



Alabama Department of Environmental Management
adem.alabama.gov

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OCTOBER 13, 2021

PAUL HUBLER, PLANT MANAGER
ISP CHEMICALS LLC REDSTONE
PO BOX 25
HUNTSVILLE AL 35804

**RE: DRAFT PERMIT
NPDES PERMIT NUMBER AL0000345**

Dear Mr. Hubler:

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 are currently utilizing the Department's web-based electronic environmental (E2) reporting system for submittal of discharge monitoring reports (DMRs). Your E2 DMRs will automatically update on the effective date of this permit, if issued.

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 Rachel Lounsberry by e-mail at restanaland@adem.alabama.gov or by phone at (334) 279-3065.

Sincerely,

A handwritten signature in black ink, appearing to be "SR", written over a circular stamp.

Scott Ramsey, Chief
Industrial Section
Industrial/Municipal Branch
Water Division

Enclosure: Draft Permit

pc via website:

Montgomery Field Office
EPA Region IV
U.S. Fish & Wildlife Service
AL Historical Commission
Advisory Council on Historic Preservation
Department of Conservation and Natural Resources





NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT

PERMITTEE: ISP CHEMICALS LLC

FACILITY: ISP CHEMICALS LLC
BUILDING 5565 REDSTONE ARSENAL
HUNTSVILLE, AL 35804

PERMIT NUMBER: AL0000345

RECEIVING WATERS: DSN001: UNNAMED TRIBUTARY TO HUNTSVILLE SPRING BRANCH
DSN002: UNNAMED TRIBUTARY TO HUNTSVILLE SPRING BRANCH
DSN003: UNNAMED TRIBUTARY TO HUNTSVILLE SPRING BRANCH

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

ISSUANCE DATE:

EFFECTIVE DATE:

EXPIRATION DATE:

Draft

**INDUSTRIAL SECTION
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT**

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PART I DISCHARGE LIMITATIONS, CONDITIONS, AND REQUIREMENTS

A. DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS

During the period beginning on the effective date of this permit and lasting through the expiration date of this permit, the permittee is authorized to discharge from the following point source(s) outfall(s), described more fully in the permittee's application:

DSN001Q:Storm water runoff associated with industrial activity. 3/ 4/

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

<u>EFFLUENT CHARACTERISTIC</u>	<u>DISCHARGE LIMITATIONS</u>			<u>MONITORING REQUIREMENTS 1/</u>				
	<u>Monthly Average</u>	<u>Daily Maximum</u>	<u>Daily Minimum</u>	<u>Monthly Average</u>	<u>Daily Maximum</u>	<u>Measurement Frequency 2/</u>	<u>Sample Type</u>	<u>Seasonal</u>
Nitrogen, Total (As N)	-	-	-	-	REPORT mg/l	Quarterly	Grab	-
Iron Total Recoverable 5/	-	-	-	-	REPORT mg/l	Quarterly	Grab	-
Flow, In Conduit or Thru Treatment Plant	-	REPORT MGD	-	-	-	Quarterly	Estimate	-

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

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

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 following point source(s) outfall(s), described more fully in the permittee's application:

DSN001S:Storm water runoff associated with industrial activity. 3/ 4/

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

<u>EFFLUENT CHARACTERISTIC</u>	<u>DISCHARGE LIMITATIONS</u>			<u>MONITORING REQUIREMENTS 1/</u>				
	<u>Monthly Average</u>	<u>Daily Maximum</u>	<u>Daily Minimum</u>	<u>Monthly Average</u>	<u>Daily Maximum</u>	<u>Measurement Frequency 2/</u>	<u>Sample Type</u>	<u>Seasonal</u>
pH	-	-	REPORT S.U.	-	REPORT S.U.	Semi-Annually	Grab	-
Solids, Total Suspended	-	-	-	-	REPORT mg/l	Semi-Annually	Grab	-
Oil & Grease	-	-	-	-	15 mg/l	Semi-Annually	Grab	-
Carbon, Tot Organic (TOC)	-	-	-	-	REPORT mg/l	Semi-Annually	Grab	-
Chemical Oxygen Demand (COD)	-	-	-	-	REPORT mg/l	Semi-Annually	Grab	-

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

During the period beginning on the effective date of this permit and lasting through the expiration date of this permit, the permittee is authorized to discharge from the following point source(s) outfall(s), described more fully in the permittee's application:

DSN003Q:Storm water runoff associated with industrial activities 3/ 4/

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

<u>EFFLUENT CHARACTERISTIC</u>	<u>DISCHARGE LIMITATIONS</u>				<u>MONITORING REQUIREMENTS 1/</u>			
	<u>Monthly Average</u>	<u>Daily Maximum</u>	<u>Daily Minimum</u>	<u>Monthly Average</u>	<u>Daily Maximum</u>	<u>Measurement Frequency 2/</u>	<u>Sample Type</u>	<u>Seasonal</u>
Nitrogen, Total (As N)	-	-	-	-	REPORT mg/l	Quarterly	Grab	-
Iron Total Recoverable 5/	-	-	-	-	REPORT mg/l	Quarterly	Grab	-
Flow, In Conduit or Thru Treatment Plant	-	REPORT MGD	-	-	-	Quarterly	Estimate	-

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- 3/ See Part IV.A for Best Management Practices (BMP) Plan Requirements.
- 4/ See Part IV.B for Stormwater Measurement and Sampling Requirements.
- 5/ For the purpose of demonstration of compliance with this parameter, "Total" and "Total Recoverable" shall be considered equivalent.

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	<u>Monthly Average</u>	<u>Daily Maximum</u>	<u>Daily Minimum</u>	<u>Monthly Average</u>	<u>Daily Maximum</u>	<u>Measurement Frequency 2/</u>	<u>Sample Type</u>	<u>Seasonal</u>
Nitrogen, Total (As N)	-	-	-	-	REPORT mg/l	Quarterly	Grab	-
Iron Total Recoverable 5/	-	-	-	-	REPORT mg/l	Quarterly	Grab	-
Flow, In Conduit or Thru Treatment Plant	-	REPORT MGD	-	-	-	Quarterly	Estimate	-

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- 4/ See Part IV.B for Stormwater Measurement and Sampling Requirements.
- 5/ For the purpose of demonstration of compliance with this parameter, "Total" and "Total Recoverable" shall be considered equivalent.

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 following point source(s) outfall(s), described more fully in the permittee's application:

DSN003S:Storm water runoff associated with industrial activities 3/ 4/

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

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	<u>Monthly Average</u>	<u>Daily Maximum</u>	<u>Daily Minimum</u>	<u>Monthly Average</u>	<u>Daily Maximum</u>	<u>Measurement Frequency 2/</u>	<u>Sample Type</u>	<u>Seasonal</u>
pH	-	-	REPORT S.U.	-	REPORT S.U.	Semi-Annually	Grab	-
Solids, Total Suspended	-	-	-	-	REPORT mg/l	Semi-Annually	Grab	-
Oil & Grease	-	-	-	-	15 mg/l	Semi-Annually	Grab	-
Carbon, Tot Organic (TOC)	-	-	-	-	REPORT mg/l	Semi-Annually	Grab	-
Chemical Oxygen Demand (COD)	-	-	-	-	REPORT mg/l	Semi-Annually	Grab	-

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

B. DISCHARGE MONITORING AND RECORD KEEPING REQUIREMENTS

1. Representative Sampling

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

2. Test Procedures

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

a. For parameters with an EPA established Minimum Level (ML), report the measured value if the analytical result is at or above the ML and report "0" for values below the ML. Test procedures for the analysis of pollutants shall conform to 40 CFR Part 136 and guidelines published pursuant to Section 304(h) of the FWPCA, 33 U.S.C. Section 1314(h). If more than one method for analysis of a substance is approved for use, a method having a minimum level lower than the permit limit shall be used. If the minimum level of all methods is higher than the permit limit, the method having the lowest minimum level shall be used and a report of less than the minimum level shall be reported as zero and will constitute compliance; however, should EPA approve a method with a lower minimum level during the term of this permit the permittee shall use the newly approved method.

b. For pollutants parameters without an established ML, an interim ML may be utilized. The interim ML shall be calculated as 3.18 times the Method Detection Level (MDL) calculated pursuant to 40 CFR Part 136, Appendix B.

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

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

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

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

3. Recording of Results

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

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

4. Records Retention and Production

The permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by the permit, and records of all data used to complete the above reports or the application for this permit, for a period of at least three years from the date of the sample measurement, report or application. This period may be extended by request of the Director at any time. If litigation or other enforcement action, under the AWPCA and/or the FWPCA, is ongoing which involves any of the above records, the records shall be kept until the litigation is resolved. Upon the written request of the Director or his designee, the permittee shall provide the Director with a copy of any record required to be retained by this paragraph. Copies of these records shall not be submitted unless requested.

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

5. Monitoring Equipment and Instrumentation

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

C. DISCHARGE REPORTING REQUIREMENTS

1. Reporting of Monitoring Requirements

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

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

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

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

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

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

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

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

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

- 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 by utilizing the Department's web-based Electronic Environmental (E2) Reporting System.

