indicates the status of the sampler. While the sampler is waiting to be triggered, the light remains off. Once triggered, the LED will blink once every two seconds while the Delay or Interval timers are running and while the pumps are operating. The LED remains lit constantly when both sample bottles are full or if the switches are not plugged in.
10. Power: This turns the power to the sampler on and off. *Turning the switch off for one second resets all functions and timers.*
11. Battery: Connect the battery here using the supplied battery cable.
12. Water Sensor: When an optional water sensor is plugged into this jack, sampling will not begin until the presence of water is detected (the Rain Sensor must also detect water). If this sensor input is not being used, plug one of the two shorting plugs supplied with the sampler into this jack. This input has no affect when triggering the sampler with the Trigger Inputs in External Trigger mode.
13. Rain Sensor: When an optional water sensor is plugged into this jack, sampling will not begin until the presence of water is detected, usually in a rain gauge (the Water Sensor must also detect water). If this sensor input is not being used, plug one of the two shorting plugs supplied with the sampler into this jack. This input has no affect when triggering the sampler with the Trigger Inputs in External Trigger mode. This input can also be used to take individual composite samples and is described in detail later in the section titled "External Trigger Mode".
14. Bottle Switches: The sample bottle float switches plug into the control panel here. For sampling to occur, a float switch must be plugged in and the bottle must not be full. If the Status LED remains lit all the time, check these connections.
15. Test Pump: Pressing one of these buttons tests the operation of the corresponding pump. These buttons will test the pumps operation regardless of whether a bottle switch is plugged in or not. The pump runs forward for as long as the button is held down, then reverses for an equal amount of time, or 15 seconds, which ever is less.

VI. Composite Sampling

A composite sample is a series of smaller samples put into the same bottle, thus showing an "average" sample over time. Set the Interval control to the desired time between samples (do not select the External Trigger position). Set the Size control for the corresponding pump to the desired sample size. Note that the sample size settings are approximate and apply to a head height of four feet. For heights other than four feet, refer to the chart inside the front of the sampler. Each pump can have different size settings but will share the same Sample Interval setting.

The sampler starts timing when both of the optional Rain and Water Sensors detect moisture. If you do not have the optional water sensors or do not need them for your application, defeat them by plugging one of the two shorting plugs supplied with the sampler into their jack. If both inputs are defeated, the sampler starts up triggered when the power switch is turned on. The Status LED starts blinking every 2 seconds once the sampler is triggered.

The Start Delay timer begins running when the sampler is triggered by the Rain and Water Sensors and the first sample is taken when the timer expires. If the Delay control is set to zero, sampling begins immediately. The delay timer only applies to the first sample taken by each pump. At the end of each sample, the pumps reverse for 15 seconds.

Sampling continues as Trigger-Delay-Sample-Reverse-Interval-Sample-Reverse-Interval-Sample-Reverse ... until the sample bottles are full. For each pump, the same amount of Interval time is placed between samples, even if the size settings are different. When both bottles are full, the Status LED remains lit constantly.

VII. Discrete Sampling

A discrete sample is a single sample put into the same bottle, thus being a sample at one point in time. Set the Size control for the corresponding pump to "Full". Once started, the pump will continue to run until the sample bottle if full.

As with composite sampling, the Start Delay timer begins when the sampler is trigger by the Rain and Water Sensors and the first sample is taken when the timer expires. If the Delay control is set to zero, sampling begins immediately. The Status LED blinks every 2 seconds while the delay timer or the pumps are running and remains lit constantly once both of the sample bottles have been filled. At the end of sampling, the pumps reverse for 15 seconds.

VIII. Mixed Sampling, Composite and Discrete Sampler

The WS755 Sampler can be configured as both a composite and discrete sampler at the same time since each pump has a separate Size control. Set one pump's size setting to the desired composite sample size and the other to "Full".

Again, the Start Delay timer begins when the sampler is trigger by the Rain and Water Sensors and the first sample is taken when the timer expires. If the Delay control is set to zero, sampling begins immediately. The Status LED blinks every 2 seconds while the delay timer and the pumps are running and remains lit constantly once both of the sample bottles have been filled. At the end of each sample, the pumps reverse for 15 seconds.

