EDWARD F. POOLOS
DIRECTOR

JEFFERY W. KITCHENS
DEPUTY DIRECTOR

OCT 2 7 2025

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

MR. BILL BOEHMAN
VICE PRESIDENT / MARINE GROUP
YAMAHA MOTOR CORP., USA
1270 CHASTAIN RD NW
KENNESAW, GA 301445586

RE: DRAFT PERMIT
NPDES PERMIT NUMBER AL0084515

Dear Mr. Boehman:

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 Muhammad Mehmood by e-mail at **muhammad.mehmood@adem.alabama.gov** or by phone at **(334) 279-3065.**

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
1615 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: YAMAHA MOTOR CORP., USA

FACILITY LOCATION: YAMAHA MARINE TEST FACILITY
120 SPUR TRACK CIRCLE
BRIDGEPORT, ALABAMA 35740
JACKSON COUNTY

PERMIT NUMBER: AL0084515

RECEIVING WATERS: DSN001 - TENNESSEE RIVER (GUNTERSVILLE LAKE)

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

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PART I: DISCHARGE LIMITATIONS, CONDITIONS, AND REQUIREMENTS

A. DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS

DSNS01: Process wastewater from boat building and repair facility

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

Parameter	Quantity or Loading		Units	Quality or Concentration			Units	Sample Frequency[2]	Sample Type[1]	Seasonal
Temperature, Water Deg. Fahrenheit (00011) Effluent Gross Value	*****	*****	*****	*****	*****	86 Maximum Daily	deg F	Monthly	Grab	All Months
BOD, 5-Day (20 Deg. C) (00310) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Monthly	Composite	All Months
pH (00400) Effluent Gross Value	*****	*****	*****	6.0 Minimum Daily	*****	8.5 Maximum Daily	S.U.	Daily	Recorder	All Months
Solids, Total Suspended (00530) Effluent Gross Value	*****	*****	*****	*****	*****	62 Maximum Daily	mg/l	Monthly	Grab	All Months
Oil and Grease, Hexane Extr Method (00552) Effluent Gross Value	*****	*****	*****	*****	*****	46.0 Maximum Daily	mg/l	Monthly	Grab	All Months
Phosphorus, Total (As P) (00665) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Monthly	Composite	All Months
Zinc, Total (As Zn) (01092) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Monthly	Grab	All Months
Flow, In Conduit or Thru Treatment Plant (50050) Effluent Gross Value	*****	*****	*****	*****	(Report) Monthly Average	(Report) Maximum Daily	MGD	Monthly	Totalizer	All Months
Chemical Oxygen Demand (COD) (81017) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Monthly	Composite	All Months

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

1/ Samples collected to comply with the monitoring requirements specified above shall be collected at the following location: At the nearest accessible location just prior to discharge and after final treatment. Unless otherwise specified, composite samples shall be time composite samples collected using automatic sampling equipment or a minimum of eight (8) equal volume grab samples collected over equal time intervals. All composite samples shall be collected for the total period of discharge not to exceed 24 hours.

2/ If only one sampling event occurs during a month, the sample result shall be reported on the discharge monitoring report as both the monthly average and daily maximum value for all parameters with a monthly average limitation.

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

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. **The Permittee shall complete and submit an EPA NPDES Application Form 2C no later than 180 days after the date that discharges begin.**

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.

ADEM PERMIT RATIONALE

PREPARED DATE: August 19, 2025
PREPARED BY: Muhammad Mehmood

Permittee Name: Yamaha Motor Corp., USA

Facility Name: Yamaha Marine Test Facility

Permit Number: AL0084515

PERMIT IS INITIAL ISSUANCE

DISCHARGE SERIAL NUMBERS (DSN) & DESCRIPTIONS:

DSN	Description
001	Process wastewater from boat building and repair facility

INDUSTRIAL CATEGORY: 40 CFR 438 – Metal Products and Machinery Point Source Category
438.15 – Oily Wastes Subcategory (NSPS)

MAJOR: No

STREAM INFORMATION:

Receiving Stream:	Tennessee River (Guntersville Lake)
Classification:	Public Water Supply, Swimming, Fish and Wildlife
River Basin:	Tennessee
7Q10:	4144 cfs
7Q2:	5930 cfs
1Q10:	1455 cfs
Annual Average Flow:	23526 cfs
303(d) List:	NO
Impairment:	None
TMDL:	NO

DISCUSSION:

Yamaha Marine Test Facility conducts research and development of marine engines. The facility has two testing pools each needing quarterly maintenance and cleaning, which will be resulting in a discharge of approximately 212,000 gallons of water to the river during each discharge period. A maximum of one pool will drain per day and the discharge schedule between pools will not overlap. The discharge from the pools is anticipated to be completed within 6 hours. While one pool is being discharged and cleaned, the second pool will be used for testing or idling.

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 for a new discharge and the anti-degradation rationale is attached.

DSNS01: Process wastewater from boat building and repair facility

Parameter	Quantity or Loading		Units	Quality or Concentration			Units	Sample Freq	Sample Type	Seasonal	Basis
Temperature, Water Deg. Fahrenheit (00011) Effluent Gross Value	*****	*****	*****	*****	*****	86 Maximum Daily	deg F	Monthly	Grab	All Months	WQBEL
BOD, 5-Day (20 Deg. C) (00310) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Monthly	Composite	All Months	BPJ
pH (00400) Effluent Gross Value	*****	*****	*****	6.0 Minimum Daily	*****	8.5 Maximum Daily	S.U.	Daily	Recorder	All Months	WQBEL
Solids, Total Suspended (00530) Effluent Gross Value	*****	*****	*****	*****	*****	62 Maximum Daily	mg/l	Monthly	Grab	All Months	EGL
Oil and Grease, Hexane Extr Method (00552) Effluent Gross Value	*****	*****	*****	*****	*****	46.0 Maximum Daily	mg/l	Monthly	Grab	All Months	EGL
Phosphorus, Total (As P) (00665) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Monthly	Composite	All Months	BPJ
Zinc, Total (As Zn) (01092) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Monthly	Grab	All Months	BPJ
Flow, In Conduit or Thru Treatment Plant (50050) Effluent Gross Value	*****	*****	*****	*****	(Report) Monthly Average	(Report) Maximum Daily	MGD	Monthly	Totalizer	All Months	BPJ
Chemical Oxygen Demand (COD) (81017) Effluent Gross Value	*****	*****	*****	*****	*****	(Report) Maximum Daily	mg/l	Monthly	Composite	All Months	BPJ

*Basis for Permit Limitation

- BPJ – Best Professional Judgment
- WQBEL – Water Quality Based Effluent Limits
- EGL – Federal Effluent Guideline Limitations

Discussion

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:

BOD (Biochemical Oxygen Demand), Phosphorus and Zinc
BOD, phosphorus and zinc will be monitored monthly to measure the effectiveness of the BMP plan.

Federal Effluent Guideline Limitations (EGL)
Parameters based upon EGL have had effluent guidelines established under the 40 CFR 438.

Total Suspended Solids (TSS)
Total Suspended Solids and Oil & Grease will be limited to a daily maximum of 62 mg/l and 46 mg/l, respectively, based on 40 CFR 438 effluent guideline limitations.

Water Quality Based Effluent Limits (WQBEL)

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

Temperature
In accordance with ADEM 335-6-10-.09(5)(e)(3), "the maximum temperature in streams, lakes and reservoirs in the Tennessee and Cahaba River Basins, and for that portion of the Tallapoosa River Basin from the tailrace of Thurlow Dam at Tallassee downstream to the junction of the Coosa and Tallapoosa Rivers which has been designated by the Alabama Department of Conservation and Natural Resources as supporting small mouth bass, sauger or walleye, shall not exceed 86°F."

Numeric Reasonable Potential Analysis (RPA)
A numeric RPA was performed to determine the potential for pollutants to violate the in-stream water quality standards. The flow used was 0.2 MGD as reported on EPA form 2D. The RPA did not show any potential for the facility's discharge to violate the in-stream water quality standards.

Best Management Practices (BMP) Plan
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).

Schedule of Compliance
Since this Permit has been proposed based on estimates of the characteristics of discharge reported on an EPA NPDES Application Form 2D, the Permittee shall complete and submit an EPA NPDES Application Form 2C no later than 180 days after the date that discharges begin. The schedule of compliance can be found in Part I.E.2. of the permit.

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Kay Ivey
Governor

ANTIDEGRADATION RATIONALE

Permit Number:	AL0084515
Facility Name:	Yamaha Marine Test Facility
Receiving water:	Tennessee River (Guntersville Lake)
Stream Category:	**Tier 2 as defined by ADEM Admin. Code 335-6-10-.12**
Discharge Description:	Process wastewater from boat building and repair facility

The following preliminary determination was prepared in accordance with ADEM Admin. Code 335-6-10-.12 (7) (c):

The Department has reviewed the information submitted by applicant in accordance with ADEM Admin. Code 335-6-10-.12 (9). The applicant has demonstrated that there are no alternative options which are economically feasible or technically viable. In the case of technically viable options, the applicant has shown them to be cost prohibitive through the alternatives analysis required by the permit application.

The permit applicant has indicated that the following economic and/or social benefits will result from the issuance of this permit:

- Increase in employment within the community. Four additional positions will be created in conjunction with this facility.
- There will be additional state and local tax revenue generated from the project.
- The $40M project is expected to provide revenue to local and state contractors and government.

The Department has determined that the discharge as proposed by the permit applicant is necessary for important economic and social development in the area in which the receiving water is located.

Prepared By: Scott Jackson
Date: September 29, 2025

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Facility Name: **Yamaha Marine Test Facility**

NPDES No.: **AL0084515**

8/13/2017

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

ID	Pollutant	Carcinogen "yes"	Type	Background from upstream source (C_{d2}) Daily Max µg/l	Background from upstream source (C_{d2}) Monthly Ave µg/l	Background Instream (C_s) Daily Max µg/l	Background Instream (C_s) Monthly Ave µg/l	Enter Max Daily Discharge as reported by Applicant (C_d) Max µg/l	Enter Avg Daily Discharge as reported by Applicant (C_d) Ave µg/l	Partition Coefficient (Stream / Lake)
1	Antimony		Metals	0	0	0	0	0	0	-
2	**Arsenic*,****	YES	Metals	0	0	0	0	0	0	0.574
3	Beryllium		Metals	0	0	0	0	0	0	-
4	Cadmium**		Metals	0	0	0	0	0	0	0.236
5	Chromium / Chromium III**		Metals	0	0	0	0	0	0	0.210
6	Chromium / Chromium VI**		Metals	0	0	0	0	0	0	
7	Copper**		Metals	0	0	0	0	0	0	0.388
8	Lead**		Metals	0	0	0	0	0	0	0.206
9	Mercury**		Metals	0	0	0	0	0	0	0.302
10	Nickel**		Metals	0	0	0	0	0	0	0.505
11	Selenium		Metals	0	0	0	0	0	0	-
12	Silver		Metals	0	0	0	0	0	0	-
13	Thallium		Metals	0	0	0	0	0	0	-
14	Zinc**		Metals	0	0	0	0	300	300	0.330
15	Cyanide		Metals	0	0	0	0	0	0	-
16	Total Phenolic Compounds		Metals	0	0	0	0	0	0	-
17	Hardness (As CaCO3)		Metals	0	0	0	0	0	0	-
18	Acrolein		VOC	0	0	0	0	0	0	-
19	**Acrylonitrile***	YES	VOC	0	0	0	0	0	0	-
20	**Aldrin**	YES	VOC	0	0	0	0	0	0	-
21	**Benzene***	YES	VOC	0	0	0	0	0	0	-
22	**Bromoform***	YES	VOC	0	0	0	0	0	0	-
23	**Carbon Tetrachloride***	YES	VOC	0	0	0	0	0	0	-
24	**Chlordane**	YES	VOC	0	0	0	0	0	0	-
25	Clorobenzene		VOC	0	0	0	0	0	0	-
26	**Chlorodibromo-Methane***	YES	VOC	0	0	0	0	0	0	-
27	Chloroethane		VOC	0	0	0	0	0	0	-
28	2-Chloro-Ethylvinyl Ether		VOC	0	0	0	0	0	0	-
29	**Chloroform***	YES	VOC	0	0	0	0	0	0	-
30	**4,4'-DDD**	YES	VOC	0	0	0	0	0	0	-
31	**4,4'-DDE**	YES	VOC	0	0	0	0	0	0	-
32	**4,4'-DDT**	YES	VOC	0	0	0	0	0	0	-
33	**Dichlorobromo-Methane***	YES	VOC	0	0	0	0	0	0	-
34	1, 1-Dichloroethane		VOC	0	0	0	0	0	0	-
35	**1, 2-Dichloroethane***	YES	VOC	0	0	0	0	0	0	-
36	Trans-1, 2-Dichloro-Ethylene		VOC	0	0	0	0	0	0	-
37	**1, 1-Dichloroethylene***	YES	VOC	0	0	0	0	0	0	-
38	1, 2-Dichloropropane		VOC	0	0	0	0	0	0	-
39	1, 3-Dichloro-Propylene		VOC	0	0	0	0	0	0	-
40	**Dieldrin**	YES	VOC	0	0	0	0	0	0	-
41	Ethylbenzene		VOC	0	0	0	0	0	0	-
42	Methyl Bromide		VOC	0	0	0	0	0	0	-
43	Methyl Chloride		VOC	0	0	0	0	0	0	-
44	**Methylene Chloride***	YES	VOC	0	0	0	0	0	0	-
45	**1, 1, 2, 2-Tetrachloro-Ethane***	YES	VOC	0	0	0	0	0	0	-
46	**Tetrachloro-Ethylene***	YES	VOC	0	0	0	0	0	0	-
47	Toluene		VOC	0	0	0	0	0	0	-
48	**Toxaphene**	YES	VOC	0	0	0	0	0	0	-
49	**Tributyltine (TBT)**	YES	VOC	0	0	0	0	0	0	-
50	1, 1, 1-Trichloroethane		VOC	0	0	0	0	0	0	-
51	**1, 1, 2-Trichloroethane***	YES	VOC	0	0	0	0	0.6	0.6	-
52	**Trichloroethylene***	YES	VOC	0	0	0	0	2	2	-
53	**Vinyl Chloride***	YES	VOC	0	0	0	0	0	0	-
54	P-Chloro-M-Cresol		Acids	0	0	0	0	0	0	-
55	2-Chlorophenol		Acids	0	0	0	0	0	0	-
56	2, 4-Dichlorophenol		Acids	0	0	0	0	0	0	-
57	2, 4-Dimethylphenol		Acids	0	0	0	0	0	0	-
58	4, 6-Dinitro-O-Cresol		Acids	0	0	0	0	0	0	-
59	2, 4-Dinitrophenol		Acids	0	0	0	0	0	0	-
60	**4,6-Dintro-2-methylophenol**	YES	Acids	0	0	0	0	0	0	-
61	**Dioxin (2,3,7,8-TCDD)**	YES	Acids	0	0	0	0	0	0	-
62	2-Nitrophenol		Acids	0	0	0	0	0	0	-
63	4-Nitrophenol		Acids	0	0	0	0	0	0	-
64	**Pentachlorophenol***	YES	Acids	0	0	0	0	0	0	-
65	Phenol		Acids	0	0	0	0	0	0	-
66	**2, 4, 6-Trichlorophenol***	YES	Acids	0	0	0	0	0	0	-
67	Acenaphthene		Bases	0	0	0	0	0	0	-
68	Acenaphthylene		Bases	0	0	0	0	0	0	-
69	Anthracene		Bases	0	0	0	0	0	0	-
70	Benzidine		Bases	0	0	0	0	0	0	-
71	**Benzo(A)Anthracene***	YES	Bases	0	0	0	0	0	0	-
72	**Benzo(A)Pyrene***	YES	Bases	0	0	0	0	0	0	-
73	3, 4 Benzo-Fluoranthene		Bases	0	0	0	0	0	0	-
74	Benzo(GHI)Perylene		Bases	0	0	0	0	0	0	-
75	Benzo(K)Fluoranthene		Bases	0	0	0	0	0	0	-
76	Bis (2-Chloroethoxy) Methane		Bases	0	0	0	0	0	0	-
77	**Bis (2-Chloroethyl)-Ether***	YES	Bases	0	0	0	0	0	0	-
78	Bis (2-Chloroiso-Propyl) Ether		Bases	0	0	0	0	0	0	-
79	**Bis (2-Ethylhexyl) Phthalate***	YES	Bases	0	0	0	0	0	0	-
80	4-Bromophenyl Phenyl Ether		Bases	0	0	0	0	0	0	-
81	Butyl Benzyl Phthalate		Bases	0	0	0	0	0	0	-
82	2-Chloronaphthalene		Bases	0	0	0	0	0	0	-
83	4-Chlorophenyl Phenyl Ether		Bases	0	0	0	0	0	0	-
84	**Chrysene***	YES	Bases	0	0	0	0	0	0	-
85	Di-N-Butyl Phthalate		Bases	0	0	0	0	0	0	-
86	Di-N-Octyl Phthalate		Bases	0	0	0	0	0	0	-
87	**Dibenzo(A,H)Anthracene***	YES	Bases	0	0	0	0	0	0	-
88	1, 2-Dichlorobenzene		Bases	0	0	0	0	0	0	-
89	1, 3-Dichlorobenzene		Bases	0	0	0	0	0	0	-
90	1, 4-Dichlorobenzene		Bases	0	0	0	0	0	0	-
91	**3, 3-Dichlorobenzidine***	YES	Bases	0	0	0	0	0	0	-
92	Diethyl Phthalate		Bases	0	0	0	0	0	0	-
93	Dimethyl Phthalate		Bases	0	0	0	0	0	0	-
94	**2, 4-Dinitrotoluene***	YES	Bases	0	0	0	0	0	0	-
95	2, 6-Dinitrotoluene		Bases	0	0	0	0	0	0	-
96	1,2-Diphenylhydrazine		Bases	0	0	0	0	0	0	-
97	**Endosulfan (alpha)**	YES	Bases	0	0	0	0	0	0	-
98	**Endosulfan (beta)**	YES	Bases	0	0	0	0	0	0	-
99	**Endosulfan sulfate**	YES	Bases	0	0	0	0	0	0	-
100	**Endrin**	YES	Bases	0	0	0	0	0	0	-
101	**Endrin Aldeyhide**	YES	Bases	0	0	0	0	0	0	-
102	Fluoranthene		Bases	0	0	0	0	0	0	-
103	Fluorene		Bases	0	0	0	0	0	0	-
104	Heptochlor	YES	Bases	0	0	0	0	0	0	-
105	Heptachlor Epoxide	YES	Bases	0	0	0	0	0	0	-
106	**Hexachlorobenzene***	YES	Bases	0	0	0	0	0	0	-
107	**Hexachlorobutadiene***	YES	Bases	0	0	0	0	0	0	-
108	**Hexachlorocyclohexan (alpa)**	YES	Bases	0	0	0	0	0	0	-
109	**Hexachlorocyclohexan (beta)**	YES	Bases	0	0	0	0	0	0	-
110	**Hexachlorocyclohexan (gamma)**	YES	Bases	0	0	0	0	0	0	-
111	HexachlorocycloPentadiene		Bases	0	0	0	0	0	0	-
112	Hexachloroethane		Bases	0	0	0	0	0	0	-
113	**Indeno(1, 2, 3-CK)Pyrene***	YES	Bases	0	0	0	0	0	0	-
114	Isophorone		Bases	0	0	0	0	0	0	-
115	Naphthalene		Bases	0	0	0	0	0	0	-
116	Nitrobenzene		Bases	0	0	0	0	0	0	-
117	**N-Nitrosodi-N-Propylamine***	YES	Bases	0	0	0	0	0	0	-
118	**N-Nitrosodi-N-Methylamine***	YES	Bases	0	0	0	0	0	0	-
119	**N-Nitrosodi-N-Phenylamine***	YES	Bases	0	0	0	0	0	0	-
120	**PCB-1016**	YES	Bases	0	0	0	0	0	0	-
121	**PCB-1221**	YES	Bases	0	0	0	0	0	0	-
122	**PCB-1232**	YES	Bases	0	0	0	0	0	0	-
123	**PCB-1242**	YES	Bases	0	0	0	0	0	0	-
124	**PCB-1248**	YES	Bases	0	0	0	0	0	0	-
125	**PCB-1254**	YES	Bases	0	0	0	0	0	0	-
126	**PCB-1260**	YES	Bases	0	0	0	0	0	0	-
127	Phenanthrene		Bases	0	0	0	0	0	0	-
128	Pyrene		Bases	0	0	0	0	0	0	-
129	1, 2, 4-Trichlorobenzene		Bases	0	0	0	0	0	0	-

v. 07/01/02

0.2	Enter Q_d = wastewater discharge flow from facility (MGD)
0.3094458	Q_d = wastewater discharge flow (cfs) (this value is calculated from the MGD)
0	Enter flow from upstream discharge Qd2 = background stream flow in MGD above point of discharge
0	Qd2 = background stream flow from upstream source (cfs)
4144	Enter 7Q10, Q_s = background stream flow in cfs above point of discharge
1455	Enter or estimated, 1Q10, Q_s = background stream flow in cfs above point of discharge (1Q10 estimated at 75% of 7Q10)
23526	Enter Mean Annual Flow, Q_s = background stream flow in cfs above point of discharge
5390	Enter 7Q2, Q_s = background stream flow in cfs above point of discharge (For LWF class streams)
Enter to Left	Enter C_s = background in-stream pollutant concentration in µg/l (assuming this is zero "0" unless there is data)
Q_d +Qd2+Q_s	Q_r = resultant in-stream flow, after discharge
Calculated on other	C_r = resultant in-stream pollutant concentration in µg/l in the stream (after complete mixing occurs)
50	Enter, Background Hardness above point of discharge (assumed 50 South of Birmingham and 100 North of Birmingham)
7.00 s.u.	Enter, Background pH above point of discharge
YES	Enter, Is discharge to a stream? "YES" Other option would be to a Lake. (This changes the partition coefficients for the metals)