- (1) If the permittee is unable to complete the electronic submittal of DMR data due to technical problems originating with the Department's E2 Reporting 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 E2 Reporting 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 E2 Reporting System resuming operation, the permittee shall enter the data into the E2 Reporting System, unless an alternate timeframe is approved by the Department. An attachment should be included with the E2 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
Permits and Services Division
Environmental Data Section
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
Permits and Services Division
Environmental Data Section
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;
- (2) quantities to be used;
- (3) frequencies of use;
- (4) 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:
 - (a) one hundred micrograms per liter;
 - (b) 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;
 - (c) 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:
 - (a) five hundred micrograms per liter;
 - (b) one milligram per liter for antimony;
 - (c) ten times the maximum concentration value reported for that pollutant in the permit application.

3. Transfer of Permit

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

4. Permit Modification and Revocation

a. This permit may be modified or revoked and reissued, in whole or in part, during its term for cause, including but not limited to, the following:

- (1) If cause for termination under Provision II. E. 5. of this permit exists, the Director may choose to revoke and reissue this permit instead of terminating the permit;
- (2) If a request to transfer this permit has been received, the Director may decide to revoke and reissue or to modify the permit; or
- (3) If modification or revocation and reissuance is requested by the permittee and cause exists, the Director may grant the request.

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

- (1) If cause for termination under Provision II. E. 5. of this permit exists, the Director may choose to modify this permit instead of terminating this permit;
- (2) There are material and substantial alterations or additions to the facility or activity generating wastewater which occurred after permit issuance which justify the application of permit conditions that are different or absent in the existing permit;
- (3) The Director has received new information that was not available at the time of permit issuance and that would have justified the application of different permit conditions at the time of issuance;
- (4) A new or revised requirement(s) of any applicable standard or limitation is promulgated under Sections 301(b)(2)(C), (D), (E), and (F), and 307(a)(2) of the FWPCA;
- (5) Errors in calculation of discharge limitations or typographical or clerical errors were made;
- (6) To the extent allowed by ADEM Administrative Code, Rule 335-6-6-.17, when the standards or regulations on which the permit was based have been changed by promulgation of amended standards or regulations or by judicial decision after the permit was issued;
- (7) To the extent allowed by ADEM Administrative Code, Rule 335-6-6-.17, permits may be modified to change compliance schedules;
- (8) To agree with a granted variance under 301(c), 301(g), 301(h), 301(k), or 316(a) of the FWPCA or for fundamentally different factors;
- (9) To incorporate an applicable 307(a) FWPCA toxic effluent standard or prohibition;
- (10) When required by the reopener conditions in this permit;
- (11) When required under 40 CFR 403.8(e) (compliance schedule for development of pretreatment program);
- (12) Upon failure of the state to notify, as required by Section 402(b)(3) of the FWPCA, another state whose waters may be affected by a discharge permitted by this permit;
- (13) When required to correct technical mistakes, such as errors in calculation, or mistaken interpretations of law made in determining permit conditions; or
- (14) When requested by the permittee and the Director determines that the modification has cause and will not result in a violation of federal or state law, regulations or rules.

5. Permit Termination

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

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

6. Permit Suspension

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

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

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

F. COMPLIANCE WITH TOXIC POLLUTANT STANDARD OR PROHIBITION

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

G. DISCHARGE OF WASTEWATER GENERATED BY OTHERS

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

PART III OTHER PERMIT CONDITIONS

A. CIVIL AND CRIMINAL LIABILITY

1. Tampering

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

2. False Statements

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

3. Permit Enforcement

a. Any NPDES permit issued or reissued by the Department is a permit for the purpose of the AWPCA and the FWPCA and as such any terms, conditions, or limitations of the permit are enforceable under state and federal law.

b. Any person required to have a NPDES permit pursuant to ADEM Administrative Code Chapter 335-6-6 and who discharges pollutants without said permit, who violates the conditions of said permit, who discharges pollutants in a manner not authorized by the permit, or who violates applicable orders of the Department or any applicable rule or standard of the Department, is subject to any one or combination of the following enforcement actions under applicable state statutes.

- (1) An administrative order requiring abatement, compliance, mitigation, cessation, clean-up, and/or penalties;
- (2) An action for damages;
- (3) An action for injunctive relief; or
- (4) An action for penalties.

c. If the permittee is not in compliance with the conditions of an expiring or expired permit the Director may choose to do any or all of the following provided the permittee has made a timely and complete application for reissuance of the permit:

- (1) initiate enforcement action based upon the permit which has been continued;
- (2) issue a notice of intent to deny the permit reissuance. If the permit is denied, the owner or operator would then be required to cease the activities authorized by the continued permit or be subject to enforcement action for operating without a permit;
- (3) reissue the new permit with appropriate conditions; or
- (4) take other actions authorized by these rules and AWPCA.