X. External Trigger Mode

When the Sample Interval control is set to the "External Trigger" position, the sampler can be triggered externally by inputs from either the Trigger In jacks or the Rain Sensor input. This mode is useful in applications where sampling occurs based on readings from a process controller, SCADA system, flow monitor, auto-dumping rain gauge or other remote monitoring devices.

Using the Rain Sensor as a trigger source:
This mode is normally used with an auto-dumping rain gauge that empties itself every 24 hours. Set the Sample Interval control to External Trigger. Set each pumps Size control based on desired composite sample size or set to Full for a discrete sample.

The sampler will be triggered when both the Rain and Water Sensors detect moisture. If the Water Sensor is not needed, use one of the shorting plugs supplied with the sampler to defeat it by plugging it into the Water Sensor input jack. Place the Rain Sensor at the desired height in the rain gauge. When the Rain Sensor detects moisture, the sampler will start.

Once triggered by the Rain Sensor, the Start Delay timer begins running and the Status LED begins blinking every 2 seconds. When the timer expires, the pumps take a sample based on their individual Size settings. When the samples are complete, the pumps reverse for 15 seconds, and then stop. The sampler cannot be re-triggered until the rain gauge empties itself and the Rain Sensor goes dry. The next time the sensor detects moisture, the Start Delay timer will start over again and another sample will be taken when it expires.

If a pump's Size control is set to take a full-bottle discrete sample, further triggers will have no effect on that pump. If a pump is set to take composite samples, each one will represent the conditions at the time of that "qualified rain event". This process will continue until both the sample bottles are full and the Status LED remains lit all the time.

Using the Trigger Inputs as a source:
These inputs are generally used for connecting to a flow monitor, processor controller, or other external monitoring device.

When using the Trigger In input jacks, leave the Rain Sensor input jack disconnected. Each of the two Trigger Inputs control the corresponding pump separately from the other.

Upon being triggered by one of the Trigger Inputs, the Start Delay timer begins running. When the delay timer has expired, the corresponding pump takes a sample based on its Size setting. Holding the Trigger Input active past the end of the sample will cause the pump to continue until the Trigger Input is released. When the sample is complete, the pump reverses, and then stops.

Flow Proportional Sampling

a. To set the WS755 up to take flow proportional samples, a flow monitor must be attached to the control panel. In this configuration, the sampler is designed to take a sample every time a specific amount of flow has passed through the flow monitor.

b. The flow monitor must provide a momentary switch closure (250ms or longer) or a pulse of 4-30VDC, whenever a sample is to be taken. The output of the flow monitor must be wired to a 2-wire RCA jack as shown in Appendix C. The phone plug is then inserted into the Trigger In jack on the control panel.

c. Set the Sample Interval knob to External Trigger mode and the Sample Size knob to the desired sample size. The sample will be taken, flow proportionally, as directed by the flow meter.

XI. Specifications

Operating Temperature:	0° to +70°C
Dimensions	22"H X 18"W X 10"D
Weight:	30lb (Shipping Weight 32lbs)
Materials:	
Enclosure:	Expanded UV protected PVC
Bottles:	Two 1 gallon Polyethylene
Pickup Hoses:	15' nylon reinforced 1/4" ID polyethylene flexible tubing with 20-Mesh intake strainers and quick-disconnect fittings. 6-Mesh strainers available as options.
Pump Tubing:	Neoprene 1/4" ID, 7/16" OD
Sample Pumps:	
Flow Rate:	1000 ml per minute at 4 ft. head
Type:	Peristaltic
Maximum Lift:	~20 feet
Battery:	Rechargeable NiMH 12V 4 Ah
Battery Life:	One Pump running: ~1 hour Two Pumps running: ~ ½ hour Standby: 6 months while retaining power to run both pumps to capacity
Start Delay:	16 time settings from 0 to 12 hours
Composite Interval:	15 time settings from 5 min. to 12 hours plus an External Trigger mode setting
Sample Size:	15 composite sample sizes from 50ml to 2 liters plus a Full Bottle discrete setting (Approximate sizes at 4 foot head)
External Trigger Inputs:	250mS minimum pulse width Switch closure or 4-30VDC
Pulse Outputs:	5VDC one-second pulse 1000ohm output impedance
Bottle Switch Inputs:	Switch closure Input Floating read switch in bottle
Rain and Water Sensors:	Optional moisture sensors or switch closure inputs
Internal Fuse:	10A Slow-Blow

XII. Maintenance

Sampler

The Global Water WS755 Water Sampler requires minimal maintenance. The sampler enclosure is rainproof and rugged. Avoid exposure to extremely rough usage. Routinely wipe the carrying case and control panel face, rinse the pickup hose and debris strainer, and wash the sample bottles with mild soap and warm water. Additional plastic and glass sample bottles, neoprene tubing for the sampler pump, bottle caps/float switches, removable debris strainers, and pickup hose can be purchased from Global Water (see Appendix D section).