** Using Partition Coefficients

October 8, 2025

Facility Name: Yamaha Marine Test Facility

NPDES No.: AL0084515

						Freshwater F&W classification.						Freshwater Acute (µg/l) Q_s =1Q10					Freshwater Chronic (µg/l) Q_s = 7Q10					Human Health Consumption Fish only (µg/l) Carcinogen Q_s = Annual Average Non-Carcinogen Q_s = 7Q10			
ID	Pollutant	RP?	Carcinogen yes	Background from upstream source (Cd2) Daily Max	Max Daily Discharge as reported by Applicant (C_{Daily})	Water Quality Criteria (C_s)	Draft Permit Limit (C_{Daily})	20% of Draft Permit Limit	RP?	Background from upstream source (Cd2) Monthly Ave	Avg Daily Discharge as reported by Applicant (C_{Daily})	Water Quality Criteria (C_s)	Draft Permit Limit (C_{Daily})	20% of Draft Permit Limit	RP?	Water Quality Criteria (C_s)	Draft Permit Limit (C_{Daily})	20% of Draft Permit Limit	RP?
1	Antimony			0	0	-	-	-	-	0	0	-	-	-	-	3.71E+02	5.00E+06	1.00E+06	No
2	Arsenic		YES	0	0	592.334	2785722.040	557144.408	No	0	0	261.334	3499830.002	699966.000	No	3.03E-01	2.30E+04	4.61E+03	No
3	Beryllium			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
4	Cadmium			0	0	4.347	20444.350	4088.870	No	0	0	0.844	8619.657	1723.931	No	-	-	-	-
5	Chromium/ Chromium III			0	0	1537.813	7232734.093	1446546.819	No	0	0	205.051	2679217.890	535843.578	No	-	-	-	-
6	Chromium/ Chromium VI			0	0	16.000	75247.268	15049.454	No	0	0	11.000	147319.511	29463.902	No	-	-	-	-
7	Copper			0	0	19.026	84777.222	16955.444	No	0	0	12.798	170865.213	34193.043	No	-	-	-	-
8	Lead			0	0	146.231	687999.142	137599.828	No	0	0	5.701	76348.258	15269.652	No	-	-	-	-
9	Mercury			0	0	2.400	11287.090	2257.418	No	0	0	0.012	160.712	32.142	No	4.24E-02	5.68E+02	1.14E+02	No
10	Nickel			0	0	515.824	2425898.350	485179.670	No	0	0	57.260	767295.736	153459.147	No	9.93E+02	1.33E+07	2.66E+06	No
11	Selenium			0	0	20.000	94059.085	18811.817	No	0	0	5.000	66963.414	13392.683	No	2.43E+03	3.26E+07	6.51E+06	No
12	Silver			0	0	0.976	4592.165	918.433	No	0	0	-	-	-	-	-	-	-	-
13	Thallium			0	0	-	-	-	-	0	0	-	-	-	-	3.76E-01	3.66E+03	7.33E+02	No
14	Zinc			0	300	197.368	928216.485	185643.297	No	0	300	184.883	2664919.931	532983.986	No	1.49E+04	1.99E+08	3.99E+07	No
15	Cyanide			0	0	22.000	103464.994	20692.999	No	0	0	5.200	69641.951	13928.390	No	9.33E+02	1.25E+06	2.50E+07	No
16	Total Phenolic Compounds			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
17	Hardness (As CaCO3)			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
18	Acrolein			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
19	Acrylonitrile		YES	0	0	-	-	-	-	0	0	-	-	-	-	5.43E+00	7.27E+04	1.45E+04	No
20	Aldrin		YES	0	0	3.000	14108.863	2821.773	No	0	0	-	-	-	-	1.44E-01	1.10E+04	2.19E+03	No
21	Benzene		YES	0	0	-	-	-	-	0	0	-	-	-	-	2.94E-02	2.23E+00	4.47E-01	No
22	Bromoform		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.52E+01	1.18E+06	2.35E+05	No
23	Carbon Tetrachloride		YES	0	0	-	-	-	-	0	0	-	-	-	-	7.58E+01	5.99E+06	1.20E+06	No
24	Chlordane		YES	0	0	2.400	11287.090	2257.418	No	0	0	0.0043	57.589	11.518	No	4.73E-04	3.50E+01	7.19E+00	No
25	Clorobenzene			0	0	-	-	-	-	0	0	-	-	-	-	9.06E+02	1.21E+07	2.43E+06	No
26	Chlorodibromo-Methane		YES	0	0	-	-	-	-	0	0	-	-	-	-	7.41E+00	5.63E+05	1.13E+05	No
27	Chloroethane			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
28	2-Chloro-Ethylvinyl Ether			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
29	ChloroForm		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.00E+03	7.76E+06	1.55E+06	No
30	4,4' - DDD		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.81E-04	1.38E+01	2.76E+00	No
31	4,4' - DDE		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.28E-04	9.73E+00	1.95E+00	No
32	4,4' - DDT		YES	0	0	1.100	5173.250	1034.650	No	0	0	0.001	13.393	2.679	No	1.28E-04	9.73E+00	1.95E+00	No
33	Dichlorobromo-Methane		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.00E+01	7.63E+05	1.53E+05	No
34	1, 1-Dichloroethane			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
35	1, 2-Dichloroethane		YES	0	0	-	-	-	-	0	0	-	-	-	-	2.14E+01	1.62E+06	3.25E+05	No
36	Trans-1, 2-Dichloro-Ethylene			0	0	-	-	-	-	0	0	-	-	-	-	5.91E+03	7.91E+07	1.58E+07	No
37	1, 1-Dichloroethylene		YES	0	0	-	-	-	-	0	0	-	-	-	-	4.17E+03	3.17E+08	6.34E+07	No
38	1, 2-Dichloropropane			0	0	-	-	-	-	0	0	-	-	-	-	8.49E+00	1.14E+05	2.28E+04	No
39	1, 3-Dichloro-Propylene			0	0	-	-	-	-	0	0	-	-	-	-	1.25E+01	1.64E+05	3.29E+04	No
40	Dieldrin		YES	0	0	0.240	1128.709	225.742	No	0	0	0.056	749.990	149.998	No	3.12E-05	2.37E+00	4.75E-01	No
41	Ethylbenzene			0	0	-	-	-	-	0	0	-	-	-	-	1.24E+03	1.67E+07	3.33E+06	No
42	Methyl Bromide			0	0	-	-	-	-	0	0	-	-	-	-	8.71E+02	1.17E+07	2.33E+06	No
43	Methyl Chloride			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
44	Methylene Chloride		YES	0	0	-	-	-	-	0	0	-	-	-	-	3.46E+02	2.63E+07	5.26E+06	No
45	1, 1, 2, 2-Tetrachloro-Ethane		YES	0	0	-	-	-	-	0	0	-	-	-	-	2.33E+00	1.77E+05	3.55E+04	No
46	Tetrachloro-Ethylene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.92E+00	1.46E+05	2.91E+04	No
47	Toluene			0	0	-	-	-	-	0	0	-	-	-	-	8.72E+03	1.17E+08	2.34E+07	No
48	Toxaphene		YES	0	0	0.730	3433.157	686.631	No	0	0	0.0002	2.679	0.536	No	1.60E-04	1.23E+01	2.46E+00	No
49	Tributyltin (TBT)		YES	0	0	0.460	2163.359	432.672	No	0	0	0.072	964.273	192.855	No	-	-	-	-
50	1, 1, 1-Trichloroethane			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
51	1, 1, 2-Trichloroethane		YES	0	0.6	-	-	-	-	0	0.6	-	-	-	-	6.10E+00	6.92E+05	1.38E+05	No
52	Trichloroethylene		YES	0	2	-	-	-	-	0	2	-	-	-	-	1.79E+01	1.33E+06	2.66E+05	No
53	Vinyl Chloride		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.42E+00	1.08E+05	2.17E+04	No
54	P-Chloro-M-Cresol			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
55	2-Chlorophenol			0	0	-	-	-	-	0	0	-	-	-	-	8.71E+01	1.17E+06	2.33E+05	No
56	2, 4-Dichlorophenol			0	0	-	-	-	-	0	0	-	-	-	-	1.72E+02	2.30E+06	4.61E+05	No
57	2, 4-Dimethylphenol			0	0	-	-	-	-	0	0	-	-	-	-	4.98E+02	6.66E+06	1.33E+06	No
58	4, 6-Dinitro-O-Cresol			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
59	2, 4-Dinitrophenol			0	0	-	-	-	-	0	0	-	-	-	-	3.11E+03	4.17E+07	8.33E+06	No
60	4,6-Dinitro-2-methylphenol		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.65E+02	1.26E+07	2.52E+06	No
61	Dioxin (2,3,7,8-TCDD)		YES	0	0	-	-	-	-	0	0	-	-	-	-	2.67E-08	2.03E-03	4.05E-04	No
62	2-Nitrophenol			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
63	4-Nitrophenol			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
64	Pentachlorophenol		YES	0	0	8.728	41025.379	8205.076	No	0	0	6.688	89631.650	17926.330	No	1.77E+00	1.34E+05	2.69E+04	No
65	Phenol			0	0	-	-	-	-	0	0	-	-	-	-	5.00E+05	6.70E+09	1.34E+09	No
66	2, 4, 6-Trichlorophenol		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.41E+00	1.08E+05	2.15E+04	No
67	Acenaphthene			0	0	-	-	-	-	0	0	-	-	-	-	5.79E+02	7.75E+06	1.55E+06	No
68	Acenaphthylene			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
69	Anthracene			0	0	-	-	-	-	0	0	-	-	-	-	2.33E+04	3.12E+06	6.25E+07	No
70	Benzidine			0	0	-	-	-	-	0	0	-	-	-	-	1.16E-04	1.55E+00	3.11E-01	No
71	Benzo(A)Anthracene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.07E-02	8.10E+02	1.62E+02	No
72	Benzo(A)Pyrene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.07E-02	8.10E+02	1.62E+02	No
73	Benzo(b)fluoranthene			0	0	-	-	-	-	0	0	-	-	-	-	1.07E-02	1.43E+02	2.85E+01	No
74	Benzo(GHI)Perylene			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
75	Benzo(K)Fluoranthene			0	0	-	-	-	-	0	0	-	-	-	-	1.07E-02	1.43E+02	2.85E+01	No
76	Bis (2-Chloroethoxy) Methane			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
77	Bis (2-Chloroethyl)-Ether		YES	0	0	-	-	-	-	0	0	-	-	-	-	3.07E-01	2.34E+04	4.67E+03	No
78	Bis (2-Chloroiso-Propyl) Ether			0	0	-	-	-	-	0	0	-	-	-	-	3.72E+04	5.06E+08	1.01E+08	No
79	Bis (2-Ethylhexyl) Phthalate		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.33E+00	9.75E+04	1.95E+04	No
80	4-Bromophenyl Phenyl Ether			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
81	Butyl Benzyl Phthalate			0	0	-	-	-	-	0	0	-	-	-	-	1.13E+03	1.51E+07	3.02E+06	No
82	2-Chloronaphthalene			0	0	-	-	-	-	0	0	-	-	-	-	9.24E+02	1.24E+07	2.46E+06	No
83	4-Chlorophenyl Phenyl Ether			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
84	Chrysene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.07E-02	8.10E+02	1.62E+02	No
85	DI-N-Butyl Phthalate			0	0	-	-	-	-	0	0	-	-	-	-	2.62E+03	3.51E+07	7.02E+06	No
86	DI-N-Octyl Phthalate			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
87	Dibenzo(A,H)Anthracene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.07E-02	8.10E+02	1.62E+02	No
88	1, 2-Dichlorobenzene			0	0	-	-	-	-	0	0	-	-	-	-	7.56E+02	1.01E+07	2.02E+06	No
89	1, 3-Dichlorobenzene			0	0	-	-	-	-	0	0	-	-	-	-	5.62E+02	7.53E+06	1.51E+06	No
90	1, 4-Dichlorobenzene			0	0	-	-	-	-	0	0	-	-	-	-	1.12E+02	1.51E+06	3.01E+05	No
91	3, 3-Dichlorobenzidine		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.89E-02	1.26E+03	2.53E+02	No
92	Diethyl Phthalate			0	0	-	-	-	-	0	0	-	-	-	-	2.50E+04	3.42E+08	6.85E+07	No
93	Dimethyl Phthalate			0	0	-	-	-	-	0	0	-	-	-	-	6.48E+05	8.68E+09	1.74E+09	No
94	2, 4-Dinitrotoluene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.89E+00	1.51E+05	3.01E+04	No
95	2, 6-Dinitrotoluene			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
96	1,2-Diphenylhydrazine			0	0	-	-	-	-	0	0	-	-	-	-	1.17E-01	1.57E+03	3.14E+02	No
97	Endosulfan (alpha)		YES	0	0	0.22	1034.650	206.930	No	0	0	0.056	749.990	149.998	No	8.19E+01	3.94E+06	7.88E+05	No
98	Endosulfan (beta)		YES	0	0	0.22	1034.650	206.930	No	0	0	0.056	749.990	149.998	No	8.19E+01	3.94E+06	7.88E+05	No
99	Endosulfan sulfate		YES	0	0	-	-	-	-	0	0	-	-	-	-	8.19E+01	3.94E+06	7.88E+05	No
100	Endrin		YES	0	0	0.086	404.454	80.891	No	0	0	0.036	482.137	96.427	No	5.53E-02	2.66E+03	5.36E+02	No
101	Endrin Aldeyhde		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.78E-01	1.34E+04	2.66E+03	No
102	Fluoranthene			0	0	-	-	-	-	0	0	-	-	-	-	8.72E+01	1.09E+06	2.17E+05	No
103	Fluorene			0	0	-	-	-	-	0	0	-	-	-	-	3.11E+03	4.17E+07	8.33E+06	No
104	Heptochlor		YES	0	0	0.52	2445.536	489.107	No	0	0	0.0036	50.892	10.178	No	4.69E-04	3.52E+00	7.04E-01	No
105	Heptachlor Epoxide		YES	0	0	0.52	2445.536	489.107	No	0	0	0.0036	50.892	10.178	No	2.35E-05	1.74E+00	3.48E-01	No
106	Hexachlorobenzene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.62E-04	1.28E+01	2.55E+00	No
107	Hexachlorobutadiene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.08E+01	8.16E+05	1.64E+05	No
108	Hexachlorocyclohexan (alpha)		YES	0	0	-	-	-	-	0	0	-	-	-	-	2.65E-03	2.17E+02	4.33E+01	No
109	Hexachlorocyclohexan (beta)		YES	0	0	-	-	-	-	0	0	-	-	-	-	9.97E-03	7.58E+02	1.52E+02	No
110	Hexachlorocyclohexan (gamma)		YES	0	0	0.95	4467.807	893.561	No	0	0	-	-	-	-	1.08E+01	8.19E+04	1.64E+04	No
111	HexachlorocyclcPentadiene			0	0	-	-	-	-	0	0	-	-	-	-	6.45E+02	8.84E+06	1.73E+06	No
112	Hexachloroethane			0	0	-	-	-	-	0	0	-	-	-	-	1.92E+01	2.57E+04	5.14E+03	No
113	Indeno(1, 2, 3-CK)Pyrene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.07E-02	8.10E+02	1.62E+02	No
114	Isophorone			0	0	-	-	-	-	0	0	-	-	-	-	5.61E+01	7.51E+06	1.50E+06	No
115	Naphthalene			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
116	Nitrobenzene			0	0	-	-	-	-	0	0	-	-	-	-	4.04E+02	5.41E+06	1.08E+06	No
117	N-Nitrosodi-N-Propylamine		YES	0	0	-	-	-	-	0	0	-	-	-	-	2.95E-01	2.24E+04	4.49E+03	No
118	N-Nitrosodimethylamine		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.76E+00	1.34E+05	2.68E+04	No
119	N-Nitrosodiphenylamine		YES	0	0	-	-	-	-	0	0	-	-	-	-	3.50E+03	2.66E+05	5.32E+04	No
120	PCB-1016		YES	0	0	-	-	-	-	0	0	0.014	187.498	37.500	No	3.74E-05	2.84E+00	5.69E-01	No
121	PCB-1221		YES	0	0	-	-	-	-	0	0	0.014	187.498	37.500	No	3.74E-05	2.84E+00	5.69E-01	No
122	PCB-1232		YES	0	0	-	-	-	-	0	0	0.014	187.498	37.500	No	3.74E-05	2.84E+00	5.69E-01	No
123	PCB-1242		YES	0	0	-	-	-	-	0	0	0.014	187.498	37.500	No	3.74E-05	2.84E+00	5.69E-01	No
124	PCB-1248		YES	0	0	-	-	-	-	0	0	0.014	187.498	37.500	No	3.74E-05	2.84E+00	5.69E-01	No
125	PCB-1254		YES	0	0	-	-	-	-	0	0	0.014	187.498	37.500	No	3.74E-05	2.84E+00	5.69E-01	No
126	PCB-1260		YES	0	0	-	-	-	-	0	0	0.014	187.498	37.500	No	3.74E-05	2.84E+00	5.69E-01	No
127	Phenanthrene			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
128	Pyrene			0	0	-	-	-	-	0	0	-	-	-	-	2.35E+03	3.12E+07	6.25E+06	No
129	1, 2, 4-Trichlorobenzene			0	0	-	-	-	-	0	0	-	-	-	-	4.03E+01	5.48E+05	1.10E+05	No

NPDES Individual Permit Application (Form 187) - Initial Issuance for Industrial Facilities

version 2.9

(Submission #: HQB-D5EG-DR3DB, version 2)

Details

Submission ID HQB-D5EG-DR3DB

Form Input

General Instructions

This form should be used to submit the required information for an Initial Issuance of an NPDES individual permit for Industrial Individual NPDES facilities.