4. Relief from Liability

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

B. OIL AND HAZARDOUS SUBSTANCE LIABILITY

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

C. PROPERTY AND OTHER RIGHTS

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

D. AVAILABILITY OF REPORTS

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

E. EXPIRATION OF PERMITS FOR NEW OR INCREASED DISCHARGES

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

F. COMPLIANCE WITH WATER QUALITY STANDARDS

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

G. GROUNDWATER

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

H. DEFINITIONS

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

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

28. New Discharger – means a person, owning or operating any building, structure, facility or installation:
- a. from which there is or may be a discharge of pollutants;
 - b. that did not commence the discharge of pollutants prior to August 13, 1979, and which is not a new source; and
 - c. which has never received a final effective NPDES permit for dischargers at that site.
29. NH3-N – means the pollutant parameter ammonia, measured as nitrogen.
30. Permit application - means forms and additional information that is required by ADEM Administrative Code Rule 335-6-6-.08 and applicable permit fees.
31. Point source - means "any discernible, confined and discrete conveyance, including but not limited to any pipe, channel, ditch, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, or vessel or other floating craft, . . . from which pollutants are or may be discharged." Section 502(14) of the FWPCA, 33 U.S.C. Section 1362(14).
32. Pollutant - includes for purposes of this permit, but is not limited to, those pollutants specified in Code of Alabama 1975, Section 22-22-1(b)(3) and those effluent characteristics specified in Provision I. A. of this permit.
33. Privately Owned Treatment Works – means any devices or system which is used to treat wastes from any facility whose operator is not the operator of the treatment works, and which is not a "POTW".
34. Publicly Owned Treatment Works – means a wastewater collection and treatment facility owned by the State, municipality, regional entity composed of two or more municipalities, or another entity created by the State or local authority for the purpose of collecting and treating municipal wastewater.
35. Receiving Stream – means the "waters" receiving a "discharge" from a "point source".
36. Severe property damage - means substantial physical damage to property, damage to the treatment facilities which causes them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused by delays in production.
37. Significant Source – means a source which discharges 0.025 MGD or more to a POTW or greater than five percent of the treatment work's capacity, or a source which is a primary industry as defined by the U.S. EPA or which discharges a priority or toxic pollutant.
38. Solvent – means any virgin, used or spent organic solvent(s) identified in the F-Listed wastes (F001 through F005) specified in 40 CFR 261.31 that is used for the purpose of solubilizing other materials.
39. TKN – means the pollutant parameter Total Kjeldahl Nitrogen.
40. TON – means the pollutant parameter Total Organic Nitrogen.
41. TRC – means Total Residual Chlorine.
42. TSS – means the pollutant parameter Total Suspended Solids.
43. 24HC – means 24-hour composite sample, including any of the following:
- a. the mixing of at least 12 equal volume samples collected at constant time intervals of not more than 2 hours over a period of 24 hours;
 - b. a sample collected over a consecutive 24-hour period using an automatic sampler composite to one sample. As a minimum, samples shall be collected hourly and each shall be no more than one twenty-fourth (1/24) of the total sample volume collected; or
 - c. a sample collected over a consecutive 24-hour period using an automatic composite sampler composited proportional to flow.
44. Upset - means an exceptional incident in which there is an unintentional and temporary noncompliance with technology-based permit discharge limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.

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

I. SEVERABILITY

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

PART IV ADDITIONAL REQUIREMENTS, CONDITIONS, AND LIMITATIONS

A. BEST MANAGEMENT PRACTICES (BMP) PLAN REQUIREMENTS

1. **BMP Plan**

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

2. **Plan Content**

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

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

- l. Provide control sufficient to prevent or control pollution of stormwater by soil particles to the degree required to maintain compliance with the water quality standard for turbidity applicable to the waterbody(s) receiving discharge(s) under this permit;
- m. Provide spill prevention, control, and/or management sufficient to prevent or minimize contaminated stormwater runoff. Any containment system used to implement this requirement shall be constructed of materials compatible with the substance(s) contained and shall prevent the contamination of groundwater. The containment system shall also be capable of retaining a volume equal to 110 percent of the capacity of the largest tank for which containment is provided;
- n. Provide and maintain curbing, diking or other means of isolating process areas to the extent necessary to allow segregation and collection for treatment of contaminated stormwater from process areas;
- o. Be reviewed by plant engineering staff and the plant manager; and
- p. Bear the signature of the plant manager.