Battery

If the pump runs slowly, this is an indication that the battery requires charging. The Nickel –Metal Hydride (NiMH) battery is a low self-discharge type, allowing the battery to remain charged during long periods of non-use.
To recharge the battery, open the battery enclosure and unplug the battery from the control panel power cable. Remove the battery and plug it into the NiMH battery charger. The charger is designed with safety features which prevent battery overheating or overcharging. The "READY" and "CHARGE" LEDs will illuminate while the battery is being charged. Once completely charged, only the "READY" LED will be illuminated. The "FAULT" LED indicates one of several conditions:

- Battery is severely depleted, which will place the charger into trickle charging mode until battery is conditioned, at which time the charger will switch to fast charging. At this point, the "FAULT" LED will turn off and the "READY" and "CHARGE" LEDs will illuminate.
- If the battery to be charged is either too hot or too cold, the battery thermistor will cause the "FAULT" LED to illuminate. Once the battery reaches near room temperature, charging will begin.
- Should the battery have a shorted or open cell, the "FAULT" LED will illuminate upon connecting the battery and remain on.

NOTE: Under normal conditions, the battery will require approximately two hours to fully charge from a fully discharged state.

Additional batteries and battery chargers are available from GWI.

XIII. Troubleshooting

a. Check that the battery is firmly connected to the control panel and confirm that it is fully charged.
b. Press the Pump Test buttons on the front panel. The test buttons should always run the pumps, regardless of the state of any of the inputs.
c. Turn the power switch off for 1-2 seconds then back on to reset the sampler.
d. Check the Status LED on the front panel.
    i. The LED is off: If the water sensors are being used, check the Rain and Water Sensor inputs. Sensors must be in contact with moisture and unused inputs must have one of the shorting plugs supplied with the sampler plugged into the jack. If the Trigger Inputs are being used, confirm that External Trigger mode is selected on the Interval control. Check the pulses coming from the triggering device and confirm they meet specifications. Test the Trigger Inputs by plugging one of the shorting plugs supplied with the sampler into the jack.
    ii. The LED is blinking: Check the Start Delay and Interval settings. The sampler may be waiting for the Delay timer to run out or it may be timing the interval between composite samples.
    iii. The LED is on constantly: Check the bottle switches. The light remains on when both sample bottles are full or when both float switches are not plugged in or working properly. Plug one of the shorting plugs supplied with the sampler into one of the bottle switch jacks, the light should go out or start blinking.

Other issues

e. Call us for tech support: 800-876-1172 or (979) 690-5560 (many problems can be solved over the phone). Fax: (979) 690-0440 or Email: **globalw@globalw.com.**

    Be prepared to describe the problem being experienced including specific details of the application and installation and any additional pertinent information.
f. In the event that the equipment needs to be returned to the factory for any reason, please call to obtain a RMA # (Return Material Authorization). Do not return items without a RMA # on the outside of the package. Decontaminate the WS705 prior to returning.

Include a written statement describing the problems.

Send the package with shipping prepaid to Global Water's factory address. Insure the shipment, as the warranty does not cover damage incurred during transit.

g. When calling for tech support, please have the following information ready;
   1. Model #.
   2. Unit serial number.
   3. P.O. # the equipment was purchased on.
   4. Global Water's sales number or the invoice number.
   5. Repair instructions and/or specific problems relating to the product.