Do NOT continue this form if you are applying for a Modification or Reissuance of an existing permit. If you have begun this form in error, please close this form and then delete the draft. If you need assistance to find the correct Mod/Reissue form, please contact your assigned permit contact.

Incomplete or incorrect answers or missing signatures will delay processing. Attach additional comments or information as needed. Commencement of activities applied for as detailed in this application are not authorized until permit coverage has been issued by the Department.

Please complete all required sections of the form.
For assistance, please click here to determine the permit staff responsible for the site or call (334) 271-7799

Processing Information

Form Submission Reason
New

Are you applying for a modification or reissuance of an EXISTING permit for industrial activity?
No

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):
ALG030042

Select all discharge types that are applicable for this site/facility:
Discharge of Process Water Only

Permittee Information

Permittee

Permittee Name
Yamaha Motor Corp., USA

Mailing Address

120 SPUR TRACK CIR

BRIDGEPORT, AL 35740-6620

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
Bill	Boehman

Title
Vice President / Marine Group

Organization Name
Yamaha Motor Corp., USA

Phone Type	Number	Extension
Business	770-420-6038	

Email
bill_boehman@yamaha-motor.com

Mailing Address

1270 CHASTAIN RD NW

KENNESAW, GA 30144-5586

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

Facility/Site Information

Facility/Site Name
Yamaha Marine Test Facility

Organization/Ownership Type
Corporation

Facility/Site Address or Location Description

120 Spur Track Circle

Bridgeport, AL 35740

Facility/Site County
Jackson

Detailed Directions to the Facility/Site
From I-24W, take Exit 152A, merge onto US-72W, and continue 5.2 miles. Take exit toward Bridgeport and continue 3.8 miles. Tuen left onto AL-277 S/US-72 BUS E and continue 1.7 miles. Turn left onto 7th Street, left onto Alabama Ave., left onto Moore Ave, right onto Bleeker Street, then continue straight onto Spur track Circle

Facility Map

Topo figure for EPA Form 1.pdf - 03/27/2025 07:45 AM

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

34.93432235243839,-85.69705455023194

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

3732-Boat Building and Repairing

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

336612-Boat Building

Facility/Site Contact

Prefix
Mr.

First Name	Last Name
Bill	Boehman

Title
Vice President / Marine Group

Organization Name
Yamaha Motor Corp., USA

Phone Type	Number	Extension
Business	7704206038	

Email
bill_boehman@yamaha-motor.com

Address

1270 CHASTAIN RD NW

KENNESAW, GA 30144-5586

DMR Contact(s) (1 of 1)

DMR Contact

Prefix
Mr.

First Name	Last Name
Travis	Watkins

Title
Testing Site Manager

Phone Type	Number	Extension
Mobile	321-506-0961	

Email
travis_watkins@yamaha-motor.com

Address

120 SPUR TRACK CIR

BRIDGEPORT, AL 35740-6620

Applicant Business Entity Information

Address of Incorporation

1270 Chastain Road NW, Kennesaw, GA 30144

Agent Designated by the Corporation for Purposes of Service

Name	Address
Bill Boehman	1270 Chastain Road NW, Kennesaw, GA 30144

Please provide all corporate officers

Name	Title	Address
N/A	n/a	n/a

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

Does the applicant applying for coverage have Subsidiary Corporations?
No

Enforcement History

Has the applicant been issued any Notices of Violation, Orders (Consent or Administrative/Unilateral), or Judicial Actions (Complaint, Settlement Agreement, Consent Decree, or Court Order) concerning water pollution or other permit violations within the State of Alabama in the past five years?
No

Business Activity

A facility with processes inclusive in the business areas shown below may be covered by Environmental Protection Agency's (EPA) categorical effluent guideline standards. These facilities are termed "categorical users". If unsure, please call the Industrial Section at (334) 271-7943 to discuss or use the link below to contact the Permit Engineer for the county the facility is/will be located in.
Industrial Section Assignment Map

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

Give a brief description of all operations at this facility including primary products or services:
This facility conducts research and development of marine engines

Water Supply

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

Please specify the City of the Municipal Water Utility:
Bridgeport

Name of Utility	Million Gallons per Day (MGD)
Bridgeport Utility Board	1M

Cooling Water Intake Structure Information

Does the provider of your source water operate a surface water intake?
No

Outfalls (1 of 1)

001

Attach Form 311, Form 312, or Form 313

Signed Form ADEM 311.pdf - 03/27/2025 04:54 PM
ADEM Form 311 Alternatives - Supporting Information.pdf - 03/27/2025 04:55 PM
Comment
NONE PROVIDED

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	N/A
Automatic Sampling Equipment	No

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

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

Please describe the equipment below:
N/A

Please attach the process schematic with sampling equipment locations.

Final Pool Water Flow Diagram.pdf - 03/27/2025 09:48 AM
Comment
No sampling equipment proposed

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:
pH Adjuster- chemicals: sulfuric acid or sodium hydroxide
Biocides- Disinfectant-chlorine or hydrogen peroxide. Antiseptic. Chemical: iodine solutions
Scale inhibitors-Phosphates will be used to prevent calcium carbonate buildup.
Corrosion inhibitors-Chemical: chromate or nitrites

Safety Data Sheets (SDS)

ADEM Form 187 Section C-4 Supporting Information.pdf - 03/27/2025 10:53 AM

Comment

NONE PROVIDED

Treatment

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

No

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:

Seasonal

Check all months that apply:

March
June
September
December

Comments:

The proposed NPDES discharge of one testing pool with an operating capacity of 212,000 gallons of water will be needed once every quarter for maintenance and cleaning and there will be two testing pools, resulting in the discharge of 212,000 gallons of waters to the river eight times per year. The testing pool will be designed to complete the discharge to the river over a 6-hour period.

Non-Discharged Wastes

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

No

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

No

EPA Application Forms

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

Form 1 - General Information Form required for all applications

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

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

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

Form 2F - Should be submitted for all discharges of storm water associated with an industrial activity.

The EPA application forms are found on the Department's website here.

EPA Form 1

EPA Form 1.pdf - 03/27/2025 09:39 AM
Topo figure for EPA Form 1.pdf - 03/27/2025 09:40 AM
SBEPMARKM0125031815010 - signed.pdf - 03/27/2025 09:40 AM
Signed - EPA Form 1.pdf - 06/25/2025 03:35 PM
Signed - EPA Form 2D.pdf - 06/25/2025 03:35 PM

Comment
NONE PROVIDED

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

EPA Form 2C for ADEM.pdf - 03/27/2025 09:43 AM
EPA Form 2C Section 4.2 and 10.2 Additional Supporting Information.pdf - 03/27/2025 04:57 PM

Comment
NONE PROVIDED

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

Application Preparer

Prefix
Ms.

First Name **Last Name**
Kristy Smedley

Title
NONE PROVIDED

Organization Name
Asa Engineering & Consulting, Inc.

Phone Type **Number** **Extension**
Mobile 4235950501

Email
ksmedley@asaengineeringinc.com

Address
201 CHEROKEE BLVD
CHATTANOOGA, TN 37405-3870

Revisions

Revision	Revision Date	Revision By
Revision 1	3/27/2025 7:33 AM	Kristy Smedley
Revision 2	6/25/2025 3:34 PM	Kristy Smedley

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 for a permit shall be signed by a responsible official, a request for variance from categorical pretreatment standards, and a category determination request shall be signed b 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 William Boehman on 07/17/2025 at 12:26 PM

Additional Supporting Information
EPA Form 2C

Section 4.2 The proposed NPDES discharge of one testing pool with an operating capacity of 212,000 gallons of water will be needed once every quarter for maintenance and cleaning and there will be two testing pools, resulting in the discharge of 212,000 gallons of waters to the river eight times per year. The testing pool will be designed to complete the discharge to the river over a 6-hour period. The maximum daily discharge in Section 4.2 is noted as 0.2MGD, however we wanted to clarify that this will occur only eight times per year.

Section 10.2 The analytical results reported in Section 7 are based on data provided by Yamaha Japan based on their testing pool operations in an effort to provide some level of baseline analytics to the current application. The Yamaha Bridgeport testing facility will be the first of its kind in the United States and as such, there are no applicable historical analytical data.

Supporting Information for ADEM FORM 311 – Alternatives Analysis

1-Land Application: Land Application is not an option because the process water will need to be discharged as quickly as possible to allow the refilling of the test pool for the continuation of testing. The only land available for land application is the area immediately north of the facility, and that area has previously been identified as an archaeological site and cannot be disturbed. Land application would require the installation of equipment for spraying, and the process of spraying would not allow the volume of process water to be discharged quickly enough. Land application would also require pretreatment and based on the limited land available for development due to the archaeological restrictions, sufficient area for the construction of a pretreatment system is not present.

2-Pretreament / Discharge to POTW: The Bridgeport Utility Board operates the sewage treatment facility that serves the subject property and vicinity. Their system is a lagoon system that has a permitted maximum of one million gallons per day. Based on our conversation with the Bridgeport Utility Board General Manager, accepting a discrete discharge (anticipated eight times per year) of several thousand gallons could potentially push their facility particularly if it occurred at a time when they were already close to their daily maximum limit. They do not want to push their system too much in an effort to avoid the risk of future non-compliance issues. If the discharge were sent to the POTW, the applicant's operations would have to be limited and monitored in a manner that could potentially prevent the desired operations of their facility (6-hour discharge of 212,000 gallons per day). Based on the discharge volume and frequency, the process wastewater discharge to the POTW is not considered feasible.

4-Reuse/Recycle: Recycling the process wastewater would require treatment and based on the limited land available for development due to the archaeological restrictions and floodplain extent, sufficient area for the construction of a treatment system is not present.

5-Process/Treatment Alternatives: Based on the limited land available for development due to the archaeological and floodplain restrictions, sufficient area for the construction of a treatment system is not present.

6-On-site/Sub-surface Disposal: Sub-surface disposal would require pretreatment and based on the limited land available for development due to the archaeological and floodplain restrictions, sufficient area for the construction of a pretreatment system is not present.

Attachment 1 to Supplementary Form
ADEM Form 311

Alternatives Analysis

Applicant/Project: Yamaha Motor Corp., USA

All new or expanded discharges (except discharges eligible for coverage under general permits) covered by the NPDES permitting program are subject to the provisions of ADEM's antidegradation policy. Applicants for such discharges to Tier 2 waters are required to demonstrate " . . . that the proposed discharge is necessary for important economic or social development." As a part of this demonstration, the applicant must complete an evaluation of the discharge alternatives listed below, including a calculation of the total annualized project costs for each technically feasible alternative (using ADEM Form 312 for public-sector projects and ADEM Form 313 for private-sector projects). Alternatives with total annualized project costs that are less than 110% of the total annualized project costs for the Tier 2 discharge proposal are considered viable alternatives.

Alternative	Viable	Non-Viable	Comment
1 Land Application		X	See additional information iattached
2 Pretreatment/Discharge to POTW		X	See additional information attached
3 Relocation of Discharge		X	There are no opportunities onsite to relocate the discharge.
4 Reuse/Recycle		X	See additional information attached
5 Process/Treatment Alternatives		X	See additional information attached
6 On-site/Sub-surface Disposal		X	See additional information attached
(other project-specific alternatives considered by the applicant; attach additional sheets if necessary)			
7			
8			
9			

Pursuant to ADEM Administrative Code Rule 335-6-3-.04, I certify on behalf of the applicant that I have completed an evaluation of the discharge alternatives identified above, and reached the conclusions indicated.

Signature: _____ *(Professional Engineer)*

Date: 3/27/2025

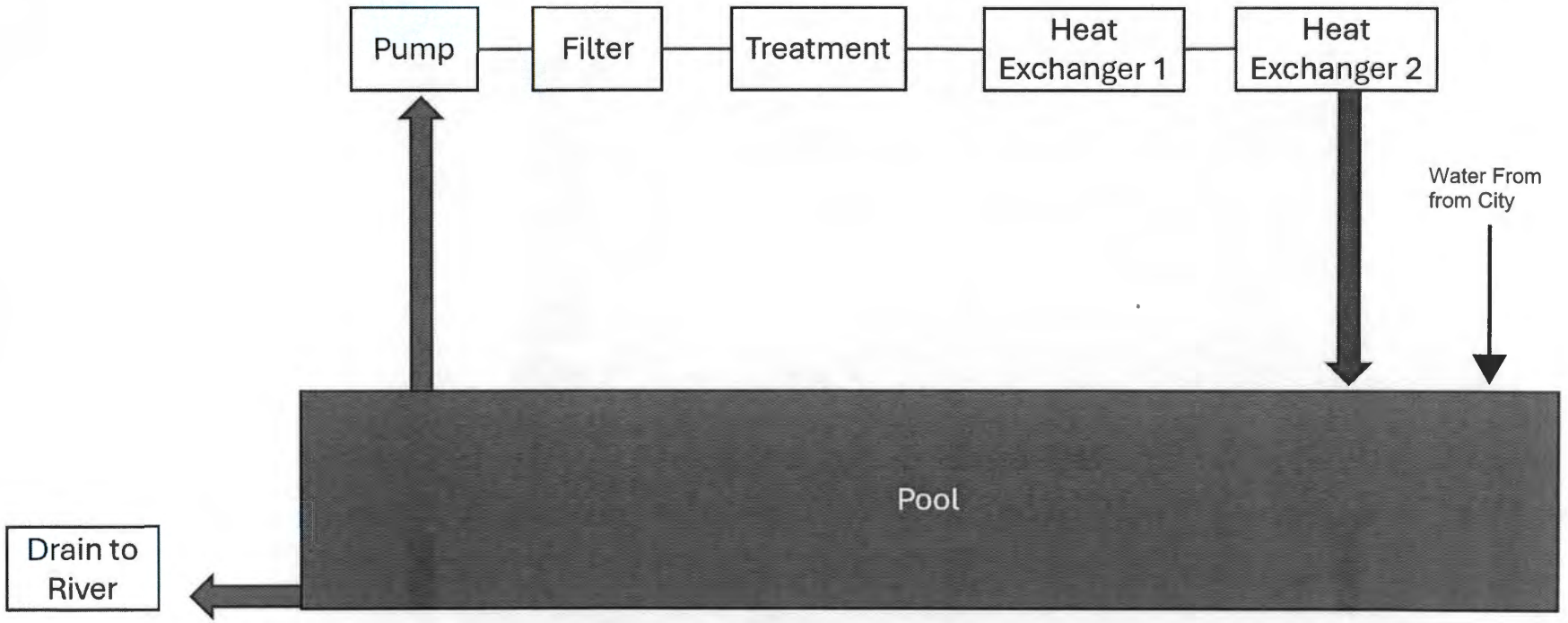
(Supporting documentation to be attached, referenced, or otherwise handled as appropriate.)

Additional Supporting Information
ADEM Form 187

Section C-4 – List the trade name and chemical composition of all biocides and corrosion inhibitors

While the applicant has not finalized this aspect of their new process, the following general treatments will be a part of the system and new discharge. Additional details can be provided once final determinations have been made.

- Trade name: pH Adjuster
  - chemicals: sulfuric acid or sodium hydroxide
- Biocides:
  - These chemicals control microbial growth, algae, fungi, etc. that promote fouling
  - Trade name: Disinfectant. Chemical: chlorine or hydrogen peroxide
  - Trade name: Antiseptic. Chemical: iodine solutions
- Trade name: Scale inhibitors
  - These chemicals prevent the buildup of calcium carbonate and is a function of the local water
  - Chemical: phosphates
- Trade name: corrosion inhibitors
  - Chemical: chromate or nitrites



ACS
ACS Headquarters & Manufacturing
Flad
Flad & Associates, Inc
644 Science Drive
Madison, WI 53711
Tel 608-238-2661
Fax 608-238-8727
Flad.com
ASA
MA&A
March Adams & Associates

Bridgeport Tech Center

YAMAHA

120 SPUR TRACK CIR
BRIDGEPORT, AL 35740

DESIGN

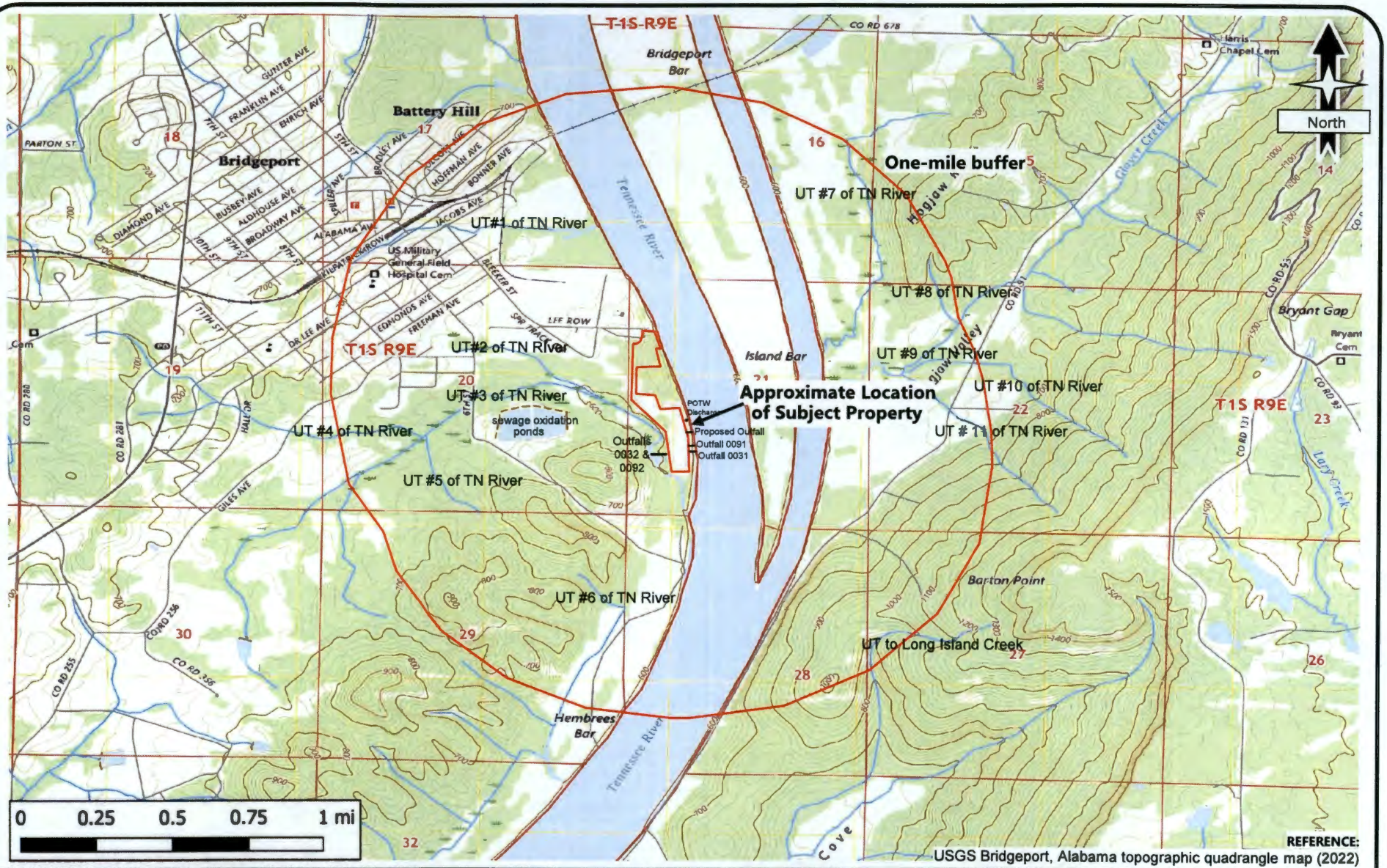
10/19/21

28206 AD

AD

POOL CONDITIONING FLOW DIAGRAM

MI-210



ENGINEERING & CONSULTING, INC.

