JEFFERY W. KITCHENS

DEPUTY DIRECTOR



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OCT 0 6 2025

MR PHILLIP JAMISON ZONE PRODUCTION MANAGER MESSER LLC 1040 INDUSTRIAL DR CHEROKEE, AL 35616-5414

RE: DRAFT PERMIT

NPDES PERMIT NUMBER AL0040100

Dear Mr. Jamison:

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 Theo Pinson by e-mail at tpinson@adem.alabama.gov or by phone at (334) 274-4202.

Sincerely

Scott Jackson, Chief Industrial Section

Industrial/Municip | 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) 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)

GOVERNOR







NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT

PERMITTEE:	MESSER LLC
FACILITY LOCATION:	MESSER LLC 1040 INDUSTRIAL DRIVE CHEROKEE, ALABAMA 35616 COLBERT COUNTY
PERMIT NUMBER:	AL0040100
RECEIVING WATERS:	001 - UNNAMED TRIBUTARY TO TENNESSEE RIVER
"FWPCA"), the Alabama Water Po the Alabama Environmental Manag	the provisions of the Federal Water Pollution Control Act, as amended, 33 U.S.C. §§1251-1388 (the lution Control Act, as amended, Code of Alabama 1975, §§ 22-22-1 to 22-22-14 (the "AWPCA", ament Act, as amended, Code of Alabama 1975, §§22-22A-1 to 22-22A-17, and rules and regulation rther to the terms and conditions set forth in this permit, the Permittee is hereby authorized the eiving waters.
ISSUANCE DATE:	
EFFECTIVE DATE:	
EXPIRATION DATE:	

DRAFT

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PART I: DISCHARGE LIMITATIONS, CONDITIONS, AND REQUIREMENTS

A. DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS

DSN001S: Cooling tower blowdown, non-contact condensate, and stormwater runoff associated with inorganic chemical manufacturing 3/4/5/6/

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	ameter Quantity or Loading Units Quality or Concentration			Units Quality or Concentration			Units	Sample Frequency ²	Sample Type ¹	Seasonal
BOD, 5-Day (20 Deg. C) (00310) Effluent Gross Value	****	****	****	***	****	(Report) Maximum Daily	mg/l	Semi-Annually	Grab	All Months
pH (00400) Effluent Gross Value	****	****	****	(Report) Minimum Daily	****	(Report) Maximum Daily	S.U.	Semi-Annually	Grab	All Months
Solids, Total Suspended (00530) Effluent Gross Value	****	****	****	****	****	(Report) Maximum Daily	mg/l	Semi-Annually	Grab	All Months
Oil & Grease (00556) Effluent Gross Value	****	****	****	****	****	15.0 Maximum Daily	mg/l	Semi-Annually	Grab	All Months
Nitrogen, Ammonia Total (As N) (00610) Effluent Gross Value	****	****	****	****	****	(Report) Maximum Daily	mg/l	Semi-Annually	Grab	All Months
Flow, In Conduit or Thru Treatment Plant (50050) Effluent Gross Value	********	(Report) Maximum Daily	MGD	****	****	14 14 14 14 14	****	Semi-Annually	Estimate	All Months
Semiannual Certification Statement (51932) 7/ Effluent Gross Value	****	****	****	****	****	0 Maximum Daily	Yes=0;No=1	Semi-Annually	See Permit Requirements	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.

- Samples collected to comply with the monitoring requirements specified above shall be collected at the following location: At the nearest accessible location just prior to discharge and after final treatment. Unless otherwise specified, composite samples shall be time composite samples collected using automatic sampling equipment or a minimum of eight (8) equal volume grab samples collected over equal time intervals. All composite samples shall be collected for the total period of discharge not to exceed 24 hours.
- 2/ If only one sampling event occurs during a month, the sample result shall be reported on the discharge monitoring report as both the monthly average and daily maximum value for all parameters with a monthly average limitation.
- 3/ See Part IV.A for Best Management Practices (BMP) Plan Requirements.
- 4/ See Part IV.B for Stormwater Measurement and Sampling Requirements.
- 5/ Sample shall be collected during a qualifying storm event.
- 6/ See following discharge limitations and monitoring requirements for stormwater discharges from fueling and petroleum storage and handling areas.
- 7/ See following Semiannual Certification Statement requirements (*7).

DSN001S (Continued): Cooling tower blowdown, non-contact condensate, and stormwater runoff associated with inorganic chemical manufacturing

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:

Discharge limitations and monitoring requirements for stormwater discharges from fueling and petroleum storage and handling areas.

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

- 1. The facility will have a valid Spill Prevention, Control, and Countermeasures (SPCC) plan, if required, pursuant to 40 CFR 112.
- Best Management Practices (BMP) will be used to prevent pollution of stormwater by spillage or leakage during petroleum handling and fueling operations. The BMP shall include at a minimum:
 - a. Twice per week inspections of the area and removal of any leaked petroleum product;
 - b. Immediate cleanup of spilled or leaked petroleum product during handling operations, including fueling; and
 - c. All cleanup activities shall be conducted using dry sweep or other approaches that do not result in the creation of polluted wastewater or stormwater runoff.
- 3. Records shall be maintained in the form of a log and shall contain the following information, at a minimum:
 - a. Date and time of inspections;
 - b. Any cleanup accomplished as a result of the inspection
 - c. Time the cleanup was initiated and the time it was completed:
 - d. Initials of person making visual inspection and performing any cleanup; and
 - e. Description of any spillage occurring during petroleum handling, which shall include the date and time of the spill, estimated volume of spill, name of the person observing the spill, date and time the spill was cleaned up, and name of the person cleaning up the spill.
- 4. Best Management Practices (BMP) are used in draining diked areas. BMP is defined as use of a portable oil skimmer or similar device or the use of absorbent material to remove oil and grease (as indicated by the presence of a sheen) immediately prior to draining.
- 5. Monitoring records for dike drainage shall be maintained in the form of a log and shall contain the following information, at a minimum:
 - a. Date and time of discharge;
 - Estimated volume of discharge;
 - Initials of person making visual inspection and authorizing discharge.
- 6. 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.
- * 7. The Permittee shall electronically submit a **Semiannual Certification Statement**. To submit a certification statement, the semiannual certification statement parameter should be marked "0" to certify that all discharges during the monitoring period, associated with the above, were in accordance with the conditions of the permit.

DSN01AS: Cooling tower blowdown, non-contact condensate, and stormwater runoff associated with inorganic chemical manufacturing 3/4/

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

Parameter	Quantit	Quantity or Loading Units Quality or Concentration			Quality or Concentration			Sample Frequency ²	Sample Type ¹	Seasonal
Temperature, Water Deg. Fahrenheit (00011) Effluent Gross Value	****	****	****	****	****	86.0 Maximum Daily	deg F	Semi-Annually	Grab	All Months
pH (00400) Effluent Gross Value	ale ale ale ale	****	****	6.0 Minimum Daily	****	8.5 Maximum Daily	S.U.	Semi-Annually	Grab	All Months
Flow, In Conduit or Thru Treatment Plant (50050) Effluent Gross Value	****	(Report) Maximum Daily	MGD	****	****	****	****	Semi-Annually	Calculated	All Months
Chlorine, Total Residual (50060) 5/ Effluent Gross Value	****	****	****	***	0.011 Monthly Average	0.019 Maximum Daily	mg/l	Semi-Annually	Grab	All Months

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

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

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 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 reports shall be submitted so that they are received by the Department no later than the 28th day of the month following the reporting period.

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

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

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

- (1) If the permittee is unable to complete the electronic submittal of DMR data due to technical problems originating with the Department's electronic system (this could include entry/submittal issues with an entire set of DMRs or individual parameters), the permittee is not relieved of their obligation to submit DMR data to the Department by the date specified in Provision I.C.1.b, unless otherwise directed by the Department.
 - If the Department's electronic system is down on the 28th day of the month in which the DMR is due or is down for an extended period of time, as determined by the Department, when a DMR is required to be submitted, the permittee may submit the data in an alternate manner and format acceptable to the Department. Preapproved alternate acceptable methods include faxing, e-mailing, mailing, or hand-delivery of data such that they are received by the required reporting date. Within 5 calendar days of the Department's electronic system resuming operation, the permittee shall enter the data into the Department's electronic system, unless an alternate timeframe is approved by the Department. A comment should be included on the electronic DMR submittal verifying the original submittal date (date of the fax, copy of the dated e-mail, or hand-delivery stamped date), if applicable.
- (2) The permittee may submit a request to the Department for a temporary electronic reporting waiver for DMR submittals. The waiver request should include the permit number; permittee name; facility/site name; facility address; name, address, and contact information for the responsible official or duly authorized representative; a detailed statement regarding the basis for requesting such a waiver; and the duration for which the waiver is requested. Approved electronic reporting waivers are not transferrable.
 - Permittees with an approved electronic reporting waiver for DMRs may submit hard copy DMRs for the period that the approved electronic reporting waiver request is effective. The permittee shall submit the Department-approved DMR forms to the address listed in Provision I.C.1.e.
- (3) If a permittee is allowed to submit a hard copy DMR, the DMR must be legible and bear an original signature. Photo and electronic copies of the signature are not acceptable and shall not satisfy the reporting requirements of this permit.
- (4) If the permittee, using approved analytical methods as specified in Provision I.B.2, monitors any discharge from a point source for a limited substance identified in Provision I.A. of this permit more frequently than required by this permit, the results of such monitoring shall be included in the calculation and reporting of values on the DMR and the increased frequency shall be indicated on the DMR.
- (5) In the event no discharge from a point source identified in Provision I.A. of this permit and described more fully in the permittee's application occurs during a monitoring period, the permittee shall report "No Discharge" for such period on the appropriate DMR.
- d. All reports and forms required to be submitted by this permit, the AWPCA and the Department's Rules, shall be electronically signed (or, if allowed by the Department, traditionally signed) by a "responsible official" of the permittee as defined in ADEM Administrative Code Rule 335-6-6-.09 or a "duly authorized representative" of such official as defined in ADEM Administrative Code Rule 335-6-6-.09 and shall bear the following certification:
 - "I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."
- e. Discharge Monitoring Reports required by this permit, the AWPCA, and the Department's Rules that are being submitted in hard copy shall be addressed to:

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

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

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

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

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

Certified and Registered Mail shall be addressed to:

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

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

2. Noncompliance Notification

a. 24-Hour Noncompliance Reporting

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

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

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

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

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

D. OTHER REPORTING AND NOTIFICATION REQUIREMENTS

1. Anticipated Noncompliance

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

2. Termination of Discharge

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

3. Updating Information

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

4. Duty to Provide Information

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

5. Cooling Water and Boiler Water Additives

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

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

6. Permit Issued Based on Estimated Characteristics

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

E. SCHEDULE OF COMPLIANCE

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

COMPLIANCE SHALL BE ATTAINED ON THE EFFECTIVE DATE OF THIS PERMIT

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

PART II: OTHER REQUIREMENTS, RESPONSIBILITIES, AND DUTIES

A. OPERATIONAL AND MANAGEMENT REQUIREMENTS

1. Facilities Operation and Maintenance

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of the permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities only when necessary to achieve compliance with the conditions of the permit.

2. Best Management Practices

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

3. Spill Prevention, Control, and Management

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

B. OTHER RESPONSIBILITIES

1. Duty to Mitigate Adverse Impacts

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

2. Right of Entry and Inspection

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

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

C. BYPASS AND UPSET

1. Bypass

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

- (1) It does not cause any discharge limitation specified in Provision I. A. of this permit to be exceeded;
- (2) It enters the same receiving stream as the permitted outfall; and
- (3) It is necessary for essential maintenance of a treatment or control facility or system to assure efficient operation of such facility or system.
- c. A bypass is not prohibited and need not meet the discharge limitations specified in Provision I. A. of this permit if:
 - (1) It is unavoidable to prevent loss of life, personal injury, or severe property damage;
 - (2) There are no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime (this condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance); and
 - (3) The permittee submits a written request for authorization to bypass to the Director at least ten (10) days prior to the anticipated bypass (if possible), the permittee is granted such authorization, and the permittee complies with any conditions imposed by the Director to minimize any adverse impact on human health or the environment resulting from the bypass.
- d. The permittee has the burden of establishing that each of the conditions of Provision II.C.1.b. or c. have been met to qualify for an exception to the general prohibition against bypassing contained in a. and an exemption, where applicable, from the discharge limitations specified in Provision I. A. of this permit.

2. Upset

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

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

1. Duty to Comply

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

2. Removed Substances

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

3. Loss or Failure of Treatment Facilities

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

4. Compliance with Statutes and Rules

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

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

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

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

2. Change in Discharge

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

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

3. Transfer of Permit

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

4. Permit Modification and Revocation

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

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

5. Permit Termination

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

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

6. Permit Suspension

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

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

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

F. COMPLIANCE WITH TOXIC POLLUTANT STANDARD OR PROHIBITION

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

G. DISCHARGE OF WASTEWATER GENERATED BY OTHERS

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

PART III: OTHER PERMIT CONDITIONS

A. CIVIL AND CRIMINAL LIABILITY

1. Tampering

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

2. False Statements

Any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction, be subject to penalties as provided by the AWPCA.

3. Permit Enforcement

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

4. Relief from Liability

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

B. OIL AND HAZARDOUS SUBSTANCE LIABILITY

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities or penalties to which the permittee is or may be subject under Section 311 of the FWPCA, 33 U.S.C. Section 1321.

C. PROPERTY AND OTHER RIGHTS

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

D. AVAILABILITY OF REPORTS

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

E. EXPIRATION OF PERMITS FOR NEW OR INCREASED DISCHARGES

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

F. COMPLIANCE WITH WATER QUALITY STANDARDS

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

G. GROUNDWATER

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

H. DEFINITIONS

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

- 3. <u>Arithmetic Mean</u> means the summation of the individual values of any set of values divided by the number of individual values.
- 4. AWPCA means the Alabama Water Pollution Control Act.
- 5. BOD means the five-day measure of the pollutant parameter biochemical oxygen demand.
- 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. <u>Daily discharge</u> means the discharge of a pollutant measured during any consecutive 24-hour period in accordance with the sample type and analytical methodology specified by the discharge permit.
- 9. 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. <u>Director</u> means the Director of the Department.
- 14. <u>Discharge</u> means "[t]he addition, introduction, leaking, spilling or emitting of any sewage, industrial waste, pollutant or other wastes into waters of the state". Code of Alabama 1975, Section 22-22-1(b)(8).
- 15. <u>Discharge Monitoring Report (DMR)</u> means the form approved by the Director to accomplish reporting requirements of an NPDES permit.
- 16. DO means dissolved oxygen.
- 17. 8HC means 8-hour composite sample, including any of the following:
 - a. The mixing of at least 5 equal volume samples collected at constant time intervals of not more than 2 hours over a period of not less than 8 hours between the hours of 6:00 a.m. and 6:00 p.m. If the sampling period exceeds 8 hours, sampling may be conducted beyond the 6:00 a.m. to 6:00 p.m. period.
 - b. A sample continuously collected at a constant rate over period of not less than 8 hours between the hours of 6:00 a.m. and 6:00 p.m. If the sampling period exceeds 8 hours, sampling may be conducted beyond the 6:00 a.m. to 6:00 p.m. period.
- 18. EPA means the United States Environmental Protection Agency.
- 19. FC means the pollutant parameter fecal coliform.
- 20. Flow means the total volume of discharge in a 24-hour period.
- 21. FWPCA means the Federal Water Pollution Control Act.
- 22. 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. <u>Grab Sample</u> means a single influent or effluent portion which is not a composite sample. The sample(s) shall be collected at the period(s) most representative of the discharge.
- 24. <u>Indirect Discharger</u> means a nondomestic discharger who discharges pollutants to a publicly owned treatment works or a privately owned treatment facility operated by another person.
- 25. <u>Industrial User</u> means those industries identified in the Standard Industrial Classification manual, Bureau of the Budget 1967, as amended and supplemented, under the category "Division D Manufacturing" and such other classes of significant waste producers as, by regulation, the Director deems appropriate.
- 26. 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. <u>Permit application</u> means forms and additional information that is required by ADEM Administrative Code Rule 335-6-6-.08 and applicable permit fees.
- 31. <u>Point source</u> means "any discernible, confined and discrete conveyance, including but not limited to any pipe, channel, ditch, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, or vessel or other floating craft, . . . from which pollutants are or may be discharged." Section 502(14) of the FWPCA, 33 U.S.C. Section 1362(14).
- 32. <u>Pollutant</u> includes for purposes of this permit, but is not limited to, those pollutants specified in Code of Alabama 1975, Section 22-22-1(b)(3) and those effluent characteristics specified in Provision I. A. of this permit.
- 33. <u>Privately Owned Treatment Works</u> means any devices or system which is used to treat wastes from any facility whose operator is not the operator of the treatment works, and which is not a "POTW".
- 34. <u>Publicly Owned Treatment Works</u> means a wastewater collection and treatment facility owned by the State, municipality, regional entity composed of two or more municipalities, or another entity created by the State or local authority for the purpose of collecting and treating municipal wastewater.
- 35. Receiving Stream means the "waters" receiving a "discharge" from a "point source".
- 36. 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. <u>Significant Source</u> means a source which discharges 0.025 MGD or more to a POTW or greater than five percent of the treatment work's capacity, or a source which is a primary industry as defined by the U.S. EPA or which discharges a priority or toxic pollutant.
- 38. <u>Solvent</u> means any virgin, used or spent organic solvent(s) identified in the F-Listed wastes (F001 through F005) specified in 40 CFR 261.31 that is used for the purpose of solubilizing other materials.
- 39. TKN means the pollutant parameter Total Kjeldahl Nitrogen.
- 40. TON means the pollutant parameter Total Organic Nitrogen.
- 41. TRC means Total Residual Chlorine.
- 42. TSS means the pollutant parameter Total Suspended Solids.
- 43. 24HC means 24-hour composite sample, including any of the following:
 - a. the mixing of at least 12 equal volume samples collected at constant time intervals of not more than 2 hours over a period of 24 hours;
 - b. a sample collected over a consecutive 24-hour period using an automatic sampler composite to one sample. As a minimum, samples shall be collected hourly and each shall be no more than one twenty-fourth (1/24) of the total sample volume collected; or
 - c. a sample collected over a consecutive 24-hour period using an automatic composite sampler composited proportional to flow.