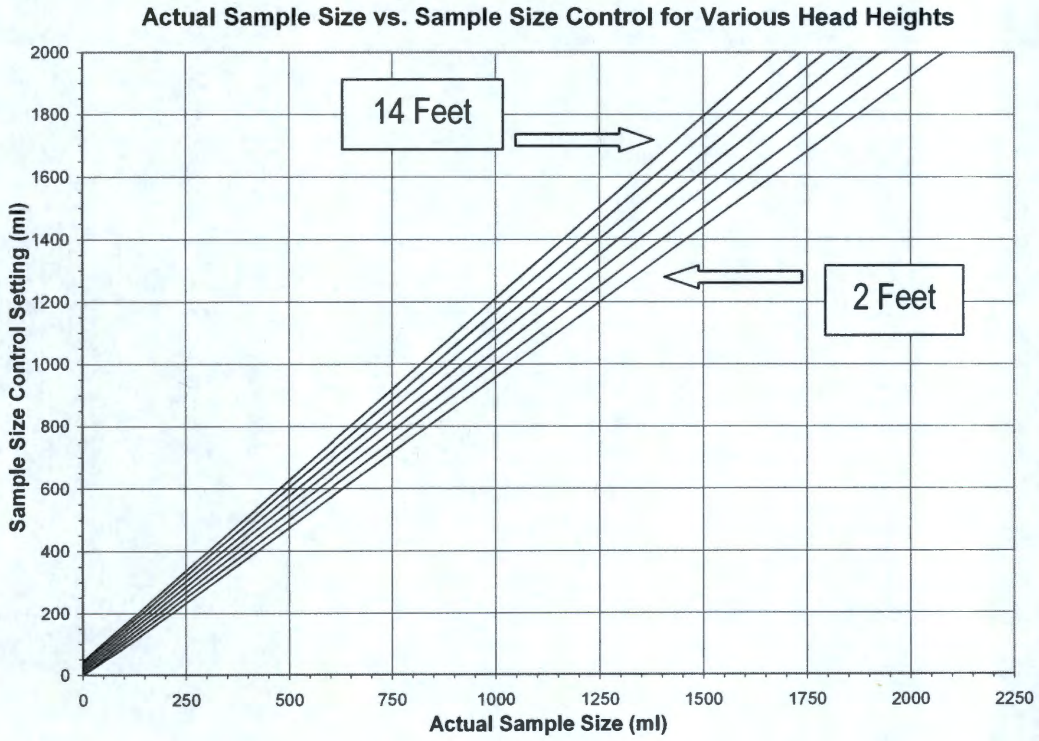
IXV. Warranty

a. Global Water Instrumentation, Inc. warrants that its products are free from defects in material and workmanship under normal use and service for a period of one year from date of shipment from factory. Global Water's obligations under this warranty are limited to, at Global Water's option: (I) replacing or (II) repairing; any products determined to be defective. In no case shall Global Water's liability exceed the products original purchase price. This warranty does not apply to any equipment that has been repaired or altered, except by Global Water Instrumentation, Inc., or which has been subject to misuse, negligence or accident. It is expressly agreed that this warranty will be in lieu of all warranties of fitness and in lieu of the warranty of merchantability.

b. The warranty begins on the date of the product's invoice.

Appendix A: Sample Size vs. Head Height

Use the following graph to see how sample size changes with head height. The Sample Size controls on the control panel are calibrated at a height of 4 feet. Increasing the head height decreases the sample size by a predictable amount. To determine the appropriate Sample Size setting for a desired volume; find the sample size on the horizontal axis, follow straight up to the line corresponding to your head height, then look across to the vertical axis and read the setting for the Size control on the control panel.