Topographic Map Exhibit

Yamaha Testing Facility
Bridgeport, Jackson County, Alabama

SCALE:	FIGURE NO.
AS SHOWN	1
DATE: 2/27/2025	
PROJECT NUMBER 24-0201	

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

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

Yamaha Motor Corp., USA

2.2 EPA Identification Number

n/a

2.3 Facility Contact

Name (first and last)	Title	Phone number
Bill Boehman	Vice President / Marine Group	(770)4206038

Email address

bill_boehman@yamaha-motor.com

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

Name, Mailing Address, and Location Continued

2.4	**Facility Mailing Address**		
	Street or P.O. box 1270 Chastain Rd NW		
	City or town Kennesaw	State GA	ZIP code 30144
2.5	**Facility Location**		
	Street, route number, or other specific identifier 120 Spur Track Cir		
	County name Jackson	County code (if known) 39	
	City or town Bridgeport	State AL	ZIP code 35740

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

SIC and NAICS Codes

3.1	**SIC Code(s)**	**Description** (optional)
	3732	Boat Building and Repairing
3.2	**NAICS Code(s)**	**Description** (optional)
	336612	Boat Building

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

Operator Information

4.1	**Name of Operator**
	Yamaha Motor Corp., USA
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**
	7704206038

Operator Information Continued

4.5 **Operator Address**

Street or P.O. Box
1270 Chastain Rd NW

City or town	State	ZIP code
Kennesaw	GA	30144

Email address of operator
bill_boehman@yamaha-motor.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) ALG030042	☐ 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.

Research and development of marine engines.

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.)

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

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
Bill Boehman	Vice President
Signature	**Date signed**
Bill Boehman	06/20/2025

Signature Needed - EPA Form 1

Final Audit Report 2025-06-20

Created:	2025-06-20
By:	David Bloome (david_bloome@yamaha-motor.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAA7CZyZbg72kXPKZUfEW3YN0N3lMaLKmJp

"Signature Needed - EPA Form 1" History

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2025-06-20 - 4:55:15 PM GMT

Email viewed by Bill Boehman (bill_boehman@yamaha-motor.com)
2025-06-20 - 7:04:31 PM GMT

Document e-signed by Bill Boehman (bill_boehman@yamaha-motor.com)
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Agreement completed.
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EPA Identification Number	NPDES Permit Number	Facility Name	Form Approved 03/05/19 OMB No. 2040-0004

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

Checklist and Certification Statement

11.1 In Column 1 below, mark the sections of Form 1 that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing to alert the permitting authority. Note that not all applicants are required to provide attachments.

Column 1	Column 2
☑ Section 1: Activities Requiring an NPDES Permit	☐ w/ attachments
☑ Section 2: Name, Mailing Address, and Location	☐ w/ attachments
☑ Section 3: SIC Codes	☐ w/ attachments
☑ Section 4: Operator Information	☐ w/ attachments
☑ Section 5: Indian Land	☐ w/ attachments
☑ Section 6: Existing Environmental Permits	☐ w/ attachments
☑ Section 7: Map	☑ w/ topographic map ☐ w/ additional attachments
☑ Section 8: Nature of Business	☐ w/ attachments
☐ Section 9: Cooling Water Intake Structures	☐ w/ attachments
☐ Section 10: Variance Requests	☐ w/ attachments
☑ Section 11: Checklist and Certification Statement	☐ w/ attachments

11.2 **Certification Statement**

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

Name (print or type first and last name)	Official title
Bill Boehman	Vice President
Signature	**Date signed**
Bill Boehman	20/03/25

SBEPMARKM0125031815010

Final Audit Report 2025-03-20

Created:	2025-03-18
By:	Tiffany King (tiffany_king@yamaha-motor.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAA5q2C4Spo688hLu_1Tf1GSkC-37uwGvBB

"SBEPMARKM0125031815010" History

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2025-03-18 - 9:05:53 PM GMT

Email viewed by Bill Boehman (bill_boehman@yamaha-motor.com)
2025-03-19 - 12:17:25 PM GMT

Document e-signed by Bill Boehman (bill_boehman@yamaha-motor.com)
Signature Date: 2025-03-20 - 5:09:56 PM GMT - Time Source: server

Agreement completed.
2025-03-20 - 5:09:56 PM GMT

EPA Identification Number	Facility Name

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

Form 2D NPDES

EPA

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

NEW MANUFACTURING, COMMERCIAL, MINING, AND SILVICULTURAL OPERATIONS THAT HAVE NOT YET COMMENCED DISCHARGE OF PROCESS WASTEWATER

SECTION 1. EXPECTED OUTFALL LOCATION (40 CFR 122.21(K)(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
TBD	Tennessee River	34.934769	-85.695867
n/a	n/a	n/a	n/a
n/a	n/a	n/a	n/a

SECTION 2. EXPECTED DISCHARGE DATE (40 CFR 122.21(K)(2))

Expected Discharge Date

2.1

Month	Day	Year
January	18th	2027

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

Average Flows and Treatment

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

****Outfall Number**** TBD

Operations Contributing to Flow

Operation	Average Flow
Testing Pool	0.2 mgd
n/a	n/a mgd
n/a	n/a mgd
n/a	n/a mgd
n/a	n/a mgd

Treatment Units

Description (include size, flow rate through each treatment unit, retention time, etc.)	Code from Exhibit 2D–1	Final Disposal of Solid or Liquid Wastes Other Than by Discharge
n/a		

Average Flows and Treatment Continued

3.1 Cont.

Outfall Number TBD

Operations Contributing to Flow

Operation	Average Flow
n/a	mgd
n/a	mgd
n/a	mgd
n/a	mgd
n/a	mgd

Treatment Units

Description (include size, flow rate through each treatment unit, retention time, etc.)	Code from Exhibit 2D–1	Final Disposal of Solid or Liquid Wastes Other Than by Discharge
n/a		
n/a		
n/a		
n/a		
n/a		
n/a		

Outfall Number _____

Operations Contributing to Flow

Operation	Average Flow
n/a	mgd
n/a	mgd
n/a	mgd
n/a	mgd
n/a	mgd

Treatment Units

Description (include size, flow rate through each treatment unit, retention time, etc.)	Code from Exhibit 2D–1	Final Disposal of Solid or Liquid Wastes Other Than by Discharge
n/a		
n/a		
n/a		
n/a		
n/a		

SECTION 4. LINE DRAWING (40 CFR 122.21(K)(3)(II))

Line Drawing

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

☑ Yes

SECTION 5. INTERMITTENT OR SEASONAL FLOWS (40 CFR 122.21(K)(3)(III))

Intermittent or Seasonal Flows

5.1 Except for stormwater runoff, leaks, or spills, are any expected discharges described in Sections 1 and 3 intermittent or seasonal?

☑ Yes ☐ No ➔ SKIP to Section 6.

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

Outfall Number	Operations (list)	Frequency		Rate and Volume		Duration
		Average Days/Week	Average Months/Year	Maximum Daily Discharge	Maximum Total Volume	
TBD	Testing Pool	days/week	1.5 months/year	0.2 mgd	gallons	1 days
	(see attachment)	days/week	months/year	mgd	gallons	days
		days/week	months/year	mgd	gallons	days

Outfall Number	Operations (list)	Frequency		Rate and Volume		Duration
		Average Days/Week	Average Months/Year	Maximum Daily Discharge	Maximum Total Volume	
n/a	n/a	days/week	months/year	mgd	gallons	days
	n/a	days/week	months/year	mgd	gallons	days
	n/a	days/week	months/year	mgd	gallons	days

Outfall Number	Operations (list)	Frequency		Rate and Volume		Duration
		Average Days/Week	Average Months/Year	Maximum Daily Discharge	Maximum Total Volume	
n/a	n/a	days/week	months/year	mgd	gallons	days
	n/a	days/week	months/year	mgd	gallons	days
	n/a	days/week	months/year	mgd	gallons	days

SECTION 6. PRODUCTION (40 CFR 122.21(K)(4))

Production

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

☐ Yes ☑ No ➔ SKIP to Section 7.

6.2 Provide the following information on applicable ELGs.

ELG Category	ELG Subcategory	Regulatory Citation

Production Continued

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

☐ Yes ☐ No ➔ SKIP to Section 7.

6.4 Provide an expected measure of average daily production expressed in terms and units of applicable ELGs.

Expected Actual Average Daily Production for First Three Years

Outfall Number	Year	Operation, Product, or Material	Quantity per Day (note basis if applicable)	Unit of Measure
	Year 1			
	Year 2			
	Year 3			
	Year 1			
	Year 2			
	Year 3			
	Year 1			
	Year 2			
	Year 3			

SECTION 7. EFFLUENT CHARACTERISTICS (40 CFR 122.21(K)(5))

Effluent Characteristics

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

Table A. Conventional and Non-Conventional Parameters

7.1 Are you requesting a waiver from your NPDES permitting authority for any Table A parameters for any of your outfalls?

☐ Yes ☑ No ➔ SKIP to Item 7.3.

7.2 If yes, indicate the applicable outfalls below or check the appropriate box to indicate that you are requesting a waiver for all outfalls. Attach waiver request and other required information to the application.

Outfall number _____ Outfall number _____ Outfall number _____

☐ I am requesting a waiver for some pollutants at all outfalls.

☐ I am requesting a waiver for all pollutants at all outfalls ➔ SKIP to Item 7.4.

7.3 Have you have provided estimates or actual data for all Table A parameters for each of your outfalls for which a waiver has not been requested and attached the results to this application package?

☑ Yes

Table B. Certain Conventional and Non-Conventional Pollutants

7.4 Have you checked "Believed Present" for all pollutants listed in Table B that are limited directly or indirectly by an applicable ELG?

☐ Yes ☑ Not applicable

7.5 Have you checked "Believed Present" or "Believed Absent" for all remaining pollutants listed in Table B?

☑ Yes

Effluent Characteristics Continued

7.6	Have you provided estimated data for those Table B pollutants for which you have indicated are "Believed Present" in your discharge? ☑ Yes
Table C. Toxic Metals, Total Cyanide, and Total Phenols	
7.7	Have you indicated whether pollutants are "Believed Present" or "Believed Absent" for all pollutants listed in Table C for all outfalls? ☑ Yes
7.8	Have you completed Table C by providing estimated data for pollutants you indicated are "Believed Present," including the source of the information, for each applicable outfall? ☑ Yes
Table D. Organic Toxic Pollutants (GC/MS Fractions)	
7.9	Do you qualify for a small business exemption under the criteria specified in the Instructions? ☐ Yes ➔ Note that you qualify at the top of Table D, then SKIP to Item 7.12. ☑ No
7.10	Have you indicated whether pollutants are "Believed Present" or "Believed Absent" for all pollutants listed in Table D for all outfalls? ☑ Yes
7.11	Have you completed Table D by providing estimated data for pollutants you indicated are "Believed Present," including the source of the information, for each applicable outfall? ☑ Yes
2,3,7,8-Tetrachlorodibenzo-p-Dioxin (TCDD)	
7.12	Does the facility use or manufacture one or more of the 2,3,7,8-TCDD congeners listed in the Instructions, or do you know or have reason to believe that TCDD is or may be present in effluent from any of your outfalls? ☐ Yes ☑ No
Table E. Certain Hazardous Substances and Asbestos	
7.13	Have you indicated whether pollutants are "Believed Present" or "Believed Absent" for all pollutants listed in Table E for all outfalls? ☑ Yes
7.14	Have you completed Table E by reporting the reason the pollutants are expected to be present and available quantitative data for pollutants you indicated are "Believed Present" for each applicable outfall? ☑ Yes
Intake Credits, Tables A through E	
7.15	Are you applying for net credits for the presence of any of the pollutants in Tables A through E for any of your outfalls? ☐ Yes ➔ Consult with your NPDES permitting authority. ☑ No

SECTION 8. ENGINEERING REPORT (40 CFR 122.21(K)(6))

Engineering Report

8.1	Do you have any technical evaluations of your wastewater treatment, including engineering reports or pilot plant studies? ☐ Yes ☑ No ➔ SKIP to Item 8.3.
8.2	Have you provided the technical evaluation and all related documents to this application package? ☐ Yes ☐ No
8.3	Are you aware of any existing plant(s) whose production processes, wastewater constituents, or wastewater treatment resemble those at your facility? ☑ Yes ☐ No ➔ SKIP to Section 9.

Engineering Report Continued

8.4 Provide the names and locations of the similar plants.

Name of Similar Plant	Location of Similar Plant
Yamaha Motor Building 28	2500 Shingai, Iwata City, Shizuoka Prefecture 438-8501, Japan

SECTION 9. OTHER INFORMATION (40 CFR 122.21(K)(7))

Other Information

9.1 Have you attached any optional information that you would like considered as part of the application review process (i.e., material beyond that which you have already noted in the application as being attached)?

☐ Yes ☑ No ➔ SKIP to Section 10.

9.2 List the additional items and briefly note why you have included them.

1.
2.
3.
4.
5.

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 2D 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 tables, or provide attachments.

Column 1	Column 2
☑ Section 1: Expected Outfall Location	☐ w/ attachments (e.g., responses for additional outfalls)
☑ Section 2: Expected Discharge Date	☐ w/ attachments
☑ Section 3: Average Flows and Treatment	☐ w/ attachments
☑ Section 4: Line Drawing	☑ w/ line drawing ☐ w/ additional attachments
☑ Section 5: Intermittent or Seasonal Flows	☐ w/ attachments
☐ Section 6: Production	☐ w/ attachments
☑ Section 7: Effluent Characteristics	☐ w/ Table A waiver request or approval ☐ Table A ☐ Table B ☐ Table C ☐ Table D ☐ Table E ☐ w/ other attachments
☑ Section 8: Engineering Report	☐ w/ technical evaluations and related attachments
☐ Section 9: Other Information	☐ w/ optional information
☑ Section 10: Checklist and Certification Statement	☐ w/ attachments

Checklist and Certification Statement Continued

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
Signature *Bill Boehman*	**Date signed** 06/20/2025

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EPA Identification Number	Facility Name	Outfall Number

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

TABLE A. CONVENTIONAL AND NON CONVENTIONAL PARAMETER ESTIMATES (40 CFR 122.21(K)(5)(I))[1]

	Pollutant	Waiver Requested (if applicable)	Units		Effluent Data: Maximum Daily Discharge (required)	Effluent Data: Average Daily Discharge (if available)	Effluent Data: Source of Information (use codes in instructions)	Intake Water: Believed Present? (check only one response per parameter)	
☐	Check here if you have applied to your NPDES authority for a waiver for *all* of the pollutants listed on this table for the noted outfall.								
1.	Biochemical oxygen demand (BOD_5)	☐	Concentration	mg/L	18.85		4	☑ Yes	☐ No
			Mass				4		
2.	Chemical oxygen demand (COD)	☐	Concentration	mg/L	45.24		4	☑ Yes	☐ No
			Mass				4		
3.	Total organic carbon (TOC)	☐	Concentration	mg/L	5.28		4	☑ Yes	☐ No
			Mass				4		
4.	Total suspended solids (TSS)	☐	Concentration	mg/L	1.51		4	☑ Yes	☐ No
			Mass				4		
5.	Ammonia (as N)	☐	Concentration				4	☑ Yes	☐ No
			Mass				4		
6.	Flow	☐	Rate		212,000		4	☑ Yes	☐ No
7.	Temperature (winter)	☐	°C	°C	35		4	☑ Yes	☐ No
	Temperature (summer)	☐	°C	°C	15.55		4		
8.	pH (minimum)	☐	Standard units	s.u.	5		4	☑ Yes	☐ No
	pH (maximum)	☐	Standard units	s.u.	7		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	Facility Name	Outfall Number

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TABLE B. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(K)(5)(II))[1]

	Pollutant	Presence or Absence (check one)		Estimated Data for Pollutants Expected to Be Present or Limited by an ELG (provide both concentration and mass estimates for each pollutant)					
				Effluent					Intake Water
		Believed Present	Believed Absent	Units		Maximum Daily Discharge (required)	Average Daily Discharge (if available)	Source of Information (use codes in instructions)	Believed Present? (check only one response per item)
☐	Check (✓) here if you believe all pollutants listed to be absent from the discharge. You need not complete Table B for the noted outfall *unless* you have quantitative data available.								
1.	Bromide (24959-67-9)	☐	☑	Concentration	mg/L	2		3	☐ Yes ☐ No
				Mass					
2.	Chlorine, total residual	☐	☑	Concentration	mg/L	Less than 0.05		3	☐ Yes ☐ No
				Mass					
3.	Color	☐	☑	Concentration	mg/L	Less than 5		3	☐ Yes ☐ No
				Mass					
4.	Fecal coliform	☐	☑	Concentration	mg/L	-		4	☐ Yes ☐ No
				Mass					
5.	Fluoride (16984-48-8)	☐	☑	Concentration	mg/L	Less than 0.05		3	☐ Yes ☐ No
				Mass					
6.	Nitrate-nitrite	☑	☐	Concentration	mg/L	6		3	☐ Yes ☐ No
				Mass					
7.	Nitrogen, total organic (as N)	☑	☐	Concentration	mg/L	1.7		3	☐ Yes ☐ No
				Mass					
8.	Oil and grease	☐	☑	Concentration	mg/L	Less than 5		3	☐ Yes ☐ No
				Mass					
9.	Phosphorus (as P), total (7723-14-0)	☑	☐	Concentration	mg/L	0.04		3	☐ Yes ☐ No
				Mass					
10.	Sulfate (as SO_4) (14808-79-8)	☑	☐	Concentration	mg/L	18		3	☐ Yes ☐ No
				Mass					
11.	Sulfide (as S)	☐	☑	Concentration	mg/L	Less than 0.1		3	☐ Yes ☐ No
				Mass					

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TABLE B. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(K)(5)(II))[1]