3. Compliance Schedule

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

4. Department Review

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

5. Administrative Procedures

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

B. STORMWATER FLOW MEASUREMENT AND SAMPLING REQUIREMENTS

1. Stormwater Flow Measurement

- a. All stormwater samples shall be collected from the discharge resulting from a storm event that is greater than 0.1 inches.

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

2. Stormwater Sampling

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

C. COOLING WATER INTAKE STRUCTURE (CWIS) REQUIREMENTS

- 1. The entity providing water to the permittee is a public water system in accordance with Section 1401 of the Safe Drinking Water Act or the water used for cooling consists of effluent, which would otherwise be discharged; therefore, the permittee is exempt from this permit condition.

ADEM PERMIT RATIONALE

PREPARED DATE: July 30, 2021
PREPARED BY: Rachel Lounsberry

Permittee Name: Isp Chemicals LLC

Permit Number: AL0000345

PERMIT IS REISSUANCE DUE TO EXPIRATION

DISCHARGE SERIAL NUMBERS & DESCRIPTIONS:

DSN001: Storm water runoff associated with industrial activities

DSN002: Non-contact cooling water

DSN003: Storm water runoff associated with industrial activities

INDUSTRIAL CATEGORY: NON-CATEGORICAL

MAJOR: N

STREAM INFORMATION:

Receiving Stream:	Unnamed Tributary to Huntsville Spring Branch
Classification:	Fish & Wildlife
River Basin:	Tennessee River Basin
7Q10:	0 cfs
303(d) List:	No
Impairment:	<u>No</u>
TMDL:	No

DISCUSSION:

ISP Chemicals manufactures Iron Powder and Iron Pentacarbonyl. With the exception of non-contact cooling water, the site's wastewater is discharge to the WWTP on Redstone Arsenal. Wastewater with the potential to contain oil is routed through an oil-water separator prior to discharge to the WWTP. Non-contact cooling water is recycled through the facility cooling towers and is discharged to Outfall 002. Only stormwater exits at DSN001 and DSN003.

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

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

001Q:

<u>Parameter</u>	<u>Monthly Avg Loading</u>	<u>Daily Max Loading</u>	<u>Daily Min Concentration</u>	<u>Monthly Avg Concentration</u>	<u>Daily Max Concentration</u>	<u>Sample Frequency</u>	<u>Sample Type</u>	<u>Basis*</u>
Nitrogen, Total (As N)	-	-	-	-	REPORT mg/l	Quarterly	Grab	BPJ
Iron Total Recoverable	-	-	-	-	REPORT mg/l	Quarterly	Grab	BPJ
Flow, In Conduit or Thru Treatment Plant	-	REPORT MGD	-	-	-	Quarterly	Estimate	BPJ

001S:

<u>Parameter</u>	<u>Monthly Avg Loading</u>	<u>Daily Max Loading</u>	<u>Daily Min Concentration</u>	<u>Monthly Avg Concentration</u>	<u>Daily Max Concentration</u>	<u>Sample Frequency</u>	<u>Sample Type</u>	<u>Basis*</u>
pH	-	-	REPORT S.U.	-	REPORT S.U.	Semi-Annually	Grab	BPJ
Solids, Total Suspended	-	-	-	-	REPORT mg/l	Semi-Annually	Grab	BPJ
Oil & Grease	-	-	-	-	15 mg/l	Semi-Annually	Grab	BPJ
Carbon, Tot Organic (TOC)	-	-	-	-	REPORT mg/l	Semi-Annually	Grab	BPJ
Chemical Oxygen Demand (COD)	-	-	-	-	REPORT mg/l	Semi-Annually	Grab	BPJ

0021:

<u>Parameter</u>	<u>Monthly Avg Loading</u>	<u>Daily Max Loading</u>	<u>Daily Min Concentration</u>	<u>Monthly Avg Concentration</u>	<u>Daily Max Concentration</u>	<u>Sample Frequency</u>	<u>Sample Type</u>	<u>Basis*</u>
Temperature, Water Deg. Fahrenheit	-	-	-	-	100 F	Monthly	Grab	WQBEL
pH	-	-	6.0 S.U.	-	8.5 S.U.	Monthly	Grab	WQBEL
Flow, In Conduit or Thru Treatment Plant	-	REPORT MGD	-	-	-	Monthly	Instantaneous	BPJ

003Q:

<u>Parameter</u>	<u>Monthly Avg Loading</u>	<u>Daily Max Loading</u>	<u>Daily Min Concentration</u>	<u>Monthly Avg Concentration</u>	<u>Daily Max Concentration</u>	<u>Sample Frequency</u>	<u>Sample Type</u>	<u>Basis*</u>
Nitrogen, Total (As N)	-	-	-	-	REPORT mg/l	Quarterly	Grab	BPJ
Iron Total Recoverable	-	-	-	-	REPORT mg/l	Quarterly	Grab	BPJ
Flow, In Conduit or Thru Treatment Plant	-	REPORT MGD	-	-	-	Quarterly	Estimate	BPJ

003S:

<u>Parameter</u>	<u>Monthly Avg Loading</u>	<u>Daily Max Loading</u>	<u>Daily Min Concentration</u>	<u>Monthly Avg Concentration</u>	<u>Daily Max Concentration</u>	<u>Sample Frequency</u>	<u>Sample Type</u>	<u>Basis*</u>
pH	-	-	REPORT S.U.	-	REPORT S.U.	Semi-Annually	Grab	BPJ
Solids, Total Suspended	-	-	-	-	REPORT mg/l	Semi-Annually	Grab	BPJ
Oil & Grease	-	-	-	-	15 mg/l	Semi-Annually	Grab	BPJ
Carbon, Tot Organic (TOC)	-	-	-	-	REPORT mg/l	Semi-Annually	Grab	BPJ
Chemical Oxygen Demand (COD)	-	-	-	-	REPORT mg/l	Semi-Annually	Grab	BPJ

*Basis for Permit Limitation

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

Discussion

DSN002: Non-Contact Cooling water

Water Quality Based Effluent Limits (WQBEL)

pH

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

Temperature

Temperature monitoring requirements will remain as in the previous permit with a daily maximum of 100°F. In accordance with ADEM 335-6-10-.09(5)(e)(3), the maximum temperature in streams, lakes and reservoirs in the Tennessee River Basin shall not exceed 86°F. Due to the time required for the waste stream to reach the receiving stream, the temperature would have lowered to the 86°F requirement. Therefore, no impact or violation of the water quality standard should result from the temperature limit of 100°F.

Total Residual Chlorine

Redstone Arsenal Department of Public Works is a public water supply that also supplies water for industrial purposes. TRC monitoring is not included in the permit because the water used in the cooling tower is industrial water which is non-potable and not chlorinated.

DSN001 and DSN003: Stormwater

Best Professional Judgment (BPJ)

The parameters of concern for this facility are based on the parameters of concern listed in EPA form 2F and from the current permit. These parameters are consistent with similar facilities in the state and have been proven to be reflective of the operations at this facility. The parameters with specific limits are discussed below:

Oil & Grease

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

Total Suspended Solids (TSS)

Monitoring for TSS was included in the previous permit and will remain in the proposed permit to measure the effectiveness of the BMP's.

Total Organic Carbons (TOC)

Monitoring for TOC was included in the previous permit and will remain in the proposed permit to measure the effectiveness of the BMP's.

COD

The monitoring of COD should be sufficient for determination of BMP effectiveness with regard to oxygen demanding pollutants. Monitoring results will be used to develop limits in the future if it is warranted to protect water quality standards for the receiving stream.

Total Nitrogen

Total Nitrogen monitoring requirement will be continued in this permit to address potential nutrient concentration concern

Total Recoverable Iron

Total Recoverable Iron will continue to be monitored to show the effectiveness of the facility's BMPs.

pH

pH will be monitored to detect any problems with the storm water runoff from contact with the material stored on site. pH is proposed to be monitored with no limits. The pH as the result of storm water is not expected to impact the receiving stream.

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.

303(d) List of Impaired Waters/Total Maximum Daily Load (TMDL)

The unnamed tributary to Huntsville Spring Branch is not listed as being impaired on the Alabama 303(d) list, and there are no developed/final TMDL's associated with it. However, Huntsville Spring Branch is on the Alabama 303(d) list for Arsenic. The discharge of this facility is not expected to contribute to the listed impairment.