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

I. SEVERABILITY

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

PART IV: ADDITIONAL REQUIREMENTS, CONDITIONS, AND LIMITATIONS

A. BEST MANAGEMENT PRACTICES (BMP) PLAN REQUIREMENTS

1. BMP Plan

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

2. Plan Content

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

- a. Establish specific objectives for the control of pollutants:
 - (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;
- Provide control sufficient to prevent or control pollution of stormwater by soil particles to the degree required to maintain compliance with the water quality standard for turbidity applicable to the waterbody(s) receiving discharge(s) under this permit;
- m. Provide spill prevention, control, and/or management sufficient to prevent or minimize contaminated stormwater runoff.

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

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

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

3. Compliance Schedule

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

4. Department Review

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

5. Administrative Procedures

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

B. STORMWATER FLOW MEASUREMENT AND SAMPLING REQUIREMENTS

1. Stormwater Flow Measurement

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

2. Stormwater Sampling

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

C. COOLING WATER INTAKE STRUCTURE (CWIS)

The Permittee obtains cooling water from a cooling water intake structure (CWIS) operated by LSB Industries. The Department has previously made a determination that the CWIS represents the best technology available (BTA) to minimize adverse environmental impact in accordance with Section 316(b) of the Federal Clean Water Act (33 U.S.C, section 1326).

ADEM PERMIT RATIONALE

PREPARED DATE: August 20, 2025 PREPARED BY: Theo Pinson

Permittee Name:

Messer LLC

Facility Name:

Messer LLC

Permit Number:

AL0040100

PERMIT IS A REISSUANCE DUE TO EXPIRATION

DISCHARGE SERIAL NUMBERS (DSN) & DESCRIPTIONS:

Cooling tower blowdown, non-contact condensate, and stormwater runoff associated with inorganic 001 chemical manufacturing

Cooling tower blowdown, non-contact condensate, and stormwater runoff associated with inorganic 01A chemical manufacturing

INDUSTRIAL CATEGORY:

40 CFR Part 415 - Inorganic Chemicals Manufacturing Point Source Category

Subpart AF - Carbon Dioxide Production Subcategory [Reserved]

MAJOR:

No

STREAM INFORMATION:

Receiving Stream:

Unnamed Tributary of the Tennessee River

Classification:

Fish and Wildlife

River Basin:

Tennessee

7010:

0 cfs

7Q2:

0 cfs

1010:

0 cfs

Annual Average Flow:

0.57 cfs

303(d) List:

No

Impairment:

Within 24-hour travel time to mercury impairment

TMDL:

No

DISCUSSION:

The facility produces liquid carbon dioxide. Feed gas is supplied by LSB Industries which is located adjacent to the facility. The feed gas is cooled and compressed, run through a series of dryer beds, cooled again, liquefied, and then sent to storage vessels on-site. Product is filled into tanker trucks for distribution to off-site customers.

ADEM Administrative Rule 335-6-10-.12 requires applicants to new or expanded discharges to Tier II waters demonstrate that the proposed discharge is necessary for important economic or social development in the area in which the waters are located. The application submitted by the facility is not for a new or expanded discharge; therefore, the applicant is not required to demonstrate that the discharge is necessary for economic and social development.

Operations at the facility are regulated under 40 CFR Part 415-Inorganic Chemicals Manufacturing Point Source Category, specifically Subpart AF-Carbon Dioxide Production. At this time, specific guideline limitations have not been promulgated, and the subcategory is reserved for future development of guideline limitations. Therefore, EPA has not promulgated specific guidelines for the discharges covered under the proposed permit. Proposed permit limits are based on Best Professional Judgment. The proposed frequencies are based on a review of site specific conditions and an evaluation of similar facilities.

DSN001S: Cooling tower blowdown, non-contact condensate, and stormwater runoff associated with inorganic chemical manufacturing

Parameter	Quantit	y or Loading	Units	Qu	ality or Concent	ration	Units	Sample Freq	Sample Type	Seasonal	Basis
BOD, 5-Day (20 Deg. C) (00310) Effluent Gross Value	****	****	****	****	****	(Report) Maximum Daily	mg/l	Semi-Annually	Grab	All Months	BPJ
pH (00400) Effluent Gross Value	****	****	****	(Report) Minimum Daily	****	(Report) Maximum Daily	S.U.	Semi-Annually	Grab	All Months	BPJ
Solids, Total Suspended (00530) Effluent Gross Value	****	****	****	****	****	(Report) Maximum Daily	mg/l	Semi-Annually	Grab	All Months	BPJ
Oil & Grease (00556) Effluent Gross Value	****	****	****	****	****	15.0 Maximum Daily	mg/l	Semi-Annually	Grab	All Months	ВРЈ
Nitrogen, Ammonia Total (As N) (00610) Effluent Gross Value	****	****	****	****	****	(Report) Maximum Daily	mg/l	Semi-Annually	Grab	All Months	BPJ
Flow, In Conduit or Thru Treatment Plant (50050) Effluent Gross Value	****	(Report) Maximum Daily	MGD	****	****	****	****	Semi-Annually	Estimate	All Months	BPJ
Semiannual Certification Statement (51932) Effluent Gross Value	****	****	****	****	****	0 Maximum Daily	Yes=0;No=1	Semi-Annually	See Permit Requirements	All Months	BPJ

DSN01AS: Cooling tower blowdown, non-contact condensate, and stormwater runoff associated with inorganic chemical manufacturing

Parameter	Quantit	y or Loading	Units	Q	uality or Concentration	on	Units	Sample Freq	Sample Type	Seasonal	Basis
Temperature, Water Deg. Fahrenheit (00011) Effluent Gross Value	****	****	****	****	****	86.0 Maximum Daily	deg F	Semi-Annually	Grab	All Months	WQBEL
pH (00400) Effluent Gross Value	****	****	****	6.0 Minimum Daily	****	8.5 Maximum Daily	S.U.	Semi-Annually	Grab	All Months	WQBEL
Flow, In Conduit or Thru Treatment Plant (50050) Effluent Gross Value	****	(Report) Maximum Daily	MGD	****	****	****	****	Semi-Annually	Calculated	All Months	ВРЈ
Chlorine, Total Residual (50060) Effluent Gross Value	****	****	****	****	0.011 Monthly Average	0.019 Maximum Daily	mg/l	Semi-Annually	Grab	All Months	ВРЈ

^{*}Basis for Permit Limitation

- BPJ Best Professional Judgment
- WQBEL Water Quality Based Effluent Limits

Discussion

Outfall DSN01AS is designated as an internal outfall of DSN001S for the purpose of collecting a process wastewater sample prior to commingling with stormwater. The DSN01AS sample shall be collected so that only process wastewater is represented in the sample. The DSN001S sample shall be collected during a qualifying storm event to be representative of stormwater discharges from the site.

Best Management Practices (BMP) Plan

Best Management Practices (BMPs) are believed to be the most effective way to control the contamination of stormwater from areas of industrial activities. This facility is required to maintain a BMP plan. The requirements of the BMP plan call for minimization of stormwater contact with waste materials, products and by-products, and for prevention of spills or loss of fluids from equipment maintenance activities. The effectiveness of the BMPs will be measured through the monitoring of the pollutants of concern. The Department has updated Part IV.A.2.g of the Permit regarding BMP inspections as follows: "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." This clarification was added to be consistent with 40 CFR Part 122.43(c).

Best Professional Judgment (BPJ)

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

Oil & Grease

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

Total Residual Chlorine

Total Residual Chlorine (TRC) limitations are proposed due to the use of sodium hypochlorite as a cooling water additive. The TRC limitations are based on the United States Environmental Protection Agency's (EPA) recommended water quality standard. In accordance with a letter dated August 11, 1998 from EPA Headquarters and a 1991 memorandum from EPA Region 4's Environmental Services Division (ESD), due to testing and method detection limitations, a Total Residual Chlorine measurement below 0.05 mg/L shall be considered below detection for compliance purposes.

Monitor Only Parameters

Monitoring has been proposed to evaluate the effectiveness of the BMP plan.

Cooling Water Additives

The discharge of biocides and corrosion inhibitors with cooling tower blowdown can introduce the potential for toxicity in receiving waters. The facility is expected to verify that the use of these chemicals will not present potential toxic effects to representative organisms in the receiving waters and to ensure that the chemicals are used in a manner that is consistent with their labeling and standard industry practices. The Permittee should refer to Part I.D.5 of the permit for further requirements regarding Cooling Water and Boiler Water Additives.

Diesel Fueling Areas

Narrative monitoring requirements have been proposed to ensure BMPs are used to prevent pollution of stormwater by spillage or leakage during fueling operations. A semiannual certification statement has been proposed to certify that all discharges during the monitoring period were in accordance with the narrative requirements.

Water Quality Based Effluent Limits (WQBEL)

pН

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

Temperature

ADEM Administrative Code, Division 6 Regulations, specifically 335-6-10-.09(5) – Specific Water Quality for Fish & Wildlife classified streams states: "the maximum temperature rise above natural temperatures due to the addition of artificial heat shall not exceed 5 °F in streams, lakes, and reservoirs." Additionally, the maximum water temperature shall not exceed 86 °F in the Tennessee River Basin.

Cooling Water Intake Structure

The facility obtains cooling water from a cooling water intake structure (CWIS) operated by LSB Industries. The Department has previously made a determination that the CWIS represents the best technology available (BTA) to minimize adverse environmental impact in accordance with Section 316(b) of the Federal Clean Water Act (33 U.S.C, section 1326).

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

Digitally signed by; AEPACS Date: 2025.06.05 15:43:23 -05:00 Reason: Submission Data Location: State of Alabama

version 2.11

(Submission #: HQD-47RR-JPCX6, version 1)

Details

Submission ID HQD-47RR-JPCX6

Form Input

General Instructions

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

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

Applicable Base Fees:

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

For assistance, please click here to determine the permit staff responsible for the site or call (334) 271-7799

Processing Information

Purpose of Application

Reissuance of Permit Due to Approaching Expiration

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

None

Action Type

Reissuance

If applicable, briefly describe any planned changes at the facility that are included in this reissuance application:

NONE PROVIDED

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General Information

SID Permit Number (if your facility currently holds an SID permit, please provide that number below):

NPDES or General Permit Numbers (if applicable, please list all permit numbers): AL0040100

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

Is a new stormwater outfall being added?

Permit Information

Permit Number

AL0040100

Current Permittee Name

Messer LLC

Permittee

Permittee Name

Messer LLC

Mailing Address

1040 Industrial Road

Messer Building

Cherokee, AL 35616

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

Samuel A

Agle

Title

VP, Bulk & US OS Production

Organization Name

Messer LLC

Phone Type Number

Extension

Mobile

7694285644

Email

samuel.agle@messer-us.com

Mailing Address

200 SOMERSET CORPORATE BLVD

STE 7000

BRIDGEWATER, NJ 08807-2882

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?

Yes

Pursuant to ADEM Admin. Code r. 335-6-6-.09(2), a person may ONLY be delegated signatory authority for reports if that person has responsibility for the overall operation of the regulated facility or regulated activity. Once such delegation is made, that person is considered a duly authorized representative (DAR).

Existing Permit Contacts

Affiliation Type	Contact Information	Remove?
Environmental Contact, DMR Contact, Responsible Official	Darrell Nelson	Remove
Notification Recipient, Responsible Official, Environmental Contact, DMR Contact	Jared Hall, Messer LLC	Remove
Permittee	Messer LLC	Keep
Responsible Official	Phillip Jamison	Keep

Duly Authorized Representative (DAR)

Duly Authorized Representative - Delegation of Signatory Authority by Responsible Official

If the permittee has not already prepared a signed and dated delegation form/letter, an optional form can be downloaded from the link below. All information should be completed along with the responsible official's signature and date signed. That signed form can be uploaded in the attachment section below titled "DAR Documentation".

Optional Delegation of Signatory Authority Form

Delegation Document for Duly Authorized Representation (DAR)

ADEM Delegation Authority 2023-06-22.pdf - 06/05/2025 03:35 PM

Comment

NONE PROVIDED

Pursuant to ADEM Admin. Code r. 335-6-6-.09(2), a person may ONLY be delegated signatory authority for reports if that person has responsibility for the overall operation of the regulated facility or activity. Once such delegation is made, that person is considered a duly authorized representative (DAR).

Authorized Rep

Prefix

Mr.

First Name

Last Name

Phillip

Jamison

Title

Zone Production Manager

Organization Name

Messer LLC

Phone Type Number

Extension

Mobile

769-428-5644

Email

Phillip.Jamison@messer-us.com

Mailing Address

1040 INDUSTRIAL DR

CHEROKEE, AL 35616-5414

[NO COUNTRY SPECIFIED]

Facility/Site Information

Facility/Site Name

Messer LLC

Organization/Ownership Type

LLC

Facility/Site Address or Location Description

1040 Industrial Drive

Cherokee, AL 35616

Facility/Site County

Colbert

Detailed Directions to the Facility/Site

NONE PROVIDED

Facility Map

SiteMapCherokeeMesser.pdf - 06/05/2025 09:53 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

34.80579999999999,-87.93920000000000

1040 Industrial Drive, Cherokee, AL

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

2813-Industrial Gases

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

325120-Industrial Gas Manufacturing

Facility/Site Contact

Prefix

Mr.

First Name Last Name

Phillip

Jamison

Title

Zone Production Manager

Organization Name

Messer LLC

Phone Type Number

Extension

Mobile

769-428-5644

Email

Phillip.Jamison@messer-us.com

Address

1040 INDUSTRIAL DR

CHEROKEE, AL 35616-5414

DMR Contact(s) (1 of 1)

6/5/2025 3:43:19 PM Page 4 of 11

DMR Contact

Prefix

Mr.

First Name Last Name
Phillip Jamison

Title

Zone Production Manager

Phone Type Number Extension

Mobile

769-428-5644

Email

Phillip.Jamison@messer-us.com

Address

1040 INDUSTRIAL DR

CHEROKEE, AL 35616-5414

Applicant Business Entity Information

Address of Incorporation

1040 Industrial Drive Cherokee, AL 35616

Agent Designated by the Corporation for Purposes of Service

Name	Address			
Corporation Service Company Inc.	641 South Lawrence Street. Montgomery, AL, 36104			

Please provide all corporate officers

Name	Title	Address			
N/A	N/A	N/A			

Does the applicant applying for coverage have a Parent Corporation?

Yes

Parent Corporation of Applicant

Name	Address	
Messer North America	200 Somerset Corporate Blvd., Suite 7000 Bridgewater, NJ 08807	

Does the applicant applying for coverage have Subsidiary Corporations?

No

Enforcement History

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

Business Activity

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

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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:

Inorganic Chemicals

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

Manufacturing of industrial gases, specifically Carbon Dioxide; trucking terminal facility and distribution facility

Water Supply

Water Sources (check all that apply):

Surface Water

Operator of Surface Intake	Million Gallons per Day (MGD)				
LSB Industries	Non Specified				
	Sum: NaN				

Cooling Water Intake Structure Information

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

Yes

Name of Provider	Location of Provider	Latitude	Longitude
LSB Industries (Cherokee Nitrogen)	Adjacent	34.81	-87.93

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

No

Is any water withdrawn from the source water used for cooling?

Yes

Using the average monthly measurements over any 12-month period, approximately what percentage of water withdrawn is used exclusively for cooling purposes?

75

Does the cooling water consist of treated effluent that would otherwise be discharged?

Yes

Outfalls (1 of 2)

001

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

NONE PROVIDED

Outfall Identifier

001

Receiving Water

Tennessee River

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

Unnamed Tributary

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

Process Water commingled with Stormwater

Estimated Average Daily Flow (MGD)

0.0

Monitoring/Sampling Point Location

34.80583300000000, -87.93916700000000

Outfalls (2 of 2)

01A

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

NONE PROVIDED

Outfall Identifier

01A

Receiving Water

Tennessee River

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

Unnamed Tributary

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

Process Water commingled with Stormwater

Estimated Average Daily Flow (MGD)

0.02

Monitoring/Sampling Point Location

34.80580000000000, -87.93920000000000

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

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

Process Flow Schematic

Process.pdf - 06/05/2025 10:58 AM

Comment

NONE PROVIDED

Anti-Degradation Evaluation

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

No

Additional Information

Do you share an outfall with another facility?

No

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

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

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

6/5/2025 3:43:20 PM Page 7 of 11

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

Please describe the equipment below:

Water is treated in a wastewater treatment tank where it is allowed or denied to be discharged to an outfall located based on acceptable parameters. Flow is metered.

Please attach the process schematic with sampling equipment locations.