Pollutant		Presence or Absence (check one)		Estimated Data for Pollutants Expected to Be Present or Limited by an ELG (provide both concentration and mass estimates for each pollutant)					
				Effluent					Intake Water
		Believed Present	Believed Absent	Units		Maximum Daily Discharge (required)	Average Daily Discharge (if available)	Source of Information (use codes in instructions)	Believed Present? (check only one response per item)
12.	Sulfite (as SO_3) (14265-45-3)	☐	☐	Concentration	mg/L	-		3	☐ Yes ☐ No
				Mass					
13.	Surfactants	☐	☑	Concentration	mg/L	0.04		3	☐ Yes ☐ No
				Mass					
14.	Aluminum, total (7429-90-5)	☐	☑	Concentration	mg/L	Less than 2		3	☐ Yes ☐ No
				Mass					
15.	Barium, total (7440-39-3)	☐	☑	Concentration	mg/L	Less than 0.5		3	☐ Yes ☐ No
				Mass					
16.	Boron, total (7440-42-8)	☐	☑	Concentration	mg/L	Less than 0.1		3	☐ Yes ☐ No
				Mass					
17.	Cobalt, total (7440-48-4)	☐	☑	Concentration	mg/L	Less than 0.1		3	☐ Yes ☐ No
				Mass					
18.	Iron, total (7439-89-6)	☑	☐	Concentration	mg/L	0.2		3	☐ Yes ☐ No
				Mass					
19.	Magnesium, total (7439-95-4)	☑	☐	Concentration	mg/L	6.4		3	☐ Yes ☐ No
				Mass					
20.	Molybdenum, total (7439-98-7)	☑	☐	Concentration	mg/L	0.1		3	☐ Yes ☐ No
				Mass					
21.	Manganese, total (7439-96-5)	☐	☑	Concentration	mg/L	Less than 0.1		3	☐ Yes ☐ No
				Mass					
22.	Tin, total (7440-31-5)	☐	☑	Concentration	mg/L	Less than 0.1		3	☐ Yes ☐ No
				Mass					

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TABLE B. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.21(K)(5)(II))[1]

Pollutant		Presence or Absence (check one)		Estimated Data for Pollutants Expected to Be Present or Limited by an ELG (provide both concentration and mass estimates for each pollutant)					
				Effluent					Intake Water
		Believed Present	Believed Absent	Units		Maximum Daily Discharge (required)	Average Daily Discharge (if available)	Source of Information (use codes in instructions)	Believed Present? (check only one response per item)
23.	Titanium, total (7440-32-6)	☐	☑	Concentration	mg/L	Less than 0.1		3	☐ Yes ☐ No
				Mass					
24.	Radioactivity								
24.1	Alpha, total	☐	☑	Concentration				4	☐ Yes ☐ No
				Mass					
24.2	Beta, total	☐	☑	Concentration				4	☐ Yes ☐ No
				Mass					
24.3.	Radium, total	☐	☑	Concentration				4	☐ Yes ☐ No
				Mass					
24.4	Radium 226, total	☐	☑	Concentration				4	☐ Yes ☐ No
				Mass					

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

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EPA Identification Number	Facility Name	Outfall Number

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TABLE C. TOXIC METALS, TOTAL CYANIDE, AND TOTAL PHENOLS (40 CFR 122.21(K)(5)(III)(A))[1]

	Pollutant (CAS Number, if available)	Presence or Absence (check one)		Estimated Data for Pollutants Expected to Be Present in Discharge (Provide both concentration and mass estimates for each pollutant.)						
				Effluent					Intake Water	
		Believed Present	Believed Absent	Units		Maximum Daily Discharge (required)	Average Daily Discharge (if available)	Source of Information (Use codes in Instructions.)	Believed Present? (Check only one response per pollutant.)	
☐	Check (✓) here if you believe all pollutants listed to be absent from the discharge. You need not complete Table C for the noted outfall *unless* you have quantitative data available.									
1.	Antimony, Total (7440-36-0)	☐	☑	Concentration	mg/L	< 0.01		3	☐ Yes	☐ No
				Mass						
2.	Arsenic, Total (7440-38-2)	☐	☑	Concentration	mg/L	< 0.01		3	☐ Yes	☐ No
				Mass						
3.	Beryllium, Total (7440-41-7)	☐	☑	Concentration	mg/L	< 0.1		3	☐ Yes	☐ No
				Mass						
4.	Cadmium, Total (7440-43-9)	☐	☑	Concentration	mg/L	< 0.01		3	☐ Yes	☐ No
				Mass						
5.	Chromium, Total (7440-47-3)	☐	☑	Concentration	mg/L	< 0.1		3	☐ Yes	☐ No
				Mass						
6.	Copper, Total (7440-50-8)	☐	☑	Concentration	mg/L	< 0.1		3	☐ Yes	☐ No
				Mass						
7.	Lead, Total (7439-92-1)	☐	☑	Concentration	mg/L	< 0.01		3	☐ Yes	☐ No
				Mass						
8.	Mercury, Total (7439-97-6)	☐	☑	Concentration	mg/L	< 0.0005		3	☐ Yes	☐ No
				Mass						
9.	Nickel, Total (7440-02-0)	☐	☑	Concentration	mg/L	< 0.1		3	☐ Yes	☐ No
				Mass						
10.	Selenium, Total (7782-49-2)	☐	☑	Concentration	mg/L	< 0.01		3	☐ Yes	☐ No
				Mass						
11.	Silver, Total (7440-22-4)	☐	☑	Concentration	mg/L	< 0.5		3	☐ Yes	☐ No
				Mass						
12.	Thallium, Total (7440-28-0)	☐	☑	Concentration	mg/L	< 0.1		3	☐ Yes	☐ No
				Mass						
13.	Zinc, Total (7440-66-6)	☑	☐	Concentration	mg/L	0.3		3	☐ Yes	☐ No
				Mass						
14.	Cyanide, Total (57-12-5)	☐	☑	Concentration	mg/L	< 0.1		3	☐ Yes	☐ No
				Mass						
15.	Phenols, Total	☐	☑	Concentration	mg/L	< 0.1		3	☐ Yes	☐ No
				Mass						

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

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TABLE D. ORGANIC TOXIC POLLUTANTS (GAS CHROMATOGRAPHY/MASS SPECTROMETRY OR GC/MS FRACTIONS) (40 CFR 122.21(K)(5)(III)(B))[1]

Pollutant (CAS Number, if available)		Presence or Absence (check one)		Estimated Data for Pollutants Expected to Be Present in Discharge (provide both concentration and mass estimates for each pollutant)					
						Effluent			Intake Water
		Believed Present	Believed Absent	Units		Maximum Daily Discharge	Average Daily Discharge	Source of Information (use codes in instructions)	Believed Present? (check only one response per pollutant)
☐	Check here if all pollutants listed in Table D are expected to be absent from your facility's discharge.								
☐	Check here if the facility believes it is exempt from Table D reporting requirements because it is a qualified small business. See the instructions for exemption criteria and for a list of materials you must attach to the application.								
Note: If you check either of the above boxes, you do not need to complete Table D for the noted outfall *unless* you have quantitative data available.									
1. Organic Toxic Pollutants (GC/MS Fraction—Volatile Compounds)									
1.1	Acrolein (107-02-8)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
1.2	Acrylonitrile (107-13-1)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
1.3	Benzene (71-43-2)	☐	☑	Concentration	mg/L	< 0.001		3	☐ Yes ☐ No
				Mass					
1.4	Bromoform (75-25-2)	☐	☑	Concentration	mg/L	< 0.009		3	☐ Yes ☐ No
				Mass					
1.5	Carbon tetrachloride (56-23-5)	☐	☑	Concentration	mg/L	< 0.0002		3	☐ Yes ☐ No
				Mass					
1.6	Chlorobenzene (108-90-7)	☐	☑	Concentration	mg/L	< 0.0002		3	☐ Yes ☐ No
				Mass					
1.7	Chlorodibromomethane (124-48-1)	☐	☑	Concentration	mg/L	< 0.01		3	☐ Yes ☐ No
				Mass					
1.8	Chloroethane (75-00-3)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
1.9	2-chloroethylvinyl ether (110-75-8)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
1.10	Chloroform (67-66-3)	☐	☑	Concentration	mg/L	< 0.006		3	☐ Yes ☐ No
				Mass					
1.11	Dichlorobromomethane (75-27-4)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					

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TABLE D. ORGANIC TOXIC POLLUTANTS (GAS CHROMATOGRAPHY/MASS SPECTROMETRY OR GC/MS FRACTIONS) (40 CFR 122.21(K)(5)(III)(B))[1]

Pollutant (CAS Number, if available)		Presence or Absence (check one)		Estimated Data for Pollutants Expected to Be Present in Discharge (provide both concentration and mass estimates for each pollutant)						
						Effluent			Intake Water	
		Believed Present	Believed Absent	Units		Maximum Daily Discharge	Average Daily Discharge	Source of Information (use codes in instructions)	Believed Present? (check only one response per pollutant)	
1.12	1,1-dichloroethane (75-34-3)	☐	☑	Concentration	mg/L			4	☐ Yes	☐ No
				Mass						
1.13	1,2-dichloroethane (107-06-2)	☐	☑	Concentration	mg/L	< 0.0004		3	☐ Yes	☐ No
				Mass						
1.14	1,1-dichloroethylene (75-35-4)	☐	☑	Concentration	mg/L	< 0.002		3	☐ Yes	☐ No
				Mass						
1.15	1,2-dichloropropane (78-87-5)	☐	☑	Concentration	mg/L			4	☐ Yes	☐ No
				Mass						
1.16	1,3-dichloropropylene (542-75-6)	☐	☑	Concentration	mg/L	< 0.0002		3	☐ Yes	☐ No
				Mass						
1.17	Ethylbenzene (100-41-4)	☐	☑	Concentration	mg/L	< 0.0002		3	☐ Yes	☐ No
				Mass						
1.18	Methyl bromide (74-83-9)	☐	☑	Concentration	mg/L			4	☐ Yes	☐ No
				Mass						
1.19	Methyl chloride (74-87-3)	☐	☑	Concentration	mg/L			4	☐ Yes	☐ No
				Mass						
1.20	Methylene chloride (75-09-2)	☐	☑	Concentration	mg/L			4	☐ Yes	☐ No
				Mass						
1.21	1,1,2,2-tetrachloroethane (79-34-5)	☐	☑	Concentration	mg/L			4	☐ Yes	☐ No
				Mass						
1.22	Tetrachloroethylene (127-18-4)	☐	☑	Concentration	mg/L	< 0.0005		3	☐ Yes	☐ No
				Mass						
1.23	Toluene (108-88-3)	☐	☑	Concentration	mg/L	< 0.06		3	☐ Yes	☐ No
				Mass						
1.24	1,2-trans-dichloroethylene (156-60-5)	☐	☑	Concentration	mg/L			4	☐ Yes	☐ No
				Mass						

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TABLE D. ORGANIC TOXIC POLLUTANTS (GAS CHROMATOGRAPHY/MASS SPECTROMETRY OR GC/MS FRACTIONS) (40 CFR 122.21(K)(5)(III)(B))[1]

Pollutant (CAS Number, if available)		Presence or Absence (check one)		Estimated Data for Pollutants Expected to Be Present in Discharge (provide both concentration and mass estimates for each pollutant)					
						Effluent			Intake Water
		Believed Present	Believed Absent	Units		Maximum Daily Discharge	Average Daily Discharge	Source of Information (use codes in instructions)	Believed Present? (check only one response per pollutant)
1.25	1,1,1-trichloroethane (71-55-6)	☐	☑	Concentration	mg/L	< 0.0005		3	☐ Yes ☐ No
				Mass					
1.26	1,1,2-trichloroethane (79-00-5)	☐	☑	Concentration	mg/L	0.0006		3	☐ Yes ☐ No
				Mass					
1.27	Trichloroethylene (79-01-6)	☐	☑	Concentration	mg/L	0.002		3	☐ Yes ☐ No
				Mass					
1.28	Vinyl chloride (75-01-4)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
2. Organic Toxic Pollutants (GC/MS Fraction—Acid Compounds)									
2.1	2-chlorophenol (95-57-8)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
2.2	2,4-dichlorophenol (120-83-2)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
2.3	2,4-dimethylphenol (105-67-9)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
2.4	4,6-dinitro-o-cresol (534-52-1)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
2.5	2,4-dinitrophenol (51-28-5)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
2.6	2-nitrophenol (88-75-5)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
2.7	4-nitrophenol (100-02-7)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
2.8	p-chloro-m-cresol (59-50-7)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
2.9	Pentachlorophenol (87-86-5)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					

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TABLE D. ORGANIC TOXIC POLLUTANTS (GAS CHROMATOGRAPHY/MASS SPECTROMETRY OR GC/MS FRACTIONS) (40 CFR 122.21(K)(5)(III)(B))[1]

Pollutant (CAS Number, if available)		Presence or Absence (check one)		Estimated Data for Pollutants Expected to Be Present in Discharge (provide both concentration and mass estimates for each pollutant)					
						Effluent			Intake Water
		Believed Present	Believed Absent	Units		Maximum Daily Discharge	Average Daily Discharge	Source of Information (use codes in instructions)	Believed Present? (check only one response per pollutant)
2.10	Phenol (108-95-2)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
2.11	2,4,6-trichlorophenol (88-05-2)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
3. Organic Toxic Pollutants (GC/MS Fraction—Base /Neutral Compounds)									
3.1	Acenaphthene (83-32-9)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
3.2	Acenaphthylene (208-96-8)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
3.3	Anthracene (120-12-7)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
3.4	Benzidine (92-87-5)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
3.5	Benzo (a) anthracene (56-55-3)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
3.6	Benzo (a) pyrene (50-32-8)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
3.7	3,4-benzofluoranthene (205-99-2)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
3.8	Benzo (ghi) perylene (191-24-2)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
3.9	Benzo (k) fluoranthene (207-08-9)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
3.10	Bis (2-chloroethoxy) methane (111-91-1)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
3.11	Bis (2-chloroethyl) ether (111-44-4)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					

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Pollutant (CAS Number, if available)		Presence or Absence (check one)		Estimated Data for Pollutants Expected to Be Present in Discharge (provide both concentration and mass estimates for each pollutant)					
						Effluent			Intake Water
		Believed Present	Believed Absent	Units		Maximum Daily Discharge	Average Daily Discharge	Source of Information (use codes in instructions)	Believed Present? (check only one response per pollutant)
3.12	Bis (2-chloroisopropyl) ether (102-80-1)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
3.13	Bis (2-ethylhexyl) phthalate (117-81-7)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
3.14	4-bromophenyl phenyl ether (101-55-3)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
3.15	Butyl benzyl phthalate (85-68-7)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
3.16	2-chloronaphthalene (91-58-7)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
3.17	4-chlorophenyl phenyl ether (7005-72-3)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
3.18	Chrysene (218-01-9)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
3.19	Dibenzo (a,h) anthracene (53-70-3)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
3.20	1,2-dichlorobenzene (95-50-1)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
3.21	1,3-dichlorobenzene (541-73-1)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
3.22	1,4-dichlorobenzene (106-46-7)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
3.23	3,3-dichlorobenzidine (91-94-1)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
3.24	Diethyl phthalate (84-66-2)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
3.25	Dimethyl phthalate (131-11-3)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					

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TABLE D. ORGANIC TOXIC POLLUTANTS (GAS CHROMATOGRAPHY/MASS SPECTROMETRY OR GC/MS FRACTIONS) (40 CFR 122.21(K)(5)(III)(B))[1]

Pollutant (CAS Number, if available)		Presence or Absence (check one)		Estimated Data for Pollutants Expected to Be Present in Discharge (provide both concentration and mass estimates for each pollutant)						
						Effluent			Intake Water	
		Believed Present	Believed Absent	Units		Maximum Daily Discharge	Average Daily Discharge	Source of Information (use codes in instructions)	Believed Present? (check only one response per pollutant)	
3.26	Di-n-butyl phthalate (84-74-2)	☐	☑	Concentration	mg/L			4	☐ Yes	☐ No
				Mass						
3.27	2,4-dinitrotoluene (121-14-2)	☐	☑	Concentration	mg/L			4	☐ Yes	☐ No
				Mass						
3.28	2,6-dinitrotoluene (606-20-2)	☐	☑	Concentration	mg/L			4	☐ Yes	☐ No
				Mass						
3.29	Di-n-octyl phthalate (117-84-0)	☐	☑	Concentration	mg/L			4	☐ Yes	☐ No
				Mass						
3.30	1,2-diphenylhydrazine (as azobenzene) (122-66-7)	☐	☑	Concentration	mg/L			4	☐ Yes	☐ No
				Mass						
3.31	Fluoranthene (206-44-0)	☐	☑	Concentration	mg/L			4	☐ Yes	☐ No
				Mass						
3.32	Fluorene (86-73-7)	☐	☑	Concentration	mg/L			4	☐ Yes	☐ No
				Mass						
3.33	Hexachlorobenzene (118-74-1)	☐	☑	Concentration	mg/L			4	☐ Yes	☐ No
				Mass						
3.34	Hexachlorobutadiene (87-68-3)	☐	☑	Concentration	mg/L			4	☐ Yes	☐ No
				Mass						
3.35	Hexachlorocyclopentadiene (77-47-4)	☐	☑	Concentration	mg/L			4	☐ Yes	☐ No
				Mass						
3.36	Hexachloroethane (67-72-1)	☐	☑	Concentration	mg/L			4	☐ Yes	☐ No
				Mass						
3.37.	Indeno (1,2,3-cd) pyrene (193-39-5)	☐	☑	Concentration	mg/L			4	☐ Yes	☐ No
				Mass						
3.38	Isophorone (78-59-1)	☐	☑	Concentration	mg/L			4	☐ Yes	☐ No
				Mass						
3.39	Naphthalene (91-20-3)	☐	☑	Concentration	mg/L			4	☐ Yes	☐ No
				Mass						

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TABLE D. ORGANIC TOXIC POLLUTANTS (GAS CHROMATOGRAPHY/MASS SPECTROMETRY OR GC/MS FRACTIONS) (40 CFR 122.21(K)(5)(III)(B))[1]

Pollutant (CAS Number, if available)		Presence or Absence (check one)		Estimated Data for Pollutants Expected to Be Present in Discharge (provide both concentration and mass estimates for each pollutant)					
						Effluent			Intake Water
		Believed Present	Believed Absent	Units		Maximum Daily Discharge	Average Daily Discharge	Source of Information (use codes in instructions)	Believed Present? (check only one response per pollutant)
3.40	Nitrobenzene (98-95-3)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
3.41	N-nitrosodimethylamine (62-75-9)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
3.42	N-nitrosodi-n-propylamine (621-64-7)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
3.43	N-nitrosodiphenylamine (86-30-6)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
3.44	Phenanthrene (85-01-8)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
3.45	Pyrene (129-00-0)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
3.46	1,2,4-trichlorobenzene (120-82-1)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
4. Organic Toxic Pollutants (GC/MS Fraction—Pesticides)									
4.1.	Aldrin (309-00-2)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
4.2	α-BHC (319-84-6)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
4.3	β-BHC (319-85-7)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
4.4	γ-BHC (58-89-9)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
4.5	δ-BHC (319-86-8)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
4.6	Chlordane (57-74-9)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					

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TABLE D. ORGANIC TOXIC POLLUTANTS (GAS CHROMATOGRAPHY/MASS SPECTROMETRY OR GC/MS FRACTIONS) (40 CFR 122.21(K)(5)(III)(B))[1]

Pollutant (CAS Number, if available)		Presence or Absence (check one)		Estimated Data for Pollutants Expected to Be Present in Discharge (provide both concentration and mass estimates for each pollutant)					
						Effluent			Intake Water
		Believed Present	Believed Absent	Units		Maximum Daily Discharge	Average Daily Discharge	Source of Information (use codes in instructions)	Believed Present? (check only one response per pollutant)
4.7	4,4'-DDT (50-29-3)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
4.8	4,4'-DDE (72-55-9)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
4.9	4,4'-DDD (72-54-8)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
4.10	Dieldrin (60-57-1)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
4.11	α-endosulfan (115-29-7)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
4.12	β-endosulfan (115-29-7)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
4.13	Endosulfan sulfate (1031-07-8)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
4.14	Endrin (72-20-8)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
4.15	Endrin aldehyde (7421-93-4)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					