Cooling Water Intake Structure (CWIS)

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

EPA Identification Number

NPDES Permit Number

Facility Name

Form Approved 03/05/19

AL0000345

ISP Chemicals LLC

OMB No. 2040-0004

FORM
2E
NPDES

U.S. Environmental Protection Agency
Application for NPDES Permit to Discharge Wastewater
MANUFACTURING, COMMERCIAL, MINING, AND SILVICULTURAL FACILITIES WHICH
DISCHARGE ONLY NONPROCESS WASTEWATER

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

Outfall Location	1.1	Provide information on each of the facility's outfalls in the table below.				
		Outfall Number	Receiving Water Name	Latitude		Longitude
		001	All Outfalls discharge to	34°	37' 53" N	86° 38' 10" W
		002	an unnamed tributary	34°	57' 10" N	86° 38' 10" W
	003	of Huntsville Spring Branch	34°	57' 47" N	86° 38' 14" W	

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

Discharge Date	2.1	Are you a new or existing discharger? (Check only one response.) <input type="checkbox"/> New discharger <input checked="" type="checkbox"/> Existing discharger → SKIP to Section 3.
	2.2	Specify your anticipated discharge date:

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

Waste Types	3.1	What types of wastes are currently being discharged if you are an existing discharger or will be discharged if you are a new discharger? (Check all that apply.) <input type="checkbox"/> Sanitary wastes <input type="checkbox"/> Other nonprocess wastewater (describe/explain directly below) <input type="checkbox"/> Restaurant or cafeteria waste <input checked="" type="checkbox"/> Non-contact cooling water				
	3.2	Does the facility use cooling water additives? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Section 4.				
	3.3	List the cooling water additives used and describe their composition.				
		<table border="1"> <thead> <tr> <th>Cooling Water Additives (list)</th> <th>Composition of Additives (if available to you)</th> </tr> </thead> <tbody> <tr> <td>*DREW 2215, Biosphere 3001 & 535 Microbiocide</td> <td>*Phosphonic Acid Derivative, Hypochlorite Solution, Tetrakis(hydroxymethyl) Phosphonium Sulfate</td> </tr> </tbody> </table>	Cooling Water Additives (list)	Composition of Additives (if available to you)	*DREW 2215, Biosphere 3001 & 535 Microbiocide	*Phosphonic Acid Derivative, Hypochlorite Solution, Tetrakis(hydroxymethyl) Phosphonium Sulfate
Cooling Water Additives (list)	Composition of Additives (if available to you)					
*DREW 2215, Biosphere 3001 & 535 Microbiocide	*Phosphonic Acid Derivative, Hypochlorite Solution, Tetrakis(hydroxymethyl) Phosphonium Sulfate					

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

Effluent Characteristics	4.1	Have you completed monitoring for all parameters in the table below at each of your outfalls and attached the results to this application package? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No; a waiver has been requested from my NPDES permitting authority (attach waiver request and additional information) → SKIP to Section 5.						
	4.2	Provide data as requested in the table below. ¹ (See instructions for specifics.)						
		Parameter or Pollutant	Number of Analyses (if actual data reported)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)	Source (use codes per instructions)	
				Mass	Conc.	Mass	Conc.	
		Biochemical oxygen demand (BOD ₅)	1	ND	ND	ND	ND	Outfall 002
		Total suspended solids (TSS)	1	NA	NA	NA	NA	Outfall 002
		Oil and grease	1	NA	ND	NA	NA	Outfall 002
		Ammonia (as N)	1	NA	0.758mg/L	NA	NA	Outfall 002
		Discharge flow	1	0.00273 MGD				Outfall 002
		pH (report as range)	12	6.45-8.4				Outfall 002
	Temperature (winter)	4	59				Outfall 002	
	Temperature (summer)	4	78				Outfall 002	

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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JUL 19 2021
 INDUSTRIAL SECTION

Effluent Characteristics Continued	4.3	Is fecal coliform believed present, or is sanitary waste discharged (or will it be discharged)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 4.5.						
	4.4	Provide data as requested in the table below. ¹ (See instructions for specifics.)						
		Parameter or Pollutant	Number of Analyses (if actual data reported)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Source (Use codes per instructions.)
				Mass	Conc.	Mass	Conc.	
		Fecal coliform						
		<i>E. coli</i>						
		Enterococci						
	4.5	Is chlorine used (or will it be used)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 4.7.						
	4.6	Provide data as requested in the table below. ¹ (See instructions for specifics.)						
		Parameter or Pollutant	Number of Analyses (if actual data reported)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Source (use codes per instructions)
	Mass			Conc.	Mass	Conc.		
	Total Residual Chlorine							
4.7	Is non-contact cooling water discharged (or will it be discharged)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Section 5.							
4.8	Provide data as requested in the table below. ¹ (See instructions for specifics.)							
	Parameter or Pollutant	Number of Analyses (if actual data reported)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Source (use codes per instructions)	
			Mass	Conc.	Mass	Conc.		
	Chemical oxygen demand (COD)	1	NA	258	NA	NA		
	Total organic carbon (TOC)	1	NA	10.1 mg/L	NA	NA		
SECTION 5. FLOW (40 CFR 122.21(h)(5))								
Flow	5.1	Except for stormwater water runoff, leaks, or spills, are any of the discharges you described in Sections 1 and 3 of this application intermittent or seasonal? <input type="checkbox"/> Yes → Complete this section. <input checked="" type="checkbox"/> No → SKIP to Section 6.						
	5.2	Briefly describe the frequency and duration of flow.						
SECTION 6. TREATMENT SYSTEM (40 CFR 122.21(h)(6))								
Treatment System:	6.1	Briefly describe any treatment system(s) used (or to be used). No Treatment Systems are Used						