Process.pdf - 06/05/2025 11:19 AM

Comment

NONE PROVIDED

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

No

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

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

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

List of Biocides

Please list biocides below:						
Nalco Trasar 3DT231						
Nalco ST-70						

Biocide/Corrosion Inhibitor Summary Sheet

NONE PROVIDED

Comment

NONE PROVIDED

Safety Data Sheets (SDS)

NALCO TRASAR 3DT231.pdf - 06/05/2025 11:24 AM NALCO ST-70.pdf - 06/05/2025 11:24 AM Comment

NONE PROVIDED

Treatment

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

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

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

No

6/5/2025 3:43:20 PM Page 8 of 11

Facility Operational Characteristics

Indicate whether the facility discharge is:

Continuous through the year

Comments:

NONE PROVIDED

Non-Discharged Wastes

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

Waste Generated	Quantity (lbs/day)	Disposal Method	On-Site or Off-Site?	If Off-Site, Identify the Facility:
Used Oil	13	3rd Party Pick-up	On-Site	

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

Yes

Hauler Information

Name	Address	City	State	Zip
Safety-Kleen	2221 US-72	Hunstville	AL	35811

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 we website here.

EPA Form 1

EPA Form 1 Cherokee AL 2025 1.pdf - 06/05/2025 02:50 PM

EPA Form 1 Cherokee AL 2025 1 Topographic Map Attachment.pdf - 06/05/2025 02:51 PM

Comment

NONE PROVIDED

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

EPA Form 2C Cherokee AL 2025 1.pdf - 06/05/2025 02:51 PM

EPA Form 2F Cherokee AL 2025 1.pdf - 06/05/2025 02:52 PM

EPA Form 1 Cherokee AL 2025 1 Site Drainage Map.pdf - 06/05/2025 02:52 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

6/5/2025 3:43:20 PM Page 9 of 11

Application Preparer

Application Preparer

Prefix

Mr.

First Name Last Name Phillip Jamison

Title

Zone Production Manager

Organization Name

Messer LLC

Phone Type Number Extension

Mobile 769-428-5644

Email

Phillip.Jamison@messer-us.com

Address

1040 INDUSTRIAL DR

CHEROKEE, AL 35616-5414

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Agreements and Signature(s)

SUBMISSION AGREEMENTS

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

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

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

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

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

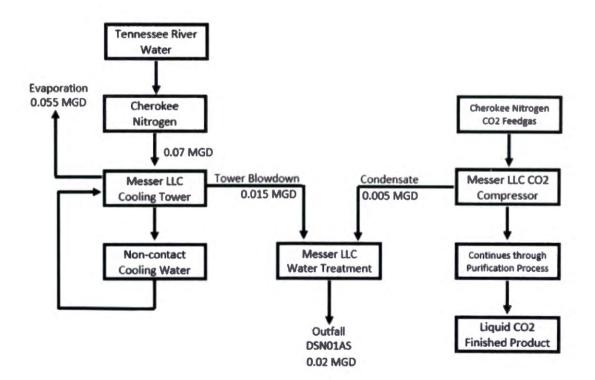
- In the case of a corporation, by a principal executive officer of at least the level of vice president;
- · In the case of a partnership, by a general partner;
- . In the case of a sole proprietorship, by the proprietor; or
- In the case of a municipal, state, federal, or other public entity, by either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

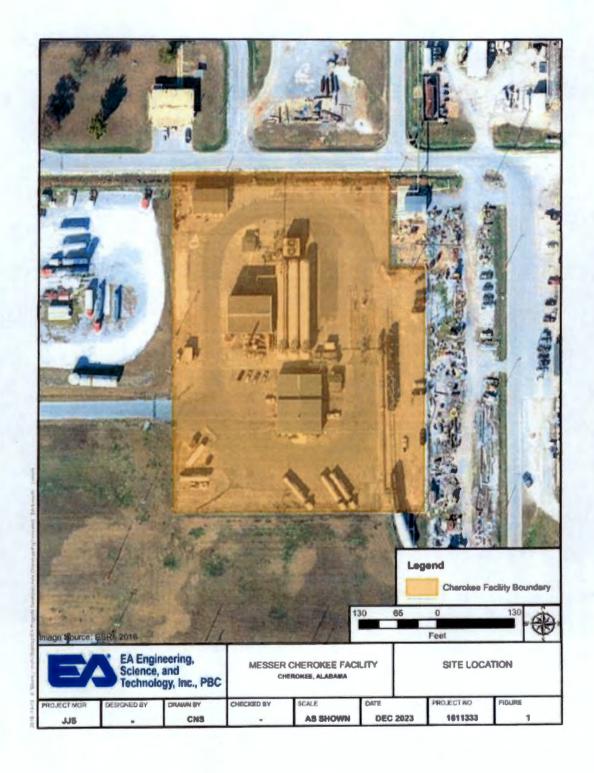
Signed By

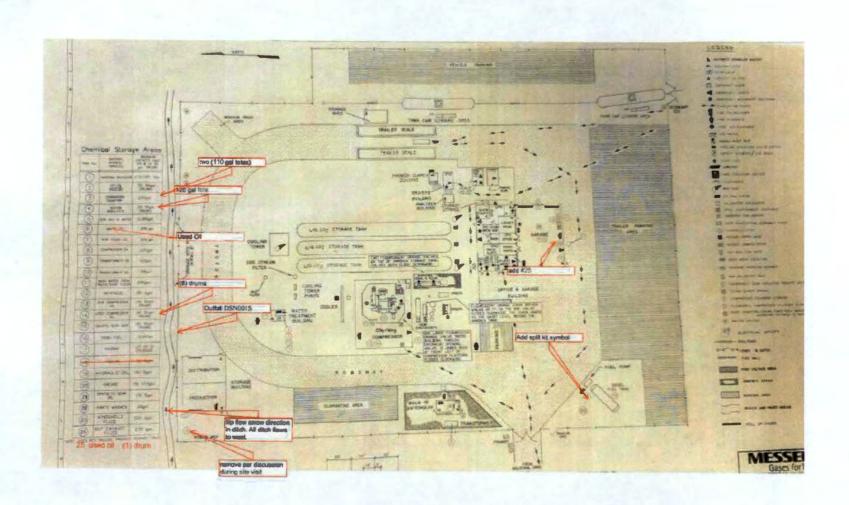
Phillip Jamison on 06/05/2025 at 3:36 PM

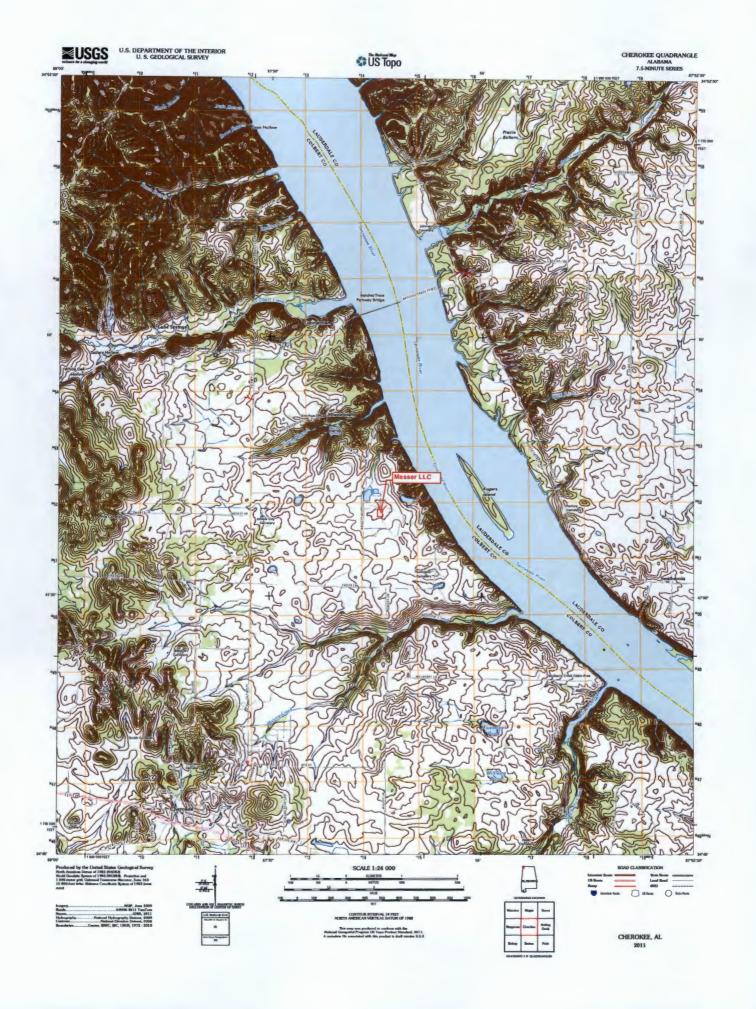


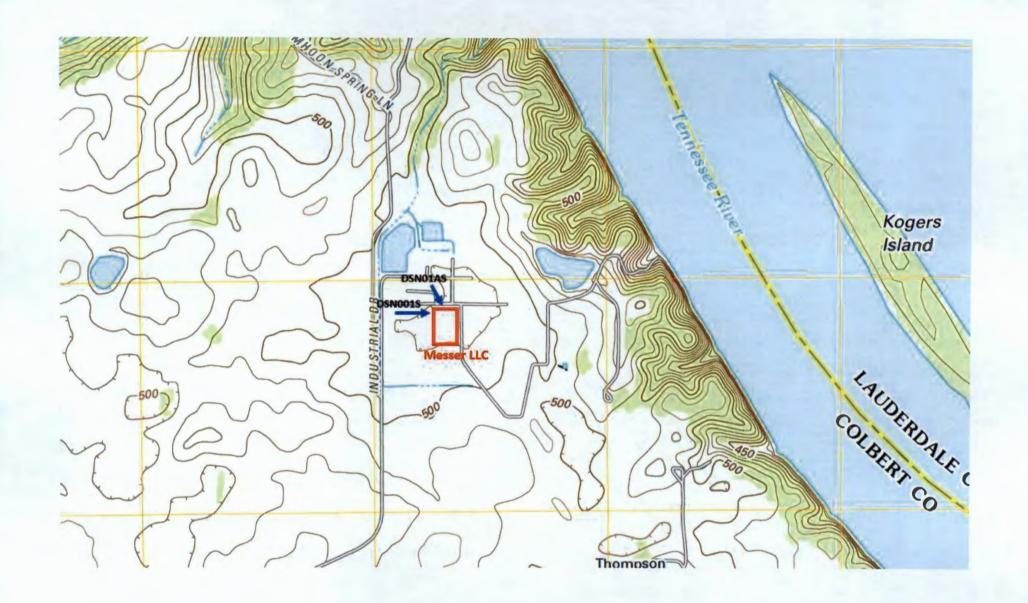
ADEM Form 2C - Section 2 Line Drawing











EPA Identification Number NPDES Permit Number Facility Name OMB No. 2040-0004 Expires 07/31/2026 ALD000737536 AL0040100 Messer LLC U.S. Environmental Protection Agency Form Application for NPDES Permit to Discharge Wastewater SEPA **NPDES** GENERAL INFORMATION SECTION 1. ACTIVITIES REQUIRING AN NPDES PERMIT (40 CFR 122.21(F) AND (F)(1)) Applicants Not Required to Submit Form 1 1.1.1 Is the facility a new or existing publicly owned 1.1.2 Is the facility a sludge-only facility (i.e., a facility treatment works or has your permitting authority that does not discharge wastewater to surface directed you to submit Form 2A? waters)? If yes, STOP, Do NOT complete If yes, STOP. Do NOT complete No **V** No Form 1. Complete Form 2A, If the Form 1. Complete Form 2S. facility is also a treatment works treating domestic sewage, you must also complete Form 2S. 1.2 Applicants Required to Submit Form 1 Activities Requiring an NPDES Permit 1.2.1 Is the facility a concentrated animal feeding 1.2.2 Is the facility an existing manufacturing, operation or a concentrated aquatic animal commercial, mining, or silvicultural facility that is production facility? currently discharging process wastewater? Yes → Complete Form 1 and Yes → Complete Form 7 Form 2B. 1 and Form 2C. 1.2.3 Is the facility a new manufacturing, commercial, 1.2.4 Is the facility a new or existing manufacturing. mining, or silvicultural facility that has not vet commercial, mining, or silvicultural facility that commenced to discharge? discharges only nonprocess wastewater? Yes → Complete Form 1 and Yes → Complete Form 1 No No No Form 2D. and Form 2E 1.2.5 Is the facility a new or existing facility whose 1.2.6 Is the facility a new or existing treatment works discharge is composed entirely of stormwater treating domestic sewage that discharges associated with industrial activity or whose wastewater to surface waters? discharge is composed of both stormwater and nonstormwater? Yes → Complete Form 1 and Yes → Complete Form 1, No Form 2F unless Form 2S, and exempted by 40 CFR any other 122.26(b)(14)(x) or applicable forms. (b)(15). as directed by your permitting authority. SECTION 2. NAME, MAILING ADDRESS, AND LOCATION (40 CFR 122.21(F)(2)) **Facility Name** Name, Mailing Address, and Location Messer LLC 2.2 **EPA Identification Number** ALD000737536 2.3 **Facility Contact** Title Phone number Name (first and last)

Zone Production Manager

(769) 428-5644

Phillip Jamison

Email address

Phillip.Jamison@messer-us.com

EPA Identification Number ALD000737536			NPDES Permit Num AL0040100	nber	Facility Name Messer LLC	OMB No. 2040-00 Expires 07/31/20			
	2.4	Facility Mailing Address							
		Street or P.O. box 1040 Industrial Drive							
		City or town Cherokee		State		ZIP code 35616			
, p	2.5	Facility Location			White and a second				
Name, mailing Address, and Location Continued		Street, route number, 1040 Industrial Drive	or other specific	identifier					
ocation	I CCATION	County name Colbert	County	code (if known)					
ame od L		City or town	State			ZIP code			
		Cherokee	AL			35616			
ECTIO	ON 3. SIC AND NAICS CODES (40 CFR 122.21(F)(3))								
7/1	3.1	SIC Code(s)	Descrip	Description (optional)					
		2813	Industria	l Gas Manufact	uring				
SIC and NAICS Codes		4231	Trucking	Terminal Facilit	ies				
	3.2	NAICS Cada(a)	Descrip	Alan (anti-nati					
pu	<u> </u>	NAICS Code(s)		tion (optional)					
<u>S</u>		325120	Industria	l Gas Manufact	uring				
0,		488490	Other Su	pport Activities	for Road Transportation				
						V 1051940			
ECTIO	N 4. OF	PERATOR INFORMATION	ON (40 CFR 122.	21(F)(4))					
	4.1	Name of Operator							
		Messer LLC							
ion	4.2	Is the name you listed	I in Item 4.1 also	the owner?		•			
Operator Information		☑ Yes ☐ No			,				
tor II	4.3	Operator Status							
eral		☐ Public—federal		ic—state	☐ Othe	r public (specify)			
Q		☑ Private		er (specify)					
1.7	4.4	Phone Number of O	perator						
		(908) 464-8100							

EPA	Identifica	tion Number	NPDES Permi	t Number	Facility Name	OMB No. 2040-000		
,	ALD000	737536	AL0040	100	Messer LLC	Expires 07/31/202		
Operator Information Continued	4.5	Street or P.O.	Operator Address Street or P.O. Box 200 Somerset Corporation Blvd, Suite 7000 City or town State ZIP code					
Co		Bridgewater		NJ		08807		
odo		Email address	of operator					
SECTIO	N 5. INI	DIAN LAND (40 C	CFR 122.21(F)(5))					
	5.1	THE REAL PROPERTY OF THE PARTY OF	cated on Indian Lar	nd?				
Indian		☐ Yes ☑] No					
SECTIO	N 6. EX	ISTING ENVIRO	NMENTAL PERMI	TS (40 CFR 122.	21(F)(6))			
Tes.	6.1	Existing Envir	ronmental Permits	(check all that a	oply and print or type the	corresponding permit number for each)		
Existing Environmental Permits		NPDES (discharges to surface water) AL0040100 PSD (air emissions)		RCRA (h	nazardous wastes)	☐ UIC (underground injection of fluids)		
g Enviror Permits					nment program (CAA)	☐ NESHAPs (CAA)		
Existin		☐ Ocean dur	mping (MPRSA)	☐ Dredge (or fill (CWA Section 404)	Other (specify)		
SECTIO	N 7. MA	AP (40 CFR 122.2	21(F)(7))					
Мар	7.1	specific require	ements.)			this application? (See instructions for		
PEOTIC	NO N		THE RESERVE AND THE PARTY OF TH		ements in Form 2B.)			
SECTIO	8.1		NESS (40 CFR 122	NAME AND ADDRESS OF THE PARTY O				
Nature of Business		The facility pro Nitrogen), who series of dryer	Describe the nature of your business. The facility produces liquid carbon dioxide. Feed gas supplied by LSB Industries (Formally known as Cherokee Nitrogen), whose facility is located next to the Messer facility. The feed gas is cooled and compressed, runs through a series of dryer beds, cooled again, liquefied, and is sent to storage vessels on-site. Product is filled into tanker trucks and distributed off-site to customers.					
SECTIO	DESCRIPTION OF THE PARTY OF THE	The state of the s	INTAKE STRUCT		22.21(F)(9))			
	9.1		ility use cooling wat					
Cooling Water ntake Structures	9.2	✓ Yes No → SKIP to Item 10.1. 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.) Cooling water is supplied to the Messer facility from our feedgas supplier (LSB).						