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TABLE D. ORGANIC TOXIC POLLUTANTS (GAS CHROMATOGRAPHY/MASS SPECTROMETRY OR GC/MS FRACTIONS) (40 CFR 122.21(K)(5)(III)(B))[1]

Pollutant (CAS Number, if available)		Presence or Absence (check one)		Estimated Data for Pollutants Expected to Be Present in Discharge (provide both concentration and mass estimates for each pollutant)					
						Effluent			Intake Water
		Believed Present	Believed Absent	Units		Maximum Daily Discharge	Average Daily Discharge	Source of Information (use codes in instructions)	Believed Present? (check only one response per pollutant)
4.16	Heptachlor (76-44-8)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
4.17	Heptachlor epoxide (1024-57-3)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
4.18	PCB-1242 (53469-21-9)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
4.19	PCB-1254 (11097-69-1)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
4.20	PCB-1221 (11104-28-2)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
4.21	PCB-1232 (11141-16-5)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
4.22	PCB-1248 (12672-29-6)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
4.23	PCB-1260 (11096-82-5)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
4.24	PCB-1016 (12674-11-2)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					
4.25	Toxaphene (8001-35-2)	☐	☑	Concentration	mg/L			4	☐ Yes ☐ No
				Mass					

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

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TABLE E. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(K)(5)(V))[1]

	Pollutant	Presence or Absence (check one)		Reason Pollutant Believed Present in Discharge	Available Quantitative Data (specify units)
		Believed Present	Believed Absent		
☐	Check (✓) here if you believe all pollutants listed to be absent from the discharge. You need not complete Table E for the noted outfall *unless* you have quantitative data available.				
1.	Asbestos	☐	☑		
2.	Acetaldehyde	☐	☑		
3.	Allyl alcohol	☐	☑		
4.	Allyl chloride	☐	☑		
5.	Amyl acetate	☐	☑		
6.	Aniline	☐	☑		
7.	Benzonitrile	☐	☑		
8.	Benzyl chloride	☐	☑		
9.	Butyl acetate	☐	☑		
10.	Butylamine	☐	☑		
11.	Captan	☐	☑		
12.	Carbaryl	☐	☑		
13.	Carbofuran	☐	☑		
14.	Carbon disulfide	☐	☑		
15.	Chlorpyrifos	☐	☑		
16.	Coumaphos	☐	☑		
17.	Cresol	☐	☑		
18.	Crotonaldehyde	☐	☑		

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TABLE E. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(K)(5)(V))[1]

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

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TABLE E. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(K)(5)(V))[1]

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

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TABLE E. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(K)(5)(V))[1]

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

TABLE E. CERTAIN HAZARDOUS SUBSTANCES AND ASBESTOS (40 CFR 122.21(K)(5)(V))[1]

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

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

SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

Printing date 01/23/2025 Reviewed on 07/20/2023

*

1 Identification

· **Product identifier**

· **Trade name: B-201**

· **Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
Browne Laboratories, LLC
2001 Crutchfield St
Chattanooga, TN 37406
USA
423-698-7777

· **Information department:** Product safety department
· **Emergency telephone number:** 24 Hours CHEMTREC 1-800-424-9300

2 Hazard(s) identification

· **Classification of the substance or mixture**

GHS05 Corrosion

Skin Corrosion 1A H314 Causes severe skin burns and eye damage.
Eye Damage 1 H318 Causes serious eye damage.

· **Label elements**
· **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).
· **Hazard pictograms**

GHS05

· **Signal word** Danger

· **Hazard-determining components of labeling:**
sodium hydroxide
· **Hazard statements**
Causes severe skin burns and eye damage.

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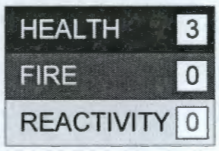
· **Precautionary statements**
Do not breathe dusts or mists.
Wash thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.
If swallowed: Rinse mouth. Do NOT induce vomiting.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a poison center/doctor.
Specific treatment (see on this label).
Wash contaminated clothing before reuse.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.
· **Classification system:**
· **NFPA ratings (scale 0 - 4)**

Health = 3
Fire = 0
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**



Health = 3
Fire = 0
Reactivity = 0

· **Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.

*
3 Composition/information on ingredients

· **Chemical characterization: Mixtures**
· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**		
1310-73-2	sodium hydroxide	>25–≤50%

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4 First-aid measures

· **Description of first aid measures**
· **General information:** Immediately remove any clothing soiled by the product.
· **After inhalation:**
In case of unconsciousness place patient stably in side position for transportation.
· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
· **After eye contact:**
Rinse opened eye for several minutes under running water. Then consult a doctor.
· **After swallowing:**
Drink copious amounts of water and provide fresh air. Immediately call a doctor.
· **Information for doctor:**
· **Most important symptoms and effects, both acute and delayed**
No further relevant information available.
· **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

· **Extinguishing media**
· **Suitable extinguishing agents:**
Use fire fighting measures that suit the environment.
· **Special hazards arising from the substance or mixture**
During heating or in case of fire poisonous gases are produced.
· **Advice for firefighters**
· **Protective equipment:** Mouth respiratory protective device.

*

6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**
Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.
· **Environmental precautions:** Dilute with plenty of water.
· **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralizing agent.
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.
· **Reference to other sections**
See Section 7 for information on safe handling.

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See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

· **Protective Action Criteria for Chemicals**

· **PAC-1:**		
1310-73-2	sodium hydroxide	0.5 mg/m³
· **PAC-2:**		
1310-73-2	sodium hydroxide	5 mg/m³
· **PAC-3:**		
1310-73-2	sodium hydroxide	50 mg/m³

7 Handling and storage

· **Handling:**
· **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
· **Information about protection against explosions and fires:**
Keep respiratory protective device available.

· **Conditions for safe storage, including any incompatibilities**
· **Storage:**
· **Requirements to be met by storerooms and receptacles:**
No special requirements.
· **Information about storage in one common storage facility:** Not required.
· **Further information about storage conditions:** Keep receptacle tightly sealed.
· **Specific end use(s)** No further relevant information available.

*

8 Exposure controls/personal protection

· **Additional information about design of technical systems:**
No further data; see section 7.

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**	
1310-73-2 sodium hydroxide	
PEL	Long-term value: 2 mg/m³
REL	Ceiling limit value: 2 mg/m³
TLV	Ceiling limit value: 2 mg/m³

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· **Additional information:**
The lists that were valid during the creation were used as basis.

· **Exposure controls**
· **Personal protective equipment:**
· **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.
· **Breathing equipment:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
· **Protection of hands:**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
· **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
· **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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· **Eye protection:**

Tightly sealed goggles

9 Physical and chemical properties

· **Information on basic physical and chemical properties**	
· **General Information**	
· **Appearance:**	
Form:	Liquid
Color:	According to product specification
· **Odor:**	Characteristic
· **Odor threshold:**	Not determined.
· **pH-value at 20 °C (68 °F):**	14
· **Change in condition**	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	100 °C (212 °F)
· **Flash point:**	Not applicable.
· **Flammability:**	Not applicable.
· **Decomposition temperature:**	Not determined.
· **Ignition temperature:**	Product is not selfigniting.
· **Danger of explosion:**	Product does not present an explosion hazard.
· **Explosion limits:**	
Lower:	Not determined.
Upper:	Not determined.
· **Vapor pressure at 20 °C (68 °F):**	23 hPa (17.3 mm Hg)
· **Density at 20 °C (68 °F):**	1.525 g/cm³ (12.72613 lbs/gal)
· **Relative density**	Not determined.
· **Vapor density**	Not determined.
· **Evaporation rate**	Not determined.

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· **Solubility in / Miscibility with Water:**	Fully miscible.
· **Partition coefficient (n-octanol/water):**	Not determined.
· **Viscosity:**	
Dynamic:	Not determined.
Kinematic:	Not determined.
· **Solvent content:**	
Water:	50.0 %
VOC content:	0.00 % 0.0 g/l / 0.00 lb/gal
· **Other information**	No further relevant information available.

10 Stability and reactivity

· **Reactivity** No further relevant information available.
· **Chemical stability**
· **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
· **Possibility of hazardous reactions** No dangerous reactions known.
· **Conditions to avoid** No further relevant information available.
· **Incompatible materials:** No further relevant information available.
· **Hazardous decomposition products:**
No dangerous decomposition products known.

*

11 Toxicological information

· **Information on toxicological effects**
· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**		
ATE (Acute Toxicity Estimate)		
Oral	LD50	4,000 mg/kg (rat)

1310-73-2 sodium hydroxide		
Oral	LD50	2,000 mg/kg (rat)

· **Primary irritant effect:**
· **on the skin:** Strong caustic effect on skin and mucous membranes.

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· **on the eye:**
Strong caustic effect.
Strong irritant with the danger of severe eye injury.
· **Sensitization:** No sensitizing effects known.
· **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Corrosive
Irritant
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**
None of the ingredients is listed.

· **NTP (National Toxicology Program)**
None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**
None of the ingredients is listed.

*

12 Ecological information

· **Toxicity**
· **Aquatic toxicity:** No further relevant information available.
· **Persistence and degradability** No further relevant information available.
· **Behavior in environmental systems:**
· **Bioaccumulative potential** No further relevant information available.
· **Mobility in soil** No further relevant information available.
· **Additional ecological information:**
· **General notes:**
Must not reach bodies of water or drainage ditch undiluted or unneutralized.
Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **Other adverse effects** No further relevant information available.

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13 Disposal considerations

· **Waste treatment methods**
· **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packagings:**
· **Recommendation:** Disposal must be made according to official regulations.
· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

*

14 Transport information

· **UN-Number**	
· **DOT, IMDG, IATA**	UN1824
· **UN proper shipping name**	
· **DOT, IATA**	Sodium hydroxide solution
· **IMDG**	SODIUM HYDROXIDE SOLUTION
· **Transport hazard class(es)**	
· **DOT**	
· **Class**	8 Corrosive substances
· **Label**	8
· **IMDG, IATA**	
· **Class**	8 Corrosive substances
· **Label**	8
· **Packing group**	
· **DOT, IMDG, IATA**	II
· **Environmental hazards:**	Not applicable.

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· **Special precautions for user**	Warning: Corrosive substances
· **Hazard identification number (Kemler code):**	80
· **EMS Number:**	F-A,S-B
· **Segregation groups**	(SGG18) Alkalis
· **Stowage Category**	A
· **Segregation Code**	SG35 Stow "separated from" SGG1-acids
· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	Not applicable.
· **Transport/Additional information:**	
· **DOT**	
· **Quantity limitations**	On passenger aircraft/rail: 1 L On cargo aircraft only: 30 L
· **IMDG**	
· **Limited quantities (LQ)**	1L
· **Excepted quantities (EQ)**	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· **UN "Model Regulation":**	UN 1824 SODIUM HYDROXIDE SOLUTION, 8, II

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
No further relevant information available.

· **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act):**

All components have the value ACTIVE.

· **Hazardous Air Pollutants**

None of the ingredients is listed.

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· **Proposition 65**

· **Chemicals known to cause cancer:**
None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**
None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**
None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**
None of the ingredients is listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**
None of the ingredients is listed.

· **TLV (Threshold Limit Value)**
None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**
None of the ingredients is listed.

· **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**

GHS05

· **Signal word** Danger

· **Hazard-determining components of labeling:**
sodium hydroxide

· **Hazard statements**
Causes severe skin burns and eye damage.

· **Precautionary statements**
Do not breathe dusts or mists.
Wash thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.
If swallowed: Rinse mouth. Do NOT induce vomiting.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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IF INHALED: Remove person to fresh air and keep comfortable for breathing.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a poison center/doctor.
Specific treatment (see on this label).
Wash contaminated clothing before reuse.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Chemical safety assessment:**
A Chemical Safety Assessment has not been carried out.

*

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing SDS:** Environment protection department.
· **Contact:** -
· **Date of preparation / last revision** 07/20/2023 / -
· **Abbreviations and acronyms:**
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Skin Corrosion 1A: Skin corrosion/irritation – Category 1A
Eye Damage 1: Serious eye damage/eye irritation – Category 1
· *** Data compared to the previous version altered.**

SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

Printing date 01/23/2025 Reviewed on 01/23/2025

*

1 Identification

· **Product identifier**

· **Trade name: BROMMAX 7.1**

· **Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
Browne Laboratories, LLC
2001 Crutchfield St
Chattanooga, TN 37406
USA
423-698-7777

· **Information department:** Product safety department
· **Emergency telephone number:** 24 Hours CHEMTREC 1-800-424-9300

*

2 Hazard(s) identification

· **Classification of the substance or mixture**

GHS05 Corrosion

Skin Corrosion 1B H314 Causes severe skin burns and eye damage.
Eye Damage 1 H318 Causes serious eye damage.

GHS09 Environment

Aquatic Acute 1 H400 Very toxic to aquatic life.
Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

· **Label elements**
· **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).

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· **Hazard pictograms**

GHS05 GHS09

· **Signal word** Danger

· **Hazard-determining components of labeling:**
sodium hypochlorite, solution

· **Hazard statements**
Causes severe skin burns and eye damage.
Very toxic to aquatic life.
Toxic to aquatic life with long lasting effects.

· **Precautionary statements**
Do not breathe dusts or mists.
Wash thoroughly after handling.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection.
If swallowed: Rinse mouth. Do NOT induce vomiting.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a poison center/doctor.
Specific treatment (see on this label).
Wash contaminated clothing before reuse.
Collect spillage.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Classification system:**

· **NFPA ratings (scale 0 - 4)**

Health = 3
Fire = 0
Reactivity = 0

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· **HMIS-ratings (scale 0 - 4)**

HEALTH	*3
FIRE	0
REACTIVITY	0

Health = *3
Fire = 0
Reactivity = 0

· **Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.

*

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**
· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**		
7681-52-9	sodium hypochlorite, solution	≥5–≤10%

4 First-aid measures

· **Description of first aid measures**
· **General information:** Immediately remove any clothing soiled by the product.
· **After inhalation:**
In case of unconsciousness place patient stably in side position for transportation.
· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
· **After eye contact:**
Rinse opened eye for several minutes under running water. Then consult a doctor.
· **After swallowing:**
Drink copious amounts of water and provide fresh air. Immediately call a doctor.
· **Information for doctor:**
· **Most important symptoms and effects, both acute and delayed**
No further relevant information available.
· **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

· **Extinguishing media**
· **Suitable extinguishing agents:**
Use fire fighting measures that suit the environment.

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· **Special hazards arising from the substance or mixture**
During heating or in case of fire poisonous gases are produced.
· **Advice for firefighters**
· **Protective equipment:** Mouth respiratory protective device.

*

6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**
Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.
· **Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Dilute with plenty of water.
· **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralizing agent.
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.
· **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.
· **Protective Action Criteria for Chemicals**

· **PAC-1:**		
7647-15-6	sodium bromide	12 mg/m³
7681-52-9	sodium hypochlorite, solution	2 mg/m³

· **PAC-2:**		
7647-15-6	sodium bromide	130 mg/m³
7681-52-9	sodium hypochlorite, solution	2.0 ppm

· **PAC-3:**		
7647-15-6	sodium bromide	830 mg/m³
7681-52-9	sodium hypochlorite, solution	20 ppm

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7 Handling and storage

· **Handling:**
· **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
· **Information about protection against explosions and fires:**
Keep respiratory protective device available.

· **Conditions for safe storage, including any incompatibilities**
· **Storage:**
· **Requirements to be met by storerooms and receptacles:**
No special requirements.
· **Information about storage in one common storage facility:** Not required.
· **Further information about storage conditions:** Keep receptacle tightly sealed.
· **Specific end use(s)** No further relevant information available.

*

8 Exposure controls/personal protection

· **Additional information about design of technical systems:**
No further data; see section 7.

· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**	
7681-52-9 sodium hypochlorite, solution	
WEEL	Short-term value: 2 mg/m³

· **Additional information:**
The lists that were valid during the creation were used as basis.

· **Exposure controls**
· **Personal protective equipment:**
· **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.
· **Breathing equipment:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

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Trade name: BROMMAX 7.1

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· **Protection of hands:**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**

Tightly sealed goggles

9 Physical and chemical properties

· **Information on basic physical and chemical properties**	
· **General Information**	
· **Appearance:**	
Form:	Liquid
Color:	According to product specification
· **Odor:**	Characteristic
· **Odor threshold:**	Not determined.
· **pH-value at 20 °C (68 °F):**	12–13
· **Change in condition**	
Melting point/Melting range:	Undetermined.

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Boiling point/Boiling range:	1,390 °C (34.590 °F)
· **Flash point:**	Not applicable.
· **Flammability:**	Not applicable.
· **Decomposition temperature:**	Not determined.
· **Ignition temperature:**	Product is not selfigniting.
· **Danger of explosion:**	Product does not present an explosion hazard.
· **Explosion limits:**	
Lower:	Not determined.
Upper:	Not determined.
· **Vapor pressure:**	Not determined.
· **Density at 20 °C (68 °F):**	1.3–1.35 g/cm³ (10.8485–11.26575 lbs/gal)
· **Relative density**	Not determined.
· **Vapor density**	Not determined.
· **Evaporation rate**	Not determined.
· **Solubility in / Miscibility with**	
Water:	Fully miscible.
· **Partition coefficient (n-octanol/water):**	Not determined.
· **Viscosity:**	
Dynamic:	Not determined.
Kinematic:	Not determined.
· **Solvent content:**	
VOC content:	0.00 % 0.0 g/l / 0.00 lb/gal
· **Other information**	No further relevant information available.

10 Stability and reactivity

· **Reactivity** No further relevant information available.
· **Chemical stability**
· **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
· **Possibility of hazardous reactions** No dangerous reactions known.
· **Conditions to avoid** No further relevant information available.
· **Incompatible materials:** No further relevant information available.

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· **Hazardous decomposition products:**
No dangerous decomposition products known.

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11 Toxicological information

· **Information on toxicological effects**
· **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**		
7681-52-9 sodium hypochlorite, solution		
Oral	LD50	5,800 mg/kg (mouse)

· **Primary irritant effect:**
· **on the skin:** Caustic effect on skin and mucous membranes.
· **on the eye:**
Strong caustic effect.
Strong irritant with the danger of severe eye injury.
· **Sensitization:** No sensitizing effects known.
· **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Corrosive
Irritant
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**
None of the ingredients is listed.

· **NTP (National Toxicology Program)**
None of the ingredients is listed.

· **OSHA-Ca (Occupational Safety & Health Administration)**
None of the ingredients is listed.

*

12 Ecological information

· **Toxicity**
· **Aquatic toxicity:** No further relevant information available.
· **Persistence and degradability** No further relevant information available.
· **Behavior in environmental systems:**
· **Bioaccumulative potential** No further relevant information available.
· **Mobility in soil** No further relevant information available.

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· **Ecotoxical effects:**
· **Remark:**
Very toxic for fish
Toxic for fish
· **Additional ecological information:**
· **General notes:**
Must not reach bodies of water or drainage ditch undiluted or unneutralized.
Also poisonous for fish and plankton in water bodies.
Very toxic for aquatic organisms
Toxic for aquatic organisms
Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **Other adverse effects** No further relevant information available.

13 Disposal considerations

· **Waste treatment methods**
· **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packagings:**
· **Recommendation:** Disposal must be made according to official regulations.
· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

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14 Transport information

· **UN-Number**	
· **DOT, IMDG, IATA**	UN1760
· **UN proper shipping name**	
· **DOT**	Corrosive liquids, n.o.s.
· **IMDG**	CORROSIVE LIQUID, N.O.S.
· **IATA**	Corrosive liquid, n.o.s.