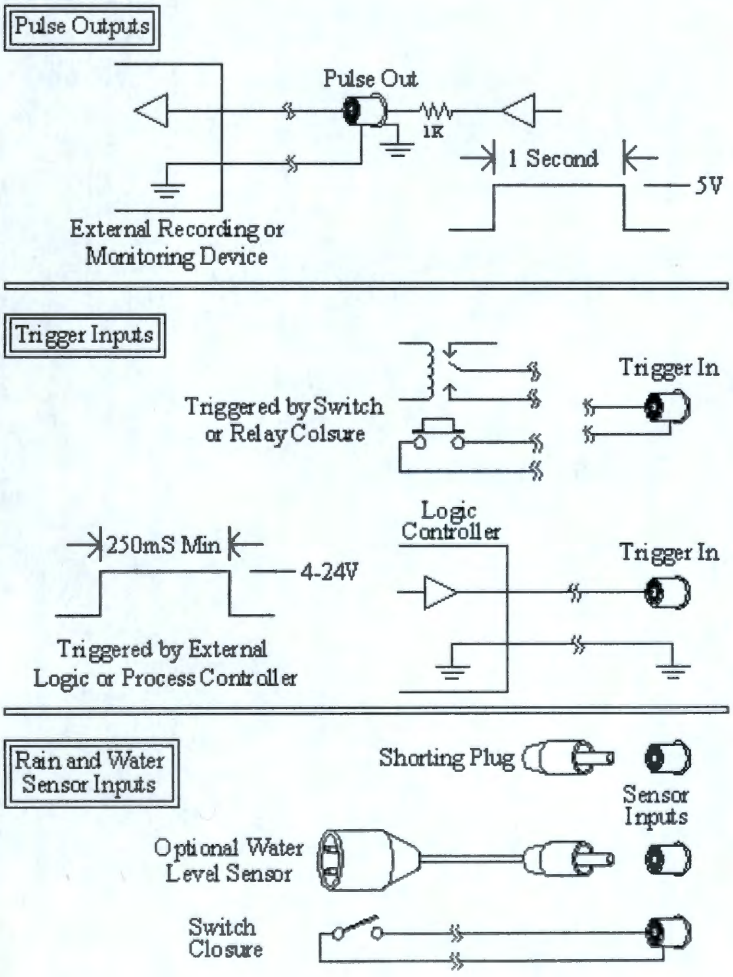


Appendix B: Battery Life

While battery life depends on several factors such as charge, condition and temperature; it can generally be assumed that the sampler can deployed in the field for 6 months waiting to be triggered, while still retaining enough charge to run a single pump for one hour (about 10 gallons) or both pumps for ½ hour (5 gallons). To prevent large current surges which occur when the pumps first turn on, the WS755 is designed so that only one pump will turn on or off at a time. A ½ second time delay is inserted between these events, extending the life of the charge and the life of the battery.

The battery should be monitored periodically for voltage; the low self-discharge design will allow minimal maintenance during periods of non-use.

Appendix C: Input and Output Connections



Appendix D: Accessories

Part Description	Part Number	Unit
12V 4 Ah NiMH Battery	329417	Each
NiMH Battery Charger	329585	Each
1 Gallon Plastic Sample Bottle	00-418	Each
1 Gallon Plastic Bottle Cap/Float Switch	CB0200	Each
Replacement Pickup Hose	00-546	Feet
20-Mesh Pickup Strainer Assembly	CA0600	Each
Replacement 20-Mesh Strainer	01-881	Each
Optional 6-Mesh Strainer	01-945	Each
Quick-Disconnect Fitting Plug & Cap	CA0850	Each
Tubing Quick-Disconnect Fitting	CA0860	Each
Replacement Pump Tubing	00-744	Feet
Rain and Water Sensors	CA0400	Each
Auto-Drain Rain Gauge	CH0000	Each
Complete Stormwater Kit	CTU000	Each

Holt, Wayne A

From: Holley, Shae
Sent: Monday, December 22, 2025 3:13 PM
To: Holt, Wayne A
Subject: RE: Stella-Jones 7Q10, AL0080543

Hey Wayne –

I am not finding a 'Gum Creek' whatsoever. It looks like the outfalls would discharge to UT to Yellow Leaf Creek by the topo and NHD lines. So I think the receiving water listed should be updated to that instead.

The drainage area is under 5 sq miles so the flows are very low.

Via the Bingham method:

7Q10 = .03 cfs
7Q2 = .11 cfs
1Q10 = .02 cfs
AA = 1.2 cfs

Let me know if you need anything else!

Merry Christmas!
Shae

From: Holt, Wayne A <WHolt@adem.alabama.gov>
Sent: Monday, December 22, 2025 11:07 AM
To: Holley, Shae <shae.holley@adem.alabama.gov>
Subject: Stella-Jones 7Q10, AL0080543

Shae,
Could you give me the 7Q10, 1q10, and AA for the stream for Stella-Jones in Clanton, AL?

Also, there seems to be parts of the permit that say the discharge is to U.T. to Gum Creek and other parts say the discharge is just to Gum Creek. Both to Coosa R.B.
Can you let me know which is correct, because I'm not finding either name on a topo.

Outfall	Receiving Water Name	Lat.	Long.
002	Gum Creek	32.886396	-86.673196
003	Gun Creek	32.885723	-86.669188
004	Gum Creek	32.886992	-86.672655

Thanks,

Wayne Holt
Industrial Section