EPA	EPA Identification Number		NPDES Permit Number Facility Name		ame	OMB No. 2040-0004 Expires 07/31/2026	
	ALD0007	37536	AL0040100	Messer LLC		LLC	Expires 0//31/2026
SECTIO	N 10. V	ARIANCE REQI	JESTS (40 CFR 122.21(F)(10))			ALL	Land a self-car to the self-
Variance Requests	10.1	apply. Consult Function Section Non- Section	to request or renew one or more of the with your NPDES permitting authorited amentally different factors (CWA tion 301(n)) -conventional pollutants (CWA tion 301(c) and (g)) applicable		Water q	nat information needs to quality related effluent lin	be submitted and when.) mitations (CWA Section
SECTIO	N 11. CI	HECKLIST AND	CERTIFICATION STATEMENT (40	CFR 12	2.22(A) A	AND (D))	
klist and Certification Statement	11.1	In Column 1 b For each sectithat not all app	elow, mark the sections of Form 1 thation, specify in Column 2 any attachmolicants are required to provide attach Column 1 Section 1: Activities Requiring an NPD Permit Section 2: Name, Mailing Address, and Location Section 3: SIC Codes Section 4: Operator Information Section 5: Indian Land Section 6: Existing Environmental Permit Section 7: Map Section 8: Nature of Business Section 9: Cooling Water Intake Struction 1: Activities Requiring an NPD Section 9: Cooling Water Intake Struction 1: Activities Requiring an NPD Section 9: Cooling Water Intake Struction 1: Activities Requiring an NPD Section 9: Cooling Water Intake Struction 1: Activities Requiring an NPD Section 9: Cooling Water Intake Struction 1: Activities Requiring an NPD Section 9: Cooling Water Intake Struction 1: Activities Requiring an NPD Section 1: Activities Requiring an NPD Section 2: Name, Mailing Address, and Location 3: Activities Requiring an NPD Section 3: SIC Codes Section 4: Operator Information	at you ha ents that iments. DES	ve compl	leted and are submitting	ermitting authority. Note
Cert		V	Section 10.: Variance Requests			w/ attachments	
dist and		I V I	Section 11: Checklist and Certification Statement	1		w/ attachments	
Check	11.2	Certification I certify under in accordance submitted. Bar responsible for accurate, and possibility of fine Name (print of Phillip Jamison Signature	penalty of law that this document and with a system designed to assure the sed on my inquiry of the person or peor gathering the information, the information, the information are and imprisonment for knowing vior type first and last name)	chments of the person to manage of the penaltic distribution of the person of the person of the penaltic distribution of the penalti	were prepared under m nnel properly gather and ge the system, or those s, to the best of my kno	y direction or supervision d evaluate the information persons directly wledge and belief, true,	

EPA Identification Number ALD000737536

NPDES Permit Number AL0040100

Facility Name Messer LLC OMB No. 2040-0004 Expires 07/31/2026

FORM 2E



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

NPDES		MANUFACTURING, COMMERCIAL, MINING, AND SILVICULTURAL FACILITIES WHICH DISCHARGE ONLY NONPROCESS WASTEWATER						WHICH	
SECTIO	Name and Address of the Owner, where	A STATE OF THE PARTY OF	CATION (40 CFR 122.21(H)(1))			4.74.9		A COLUMN
	1.1		formation on each of the facil	ion on each of the facility's outfalls in the table below.					
ation		Outfall Number	Receiving Water Name	Latitude	e		L	ongitude	
Outfall Location		DSN01AS	UT to the Tennessee River	34 4	eg, 48' 20	4" N		87 de	g 56' 13.4 W
Itall	1	DSNOTAS	OT to the Telliessee River	340	CB, 40 20	.4 //			
o									144
SECTIO	N 2. DIS	CHARGE D	DATE (40 CFR 122.21(H)(2))	BENEVAL STATE			Marie St		A John St
	2.1		new or existing discharger?	Check only one respons	se.)		See and Department	11-41	4 6 9
Scharg		☐ Nev	w discharger		Existi	ng discharg	er -> SKIF	to Section	n 3.
Discharge Date	2.2	Specify your anticipated discharge date:							
SECTIO	N 3. W	ASTE TYPE	S (40 CFR 122.21(H)(3))	TARRENA AVIAT		(A.2.)	a Administra	HOPE N	
	3.1	What type	es of wastes are currently beir		an existin	g discharge	r or will be	discharge	d if you are
			charger? (Check all that apply nitary wastes	y.)	Other	nonprocess	wastowate	ar (doccrih	e/evnlain
		= -		directly below)			ess wastewater (describe/explain		
es		_	staurant or cafeteria waste						
Waste Types	- 00	Non-contact cooling water							
	3.2	Does the	facility use cooling water add	itives?	No.	SKIP to Se	action 4		
	3.3		ooling water additives used ar	nd describe their compos		SKIF 10 SE	CUOII 4.		
	3.3	LIST THE CO	Cooling Water Additiv		oldon.	Compos	ition of Ac	Iditives	
			(list)		-	(if a	vailable to yo	u)	
		Caustic, In	hibitor, ST-70 (Nalco Water T	reatment)					
SECTIO	-	FLUENT CH	HARACTERISTICS (40 CFR	122.21(H)(4))			AL ASSESSED	A SHIP	To Table Manager
	4.1		completed monitoring for all plication package?	parameters in the table I	below at e	each of your	outfalls an	d attache	the results
		No; a waiver has been requested for one or more parameters from							from my
		☑ Ye	er request	and additi	onal				
	4.2	Provide d	ata as requested in the table	information). below.1 Enter "Waiver" i	n the "Nur	mber of Ana	lvses" colu	ımn for the	ose
93	11.2			ng a waiver. (See instruc	g a waiver. (See instructions for specifics.)				
Effluent Characteristics				Number of		ım Daily harge		e Daily	Source (use codes
cter		Pa	arameter or Pollutant	Analyses (if actual data	(specif	fy units)	(specif	y units)	per
hara				reported)	Mass	Conc.	Mass	Conc.	instructions)
nt C		-	cal oxygen demand (BOD ₅)	30.2		mgl/	-		
flue			pended solids (TSS)	11.7	-	mg/l			
Ш	1	Oil and g		NA NA		mg/l			
		Ammonia		<0.100). A	mg/l GD			
	1	Discharge		0.02	íVi	GD .			
			t as range)	7.47				1 R	
		-	ture (winter) ture (summer)	25.8 deg C					
		Lempera	ture (Summer)	23.0 deg C					1

Page 1 EPA Form 3510-2E

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

-	EPA Identification Number ALD000737536		NPDES Permit Num AL0040100					No. 2040-0004 ires 07/31/2026		
	4.3	Is fecal coliform Yes	believed present, or is	s sanitary waste discha		it be discha				
-	4.4									
			er or Pollutant	Number of Analyses (if actual data reported)	Number of Analyses (if actual data (specify units) Average Dail Discharge (specify units) (specify units)		harge	Source (use codes per instructions		
		Fecal coliform		· · · · · · · · · · · · · · · · · · ·	Indoo	001101	maco	Contra		
ъ		E. coli								
nue	e Dice	Enterococci			1				1.12.1912.2	
s Conti	4.5	Is chlorine used Yes	(or will it be used)?		□ No •	→ SKIP to I	tem 4.7.		100	
istic	4.6	Provide data as	requested in the table	below.2 (See instruct	ons for spec	ifics.)				
Effluent Characteristics Continued			er or Pollutant	Number of Analyses (if actual data	Maximu	um Daily harge fy units)	Disc	ge Daily harge y units)	Source (use codes per	
at C				reported)	Mass	Conc.	Mass	Conc.	instructions)	
luel		Total residual ch		<0.16		mg/l				
=	4.7	Is non-contact cooling water discharged (or will it be discharged)? ✓ Yes No → SKIP to Section 5.								
	4.8									
		Paramet	er or Pollutant	Number of Analyses (if actual data reported)	Disc	um Daily harge fy units) Conc.	Disc	pe Daily harge fy units) Conc.	Source (use codes per instructions)	
		Chemical oxyge	n demand (COD)	45.0	Ividas	mg/l	Mass	Conc.	mod dottono	
		Total organic ca		6.63		mg/l				
SECTIO	N 5 EL	OW (40 CFR 122.2	COUNTY OF THE PARTY OF THE PART				a all gro			
	5.1	Except for storm this application i	nwater water runoff, leantermittent or seasonal complete this section.			rges you de		Sections	1 and 3 of	
Flow	5.2	Briefly describe	the frequency and dur	ration of flow.						
Treatment System Table 110	ON 6. TR 6.1	Briefly describe	EM (40 CFR 122.21(H any treatment system alco Water Treatment	(s) used (or to be use		s.				
Treatme										

EPA Form 3510-2E

² Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR Chapter I, Subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

EP		NPDES Permit Number	Facility Name	OMB No. 2040-0004 Expires 07/31/2026				
ray or Stelland	ALD0007		Messer LLC					
Other Information Other Programme Section 7.1		HER INFORMATION (40 CFR 122.21(H)(7)) Use the space below to expand upon any of the above the reviewer should consider in establishing permit limit						
SECTIO	N 8. CH 8.1	In Column 1 below, mark the sections of Form 2E that For each section, specify in Column 2 any attachments that not all applicants are required to provide attachments.	you have completed and are submathat you are enclosing to alert the nts.	permitting authority. Note				
	(-	Column 1	Column					
		Section 1: Outfall Location	w/ attachments (e.g., respon	nses for additional outfalls)				
		Section 2: Discharge Date	□ w/ attachments					
		Section 3: Waste Types	w/ attachments					
Ħ		Section 4: Effluent Characteristics	☐ w/ attachments					
ateme		Section 5: Flow	☐ w/ attachments					
ion St		Section 6: Treatment System	☐ w/ attachments					
tificat		Section 7: Other Information	☐ w/ attachments					
d Cer		Section 8: Checklist and Certification Statement	☐ w/ attachments					
Checklist and Certification Statement	8.2							



SAMPLE RESULTS REPORT

Report Date/Time: 09/11/2025 10:42

REPORT TO

Darrell Nelson Messer LLC PO Box 217 Cherokee, AL 35616 Southern Environmental Testing maintains ANAB accreditation to ISO/IEC 17025:2017 for testing (certificate AT-3114, AT-3114.01); Enersolv's certificate, AT-2597. Tests within the scope of accreditation and/or certification are denoted by a plus symbol (+).

This report may contain information that is confidential and proprietary. The information is intended for the addressee only and may not be copied or disseminated, except in full, without the written consent of Southern Environmental Testing.

The contents of this report apply to the sample(s) analyzed in accordance with the chain of custody document. Results are only representative of the sample(s) received and information supplied by the client may affect the validity of results.

Disclaimer: Information provided by the customer can affect the validity of results.

Analyte Name		Result	Units	Qualifer	Regulatory Limit
Sample Point: DSN01AS	Sample ID: FF02071-01	Collected:	09/04/2025	Submitted:	09/04/2025
Inorganics					
+ Biochemical Oxygen Demand		30.2	mg/l		
+ Chemical Oxygen Demand		45.0	mg/l		
+ Ammonia-Nitrogen		<0.100	mg/l		
+ Total Organic Carbon		6.63	mg/l		
+ Total Suspended Solids		11.7	mg/l		

 EPA Identification Number
 NPDES Permit Number
 Facility Name
 OMB No. 2040-0004

 ALD000737536
 AL0040100
 Messer LLC
 Expires 07/31/2026

OPERATIONS	ental Protection Agency Permit to Discharge Wast CIAL, MINING, AND SILVIO	on for NPDES I		EPA	9	Form 2C NPDES
			TION (40 CFR 122.21(G)(1))			SECTIO
itude	itude		Receiving Water Name	Outfall Number	1.1	ation
7 deg 56' 13.4 'W	34 deg, 48' 20.4" N	34	UT to the Tennessee River	DSN01AS		Outfall Location
vith a water ample.)	ws the water flow through you chibit 2C–1 at end of instruct	ication that show ements. See Ext	40 CFR 122.21(G)(2)) ached a line drawing to this applice instructions for drawing require	Have you atta	N 2. LIN 2.1	Line Drawing Drawing
ional sheets if	ow and treatment information		S AND TREATMENT (40 CFR 1: fall identified under Item 1.1, prov		N 3. AVE 3.1	SECTIO
		utfall Number*		necessary.		
	Averag	rations contrib	Operation	Maria de la companya		
0.005 mgd		n	ompressor condensate blowdow	Co		
0.015 mgd			Cooling tower blowdown			atmen
mgd						d Trea
mgd						ws an
osal of Solid or etes Other Than ischarge	Code from		Description ize, flow rate through each treatm retention time, etc.)	(include si		Average Flo
None	2-E, 2-K		Discharge water treatment			
te	t Units Code from Exhibit 2C-2	Treatment	Operation Operation Operation Operation Cooling tower blowdown Description ize, flow rate through each treatmeter retention time, etc.)			Average Flows and Treatment

EPA	Identificat	ion Number	NPDES Permit Number	Facility Name	OMB No. 2040-0004
A	ALD0007	37536	AL0040100	Messer LLC	Expires 07/31/2026
	3.1		**Outfa	I Number**	
	cont.		Operation	ons Contributing to Flow	
			Operation		Average Flow
					mgd
	4			Treatment Units	
		(include s	Description ize, flow rate through each treatment retention time, etc.)	unit, Code from Exhibit 2C	
tinued					
Average Flows and Treatment Continued					
reatm			Grand Control		
and T				I Number**	
WS	300			ns Contributing to Flow	August Flow
e Flo			Operation		Average Flow mgd
erag		1			
Ā	Marie .		A		mgd
		1			mgd
		LVI.	Marian State		mgd
				Treatment Units	
		(include s	Description ize, flow rate through each treatment retention time, etc.)	unit, Code from Exhibit 2C	
	191				
E S	3.2	Are you appl	lying for an NPDES permit to operate		nt works? (IP to Section 4.
System Users	3.3		tached a list that identifies each user of		2000011.

EPA Form 3510-2C Page 2

		ion Number	NPDES Permi		Facility Name			No. 2040-0004 res 07/31/2026
	ALD0007		AL0040		Messer LLC			
SECTIO	4.1		LOWS (40 CFR 122 orm runoff, leaks, or	2.21(G)(4)) spills, are any discha		ections 1 and 3 in		easonal?
	4.2	Provide infor necessary.	mation on intermitte	nt or seasonal flows f	or each applicable o	utfall. Attach add	ditional pages, i	f
		Outfall	Operation		uency Average	Flow	Rate Maximum	Duration
		Number	(list)	Average Days/Week	Months/Year	Long-Term Average	Daily	Duration
y,				days/week	months/year	mgd	mgd	days
Flow				days/week	months/year	mgd	mgd	days
ittent				days/week	months/year	mgd	mgd	days
Intermittent Flows				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
				days/week	months/year	mgd	mgd	days
SECTIO	N 5. PR	ODUCTION (40	CFR 122.21(G)(5))					
	5.1			nes (ELGs) promulgat	ted by EPA under Se	ection 304 of the	CWA apply to	your
		☐ Yes			✓ No →	SKIP to Section (6.	
ELG	5.2		ollowing information Category	on applicable ELGs.	LG Subcategory		Regulator	Citation
Applicable ELGs								
₹					11.00			
	<u>5.3</u>	Are any of th	e applicable ELGs e	expressed in terms of	production (or other	measure of ope	ration)?	
Suc		☐ Yes				SKIP to Section		
itatic	5.4		ctual measure of da	ily production express	sed in terms and unit	ts of applicable E		
ased Lim		Outfall Number	Oper	ation, Product, or M	aterial	Quantity p		Unit of Weasure
Production-Based Limitations								
Pro								

EPA Ide	ntification	on Number	NPDES Permit Number		Facility Name		MB No. 2040-00						
ALD	00007	37536	AL0040100		Messer LLC	8	Expires 07/31/20						
	<u>5.5</u>		sting alternative limits based t with your NPDES permitting										
		☐ Yes			No								
ECTION 6	S. IMP	ROVEMENTS (4	40 CFR 122.21(G)(6))										
	<u>6.1</u>	constructing, u	ntly required by any federal, s pgrading, or operating waste could affect the discharges d	ewater treatment endescribed in this ap	quipment or practices or	r any other enviro							
	6.2		each applicable project in the	e table below.									
ents				Affected	The Thirt was the	Final Comp	liance Date						
пргочет		Brief Identific	eation and Description of Project	Outfalls (list outfall number)	Outfalls Source(s) of Stoutfall Discharge Required								
Upgrades and Improvements													
	6.3	Have you attached sheets describing any additional water pollution control programs (or other environmental projects that may affect your discharges) that you now have underway or planned? (optional item)											
		☐ Yes		No	V	Not applicable							
ECTION 7	. EFF	LUENT AND IN	TAKE CHARACTERISTICS	(40 CFR 122.21(C	6)(7))								
			determine the pollutants and ants need to complete each t		re required to monitor ar	nd, in turn, the tab	les you mus						
T	able A	e A. Conventional and Non-Conventional Pollutants											
	<u>7.1</u>	outfalls?	sting a waiver from your NPD	DES permitting auti			f your						
		☐ Yes			No → SKIP to Item								
#	7.2		the applicable outfalls below Attach waiver request and ot				esting a waiv						
acter			number	Outfall number		Outfall number							
Char		☐ I am requ	esting a waiver for some poll	lutants at all outfall	S.								
ake		_	esting a waiver for all polluta										
Effluent and Intake Characteris	<u>7.3</u>	Have you com	pleted monitoring for all Table attached the results to this a	e A pollutants at e	ach of your outfalls for v	vhich a waiver ha	s not been						
ent		✓ Yes											
# T	able E	3. Toxic Metals.	Cyanide, Total Phenols, a	nd Organic Toxic	Pollutants								
	7.4	Do any of the f	facility's processes that contri t 2C-3? (See end of instructi	ibute wastewater f		ne primary indust	ry categories						
		✓ Yes		-	No → SKIP to Item	7.8.							
	7.5		ked "Testing Required" for a	Il toxic metals, cya	nide, and total phenols	in Section 1 of Ta	ble B?						
		☐ Yes											