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Trade name: BROMMAX 7.1

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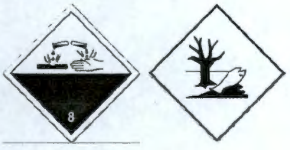
· **Transport hazard class(es)**

· **DOT**

· **Class**	8 Corrosive substances
· **Label**	8

· **IMDG**



· **Class**	8 Corrosive substances
· **Label**	8

· **IATA**

· **Class**	8 Corrosive substances
· **Label**	8
· **Packing group**	
· **DOT, IMDG, IATA**	III
· **Environmental hazards:**	
· **Marine pollutant:**	Symbol (fish and tree)
· **Special precautions for user**	Warning: Corrosive substances
· **Hazard identification number (Kemler code):**	80
· **EMS Number:**	F-A,S-B
· **Stowage Category**	A
· **Stowage Code**	SW2 Clear of living quarters.
· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	Not applicable.

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· **Transport/Additional information:**	
· **DOT**	
· **Quantity limitations**	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
· **IMDG**	
· **Limited quantities (LQ)**	5L
· **Excepted quantities (EQ)**	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· **UN "Model Regulation":**	UN 1760 CORROSIVE LIQUID, N.O.S. 8, III, ENVIRONMENTALLY HAZARDOUS

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15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
No further relevant information available.

· **Sara**

· **Section 355 (extremely hazardous substances):**
None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act):**
All components have the value ACTIVE.

· **Hazardous Air Pollutants**
None of the ingredients is listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**
None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**
None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**
None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**
None of the ingredients is listed.

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· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**
None of the ingredients is listed.

· **TLV (Threshold Limit Value)**
None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**
None of the ingredients is listed.

· **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**

GHS05 GHS09

· **Signal word** Danger

· **Hazard-determining components of labeling:**
sodium hypochlorite, solution

· **Hazard statements**
Causes severe skin burns and eye damage.
Very toxic to aquatic life.
Toxic to aquatic life with long lasting effects.

· **Precautionary statements**
Do not breathe dusts or mists.
Wash thoroughly after handling.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection.
If swallowed: Rinse mouth. Do NOT induce vomiting.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a poison center/doctor.
Specific treatment (see on this label).
Wash contaminated clothing before reuse.
Collect spillage.

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Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Chemical safety assessment:**
A Chemical Safety Assessment has not been carried out.

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16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing SDS:** Environment protection department.
· **Contact:** -
· **Date of preparation / last revision** 01/23/2025 / -
· **Abbreviations and acronyms:**
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Skin Corrosion 1B: Skin corrosion/irritation – Category 1B
Eye Damage 1: Serious eye damage/eye irritation – Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2
· *** Data compared to the previous version altered.**

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1 Identification

· **Product identifier**

· **Trade name: SULFURIC ACID 93%**

· **Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**
Browne Laboratories, Inc.
2001 Crutchfield St
Chattanooga, TN 37406
USA
423-698-7777

· **Information department:** Product safety department

· **Emergency telephone number:** 24 Hours CHEMTREC 1-800-424-9300

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2 Hazard(s) identification

· **Classification of the substance or mixture**

GHS05 Corrosion

Skin Corrosion 1A H314 Causes severe skin burns and eye damage.

Eye Damage 1 H318 Causes serious eye damage.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

· **Label elements**

· **GHS label elements**
The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**

GHS05

· **Signal word** Danger

· **Hazard-determining components of labeling:**
sulphuric acid

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Trade name: SULFURIC ACID 93%

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· **Hazard statements**
Causes severe skin burns and eye damage.
Harmful to aquatic life with long lasting effects.
· **Precautionary statements**
Do not breathe dusts or mists.
Wash thoroughly after handling.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection.
If swallowed: Rinse mouth. Do NOT induce vomiting.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a poison center/doctor.
Specific treatment (see on this label).
Wash contaminated clothing before reuse.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.
· **Classification system:**
· **NFPA ratings (scale 0 - 4)**

Health = 3
Fire = 0
Reactivity = 0

· **HMIS-ratings (scale 0 - 4)**

Health = *3
Fire = 0
Reactivity = 0

· **Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.

3 Composition/information on ingredients

· **Chemical characterization: Mixtures**
· **Description:** Mixture of the substances listed below with nonhazardous additions.

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· **Dangerous components:**		
7664-93-9	sulphuric acid	>50–≤100%

4 First-aid measures

· **Description of first aid measures**
· **General information:** Immediately remove any clothing soiled by the product.
· **After inhalation:**
In case of unconsciousness place patient stably in side position for transportation.
· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
· **After eye contact:**
Rinse opened eye for several minutes under running water. Then consult a doctor.
· **After swallowing:**
Drink copious amounts of water and provide fresh air. Immediately call a doctor.
· **Information for doctor:**
· **Most important symptoms and effects, both acute and delayed**
No further relevant information available.
· **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

· **Extinguishing media**
· **Suitable extinguishing agents:**
Use fire fighting measures that suit the environment.
· **Special hazards arising from the substance or mixture**
During heating or in case of fire poisonous gases are produced.
· **Advice for firefighters**
· **Protective equipment:** Mouth respiratory protective device.

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6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**
Mount respiratory protective device.
Wear protective equipment. Keep unprotected persons away.
· **Environmental precautions:**
Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.
Dilute with plenty of water.

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· **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Use neutralizing agent.
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.

· **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

· **Protective Action Criteria for Chemicals**

· **PAC-1:**		
7664-93-9	sulphuric acid	0.20 mg/m³

· **PAC-2:**		
7664-93-9	sulphuric acid	8.7 mg/m³

· **PAC-3:**		
7664-93-9	sulphuric acid	160 mg/m³

7 Handling and storage

· **Handling:**
· **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
· **Information about protection against explosions and fires:**
Keep respiratory protective device available.

· **Conditions for safe storage, including any incompatibilities**
· **Storage:**
· **Requirements to be met by storerooms and receptacles:**
No special requirements.
· **Information about storage in one common storage facility:** Not required.
· **Further information about storage conditions:** Keep receptacle tightly sealed.
· **Specific end use(s)** No further relevant information available.

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8 Exposure controls/personal protection

· **Additional information about design of technical systems:**
No further data; see section 7.

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· **Control parameters**

· **Components with limit values that require monitoring at the workplace:**	
7664-93-9 sulphuric acid	
PEL	Long-term value: 1 mg/m³
REL	Long-term value: 1 mg/m³
TLV	Long-term value: 0.2* mg/m³ *as thoracic fraction, A2

· **Additional information:**
The lists that were valid during the creation were used as basis.

· **Exposure controls**
· **Personal protective equipment:**
· **General protective and hygienic measures:**
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Avoid contact with the eyes.
Avoid contact with the eyes and skin.
· **Breathing equipment:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
· **Protection of hands:**

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
· **Material of gloves**
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

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· **Penetration time of glove material**
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
· **Eye protection:**

Tightly sealed goggles

9 Physical and chemical properties

· **Information on basic physical and chemical properties**	
· **General Information**	
· **Appearance:**	
Form:	Liquid
Color:	According to product specification
· **Odor:**	Characteristic
· **Odor threshold:**	Not determined.
· **pH-value at 20 °C (68 °F):**	<3
· **Change in condition**	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	100 °C (212 °F)
· **Flash point:**	Not applicable.
· **Flammability (solid, gaseous):**	Not applicable.
· **Decomposition temperature:**	Not determined.
· **Ignition temperature:**	Product is not selfigniting.
· **Danger of explosion:**	Product does not present an explosion hazard.
· **Explosion limits:**	
Lower:	Not determined.
Upper:	Not determined.
· **Vapor pressure at 20 °C (68 °F):**	>0 hPa
· **Density at 20 °C (68 °F):**	1.7812 g/cm³ (14.86411 lbs/gal)
· **Relative density**	Not determined.
· **Vapor density**	Not determined.

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Trade name: SULFURIC ACID 93%

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· **Evaporation rate**	Not determined.
· **Solubility in / Miscibility with Water:**	Fully miscible.
· **Partition coefficient (n-octanol/water):**	Not determined.
· **Viscosity:**	
Dynamic:	Not determined.
Kinematic:	Not determined.
· **Solvent content:**	
Water:	7.0 %
VOC content:	0.00 % 0.0 g/l / 0.00 lb/gal
Solids content:	0.0 %
· **Other information**	No further relevant information available.

10 Stability and reactivity

· **Reactivity** No further relevant information available.
· **Chemical stability**
· **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
· **Possibility of hazardous reactions** No dangerous reactions known.
· **Conditions to avoid** No further relevant information available.
· **Incompatible materials:** No further relevant information available.
· **Hazardous decomposition products:**
No dangerous decomposition products known.

11 Toxicological information

· **Information on toxicological effects**
· **Acute toxicity:**
· **Primary irritant effect:**
· **on the skin:** Strong caustic effect on skin and mucous membranes.
· **on the eye:**
Strong caustic effect.
Strong irritant with the danger of severe eye injury.
· **Sensitization:** No sensitizing effects known.

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Trade name: SULFURIC ACID 93%

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· **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Corrosive
Irritant
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**		
7664-93-9	sulphuric acid	1

· **NTP (National Toxicology Program)**		
7664-93-9	sulphuric acid	K

· **OSHA-Ca (Occupational Safety & Health Administration)**
None of the ingredients is listed.

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12 Ecological information

· **Toxicity**
· **Aquatic toxicity:** No further relevant information available.
· **Persistence and degradability** No further relevant information available.
· **Behavior in environmental systems:**
· **Bioaccumulative potential** No further relevant information available.
· **Mobility in soil** No further relevant information available.
· **Ecotoxical effects:**
· **Remark:** Harmful to fish
· **Additional ecological information:**
· **General notes:**
Must not reach bodies of water or drainage ditch undiluted or unneutralized.
Harmful to aquatic organisms
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **Other adverse effects** No further relevant information available.

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Trade name: SULFURIC ACID 93%

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13 Disposal considerations

· **Waste treatment methods**
· **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packagings:**
· **Recommendation:** Disposal must be made according to official regulations.
· **Recommended cleansing agent:** Water, if necessary with cleansing agents.

*

14 Transport information

· **UN-Number**	
· **DOT, IMDG, IATA**	UN1830
· **UN proper shipping name**	
· **DOT**	Sulfuric acid
· **IMDG**	SULPHURIC ACID
· **IATA**	Sulphuric acid
· **Transport hazard class(es)**	
· **DOT**	
· **Class**	8 Corrosive substances
· **Label**	8
· **IMDG, IATA**	
· **Class**	8 Corrosive substances
· **Label**	8
· **Packing group**	
· **DOT, IMDG, IATA**	II

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Trade name: SULFURIC ACID 93%

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· **Environmental hazards:**	Not applicable.
· **Special precautions for user**	Warning: Corrosive substances
· **Hazard identification number (Kemler code):**	80
· **EMS Number:**	F-A,S-B
· **Segregation groups**	(SGG1a) Strong acids
· **Stowage Category**	C
· **Stowage Code**	SW15 For metal drums, stowage category B.
· **Segregation Code**	SG36 Stow "separated from" SGG18-alkalis. SG49 Stow "separated from" SGG6-cyanides
· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	Not applicable.
· **Transport/Additional information:**	
· **DOT**	
· **Quantity limitations**	On passenger aircraft/rail: 1 L On cargo aircraft only: 30 L
· **IMDG**	
· **Limited quantities (LQ)**	1L
· **Excepted quantities (EQ)**	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· **UN "Model Regulation":**	UN 1830 SULPHURIC ACID, 8, II

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15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
No further relevant information available.

· **Sara**

· **Section 355 (extremely hazardous substances):**	
7664-93-9	sulphuric acid

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Trade name: SULFURIC ACID 93%

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· **Section 313 (Specific toxic chemical listings):**

7664-93-9	sulphuric acid

· **TSCA (Toxic Substances Control Act):**

All components have the value ACTIVE.

· **Hazardous Air Pollutants**

None of the ingredients is listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value)**

7664-93-9	sulphuric acid	A2

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **GHS label elements**

The product is classified and labeled according to the Globally Harmonized System (GHS).

· **Hazard pictograms**

GHS05

· **Signal word** Danger

· **Hazard-determining components of labeling:**

sulphuric acid

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OSHA HCS (29 CFR 1910.1200)

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Trade name: SULFURIC ACID 93%

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· **Hazard statements**
Causes severe skin burns and eye damage.
Harmful to aquatic life with long lasting effects.
· **Precautionary statements**
Do not breathe dusts or mists.
Wash thoroughly after handling.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection.
If swallowed: Rinse mouth. Do NOT induce vomiting.
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a poison center/doctor.
Specific treatment (see on this label).
Wash contaminated clothing before reuse.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.
· **Chemical safety assessment:**
A Chemical Safety Assessment has not been carried out.

*
16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing SDS:** Environment protection department.
· **Contact:** -
· **Date of preparation / last revision** 04/25/2023
· **Abbreviations and acronyms:**
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health

(Contd. on page 13)

SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

Printing date 04/25/2023 Reviewed on 04/25/2023

Trade name: SULFURIC ACID 93%

(Contd. of page 12)

TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Skin Corrosion 1A: Skin corrosion/irritation – Category 1A
Eye Damage 1: Serious eye damage/eye irritation – Category 1
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

· *** Data compared to the previous version altered.**

Outlook

RE: Yamaha Test Facility - AL0084515 - Additional Info Required

From Armando Diaz <adiaz@acscm.com>
Date Thu 10/9/2025 3:06 PM
To Mehmood, Muhammad Uzair <muhammad.mehmood@adem.alabama.gov>
Cc ksmedley@asaengineeringinc.com <ksmedley@asaengineeringinc.com>; Rachel Tranel <rtranel@asaengineeringinc.com>; Travis Watkins <travis_watkins@yamaha-motor.com>; Micheal Larson <micheal_larson@yamaha-motor.com>; Michael Carter <michael_carter@yamaha-motor.com>; Matt Jorgensen <mjorgensen@acscm.com>; Mike Daugird <mdaugird@acscm.com>; Traci Rogala <trogala@acscm.com>; Christian Fuhrmann <cfuhrmann@acscm.com>

Muhammad,
Thanks for the response.

Below are answers to your questions.

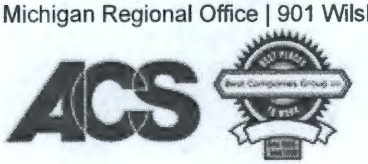
- How many testing pools are there on the facility? The facility has a total of 2 testing pools.
- Will the discharge in a single day be limited to 0.2 MGD? The discharge from 1 pool to the river will be 212,000 gallons. The draining is anticipated on being completed within 6 hours. Only 1 pool will drain per day.
- If there are multiple testing pools, how does their discharge schedule differ from each other? The answer to this is tough to anticipate, but wholistically the discharge schedule between pools will not overlap. It is possible that the 2nd pool will be discharged the following day after the 1st pool.

- Will one of the pools be used for testing while the other one is being cleaned and maintained? While one pool is being discharged and cleaned, the second pool can be testing or idling (i.e. not testing).
- How is there discharge eight times per year? There is 1 discharge per quarter per pool (i.e. 2 discharges per quarter). Therefore, 4 discharges per pool per year (i.e. 8 discharger per year). Please note that these are anticipated max discharges. The frequency could be less.

Let me know if you have further questions. Thank you.

Armando Diaz, PE
Senior Staff Engineer – Facility Mechanical
D: 608.663.3839 | C: 608.212.1378 | E: adiaz@acscm.com

acscm.com | 608.663.1590
Headquarters & Manufacturing | 633 Liberty Drive | Verona, WI 53593
Michigan Regional Office | 901 Wilshire Drive, Suite 260 | Troy, MI 48084



From: Mehmood, Muhammad Uzair <muhammad.mehmood@adem.alabama.gov>
Sent: Thursday, October 9, 2025 1:49 PM
To: Armando Diaz <adiaz@acscm.com>
Cc: ksmedley@asaengineeringinc.com; Rachel Tranel <rtranel@asaengineeringinc.com>; Travis Watkins

<travis_watkins@yamaha-motor.com>; Micheal Larson <micheal_larson@yamaha-motor.com>; Michael Carter <michael_carter@yamaha-motor.com>; Matt Jorgensen <mjorgensen@acscm.com>; Mike Daugird <mdaugird@acscm.com>; Traci Rogala <trogala@acscm.com>; Christian Fuhrmann <cfuhrmann@acscm.com>
Subject: Re: Yamaha Test Facility - AL0084515 - Additional Info Required

Good Morning,

The draft is going through final revision and you can expect a copy by the end of this month. I will give an update and provide a copy through email as well once the draft has been sent out. The draft will include all the proposed limits for the permit. The limits are subject to change based on comments from Yamaha, EPA or public. After the public notice period, the department reviews and sends out the final permit within a month, unless there are any major changes in the permit in which case it needs to go on public notice again after revision.

I need some clarification on the discharge volume and testing pools.

Comments:
The proposed NPDES discharge of one testing pool with an operating capacity of 212,000 gallons of water will be needed once every quarter for maintenance and cleaning and there will be two testing pools, resulting in the discharge of 212,000 gallons of waters to the river eight times per year. The testing pool will be designed to complete the discharge to the river over a 6-hour period.

- How many testing pools are there on the facility?
- Will the discharge in a single day be limited to 0.2 MGD?
- If there are multiple testing pools, how does their discharge schedule differ from each other? Will one of the pools be used for testing while the other one is being cleaned and maintained? How is there discharge eight times per year?

Please let me know.
Thank you.

Muhammad Uzair Mehmood
Industrial Section
Industrial/ Municipal Branch
Water Division
Alabama Department of Environmental Management
P.O Box # 301463
Montgomery, Alabama 36110
334-279-3065

ADEM

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---

From: Armando Diaz <adiaz@acscm.com>
Sent: Wednesday, October 8, 2025 9:50 AM
To: Mehmood, Muhammad Uzair <muhammad.mehmood@adem.alabama.gov>

Outlook

RE: Yamaha Test Facility - AL0084515 - Additional Info Required

---

From Armando Diaz <adiaz@acscm.com>

Date Mon 9/29/2025 10:47 AM

To Mehmood, Muhammad Uzair <muhammad.mehmood@adem.alabama.gov>

Cc ksmedley@asaengineeringinc.com <ksmedley@asaengineeringinc.com>; Rachel Tranel <rtranel@asaengineeringinc.com>; Travis Watkins <travis_watkins@yamaha-motor.com>; Micheal Larson <micheal_larson@yamaha-motor.com>; Michael Carter <michael_carter@yamaha-motor.com>; Matt Jorgensen <mjorgensen@acscm.com>; Mike Daugird <mdaugird@acscm.com>; Christian Fuhrmann <cfuhrmann@acscm.com>; Traci Rogala <trogala@acscm.com>

Hi Muhammad,
The new building design will have the following fuel tanks stored outdoors in the mechanical yard.

- (1) 20,000-gallon gasoline tank
- (1) 10,000-gallon compartmentalized gasoline tank that's split into (2) 5,000 gasoline tanks (different gasoline blends)
- (1) 100-gallon specialty fuel tank
- (1) Hazardous Material Storage Locker containing the following:
  - (2) 55-gallon drum barrel of engine oil
  - (4) 55-gallon drum barrels of specialty gasoline

Note that the above quantities currently do not exist onsite.