	ALDO007	27526	AL0040100		esser LLO			Expires 07/31/2026					
	7.6						ensuined CC/MC fra	ation/a)					
	identified in Exl		icable primary industry categories ar Exhibit 2C–3.	id check the bo	ixes indi	caung the	required GC/MS frac	ction(s)					
			Primary Industry Category				GC/MS Fraction(s applicable boxes))					
		Inc	organic Chemicals Manufacturing	☑V	olatile	☑ Acid	☑ Base/neutral	☐ Pesticide					
				□ Ve	olatile	□ Acid	☐ Base/neutral	☐ Pesticide					
				□ Ve	olatile	☐ Acid	☐ Base/neutral	☐ Pesticide					
	7.7		ecked "Testing Required" for all requions checked in Item 7.6?	uired pollutants	in Secti	ions 2 throu	igh 5 of Table B for	each of the					
	7.8		ecked "Believed Present" or "Believe g is not required?	ed Absent" for a	all pollut	ants listed	n Sections 1 throug	h 5 of Table B					
	7.9	is required o	ovided (1) quantitative data for those r (2) quantitative data or other requir ed are "Believed Present" in your dis	red information									
	7.10	Does the applicant qualify for a small business exemption under the criteria specified in the instructions?											
		Yes → Note that you qualify at the top of Table B, then SKIP to Item 7.12. No Have you provided (1) quantitative data for those Sections 2 through 5, Table B, pollutants for which you have											
nt and Intake Characteristics Continued	7.11	determined t	ovided (1) quantitative data for those testing is required or (2) quantitative on have indicated are "Believed Pres	data or an expl	anation	for those S							
stic	Table	C. Certain Co	nventional and Non-Conventional	Pollutants									
haracteri	7.12	Have you independent of the for all outfall outfall Yes	dicated whether pollutants are "Belie s?	ved Present" or	r "Believ	red Absent'	for all pollutants lis	ted in Table C					
d Intake C	7.13	Have you co	mpleted Table C by providing quant an ELG? You must provide quantitat	itative data for t ive data even if	the pol	ollutants tha lutant is "Bo oplicable	at are limited either of elieved Absent."	directly or					
Effluent an	7.14	Have you co	mpleted Table C by providing quant elieved Present"?	itative data or a			nose pollutants for w	hich you have					
	Table	D. Certain Haz	zardous Substances and Asbestos	3			The state of the s	- 100 6 6 6 6					
	7.15	Have you interpreted for all outfall Yes	dicated whether pollutants are "Belie s?	ved Present" o	r "Believ	red Absent	for all pollutants lis	ted in Table D					
	7.16		mpleted Table D by (1) describing the iding quantitative data, if available?	ne reasons the	applicat	ole pollutan	ts are expected to b	e discharged					
	Table	_	achlorodibenzo-p-Dioxin (2,3,7,8-		140								
	7.17	Does the fac	cility use or manufacture one or more e reason to believe that TCDD is or	of the 2,3,7,8-			isted in the instruction	ons, or do you					
			Complete Table E.			SKIP to S	Section 8.						
	7.18	Have you co	empleted Table E by reporting quality	ative data for To	CDD?								

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EPA	Identificati	on Number N	PDES Permit Number	Facility Name	OMB No. 2040-0004
A	ALD0007	37536	AL0040100	Messer LLC	Expires 07/31/2026
SECTIO	N 8. US	ED OR MANUFACTURE	D TOXICS (40 CFR 122.21(G)((9))	
tured	8.1		n Table B a substance or a com product or byproduct?	ponent of a substance used or ma	
Used or Manufactured Toxics	8.2	List the pollutants below 1.	w. Attach additional sheets, if no 4.	ecessary.	
lsed o		2.	5.	8.	
		3.	6.	9.	
SECTIO	N 9. BIC	LOGICAL TOXICITY TE	STS (40 CFR 122.21(G)(11))		
ssts	9.1	within the last three yea	ars on (1) any of your discharge	any biological test for acute or chres or (2) a receiving water in relation No → SKIP to Section	on to your discharge?
Biological Toxicity Tests	9.2	Identify the tests and the Test(s)	Purpose of Test(s)	Submitted to NPDES Permitting Authority?	Date Submitted
gical To				☐ Yes ☐ No	
Biolo				☐ Yes ☐ No	
				☐ Yes ☐ No	
SECTIO	N 10. C	ONTRACT ANALYSES (4	40 CFR 122.21(G)(12))		
	<u>10.1</u>	Were any of the analys Yes	es reported in Section 7 perform	med by a contract laboratory or co No → SKIP to Section	
	10.2	Provide information for	each contract laboratory or cor	nsulting firm below.	
			Laboratory Number 1	Laboratory Number 2	Laboratory Number 3
		Name of laboratory/firm	Southern Environmental Testing		
Contract Analyses		Laboratory address	PO Box 487 3103 Northington Court Florence, AL 35630		,
Cont	Provide information Name of laboratory/firm Laboratory address Phone number		(256) 740-5532		
		Pollutant(s) analyzed	Those listed in Table A		

EPA Identific	ation Number	NPDES Permit Number		Facility Name		OMB No. 2040-000		
ALD00	0737536	AL0040100		Messer LLC		Expires 07/31/20		
CTION 11.	ADDITIONAL II	NFORMATION (40 CFR 122.	21(G)(13))				
11.	Has the NP	DES permitting authority req	uested	additional information?		***		
_	☐ Yes			✓ No → SKIP	o Sectio	n 12.		
		emotion requested and otton	h it to t			., 12.		
11.	List the inic	ormation requested and attack	וווונוטו	піз арріісацоп.				
	1.			4.				
2		194.0				yma***		
	2.			5.				
₹		2/QL#						
	3.			6.				
CTION 12.	CHECKLIST AN	ND CERTIFICATION STATE	MENT	(40 CFR 122.22(A) AND (D))				
12.	-			2C that you have completed and	are subn	nitting with your application		
	For each se	ection, specify in Column 2 ar	ny atta	chments that you are enclosing to	alert the			
	that not all		mplete	all sections or provide attachmen				
		Column 1		Colum	nn 2			
	✓ Section	on 1: Outfall Location		w/ attachments				
	✓ Section	on 2: Line Drawing		w/ line drawing		w/ additional attachment		
	Section Treatment	on 3: Average Flows and ment		w/ attachments		w/ list of each user of privately owned treatme works		
	✓ Section	on 4: Intermittent Flows		w/ attachments				
ment	✓ Section	on 5: Production		w/ attachments				
Checklist and Certification Statement	☑ Section	on 6: Improvements		w/ attachments		w/ optional additional sheets describing any additional pollution contr plans		
ŧ				w/ request for a waiver and	П	w/ explanation for		
2			-	supporting information w/ small business exemption		identical outfalls		
Lan				request		w/ other attachments		
N N	// 0000	on 7: Effluent and Intake	П	w/ Table A	П	w/ Table B		
Se l	Chara	acteristics			_			
	1			w/ Table C	Ш	w/ Table D		
				w/ Table E		w/ analytical results as a attachment		
	Toxic:			w/ attachments				
14.	✓ Section Tests	on 9: Biological Toxicity		w/ attachments				
		on 10: Contract Analyses		w/ attachments				
	Inform	on 11: Additional nation		w/ attachments				
		on 12: Checklist and		w/ attachments				

EPA Identification Number NPDES Permit Number Facility Name OMB No. 2040-0004

Expires 07/31/2026

ALD000737536 AL0040100 Messer LLC SECTION 12. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d)) (Continued) 12.2 Provide the following certification. (See instructions to determine the appropriate person to sign the application.) **Certification Statement** Checklist and 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 Zone Production Manager Phillip Jamison Date signed Signature Phillip Jamison 06/05/2025

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

EPA Identification Number NPDES Permit Number Facility Name Outfall Number

ALD000737536 AL0040100 Messer LLC DSN01AS

	LE A. CONVENTIONAL AND N			,			fluent		Intal (option	
	Pollutant	Waiver Requested (if applicable)	Units (specify)		Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long-Term Average Value	Number of Analyses
	Check here if you have applied	to your NPDE	S permitting author	rity for a wai	ver for all of the p	ollutants listed on	this table for the not	ed outfall.		
1.	Biochemical oxygen demand		Concentration	mg/L	48.3					
1.	(BOD₅)		Mass	lbs/day	8.05					
2	Chemical oxygen demand		Concentration	mg/L	81.0					
2.	(COD)	П	Mass	lb/day	13.5					
2	Total assessing earth on (TOC)		Concentration	mg/L	17.4					
3.	Total organic carbon (TOC)	П	Mass	lbs/day	2.9					
_	Table over and a salida (TCC)		Concentration	mg/L	150					
4.	Total suspended solids (TSS)		Mass	lbs/day	25.02					
,	Aio (oo NI)		Concentration	mg/L	5.93					
5.	Ammonia (as N)		Mass	lbs/day	0.99					
6.	Flow		Rate	MGD	0.02	,				
7	Temperature (winter)		°C	°C	15.8					
7.	Temperature (summer)		°C	°C	27.2					
c	pH (minimum)		Standard units	s.u.	6.27					
8.	pH (maximum)		Standard units	s.u.	7.62					

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

EPA Identification Number NPDES Permit Number Facility Name Outfall Number OMB No. 2040-0004 Expires 07/31/2026 AL0040100 Messer LLC ALD000737536 TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))1 Presence or Absence Intake **Effluent** (check one) (optional) Long-Term Testing Units Pollutant/Parameter Maximum Maximum Long-**Believed** Number Number Believed (and CAS Number, if available) Required (specify) Average Daily Monthly Term Absent of of Present Daily Discharge Discharge Average Analyses Discharge **Analyses** (if available) Value (required) (if available) Check here if you qualify as a small business per the instructions to Form 2C and, therefore, do not need to submit quantitative data for any of the organic toxic pollutants in Sections 2 through 5 of this table. Note, however, that you must still indicate in the appropriate column of this table if you believe any of the pollutants listed are present in your discharge. Section 1. Toxic Metals, Cvanide, and Total Phenols Concentration Antimony, total \checkmark 1.1 (7440-36-0)Mass Concentration Arsenic, total 1 (7440-38-2)Mass Concentration Beryllium, total **V** (7440-41-7) Mass Concentration Cadmium, total \checkmark (7440-43-9)Mass Concentration Chromium, total ✓ (7440-47-3)Mass Concentration Copper, total **√** (7440-50-8)Mass Concentration Lead, total \checkmark (7439-92-1)Mass Concentration Mercury, total **√** (7439-97-6)Mass Concentration Nickel, total \checkmark (7440-02-0)Mass Concentration Selenium, total 1 1.10 (7782-49-2)Mass Concentration Silver, total 1 1.11

Mass

(7440-22-4)

EPA Identification Number NPDES Permit Number Facility Name Outfall Number OMB No. 2040-0004

ALDO00737536 AL0040100 Messer LLC Expires 07/31/2026

	ALD000737330	,,,,,,	10200	-	Wiedder EEG			and the same of			
TABL	E B. TOXIC METALS, CYANIDE	TOTAL PHE			OXIC POLLUTANTS (40	CFR 122.21(g)(7)	(v)) ¹				
				or Absence ck one)			Effi	uent		Intake (optional)	
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Believed Present	Believed Absent	Units (specify)	Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
1.12	Thallium, total (7440-28-0)			V	Concentration Mass						
1.13	Zinc, total (7440-66-6)			V	Concentration Mass						
1.14	Cyanide, total (57-12-5)			V	Concentration Mass						
1.15	Phenols, total			Ø	Concentration Mass						
Saction	on 2. Organic Toxic Pollutants	(GC/MS Fract	ion—Volatil	e Compound							
2.1	Acrolein (107-02-8)			Ø	Concentration Mass						
2.2	Acrylonitrile (107-13-1)			Ø	Concentration Mass						
2.3	Benzene (71-43-2)			Ø	Concentration Mass						
2.4	Bromoform (75-25-2)				Concentration Mass						
2.5	Carbon tetrachloride (56-23-5)			Ø	Concentration Mass						
2.6	Chlorobenzene (108-90-7)			Ø	Concentration Mass						
2.7	Chlorodibromomethane (124-48-1)			Ø	Concentration Mass						
2.8	Chloroethane (75-00-3)			Ø	Concentration Mass						

EPA Identification Number NPDES Permit Number Facility Name Outfall Number OMB No. 2040-0004
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TABL	E B. TOXIC METALS, CYANIDE	TOTAL PHE	NOLS, AND	ORGANIC T	OXIC POLLUTANTS (40	CFR 122.21(g)(7)	(v)) ¹				
				or Absence ck one)			Effl	uent			take tional)
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Believed Present	Believed Absent	Units (specify)	Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
2.9	2-chloroethylvinyl ether (110-75-8)			V	Concentration Mass				=		
2.10	Chloroform (67-66-3)			Ø	Concentration Mass						
2.11	Dichlorobromomethane (75-27-4)				Concentration Mass						
2.12	1,1-dichloroethane (75-34-3)			V	Concentration Mass						
2.13	1,2-dichloroethane (107-06-2)			V	Concentration Mass						
2.14	1,1-dichloroethylene (75-35-4)			Ø	Concentration Mass						
2.15	1,2-dichloropropane (78-87-5)			7	Concentration Mass						
2.16	1,3-dichloropropylene (542-75-6)			7	Concentration Mass						
2.17	Ethylbenzene (100-41-4)			V	Concentration Mass						
2.18	Methyl bromide (74-83-9)			V	Concentration Mass						
2.19	Methyl chloride (74-87-3)			V	Concentration Mass						
2.20	Methylene chloride (75-09-2)			V	Concentration Mass						
2.21	1,1,2,2- tetrachloroethane (79-34-5)			V	Concentration Mass						

 EPA Identification Number
 NPDES Permit Number
 Facility Name
 Outfall Number
 OMB No. 2040-0004

 ALD000737536
 AL0040100
 Messer LLC
 Expires 07/31/2026

	E B. TOXIC METALS, CYANIDE		Presence	or Absence ck one)			19/11		uent			take tional)
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Believed Present	Believed Absent	Units (specify)	Maxir Da Disch (requ	ily arge	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
2.22	Tetrachloroethylene			Ø	Concentration							
	(127-18-4)				Mass							
2.23	Toluene			✓	Concentration							
2.20	(108-88-3)				Mass							
2.24	1,2-trans-dichloroethylene				Concentration							
2.24	(156-60-5)				Mass							
2.25	1,1,1-trichloroethane			√ ⊢	Concentration							
2.23	(71-55-6)				Mass							
2.26	1,1,2-trichloroethane			✓	Concentration							
2.20	(79-00-5)		Ы		Mass							
2.27	Trichloroethylene			V	Concentration							
2.21	(79-01-6)			V	Mass							
2.28	Vinyl chloride			V	Concentration							
2.20	(75-01-4)			V	Mass							
Secti	on 3. Organic Toxic Pollutants	(GC/MS Fract	ion—Acid C	ompounds)								
3.1	2-chlorophenol			V	Concentration							
0.1	(95-57-8)				Mass							
3.2	2,4-dichlorophenol				Concentration							
5.2	(120-83-2)				Mass							
3.3	2,4-dimethylphenol			V	Concentration							
0.0	(105-67-9)				Mass							
3.4	4,6-dinitro-o-cresol				Concentration							
J.4	(534-52-1)			-	Mass							
3.5	2,4-dinitrophenol			V	Concentration							
0.0	(51-28-5)				Mass							

NPDES Permit Number **EPA Identification Number Facility Name** Outfall Number OMB No. 2040-0004 Expires 07/31/2026 AL0040100 ALD000737536 Messer LLC TABLE B. TOXIC METALS, CYANIDE, TOTAL PHENOLS, AND ORGANIC TOXIC POLLUTANTS (40 CFR 122.21(g)(7)(v))1 Presence or Absence Intake (check one) **Effluent** (optional) Pollutant/Parameter **Testing** Units Long-Term Long-Maximum Maximum Required **Believed Believed** Number Number (and CAS Number, if available) (specify) Average Term Daily Monthly Present **Absent** of of Daily Average Discharge Discharge **Analyses** Discharge Analyses (required) (if available) Value (if available) Concentration 2-nitrophenol 1 (88-75-5)Mass Concentration 4-nitrophenol **V** (100-02-7)Mass Concentration p-chloro-m-cresol \checkmark (59-50-7)Mass Concentration Pentachlorophenol \checkmark (87-86-5)Mass Concentration Phenol 3.10 1 (108-95-2) Mass Concentration 2,4,6-trichlorophenol \checkmark 3.11 (88-05-2) Mass Section 4. Organic Toxic Pollutants (GC/MS Fraction—Base /Neutral Compounds) Concentration Acenaphthene \checkmark (83-32-9)Mass Concentration Acenaphthylene **V** (208-96-8)Mass Concentration Anthracene 1 (120-12-7)Mass Concentration Benzidine 1 (92-87-5)Mass Concentration Benzo (a) anthracene 1 (56-55-3)Mass Concentration