Please let me know if you have other questions.

Thank you.

Armando Diaz, PE
Senior Staff Engineer – Facility Mechanical
D: 608.663.3839 | C: 608.212.1378 | E: adiaz@acscm.com

acscm.com | 608.663.1590
Headquarters & Manufacturing | 633 Liberty Drive | Verona, WI 53593
Michigan Regional Office | 901 Wilshire Drive, Suite 260 | Troy, MI 48084

From: Mehmood, Muhammad Uzair <muhammad.mehmood@adem.alabama.gov>
Sent: Monday, September 29, 2025 9:34 AM
To: Traci Rogala <trogala@acscm.com>
Cc: ksmedley@asaengineeringinc.com; Rachel Tranel <rtranel@asaengineeringinc.com>; Travis Watkins <travis_watkins@yamaha-motor.com>; Micheal Larson <micheal_larson@yamaha-motor.com>; Michael Carter <michael_carter@yamaha-motor.com>; Matt Jorgensen <mjorgensen@acscm.com>; Mike Daugird <mdaugird@acscm.com>; Christian Fuhrmann <cfuhrmann@acscm.com>; Armando Diaz <adiaz@acscm.com>
Subject: Re: Yamaha Test Facility - AL0084515 - Additional Info Required

Good Morning,

Are there any petroleums or fuels stored on the site?
Please let me know.

Muhammad Uzair Mehmood
Industrial Section
Industrial/ Municipal Branch
Water Division
Alabama Department of Environmental Management
P.O Box # 301463
Montgomery, Alabama 36110
334-279-3065

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From: Traci Rogala <trogala@acscm.com>
Sent: Monday, September 22, 2025 8:22 AM
To: Mehmood, Muhammad Uzair <muhammad.mehmood@adem.alabama.gov>
Cc: ksmedley@asaengineeringinc.com <ksmedley@asaengineeringinc.com>; Rachel Tranel <rtranel@asaengineeringinc.com>; Travis Watkins <travis_watkins@yamaha-motor.com>; Micheal Larson <micheal_larson@yamaha-motor.com>; Michael Carter <michael_carter@yamaha-motor.com>; Matt Jorgensen <mjorgensen@acscm.com>; Mike Daugird <mdaugird@acscm.com>; Christian Fuhrmann <cfuhrmann@acscm.com>; Armando Diaz <adiaz@acscm.com>
Subject: RE: Yamaha Test Facility - AL0084515 - Additional Info Required

Muhammad,

Thank you for answering my additional questions - I appreciate the information you've provided.

Regards,

Traci Rogala
Construction Manager
D: 947.243.2125 | C: 231.445.1099 | E: trogala@acscm.com

From: Mehmood, Muhammad Uzair <muhammad.mehmood@adem.alabama.gov>
Sent: Friday, September 19, 2025 12:17 PM
To: Traci Rogala <trogala@acscm.com>
Cc: ksmedley@asaengineeringinc.com; Rachel Tranel <rtranel@asaengineeringinc.com>; Travis Watkins <travis_watkins@yamaha-motor.com>; Micheal Larson <micheal_larson@yamaha-motor.com>; Michael Carter <michael_carter@yamaha-motor.com>; Matt Jorgensen <mjorgensen@acscm.com>; Mike Daugird <mdaugird@acscm.com>; Christian Fuhrmann <cfuhrmann@acscm.com>; Armando Diaz <adiaz@acscm.com>
Subject: Re: Yamaha Test Facility - AL0084515 - Additional Info Required

Good Morning,

The facility can respond sooner than 30 days. After receiving the facility's response it is put on the next public notice. The pubic notice time frame starts at the middle of any given month.

If it's finalized by the end of a calendar month, it goes on the public notice starting the mid of the following month, and stays on the notice for 30 days.

I hope that answers your question.

Thank you.

Muhammad Uzair Mehmood

Industrial Section

Industrial/ Municipal Branch

Water Division

Alabama Department of Environmental Management

P.O Box # 301463

Montgomery, Alabama 36110

334-279-3065

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From: Traci Rogala <trogala@acscm.com>
Sent: Friday, September 19, 2025 8:13 AM
To: Mehmood, Muhammad Uzair <muhammad.mehmood@adem.alabama.gov>
Cc: ksmedley@asaengineeringinc.com <ksmedley@asaengineeringinc.com>; Rachel Tranel <rtranel@asaengineeringinc.com>; Travis Watkins <travis_watkins@yamaha-motor.com>; Micheal Larson <micheal_larson@yamaha-motor.com>; Michael Carter <michael_carter@yamaha-motor.com>; Matt Jorgensen <mjorgensen@acscm.com>; Mike Daugird <mdaugird@acscm.com>; Christian Fuhrmann <cfuhrmann@acscm.com>; Armando Diaz <adiaz@acscm.com>
Subject: RE: Yamaha Test Facility - AL0084515 - Additional Info Required

Good morning, Muhammad.

I appreciate this information!

I have a few additional questions for you.

1. Is the permit put on public notice immediately after it's returned by the facility, even if it's sooner than 30 days?
2. How long is the public / EPA notice period?

Have a great weekend,

Traci Rogala
Construction Manager
D: 947.243.2125 | C: 231.445.1099 | E: trogala@acscm.com

From: Mehmood, Muhammad Uzair <muhammad.mehmood@adem.alabama.gov>
Sent: Thursday, September 18, 2025 3:35 PM
To: Traci Rogala <trogala@acscm.com>; Armando Diaz <adiaz@acscm.com>
Cc: ksmedley@asaengineeringinc.com; Rachel Tranel <rtranel@asaengineeringinc.com>; Travis Watkins

<travis_watkins@yamaha-motor.com>; Micheal Larson <micheal_larson@yamaha-motor.com>; Michael Carter <michael_carter@yamaha-motor.com>; Matt Jorgensen <mjorgensen@acscm.com>; Mike Daugird <mdaugird@acscm.com>; Christian Fuhrmann <cfuhrmann@acscm.com>
Subject: Re: Yamaha Test Facility - AL0084515 - Additional Info Required

Good Afternoon Tracy,

We have received the response from the Water Quality group and are now putting limits in the permit. Once the draft has been finalized and reviewed by my supervisors, a copy will be mailed to the facility.

Generally, we give the facility a month to review the permit and request any changes in the draft. After that time period, it is put on public notice for both the public and EPA. ADEM will answer any comments received on the permit during this time frame. There might be some edits in the permit based on recommendations received by EPA. If not, the permit will go through a final departmental review and is finalized.

I will keep you updated if we need anything else. Please don't hesitate to ask if you have any questions. Thank you.

Muhammad Uzair Mehmood

Industrial Section

Industrial/ Municipal Branch

Water Division

Alabama Department of Environmental Management

P.O Box # 301463

Montgomery, Alabama 36110

334-279-3065

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---

From: Traci Rogala <trogala@acscm.com>
Sent: Thursday, September 18, 2025 9:20 AM
To: Armando Diaz <adiaz@acscm.com>; Mehmood, Muhammad Uzair <muhammad.mehmood@adem.alabama.gov>
Cc: ksmedley@asaengineeringinc.com <ksmedley@asaengineeringinc.com>; Rachel Tranel <rtranel@asaengineeringinc.com>; Travis Watkins <travis_watkins@yamaha-motor.com>; Micheal Larson <micheal_larson@yamaha-motor.com>; Michael Carter <michael_carter@yamaha-motor.com>; Matt Jorgensen <mjorgensen@acscm.com>; Mike Daugird <mdaugird@acscm.com>; Christian Fuhrmann <cfuhrmann@acscm.com>
Subject: RE: Yamaha Test Facility - AL0084515 - Additional Info Required

Muhammad,

I'm reaching out to see if there has been any progress on reviewal of Yamaha's Individual NPDES Permit.

From our last conversation, it sounded like you were waiting on an internal water quality model to begin the final phase.

Have you received this model? And what steps can we expect to come after this?

Regards,

Traci Rogala
Construction Manager
D: 947.243.2125 | C: 231.445.1099 | E: trogala@acscm.com

From: Armando Diaz <adiaz@acscm.com>
Sent: Wednesday, August 20, 2025 1:12 PM
To: Mehmood, Muhammad Uzair <muhammad.mehmood@adem.alabama.gov>
Cc: ksmedley@asaengineeringinc.com; Rachel Tranel <rtranel@asaengineeringinc.com>; Traci Rogala <trogala@acscm.com>; Travis Watkins <travis_watkins@yamaha-motor.com>; Micheal Larson

<micheal_larson@yamaha-motor.com>; Michael Carter <michael_carter@yamaha-motor.com>; Matt Jorgensen <mjorgensen@acscm.com>; Mike Daugird <mdaugird@acscm.com>; Christian Fuhrmann <cfuhrmann@acscm.com>
Subject: RE: Yamaha Test Facility - AL0084515 - Additional Info Required

Muhammad,

The chemical treatment for the pools will treat pH, corrosion, scaling and biological growth (bacteria and algae).

Let us know if you have any other questions.

Thank you.

Armando Diaz, PE
Senior Staff Engineer – Facility Mechanical
D: 608.663.3839 | C: 608.212.1378 | E: adiaz@acscm.com

acscm.com | 608.663.1590
Headquarters & Manufacturing | 633 Liberty Drive | Verona, WI 53593
Michigan Regional Office | 901 Wilshire Drive, Suite 260 | Troy, MI 48084

From: Mehmood, Muhammad Uzair <muhammad.mehmood@adem.alabama.gov>
Sent: Monday, August 18, 2025 10:12 AM
To: Christian Fuhrmann <cfuhrmann@acscm.com>
Cc: ksmedley@asaengineeringinc.com; Rachel Tranel <rtranel@asaengineeringinc.com>; Traci Rogala <trogala@acscm.com>; Travis Watkins <travis_watkins@yamaha-motor.com>; Micheal Larson <micheal_larson@yamaha-motor.com>; Michael Carter <michael_carter@yamaha-motor.com>; Matt Jorgensen <mjorgensen@acscm.com>; Mike Daugird <mdaugird@acscm.com>; Armando Diaz <adiaz@acscm.com>
Subject: Re: Yamaha Test Facility - AL0084515 - Additional Info Required

Good Morning,

For the provided SDS's, will you only be using these chemicals for pH control? Or there will be other uses as well?

It has been confirmed that 40 CFR 438 applies to the facility. This will be added to your permit file pertaining to the facility's business activity.
We are reviewing the byproducts included in the form 2D. The Yamaha NPDES Individual permit will include the limits included in 40 CFR 438. We will also consider other effluents to be included for monitoring in the permit based on our best professional judgement and similar facilities' data.

I will keep you updated and let you know if there is any additional info required.

Please let me know if you have any questions or concerns.
Thank you.

Muhammad Uzair Mehmood

Industrial Section

Industrial/ Municipal Branch

Water Division

Alabama Department of Environmental Management

P.O Box # 301463

Montgomery, Alabama 36110

334-279-3065

ADEM

From: Christian Fuhrmann <cfuhrmann@acscm.com>
Sent: Tuesday, August 12, 2025 3:05 PM
To: Mehmood, Muhammad Uzair <muhammad.mehmood@adem.alabama.gov>
Cc: ksmedley@asaengineeringinc.com <ksmedley@asaengineeringinc.com>; Rachel Tranel <rtranel@asaengineeringinc.com>; Traci Rogala <trogala@acscm.com>; Travis Watkins <travis_watkins@yamaha-motor.com>; Micheal Larson <micheal_larson@yamaha-motor.com>; Michael Carter <michael_carter@yamaha-motor.com>; Matt Jorgensen <mjorgensen@acscm.com>; Mike Daugird <mdaugird@acscm.com>; Armando Diaz <adiaz@acscm.com>
Subject: RE: Yamaha Test Facility - AL0084515 - Additional Info Required

Hi Muhammad,

Attached are the SDS's for the chemicals we plan on using to treat the pools. We will have PH control (and possibly free chlorine monitoring) which will determine the frequency of dosing, but all of this will be while remaining under the required limits. Can you confirm the limits are the ones listed under section 11, Toxicological Information?

In addition, 40 CFR 438 will apply to this facility. Can you let us know how that impacts the Section B – Business Activity Form 187 of our permit, as well as what the limits are for any byproducts that were previously listed in Yamaha's EPA Form 2D?

Would you be available to meet on Thursday morning after 9 AM ET to ensure we are aligned on all the information provided? Please reach out with any more questions.

Thanks,

Christian Fuhrmann
Mechanical Engineer
D: 608.663.3840 | C: 301.956.6609 | E: cfuhrmann@acscm.com

From: Mehmood, Muhammad Uzair <muhammad.mehmood@adem.alabama.gov>
Sent: Monday, August 11, 2025 4:00 PM
To: Traci Rogala <trogala@acscm.com>
Cc: Kristy Smedley <ksmedley@asaengineeringinc.com>; Rachel Tranel <rtranel@asaengineeringinc.com>; Travis Watkins <travis_watkins@yamaha-motor.com>; Micheal Larson <micheal_larson@yamaha-motor.com>; Michael Carter <michael_carter@yamaha-motor.com>; Matt Jorgensen <mjorgensen@acscm.com>; Armando Diaz <adiaz@acscm.com>; Mike Daugird <mdaugird@acscm.com>
Subject: Re: Yamaha Test Facility - AL0084515 - Additional Info Required

Good Afternoon Traci,

You can send everything to me in the email and I will add it your permit file.

I need the safety datasheets for everything listed in the Biocides and Chemicals sections of the Application.

List of Biocides

Please list biocides below:
pH Adjuster- chemicals: sulfuric acid or sodium hydroxide
Biocides- Disinfectant-chlorine or hydrogen peroxide. Antiseptic. Chemical: iodine solutions
Scale inhibitors-Phosphates will be used to prevent calcium carbonate buildup.
Corrosion inhibitors-Chemical: chromate or nitrites

Along with the datasheets, i need the proposed concentration of these additives in the discharge and their frequency of use. You can perform a mass balance based on the total volume of water used and total amount of additives added to get an estimate.

The threshold criteria in this case will be the toxicity requirements as LC50 listed for these chemicals on the Safety datasheets and the proposed effluent concentrations in the discharge should be lower than this criteria.

I hope that answers your questions. Please let me know if there is anything else I can help with.

Thank you.

Muhammad Uzair Mehmood

Industrial Section

Industrial/ Municipal Branch

Water Division

Alabama Department of Environmental Management

P.O Box # 301463

Montgomery, Alabama 36110

334-279-3065

ADEM

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---

From: Traci Rogala <trogala@acscm.com>
Sent: Monday, August 11, 2025 1:51 PM
To: Mehmood, Muhammad Uzair <muhammad.mehmood@adem.alabama.gov>
Cc: Kristy Smedley <ksmedley@asaengineeringinc.com>; Rachel Tranel <rtranel@asaengineeringinc.com>; Travis Watkins <travis_watkins@yamaha-motor.com>; Micheal Larson <micheal_larson@yamaha-motor.com>; Michael Carter <michael_carter@yamaha-motor.com>; Matt Jorgensen <mjorgensen@acscm.com>; Armando Diaz <adiaz@acscm.com>; Mike Daugird <mdaugird@acscm.com>
Subject: RE: Yamaha Test Facility - AL0084515 - Additional Info Required

Good afternoon, Muhammad.

To verify what is being asked –

1. Confirmation that federal regulations under 40 CFR 438 would apply to the Yamaha Technical Center, which would adjust *Section B – Business Activity Form 187* of our permit.
2. Individual SDS sheets on biocides used within the facility.

Does the permit need to be resubmitted through AEPACS once information has been updated, or can we email this information over to you?

Also - what would the target effluent criteria emissions threshold be for drainage on the Yamaha Technical Center? If not immediately available, what would the process / next steps / timing be for receiving this information?

Regards.

Traci Rogala
Construction Manager
D: 947.243.2125 | C: 231.445.1099 | E: trogala@acscm.com

From: Mehmood, Muhammad Uzair <muhammad.mehmood@adem.alabama.gov>
Sent: Thursday, August 7, 2025 12:02 PM
To: Traci Rogala <trogala@acscm.com>
Subject: Yamaha Test Facility - AL0084515 - Additional Info Required

Good Morning,

There is some additional information required for processing the permit:

1. While evaluating the applicability of the federal regulations, we have narrowed it down to 40 CFR 438. https://www.ecfr.gov/current/title-40/chapter-I/subchapter-N/part-438

Please take a look at these regulations and let us know if these apply to the processes at the facility or not.

2. Please provide the information required for Biocides asked as shown below:

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:
pH Adjuster- chemicals: sulfuric acid or sodium hydroxide
Biocides- Disinfectant-chlorine or hydrogen peroxide. Antiseptic. Chemical: iodine solutions
Scale inhibitors-Phosphates will be used to prevent calcium carbonate buildup.
Corrosion inhibitors-Chemical: chromate or nitrites

I would recommend using Safety Data Sheets to include all the required information.

Please let me know if you have any questions and concerns.

Thank you.

Muhammad Uzair Mehmood

Industrial Section

Industrial/ Municipal Branch

Water Division

Alabama Department of Environmental Management

P.O Box # 301463

Montgomery, Alabama 36110

334-279-3065

ADEM

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---

Outlook

RE: Yamaha Test Facility - AL0084515 - Application Comments

From Traci Rogala <trogala@acscm.com>
Date Tue 7/15/2025 3:11 PM
To Jackson, Scott A <scott.jackson@adem.alabama.gov>
Cc Mehmood, Muhammad Uzair <muhammad.mehmood@adem.alabama.gov>

Good afternoon, Scott & Muhammad.

Regarding Yamaha Motor Corporation's Individual NPDES Permit -

We've resubmitted the permit on updated versions of Form 1 and Form 2D. We've attached a water quality report to Form 2D and had the RO sign off on all forms + the permit submission.

I wanted to confirm that all the correct documentation has been provided on our end and looks good. Additionally, if there are any new concerns / questions, or an estimated timeline on when the reviewal process will be complete?

Thank you for your assistance,

Traci Rogala
Construction Manager
D: 947.243.2125 | C: 231.445.1099 | E: trogala@acscm.com

From: Jackson, Scott A <scott.jackson@adem.alabama.gov>
Sent: Monday, June 16, 2025 9:34 AM
To: Traci Rogala <trogala@acscm.com>
Cc: Mehmood, Muhammad Uzair <muhammad.mehmood@adem.alabama.gov>
Subject: Yamaha Test Facility - AL0084515 - Application Comments

Good Morning Tracy,

Please see our initial comments/questions regarding the application submitted by Yamaha.

- Does the facility wish to have separate permits for stormwater and process/testing water? All activities could be covered under the individual NPDES permit but the facility may also elect to keep the separate GP for stormwater.
- EPA Form 1 is the 2019 version of the form. Please resubmit this information on the newest form attached.
- EPA Form 2C was submitted; however, EPA Form 2D is more appropriate for a new discharger. Please submit the information on Form 2D.
- Each of the EPA Forms and the ultimate submission through AEPACS had different people's signatures. The overall submission through AEPACS should have been by a Responsible Official with the company. The submission was made by Kristy Smedley who does not meet this definition.

The RO should either submit the entire package or individually sign/date every ADEM/EPA form as required.

- This item does not require a response, but we are discussing with our Water Quality section to determine if any modeling will be required for this discharge. If so, we will reach out as soon as we are able to provide more information on this.

I have attached Muhammad's contact information should you need any specific help with resubmitting forms through AEPACS. Please let us know if you have any questions.

Thank you,

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ADEM

Mission: Assure for all citizens of the state a safe, healthful and productive environment