Benzo (a) pyrene

(50-32-8)

1

Mass

EPA Identification Number NPDES Permit Number Facility Name Outfall Number OMB No. 2040-0004
ALD000737536 AL0040100 Messer LLC Expires 07/31/2026

	E B. TOXIC METALS, CYANIDE,		Presence	or Absence ok one)				uent			take tional)
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Believed Present	Believed Absent	Concentration	Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
4.7	3,4-benzofluoranthene (205-99-2)			V	Concentration Mass						
4.8	Benzo (ghi) perylene (191-24-2)			Ø	Concentration Mass						
4.9	Benzo (k) fluoranthene (207-08-9)			V	Concentration Mass						
4.10	Bis (2-chloroethoxy) methane (111-91-1)				Concentration Mass						
4.11	Bis (2-chloroethyl) ether (111-44-4)			Ø	Concentration Mass						
4.12	Bis (2-chloroisopropyl) ether (102-80-1)			Ø	Concentration Mass						
4.13	Bis (2-ethylhexyl) phthalate (117-81-7)			Ø	Concentration Mass						
4.14	4-bromophenyl phenyl ether (101-55-3)			Ø	Concentration Mass						
4.15	Butyl benzyl phthalate (85-68-7)			Ø	Concentration Mass						
4.16	2-chloronaphthalene (91-58-7)			V	Concentration Mass						
4.17	4-chlorophenyl phenyl ether (7005-72-3)			Ø	Concentration Mass						
4.18	Chrysene (218-01-9)			Ø	Concentration Mass						
4.19	Dibenzo (a,h) anthracene (53-70-3)			V	Concentration Mass						

EPA Identification Number NPDES Permit Number Facility Name Outfall Number OMB No. 2040-0004
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	LE B. TOXIC METALS, CYANIDE,		Presence or Absence (check one)			Effluent				Intake (optional)	
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Believed Present	Believed Absent	Units (specify)	Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
4.20	1,2-dichlorobenzene (95-50-1)			V	Concentration Mass						
4.21	1,3-dichlorobenzene (541-73-1)			7	Concentration Mass		1				
4.22	1,4-dichlorobenzene (106-46-7)			V	Concentration Mass						
4.23	3,3-dichlorobenzidine (91-94-1)				Concentration Mass						
4.24	Diethyl phthalate (84-66-2)			Ø	Concentration Mass						
4.25	Dimethyl phthalate (131-11-3)			Ø	Concentration Mass			,			
4.26	Di-n-butyl phthalate (84-74-2)			Ø	Concentration Mass						
4.27	2,4-dinitrotoluene (121-14-2)			Ø	Concentration Mass						
4.28	2,6-dinitrotoluene (606-20-2)			Ø	Concentration Mass						
4.29	Di-n-octyl phthalate (117-84-0)			Ø	Concentration Mass					-	
4.30	1,2-Diphenylhydrazine (as azobenzene) (122-66-7)			Ø	Concentration Mass						
4.31	Fluoranthene (206-44-0)			Ø	Concentration Mass						
4.32	Fluorene (86-73-7)			Ø	Concentration Mass						

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	ALD000737536		40100		Messer LLC						
TABL	E B. TOXIC METALS, CYANIDI	E, TOTAL PHE	Presence	ORGANIC T or Absence ck one)	Units (specify)	FR 122.21(g)(7)(v)) ¹ Effluent				Intake (optional)	
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Believed Present			Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
4.33	Hexachlorobenzene (118-74-1)			V	Concentration Mass						
4.34	Hexachlorobutadiene (87-68-3)			7	Concentration Mass						
4.35	Hexachlorocyclopentadiene (77-47-4)			Ø	Concentration Mass						
4.36	Hexachloroethane (67-72-1)			Ø	Concentration Mass						
4.37	Indeno (1,2,3-cd) pyrene (193-39-5)			V	Concentration Mass						
4.38	Isophorone (78-59-1)			Ø	Concentration Mass						
4.39	Naphthalene (91-20-3)			Ø	Concentration Mass						
4.40	Nitrobenzene (98-95-3)			Ø	Concentration Mass						
4.41	N-nitrosodimethylamine (62-75-9)			Ø	Concentration Mass			4-04			
4.42	N-nitrosodi-n-propylamine (621-64-7)			Ø	Concentration Mass						
4.43	N-nitrosodiphenylamine (86-30-6)			Ø	Concentration Mass						
4.44	Phenanthrene (85-01-8)			Ø	Concentration Mass						
4.45	Pyrene (129-00-0)				Concentration Mass						

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	ALD000737536	AL00	40100	- 15	Messer LLC					Expire	38 01/31/2020
TABL	E B. TOXIC METALS, CYANIDE,	TOTAL PHE			OXIC POLLUTANTS (40	CFR 122.21(g)(7)	(v)) ¹				
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Presence or Absence (check one)			Effluent				Intake (optional)	
			Believed Present	Believed Absent	Units (specify)	Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
4.46	1,2,4-trichlorobenzene (120-82-1)			V	Concentration Mass						
Section	on 5. Organic Toxic Pollutants (GC/MS Fract	ion-Pestic	ides)							
5.1	Aldrin (309-00-2)			✓	Concentration Mass						
5.2	α-BHC (319-84-6)			Ø	Concentration Mass						
5.3	β-BHC (319-85-7)			Ø	Concentration Mass						
5.4	γ-BHC (58-89-9)			Ø	Concentration Mass						
5.5	δ-BHC (319-86-8)			Ø	Concentration Mass						
5.6	Chlordane (57-74-9)			Ø	Concentration Mass						
5.7	4,4'-DDT (50-29-3)			Ø	Concentration Mass						
5.8	4,4'-DDE (72-55-9)			Ø	Concentration Mass						
5.9	4,4'-DDD (72-54-8)			Ø	Concentration Mass						
5.10	Dieldrin (60-57-1)			Ø	Concentration Mass						
5.11	α-endosulfan (115-29-7)			Ø	Concentration Mass						

EPA Identification Number NPDES Permit Number Facility Name Outfall Number OMB No. 2040-0004
ALD000737536 AL0040100 Messer LLC Expires 07/31/2026

	E B. TOXIC METALS, CYANIDE	Presence or Absence (check one)		or Absence		1971	Efflu	uent			take tional)
	Pollutant/Parameter (and CAS Number, if available)	Testing Required	Believed Present	Believed Absent	Units (specify)	Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses
5.12	β-endosulfan (115-29-7)			V	Concentration Mass						
5.13	Endosulfan sulfate (1031-07-8)			Ø	Concentration Mass						
5.14	Endrin (72-20-8)			Ø	Concentration Mass						
5.15	Endrin aldehyde (7421-93-4)			Ø	Concentration Mass						
5.16	Heptachlor (76-44-8)				Concentration Mass						
5.17	Heptachlor epoxide (1024-57-3)			Ø	Concentration Mass						
5.18	PCB-1242 (53469-21-9)			Ø	Concentration Mass						
5.19	PCB-1254 (11097-69-1)			Ø	Concentration Mass						
5.20	PCB-1221 (11104-28-2)			Ø	Concentration Mass						
5.21	PCB-1232 (11141-16-5)			V	Concentration Mass						
5.22	PCB-1248 (12672-29-6)			Ø	Concentration Mass						
5.23	PCB-1260 (11096-82-5)			Ø	Concentration Mass						
5.24	PCB-1016 (12674-11-2)			Ø	Concentration Mass						

	EPA Identification Number ALD000737536		ermit Number 40100		Facility Name Messer LLC	Outfall Number					No. 2040-0004 es 07/31/2026
TABL	E B. TOXIC METALS, CYANIDE	, TOTAL PHE	NOLS, AND	ORGANIC T	OXIC POLLUTANTS (40	CFR 122.21(g)(7)	(v)) ¹				
				or Absence ck one)			Effluent			Intake (optional)	
	Pollutant/Parameter (and CAS Number, if available)		Believed Absent	Units (specify)	Maximum Daily Discharge (required)	Maximum Monthly Discharge (if available)	Long-Term Average Daily Discharge (if available)	Number of Analyses	Long- Term Average Value	Number of Analyses	
E 0E	Toxaphene		П	Ø	Concentration						
5.25	(8001-35-2)				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).

Form 2F NPDES



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

NPDES		CFA	STORMW	ATER DISCHARGE	S ASSOCIATED WITH IND	USTRIAL ACTIVI	TY						
SECTIO	A STATE OF THE PARTY OF THE PAR		TION (40 CFR 122.2		E William Land		11.13.1						
	1.1		ormation on each of t	he facility's outfalls in	the table below								
		Outfall Number	Receiving Water I	Name	Latitude	Longitude							
Outfall Location		DSN001S	UT to the Tennesse	e River	34 deg 48' 20.4" N		56' 14.8" W						
	N 2. IMP	ROVEMENT	S (40 CFR 122.21(G)	0(6))									
	2.1	MPROVEMENTS (40 CFR 122.21(G)(6)) Are you presently required by any federal, state, or local authority to meet an implementation schedule for constructing, upgrading, or operating wastewater treatment equipment or practices or any other environmental programs that could affect the discharges described in this application? ☐ Yes ☑ No → SKIP to Section 3.											
	2.2	Briefly ider	ntify each applicable p	project in the table belo	OW.								
		Deinf	Identification and	Affected Outfalls			mpliance ites						
			ription of Project	(list outfall numbers)	Source(s) of Discharge	Required	Projected						
Improvements							(v)						
	2.3	Have you projects th	nat may affect your dis	cribing any additional vscharges) that you now	vater pollution control programs v have underway or planned? (o	(or other environme optional item)	ental						

	dentificatio		NPDES Permit Number	Facility		OMB No. 2040-0004 Expires 07/31/2026
	D00073		AL0040100	Messe	er LLC	
Drainage Nap	2.4		MAP (40 CFR 122.26(C)(1)(I)(ached a site drainage map corance.)	THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	rmation to this application?	(See instructions for
ECTIO	N 4. PO	LLUTANT SOL	JRCES (40 CFR 122.26(C)(1)(l)(B))		
111	4.1	Provide infor	mation on the facility's pollutar	nt sources in the table b	elow.	
		Outfall Number	Impervious Surfac (within a mile radius of t	he facility)	Total Surface Area (within a mile radius of	the facility)
		DSN001S	87800	specify units	103500	specify units
				specify units		specify units
				specify units		specify units
	·			specify units		specify units
				specify units		specify units
				specify units		specify units
Pollutant Sources		Daily operati Designated lo Herbicide is a Pesticide is a	ese materials varies from dike ons inspection rounds, monthl bading and unloading areas. applied quarterly to gravel (not pplied monthly inside storage	y PM activities, spill kits npaved) areas. buildings.	s available.	
	4.3		location and a description of exer runoff. (See instructions for s	specific guidance.)		es to reduce politicarits
		1	T	Stormwater Treatm	ent	Codes
		Outfall Number		Control Measures and	Treatment	from Exhibit 2F-1 (list)
		DSN001S	Secondary Containment - da	4-A		
			Dike wall - daily visual inspec	ctions, waste vendor dis	sposal	4-A
			Buildings and Roofs - daily v	isual inspections, répair	s as needed	4-A
			Double wall tanks - daily visu	ual inspections, waste v	endor as needed	4-A
			Employee training & Housek	keeping		NA
			Preventative maintenance -	daily, monthly, yearly P	PM activities	NA

EPA	EPA Identification Number	n Number	NPDES Permit Number	Facility I	Name	OMB No. 2040-0004
A	LD00073	7536	AL0040100	Messe	r LLC	Expires 07/31/2026
SECTIO	ON 5. NO	N STORMWA	TER DISCHARGES (40 CFR 122.26(C)(1)	(I)(C))		
	5.1	I certify und presence of discharges	following certification. (See instructions to der penalty of law that the outfall(s) cover f non-stormwater discharges. Moreover, are described in either an accompanying N	red by this a I certify that	oplication have been tes the outfalls identified as 2C, 2D, or 2E application	sted or evaluated for the shaving non-stormwater
es		Name (print	or type first and last name) .	Official title Zone Production Mar	nager	
		Signature Phil	lip Jamison	Date signed 10/03/2025		
harg	5.2	Provide the	testing information requested in the table to	pelow.		
Non-Stormwater Discharges		Outfall Number	Description of Testing Method L	Jsed	Date(s) of Testing	Onsite Drainage Points Directly Observed During Test
		DSN01AS	5210B, 2540D, 8000, 4500NH3, 5310C,	351.2, 4500F	09/24/2025	See Form 2C
SECTION	ON 6. SIG	NIFICANT LE	AKS OR SPILLS (40 CFR 122.26(C)(1)(I)	(D))		LEVINE WELL
Significant Leaks or Spills	6.1	Describe an	ny significant leaks or spills of toxic or haza	rdous polluta	nts in the last three year	S.
			ORMATION (40 CFR 122.26(C)(1)(I)(E))			
ion	comple	te. Not all app	to determine the pollutants and parameters blicants need to complete each table.	you are requ	uired to monitor and, in to	urn, the tables you must
rmat	7.1		w source or new discharge? → See instructions regarding submission	of !	No → See instructions re	egarding submission of
charge Information			nated data.		actual data.	ogarang addinidation of
arge		A, B, C, and				
chi	7.2	Have you o	ompleted Table A for each outfall?			

✓ Yes

EPA I	dentification	Number	NPDES Permit Number	Facil	ity Name	OMB No. 2040-0004
А	LD000737	7536	AL0040100	Mes	sser LLC	Expires 07/31/2026
	7.3	Is the facilit process wa	y subject to an effluent limitation guid stewater?	deline (ELG) or e	ffluent limitations in a	n NPDES permit for its
	-	☐ Yes		V	No → SKIP to Item	7.5.
	7.4		ompleted Table B by providing quan an ELG and/or (2) subject to effluer ?			
		☐ Yes				
	7.5	Do you kno	w or have reason to believe any poli	utants in Exhibit	2F-2 are present in the	ne discharge?
		✓ Yes			No → SKIP to Item	
	<u>7.6</u>		sted all pollutants in Exhibit 2F–2 that ed quantitative data or an explanation			are present in the discharge
		✓ Yes				
To divid	7.7	Do you qua	lify for a small business exemption u	inder the criteria	specified in the Instruc	ctions?
		☐ Yes	→SKIP to Item 7.18.	✓	No	
Pa	7.8	Do you kno	w or have reason to believe any poll	utants in Exhibit	2F-3 are present in the	ne discharge?
ontinu		☐ Yes		✓	No → SKIP to Item	7.10.
Discharge Information Continued	7.9	Have you li Table C?	sted all pollutants in Exhibit 2F–3 tha	at you know or ha	ave reason to believe	are present in the discharge in
Infor		☐ Yes				
Jarge	7.10	Do you exp	ect any of the pollutants in Exhibit 2f	-3 to be dischar	ged in concentrations	of 10 ppb or greater?
Discl		☐ Yes		V	No → SKIP to Item	7.12.
	7.11		rovided quantitative data in Table C ations of 10 ppb or greater?	for those pollutar	nts in Exhibit 2F–3 tha	at you expect to be discharged
	-	☐ Yes				
	7.12		ect acrolein, acrylonitrile, 2,4-dinitro ons of 100 ppb or greater?	phenol, or 2-meth	nyl-4,6-dinitrophenol to	be discharged in
		☐ Yes		\checkmark	No → SKIP to Item	7.14.
	7.13	Have you p	provided quantitative data in Table C in concentrations of 100 ppb or great	for the pollutants	identified in Item 7.1	2 that you expect to be
		☐ Yes				
	7.14	Have you p	provided quantitative data or an explant concentrations less than 10 ppb (concentrations)	anation in Table (or less than 100 p	C for pollutants you expo for the pollutants i	spect to be present in the dentified in Item 7.12)?
		✓ Yes				
	7.15	Do you kno	w or have reason to believe any pol	lutants in Exhibit	2F-4 are present in the	ne discharge?
		☐ Yes			No → SKIP to Item	n 7.17.

EPA	Identification	on Number	NPDES	Permit Number	Facility N	ame	OMB No. 2040-0004				
	ALD00073	37536	AL	.0040100	Messer	LLC	Expires 07/31/2026				
	7.16	Have you list explanation Yes		in Exhibit 2F-4 that you	know or believe to	be present in the o	discharge and provided an				
D	7.17	Have you pr	ovided informa	ation for the storm event	(s) sampled in Tab	ole D?					
Continue		✓ Yes			(-)	,					
ion	Used	or Manufactur	ed Toxics								
Discharge Information Continued	7.18	manufacture	d as an interme	chibits 2F-2 through 2F- ediate or final product or	byproduct?						
rge		☐ Yes			V	No → SKIP to S					
Discha	7.19	List the pollut	tants below, in	cluding TCDD if applical 4.	ole. Attach addition	nal sheets, if necess	sary.				
		0				0					
		2.		5.		8.					
		3.		6.		9.					
SECTION	ON 8 BIC	O OGICAL TO	XICITY TESTI	NG DATA (40 CFR 122	21(G)(11))						
g Data	8.1	Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last three years?									
Biological Toxicity Testing Data											
	8.2	Identify the tests and their purposes below. Submitted to NPDES Description									
xicit		T	est(s)	Purpose of T		ermitting Authority?	Date Submitted				
170						Yes No					
ogica						Yes No					
Biok						res 🗀 NO					
						Yes No					
SECTI	ON 9. CO	NTRACT ANA	LYSIS INFOR	MATION (40 CFR 122.2	21(G)(12))		ALTER HARRY IN				
	9.1	Were any of consulting fir	m?	eported in Section 7 (in	Tables A through	C) performed by a control No → SKIP to S					
	9.2	Provide infor	mation for eac	h contract laboratory or	consulting firm he	low					
atior	0.2	Provide inion	THATION TO CAC	Laboratory Nu		Laboratory Number	2 Laboratory Number 3				
Contract Analysis Information		Name of labo	oratory/firm	Southern Environm Testing							
		Laboratory a	ddress	PO Box 487 3103 Northington (Court						
Contr		Phone numb	er	(256) 740-5532							
		Pollutant(s) a	analyzed	Listed in Table A							
	-1	1									

EPA Identification Number	NPDES Permit Number	Facility Name	OMB No. 2040-0004
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SECTIO	N 10. C	HECKLIST AND CERTIFICATI	ON STATEMENT (40 CFR 122.2	2(A) AND (D))					
	10.1	For each section, specify in C	sections of Form 2F that you hav column 2 any attachments that you wired to complete all sections or p	e completed and are submitting with your application. u are enclosing to alert the permitting authority. Note provide attachments.					
		Column 1		Column 2					
		Section 1	w/ attachments (e.g., re	sponses for additional outfalls)					
		Section 2	□ w/ attachments						
		Section 3	w/ site drainage map						
		Section 4	□ w/ attachments						
		Section 5	□ w/ attachments						
		Section 6	□ w/ attachments						
ment		Section 7	✓ Table A	w/ small business exemption request					
State			☐ Table B [w/ analytical results as an attachment					
cation			✓ Table C	Z Table D					
Certifi		Section 8	□ w/ attachments						
Checklist and Certification Statement		Section 9	w/ attachments (e.g., re	sponses for additional contact laboratories or firms)					
cklis		Section 10							
S.	10.2	Provide the following certification. (See instructions to determine the appropriate person to sign the application.)							
		Certification Statement							
		in accordance with a system submitted. Based on my inqui for gathering the information,	designed to assure that qualified iry of the person or persons who n the information submitted is, to ti are are significant penalties for sul	ments were prepared under my direction or supervision personnel properly gather and evaluate the information nanage the system or those persons directly responsible the best of my knowledge and belief, true, accurate, and bmitting false information, including the possibility of fine					
		Name (print or type first and I	ast name)	Official title					
		Phillip Jamison		Zone Production Manager					
		Signature		Date signed					
		Phillip Jamison		10/03/2025					

r		NDDEO D. WHILL	F The Marian	0.4-810	0.45.4. 0040 0004
I	EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number	OMB No. 2040-0004
ł		40.4200000			Expires 07/31/2026
1	ALD000737536	AL0040100	Messer LLC		Expired of the trace

TABLE A. CONVENTIONAL AND NON CONVENTIONAL PARAMETERS (40 CFR 122.26(C)(1)(I)(E)(3))1 You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details and requirements. Maximum Daily Discharge **Average Daily Discharge** Source of (specify units) (specify units) Information **Number of Storm** Pollutant or Parameter Grab Sample Taken **Grab Sample Taken** (new source/new **Events Sampled** Flow-Weighted Flow-Weighted **During First During First** dischargers only; use Composite Composite codes in instructions) 30 Minutes 30 Minutes Oil and grease <5.00 mg/l Biochemical oxygen demand (BOD₅) 6.28 mg/l Chemical oxygen demand (COD) 46.0 mg/l Total suspended solids (TSS) 11.2 mg/l Total phosphorus 0.284 mg/l Total Kjeldahl nitrogen (TKN) 6.57 mg/l Total nitrogen (as N) 11.9 mg/l pH (minimum) 7.11 8. pH (maximum) 7.11

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

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EPA Identification Number	NPDES Permit Number	Facility Name	Outfall Number	OMB No. 2040-0004
ALD000737536	AL0040100	Messer LLC		Expires 07/31/2026

TABLE B. CERTAIN CONVENTIONAL AND NON CONVENTIONAL POLLUTANTS (40 CFR 122.26(C)(1)(I)(E)(4) AND 40 CFR 122.21(G)(7)(VI)(A))1

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

Pollutant and CAS Number (if available)	Maximum Dail (specify	ly Discharge units)	Average Daily (specify	/ Discharge units)	Number of Storm	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Events Sampled	
				r		
				V-148-		
-						
		and the second s				
E						

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

EPA Form 3510-2F

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EPA Identification Num	ber NPDES Permit Number	Facility Name	Outfall Number	OMB No. 2040-0004
ALD000737536	AL0040100	MesserIIC		Expires 07/31/2026

TABLE C. TOXIC POLLUTANTS, CERTAIN HAZARDOUS SUBSTANCES, AND ASBESTOS (40 CFR 122.26(C)(1)(I)(E)(4) AND 40 CFR 122.21(G)(7)(VI)(B) AND (VII))1

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

Dellistent and CAS Number	Maximum Daily Discharge (specify units)		Average Daily (specify	/ Discharge units)		Source of Information
Pollutant and CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Number of Storm Events Sampled	(new source/new dischargers only; use codes in instructions)
Nitrogen (as N)	11.9 mg/l	ati	-			

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. STORM EVENT INFORMATION (40 CFR 122.26(C)(1)(I)(E)(6))

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

Date of Storm Event	Duration of Storm Event (in hours)	Total Rainfall During Storm Event (in inches)	Number of Hours Between Beginning of Storm Measured and End of Previous Measurable Rain Event	Maximum Flow Rate During Rain Event (in gpm or specify units)	Total Flow from Rain Event (in gallons or specify units)
09/24/2025					
	3 hours	3 in	N/A	45,000 g/h	135,000 G

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

Calculated using historical rain amounts obtained online per hour and the square footage of facility.

EPA Form 3510-2F



STABREX™ ST70

Section: 1. PRODUCT AND COMPANY IDENTIFICATION

Product name

: STABREX™ ST70

Other means of identification : Not applicable.

Restrictions on use

Refer to available product literature or ask your local Sales Representative for

restrictions on use and dose limits.

Company

Nalco Company

1601 W. Diehl Road

Naperville, Illinois 60563-1198

USA

TEL: (630) 305-1000

Emergency telephone

number

(800) 424-9300 (24 Hours)

CHEMTREC

Issuing date

: 09/11/2019

Section: 2. HAZARDS IDENTIFICATION

GHS Classification

Acute toxicity (Oral)

Acute toxicity (Inhalation) Skin corrosion

Serious eye damage

Category 4

Category 4 Category 1 Category 1

GHS Label element

Hazard pictograms



Signal Word

Danger

Hazard Statements

Harmful if swallowed or if inhaled

Causes severe skin burns and eye damage.

Precautionary Statements

Prevention:

Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Wear protective gloves/

protective clothing/ eye protection/ face protection.

Response:

IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel

unwell. Rinse mouth. 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. Immediately call a POISON CENTER/doctor. 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 or doctor/ physician.

Disposal:

Dispose of contents/ container to an approved waste disposal plant.

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Other hazards None known.

Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture Mixture

Chemical Name CAS-No. Concentration: (%) Sodium Bromide 7647-15-6 9.23 Sodium Hypochlorite 7681-52-9 6.36 Sodium Chloride 7647-14-5 1 - 5 Sodium Hydroxide 1310-73-2 1 - 5

Section: 4. FIRST AID MEASURES

In case of eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Get medical attention immediately.

In case of skin contact Wash off immediately with plenty of water for at least 15 minutes. Use a mild

soap if available. Wash clothing before reuse. Thoroughly clean shoes before

reuse. Get medical attention immediately.

If swallowed : Rinse mouth with water. Do NOT induce vomiting. Never give anything by

mouth to an unconscious person. Get medical attention immediately.

If inhaled Remove to fresh air. Treat symptomatically. Get medical attention.

Protection of first-aiders In event of emergency assess the danger before taking action. Do not put

yourself at risk of injury. If in doubt, contact emergency responders. Use

personal protective equipment as required.

Notes to physician Treat symptomatically.

Most important symptoms

and effects, both acute and

delayed

: See Section 11 for more detailed information on health effects and symptoms.

Section: 5. FIREFIGHTING MEASURES

Use extinguishing measures that are appropriate to local circumstances and the Suitable extinguishing media

surrounding environment.

Unsuitable extinguishing

media

None known.

Specific hazards during

firefighting

Not flammable or combustible.

for firefighters

Special protective equipment : Use personal protective equipment.

Specific extinguishing

methods

: Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not

breathe fumes.

Section: 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.

Environmental precautions

This product is toxic to fish and other aquatic organisms. It is not to be used in circumstances that would cause or allow it to enter lakes, streams, ponds, estuaries, oceans or other waters in contravention of federal or provincial regulatory requirements. DO NOT discharge effluent containing this product into sewer systems without previously notifying the sewage treatment plant authority. The requirements of applicable laws should be determined before using the product.

Methods and materials for containment and cleaning up

Clean-up methods - small spillage Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Clean-up methods - large spillage For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Flush away traces with water. Contact an approved waste hauler for disposal of contaminated recovered material. Dispose of material in compliance with regulations indicated in Section 13 (Disposal Considerations).

Section: 7. HANDLING AND STORAGE

Advice on safe handling : Do not ingest. Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in

eyes, on skin, or on clothing. Wash hands thoroughly after handling. Use only with adequate ventilation. Mixing this product with acid or ammonia releases

chlorine gas.

Conditions for safe storage : Do not store near acids. Keep out of reach of children. Keep container tightly

closed. Store in suitable labelled containers.

Suitable material : The following compatibility data is suggested based on similar product data

and/or industry experience: Polyethylene, Polypropylene, Compatibility with Plastic Materials can vary; we therefore recommend that compatibility is tested prior to use. HDPE (high density polyethylene), Neoprene, PVC, Polyurethane,

Chlorosulfonated polyethylene rubber, Fluoroelastomer

Unsuitable material : The following compatibility data is suggested based on similar product data

and/or industry experience: Brass, Buna-N, EPDM, Stainless Steel 316L, Stainless Steel 304, 100% phenolic resin liner, Epoxy phenolic resin, Mild steel

Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Form of exposure	Permissible concentration	Basis
Sodium Hypochlorite	7681-52-9	STEL	2 mg/m3	AIHA WEEL

STABREX™ ST70

Sodium Hydroxide	1310-73-2	Ceiling	2 mg/m3	ACGIH
		Ceiling	2 mg/m3	NIOSH REL
		TWA	2 mg/m3	OSHA Z1

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations below

occupational exposure standards.

Personal protective equipment

Eye protection : Safety goggles

Face-shield

Hand protection : Wear the following personal protective equipment:

butyl-rubber Neoprene gloves Nitrile rubber

Gloves should be discarded and replaced if there is any indication of

degradation or chemical breakthrough.

Skin protection : Personal protective equipment comprising: suitable protective gloves, safety

goggles and protective clothing

Respiratory protection : When workers are facing concentrations above the exposure limit they must use

appropriate certified respirators.

Combined particulates and inorganic gas/vapour type

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Remove

and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Liquid

Colour : light yellow
Odour : odourless
Flash point : Not applicable.

pH : 13.0

Odour Threshold : no data available

Melting point/freezing point : -8.2 °C, ASTM D-1177

Initial boiling point and boiling :

range

no data available

Evaporation rate : no data available
Flammability (solid, gas) : no data available
Upper explosion limit : no data available
Lower explosion limit : no data available

Vapour pressure : 7.7 mm Hg, (25 °C), ASTM D 2879-86,

27 mm Hg, (46 °C), ASTM D 2879-86,

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Relative vapour density : no data available

Relative density 1.305 - 1.380, (25 °C), ASTM D-1298

Density 11.0 - 11.3 lb/gal Water solubility completely soluble Solubility in other solvents no data available Partition coefficient: n-: no data available

octanol/water

Auto-ignition temperature : no data available Thermal decomposition : no data available

: 7 mPa.s Viscosity, dynamic

Viscosity, kinematic no data available Molecular weight : no data available VOC 0 %, EPA Method 24

Section: 10. STABILITY AND REACTIVITY

Reactivity No dangerous reaction known under conditions of normal use.

Chemical stability Stable under normal conditions.

Possibility of hazardous

reactions

Mixing this product with acid or ammonia releases chlorine gas.

Conditions to avoid Avoid extremes of temperature.

Heat and light which can accelerate decomposition.

Freezing temperatures.

Incompatible materials : None known.

Section: 11. TOXICOLOGICAL INFORMATION

exposure

Information on likely routes of : Inhalation, Eye contact, Skin contact

Potential Health Effects

Eyes : Causes serious eye damage.

Skin : Causes severe skin burns.

: Harmful if swallowed. Causes digestive tract burns. Ingestion

Harmful if inhaled. May cause nose, throat, and lung irritation. Inhalation

: Health injuries are not known or expected under normal use. Chronic Exposure

Experience with human exposure

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Eye contact : Redness, Pain, Corrosion

Skin contact : Redness, Pain, Corrosion

Ingestion : Corrosion, Abdominal pain

Inhalation : Respiratory irritation, Cough

Toxicity

Product

Acute oral toxicity : LD50 rat: 1,500 mg/kg

Acute inhalation toxicity : no data available

Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg

Skin corrosion/irritation : Species: rabbit

Result: 7.9

Method: Draize Test

Test substance: Similar Product

Serious eye damage/eye

irritation

: Species: rabbit Result: Corrosive

Method: Draize Test

Test substance: Similar Product

Respiratory or skin

sensitization

: no data available

Carcinogenicity : no data available
Reproductive effects : no data available
Germ cell mutagenicity : no data available
Teratogenicity : no data available
STOT - single exposure : no data available
STOT - repeated exposure : no data available

Aspiration toxicity : no data available

Section: 12. ECOLOGICAL INFORMATION

Ecotoxicity

Environmental Effects : Toxic to aquatic life.

Product

Toxicity to fish : LC50 Oncorhynchus mykiss (rainbow trout): 4.5 mg/l

Exposure time: 96 hrs Test substance: Product

LC50 Cyprinodon variegatus (sheepshead minnow): 16 mg/l

Exposure time: 96 hrs Test substance: Product

LC50 Pimephales promelas (fathead minnow): 8.3 mg/l

Exposure time: 96 hrs Test substance: Product

NOEC Oncorhynchus mykiss (rainbow trout): 1.3 mg/l

Exposure time: 96 hrs Test substance: Product

NOEC Cyprinodon variegatus (sheepshead minnow): 8 mg/l

Exposure time: 96 hrs Test substance: Product

NOEC Pimephales promelas (fathead minnow): 3.6 mg/l

Exposure time: 96 hrs Test substance: Product

LC50 Pimephales promelas (fathead minnow): 7.1 mg/l

Exposure time: 48 hrs Test substance: Product

NOEC Pimephales promelas (fathead minnow): 5.0 mg/l

Exposure time: 48 hrs Test substance: Product

Toxicity to daphnia and other aquatic invertebrates

: LC50 Daphnia magna (Water flea): 4.3 mg/l

Exposure time: 48 hrs Test substance: Product

LC50 Mysid Shrimp (Mysidopsis bahia): 27 mg/l

Exposure time: 96 hrs Test substance: Product

LC50 Ceriodaphnia dubia: 1.6 mg/l

Exposure time: 48 hrs Test substance: Product

EC50 Daphnia magna (Water flea): 4.2 mg/l

Exposure time: 48 hrs Test substance: Product

NOEC Daphnia magna (Water flea): 2.2 mg/l

Exposure time: 48 hrs
Test substance: Product

NOEC Mysid Shrimp (Mysidopsis bahia): 13 mg/l

Exposure time: 96 hrs Test substance: Product

NOEC Ceriodaphnia dubia: 0.63 mg/l

Exposure time: 48 hrs Test substance: Product

Toxicity to algae

: LC50 Green Algae (Pseudokirchneriella subcapitata, previously Selenastrum capricornutum): 3.66 mg/l

Exposure time: 72 hrs

Test substance: Product

NOEC Green Algae (Pseudokirchneriella subcapitata, previously Selenastrum capricornutum): 2.5 mg/l

Exposure time: 72 hrs
Test substance: Product

Toxicity to fish (Chronic

toxicity)

: EC25 / IC25: 3.34 mg/l Exposure time: 7 Days Species: Fathead Minnow Test substance: Product

LOEC: 5 mg/l

Exposure time: 7 Days Species: Fathead Minnow Test substance: Product

NOEC: 2.5 mg/l Exposure time: 7 Days Species: Fathead Minnow Test substance: Product

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: EC25 / IC25: 15.6 mg/l Species: Ceriodaphnia dubia Test substance: Product Test Type: 3 Brood

NOEC: 2.5 mg/l

Species: Ceriodaphnia dubia Test substance: Product Test Type: 3 Brood

LOEC: 5.0 mg/l

Species: Ceriodaphnia dubia Test substance: Product Test Type: 3 Brood

NOEC: 20.0 mg/l

Species: Ceriodaphnia dubia Test substance: Product Test Type: 3 Brood

LOEC: 40.0 mg/l

Species: Ceriodaphnia dubia Test substance: Product Test Type: 3 Brood

Persistence and degradability

Chemical Oxygen Demand (COD): 89,900 mg/l

Biochemical Oxygen Demand (BOD): This material is an oxidizing biocide and is not expected to persist in the environment.

Mobility

The environmental fate was estimated using a level III fugacity model embedded in the EPI (estimation program interface) Suite TM, provided by the US EPA. The model assumes a steady state condition between the total input and output. The level III model does not require equilibrium between the defined media. The information provided is intended to give the user a general estimate of the environmental fate of this product under the defined conditions of the models

If released into the environment this material is expected to distribute to the air, water and soil/sediment in the approximate respective percentages;

Air Water : <5%

Soil

: 30 - 50% : 30 - 50%

The portion in water is expected to be soluble or dispersible.

Bioaccumulative potential

This preparation or material is not expected to bioaccumulate.

Other information

no data available

Section: 13. DISPOSAL CONSIDERATIONS

If this product becomes a waste, it could meet the criteria of a hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Before disposal, it should be determined if the waste meets the criteria of a hazardous waste.

Hazardous Waste:

: D002

Disposal methods

: The product should not be allowed to enter drains, water courses or the soil. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in

an approved waste disposal facility.

Disposal considerations

: Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or

disposal. Do not re-use empty containers.

Section: 14. TRANSPORT INFORMATION

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (DOT)

Proper shipping name

: SODIUM HYDROXIDE SOLUTION

Technical name(s) UN/ID No.

: UN 1824

Transport hazard class(es)

: 8

Packing group

: 11

Reportable Quantity (per

: 15,625 lbs

STABREX™ ST70

package)

RQ Component : Sodium Hydroxide

Air transport (IATA)

Proper shipping name Technical name(s)

: SODIUM HYDROXIDE SOLUTION

UN/ID No.

: UN 1824

Transport hazard class(es)

: 8

Packing group

: 11

Reportable Quantity (per

: 15,625 lbs

package)

RQ Component : Sodium Hydroxide

Sea transport (IMDG/IMO)

Proper shipping name Technical name(s)

: SODIUM HYDROXIDE SOLUTION

UN/ID No. : UN 1824

Transport hazard class(es) : 8
Packing group : II

Section: 15. REGULATORY INFORMATION

TSCA list : No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification

requirements.

EPA Reg. No. : 1706-179

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Sodium Hydroxide	1310-73-2	1000	15625

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Acute toxicity (any route of exposure)

Skin corrosion or irritation

Serious eye damage or eye irritation

SARA 302 : No chemicals in this material are subject to the reporting requirements

of SARA Title III, Section 302.

SARA 313 : This material does not contain any chemical components with known

CAS numbers that exceed the threshold (De Minimis) reporting levels

established by SARA Title III, Section 313.

California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

INTERNATIONAL CHEMICAL CONTROL LAWS:

United States TSCA Inventory

This product is exempted under TSCA and regulated under FIFRA. The inerts are on the Inventory List.

Canadian Domestic Substances List (DSL)

Substances regulated under the Pest Control Products Act are exempt from CEPA New Substance Notification requirements.

Japan. ENCS - Existing and New Chemical Substances Inventory

All substances in this product comply with the Law Regulating the Manufacture and Importation Of Chemical Substances and are listed on the Existing and New Chemical Substances list (ENCS).

Korea. Korean Existing Chemicals Inventory (KECI)

All substances in this product comply with the Chemical Control Act (CCA) and are listed on the Existing Chemicals List (ECL)

Philippines Inventory of Chemicals and Chemical Substances (PICCS)

All substances in this product comply with the Republic Act 6969 (RA 6969) and are listed on the Philippines Inventory of Chemicals & Chemical Substances (PICCS).

China Inventory of Existing Chemical Substances

All substances in this product comply with the Provisions on the Environmental Administration of New Chemical Substances and are listed on or exempt from the Inventory of Existing Chemical Substances China (IECSC).

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand

All substances in this product comply with the Hazardous Substances and New Organisms (HSNO) Act 1996, and are listed on or are exempt from the New Zealand Inventory of Chemicals.

Australia. Industrial Chemical (Notification and Assessment) Act

All substances in this product comply with the National Industrial Chemicals Notification & Assessment Scheme (NICNAS).

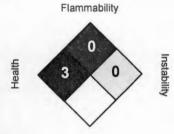
Taiwan Chemical Substance Inventory

All substances in this product comply with the Taiwan Existing Chemical Substances Inventory (ECSI).

Section: 16. OTHER INFORMATION

STABREX™ ST70

NFPA:



Special hazard.

HMIS III:

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight, 2 = Moderate, 3 = High 4 = Extreme, * = Chronic

Revision Date Version Number : 09/11/2019

: 1.6

Prepared By : Re

: Regulatory Affairs

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. For additional copies of an SDS visit www.nalco.com and request access.



3D TRASAR™ 3DT231

Section: 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : 3D TRASAR™ 3DT231

Other means of identification : Not applicable.

Recommended use : COOLING WATER TREATMENT

Restrictions on use : Refer to available product literature or ask your local Sales Representative for

restrictions on use and dose limits.

Company : Nalco Company

1601 W. Diehl Road

Naperville, Illinois 60563-1198

USA

TEL: (630)305-1000

Emergency telephone

number

(800) 424-9300 (24 Hours) CHEMTREC

Issuing date : 06/16/2016

Section: 2. HAZARDS IDENTIFICATION

GHS Classification

Skin corrosion : Category 1A

Serious eye damage : Category 1

GHS Label element
Hazard pictograms

Signal Word : Danger

Hazard Statements : Causes severe skin burns and eye damage.

Precautionary Statements : Prevention:

Wash skin thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/ face protection. Do not mix with bleach or other chlorinated

products - will cause chlorine gas.

Response:

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. IF INHALED: Remove victim to fresh air and keep at rest in a position 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 or doctor/ physician. Wash contaminated

clothing before reuse.

Storage: Store locked up. Disposal:

3D TRASAR™ 3DT231

Dispose of contents/ container to an approved waste disposal plant.

Other hazards : None known.

Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical NameCAS-No.Concentration: (%)Phosphoric Acid7664-38-21 - 5Sulfuric Acid7664-93-91 - 5Substituted aromatic amineProprietary1 - 5

Section: 4. FIRST AID MEASURES

In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Get medical attention immediately.

In case of skin contact : Wash off immediately with plenty of water for at least 15 minutes. Use a mild

soap if available. Wash clothing before reuse. Thoroughly clean shoes before

reuse. Get medical attention immediately.

If swallowed : Rinse mouth with water. Do NOT induce vomiting. Never give anything by

mouth to an unconscious person. Get medical attention immediately.

If inhaled : Remove to fresh air. Treat symptomatically. Get medical attention if symptoms

occur

Protection of first-aiders : In event of emergency assess the danger before taking action. Do not put

yourself at risk of injury. If in doubt, contact emergency responders. Use

personal protective equipment as required.

Notes to physician : Treat symptomatically.

Most important symptoms

and effects, both acute and

delayed

See Section 11 for more detailed information on health effects and symptoms.

Section: 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the

surrounding environment.

Unsuitable extinguishing

media

None known.

Specific hazards during

firefighting

Not flammable or combustible.

Hazardous combustion

products

Carbon oxides

Special protective equipment:

for firefighters

Use personal protective equipment.

3D TRASAR™ 3DT231

Specific extinguishing methods

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

Section: 6. ACCIDENTAL RELEASE MEASURES

Personal precautions. protective equipment and emergency procedures

: Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.

Environmental precautions

: Do not allow contact with soil, surface or ground water.

Methods and materials for containment and cleaning up Stop leak if safe to do so. Contain spillage, and then collect with noncombustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

Section: 7. HANDLING AND STORAGE

Advice on safe handling

Do not ingest. Do not breathe dust/fume/gas/mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Wash hands thoroughly after handling. Use only with adequate ventilation. Do not mix with bleach or other chlorinated products will cause chlorine gas.

Conditions for safe storage

Keep away from strong bases. Keep out of reach of children. Keep container

tightly closed. Store in suitable labeled containers.

Suitable material

The following compatibility data is suggested based on similar product data and/or industry experience: Shipping and long term storage compatibility with construction materials can vary; we therefore recommend that compatibility is tested prior to use.

Unsuitable material

: not determined

Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Form of exposure	Permissible concentration	Basis
Phosphoric Acid	7664-38-2	TWA	1 mg/m3	ACGIH
		STEL	3 mg/m3	ACGIH
		TWA	1 mg/m3	NIOSH REL
		STEL	3 mg/m3	NIOSH REL
		TWA	1 mg/m3	OSHA Z1
Sulfuric Acid	7664-93-9	TWA (Thoracic fraction)	0.2 mg/m3	ACGIH
		TWA	1 mg/m3	NIOSH REL
		TWA	1 mg/m3	OSHA Z1

3D TRASAR™ 3DT231

Engineering measures : Effective exhaust ventilation system. Maintain air concentrations below

occupational exposure standards.

Personal protective equipment

Eye protection : Safety goggles

Face-shield

Hand protection : Wear the following personal protective equipment:

Standard glove type.

Gloves should be discarded and replaced if there is any indication of

degradation or chemical breakthrough.

Skin protection : Personal protective equipment comprising: suitable protective gloves, safety

goggles and protective clothing

Respiratory protection : When workers are facing concentrations above the exposure limit they must use

appropriate certified respirators.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Remove

and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling. Provide suitable facilities for quick drenching or flushing of the eyes and body in case of contact or splash hazard.

Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Liquid

Colour : clear Odour : Organic

Flash point : Not applicable.

pH : 1.1

Odour Threshold : no data available

Melting point/freezing point : FREEZING POINT: -4.6 °C, ASTM D-1177

Initial boiling point and boiling :

range

no data available

Evaporation rate : no data available Flammability (solid, gas) : no data available Upper explosion limit : no data available

Lower explosion limit : no data available

Vapour pressure : 9.60 hPa, (0 °C), ASTM D-2879,

30.7 hPa, (20 °C), 72 hPa, (37.8 °C), 180 hPa, (65.6 °C), 706 hPa, (93.3 °C), 1,010 hPa, (103.3 °C),

3D TRASAR™ 3DT231

Relative vapour density : no data available Relative density : 1.13, (15.5 °C),

Density : 9.4 lb/gal

Water solubility : no data available
Solubility in other solvents : no data available
Partition coefficient: n- : no data available

octanol/water

Auto-ignition temperature : no data available
Thermal decomposition : no data available

temperature

Viscosity, dynamic : 4.14 mPa.s (20 °C), Method: ASTM D-445

Viscosity, kinematic : no data available

Molecular weight : no data available

VOC : no data available

Section: 10. STABILITY AND REACTIVITY

Chemical stability : Stable under normal conditions.

Possibility of hazardous

reactions

: Do not mix with bleach or other chlorinated products - will cause chlorine gas.

Conditions to avoid : Extremes of temperature

Incompatible materials : Bases

Contact with strong alkalies (e.g. ammonia and its solutions, carbonates, sodium hydroxide (caustic), potassium hydroxide, calcium hydroxide (lime), cyanide, sulfide, hypochlorites, chlorites) may generate heat, splattering or boiling and

toxic vapors.

Hazardous decomposition

products

Oxides of carbon

Section: 11. TOXICOLOGICAL INFORMATION

Information on likely routes of : Inhalation, Eye contact, Skin contact

exposure

Potential Health Effects

Eyes : Causes serious eye damage.

Skin : Causes severe skin burns.

Ingestion : Causes digestive tract burns.

Inhalation : May cause nose, throat, and lung irritation.

Chronic Exposure : Health injuries are not known or expected under normal use.

3D TRASAR™ 3DT231

Experience with human exposure

Eye contact : Redness, Pain, Corrosion

Skin contact : Redness, Pain, Corrosion

Ingestion : Corrosion, Abdominal pain

Inhalation : Respiratory irritation, Cough

Toxicity

Product

Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg

Acute inhalation toxicity : Acute toxicity estimate: > 40 mg/l

Exposure time: 4 h

Acute dermal toxicity : no data available
Skin corrosion/irritation : no data available
Serious eye damage/eye : no data available

irritation

Respiratory or skin : no data available

sensitization

Carcinogenicity : no data available

Reproductive effects : no data available
Germ cell mutagenicity : no data available
Teratogenicity : no data available
STOT - single exposure : no data available
STOT - repeated exposure : no data available

Aspiration toxicity : no data available

Components

Acute dermal toxicity : Phosphoric Acid

LD50 rabbit: > 2,000 mg/kg Substituted aromatic amine LD50 rabbit: > 10,000 mg/kg

Section: 12. ECOLOGICAL INFORMATION

Ecotoxicity

Environmental Effects : This product has no known ecotoxicological effects.

Product

Toxicity to fish : LC50 Fathead Minnow: 2,387 mg/l

Exposure time: 96 hrs Test substance: Product

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NOEC Fathead Minnow: 1,800 mg/l

Exposure time: 96 hrs Test substance: Product

LC50 Rainbow Trout: 758 mg/l

Exposure time: 96 h
Test substance: Product

NOEC Rainbow Trout: 500 mg/l

Exposure time: 96 h
Test substance: Product

Toxicity to daphnia and other

aquatic invertebrates

: LC50 Ceriodaphnia dubia: 2,208 mg/l

Exposure time: 48 hrs
Test substance: Product

LOEC Ceriodaphnia dubia: 1,800 mg/l

Exposure time: 48 hrs
Test substance: Product

Components

Toxicity to algae

: Phosphoric Acid

EC50 Desmodesmus subspicatus (green algae): > 100 mg/l

Exposure time: 72 h

Persistence and degradability

Total Organic Carbon (TOC): 66,000 mg/l

Chemical Oxygen Demand (COD): 170,000 mg/l

Biochemical Oxygen Demand (BOD):

Incubation Period

Value

Test Descriptor

5 d

3,300 mg/l

Mobility

The environmental fate was estimated using a level III fugacity model embedded in the EPI (estimation program interface) Suite TM, provided by the US EPA. The model assumes a steady state condition between the total input and output. The level III model does not require equilibrium between the defined media. The information provided is intended to give the user a general estimate of the environmental fate of this product under the defined conditions of the models.

If released into the environment this material is expected to distribute to the air, water and soil/sediment in the approximate respective percentages;

Air

: <5%

Water

: 10 - 30% : 70 - 90%

Soil

The portion in water is expected to be soluble or dispersible.

Bioaccumulative potential

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This preparation or material is not expected to bioaccumulate.

Other information

no data available

Section: 13. DISPOSAL CONSIDERATIONS

If this product becomes a waste, it could meet the criteria of a hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Before disposal, it should be determined if the waste meets the criteria of a hazardous waste.

Hazardous Waste: : D002

Disposal methods : Where possible recycling is preferred to disposal or

incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an

approved waste disposal facility.

Disposal considerations : Dispose of as unused product. Empty containers should be

taken to an approved waste handling site for recycling or

disposal. Do not re-use empty containers.

Section: 14. TRANSPORT INFORMATION

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (DOT)

Proper shipping name : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

Technical name(s) : PHOSPHORIC ACID, SULFURIC ACID

UN/ID No. : UN 3264

Transport hazard class(es) : 8
Packing group : III

Reportable Quantity (per : 53,328 lbs

package)

RQ Component : SULFURIC ACID

Air transport (IATA)

Proper shipping name : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

Technical name(s) : PHOSPHORIC ACID, SULFURIC ACID

UN/ID No. : UN 3264

Transport hazard class(es) : 8
Packing group : III

Reportable Quantity (per : 53,328 lbs

package)

RQ Component : SULFURIC ACID

Sea transport (IMDG/IMO)

Proper shipping name : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

3D TRASAR™ 3DT231

Technical name(s) : PHOSPHORIC ACID, SULFURIC ACID

UN/ID No. : UN 3264

Transport hazard class(es) : 8
Packing group : III

Section: 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Sulfuric Acid	7664-93-9	1000	5365

SARA 304 Extremely Hazardous Substances Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Sulfuric Acid	7664-93-9	1000	53645

SARA 311/312 Hazards : Acute Health Hazard

SARA 302 : The following components are subject to reporting levels established

by SARA Title III, Section 302:

Sulfuric Acid 7664-93-9

SARA 313 : The following components are subject to reporting levels established

by SARA Title III, Section 313:

Sulfuric Acid 7664-93-9 1 - 5 %

California Prop 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

INTERNATIONAL CHEMICAL CONTROL LAWS:

TOXIC SUBSTANCES CONTROL ACT (TSCA)

The substances in this preparation are included on or exempted from the TSCA 8(b) Inventory (40 CFR 710)

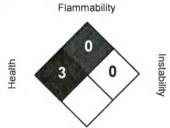
CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA)

The substance(s) in this preparation are included in or exempted from the Domestic Substance List (DSL).

Section: 16. OTHER INFORMATION

3D TRASAR™ 3DT231

NFPA:



Special hazard.

HMIS III:

HEALTH	3
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,

2 = Moderate, 3 = High

4 = Extreme, * = Chronic

Revision Date

: 06/16/2016

Version Number

: 1.3

Prepared By : Regulatory Affairs

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. For additional copies of an SDS visit www.nalco.com and request access.



Via Email

June 22, 2023

Alabama Department of Environmental Management Industrial Section, Water Division
Attn: Theo Pinson
(334) 274 – 4202

RE: Messer LLC, Cherokee AL - NPDES Permit #AL0040100

In accordance with ADEM Administrative Code regulations (335-6-6-.09), this letter serves as notification of delegation of my signature authority to the following two individuals to act as duly authorized representatives able to sign, certify, and submit documents for ADEM-issued permits for the Messer LLC CO2 facility located at 1040 Industrial Dr. Cherokee, AL 35616.

lan Thomas

Production Coordinator

Phillip Jamison

Zone Manager

Best regards,

Samuel Agle Vice President

Samuel Agle

Bulk and On-site Production, North America

Messer Inc.

Mobile: (267) 799-6244

samuel.agle@messer-us.com