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

EPA Identification Number

NPDES Permit Number

Facility Name

Form Approved 03/05/19

AL0000345

ISP Chemicals LLC

OMB No. 2040-0004

Effluent Characteristics Continued

4.3	Is fecal coliform believed present, or is sanitary waste discharged (or will it be discharged)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 4.5.					
4.4	Provide data as requested in the table below. ¹ (See instructions for specifics.)					
	Parameter or Pollutant	Number of Analyses (if actual data reported)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)	Source (Use codes per instructions.)
			Mass	Conc.		
	Fecal coliform					
	<i>E. coli</i>					
	Enterococci					
4.5	Is chlorine used (or will it be used)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 4.7.					
4.6	Provide data as requested in the table below. ¹ (See instructions for specifics.)					
	Parameter or Pollutant	Number of Analyses (if actual data reported)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)	Source (use codes per instructions)
			Mass	Conc.		
	Total Residual Chlorine					
4.7	Is non-contact cooling water discharged (or will it be discharged)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Section 5.					
4.8	Provide data as requested in the table below. ¹ (See instructions for specifics.)					
	Parameter or Pollutant	Number of Analyses (if actual data reported)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)	Source (use codes per instructions)
			Mass	Conc.		
	Chemical oxygen demand (COD)	1	NA	258	NA	NA
	Total organic carbon (TOC)	1	NA	10.1 mg/L	NA	NA

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

Flow	5.1	Except for stormwater water runoff, leaks, or spills, are any of the discharges you described in Sections 1 and 3 of this application intermittent or seasonal? <input type="checkbox"/> Yes → Complete this section. <input checked="" type="checkbox"/> No → SKIP to Section 6.
	5.2	Briefly describe the frequency and duration of flow.

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

Treatment System	6.1	Briefly describe any treatment system(s) used (or to be used). No Treatment Systems are Used
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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 AL0000345	Facility Name ISP Chemicals LLC
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Form Approved 03/05/19
OMB No 2040-0004

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

Other Information	7.1	Use the space below to expand upon any of the above items. Use this space to provide any information you believe the reviewer should consider in establishing permit limitations. Attach additional sheets as needed. Discharges result from non-contact cooling water and cooling water tower blow-down
-------------------	-----	---

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

Checklist and Certification Statement	8.1	In Column 1 below, mark the sections of Form 2E that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing to alert the permitting authority. Note that not all applicants are required to provide attachments.	
		Column 1	Column 2
		<input checked="" type="checkbox"/> Section 1: Outfall Location	<input type="checkbox"/> w/ attachments (e.g., responses for additional outfalls)
		<input checked="" type="checkbox"/> Section 2: Discharge Date	<input type="checkbox"/> w/ attachments
		<input checked="" type="checkbox"/> Section 3: Waste Types	<input type="checkbox"/> w/ attachments
		<input checked="" type="checkbox"/> Section 4: Effluent Characteristics	<input checked="" type="checkbox"/> w/ attachments
		<input checked="" type="checkbox"/> Section 5: Flow	<input type="checkbox"/> w/ attachments
		<input checked="" type="checkbox"/> Section 6: Treatment System	<input type="checkbox"/> w/ attachments
		<input checked="" type="checkbox"/> Section 7: Other Information	<input type="checkbox"/> w/ attachments
		<input checked="" type="checkbox"/> Section 8: Checklist and Certification Statement	<input type="checkbox"/> w/ attachments
	8.2	Certification Statement <i>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>	
		Name (print or type first and last name) PAUL HUBLER	Official title PLANT MANAGER
		Signature 	Date signed 3/23/21

EPA Identification Number	NPDES Permit Number AL0000345	Facility Name ISP Chemicals LLC	Outfall Number 001
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Form Approved 03/05/19
OMB No. 2040-0004

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

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

Pollutant or Parameter	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
1. Oil and grease	Not Detected		NA		1	
2. Biochemical oxygen demand (BOD ₅)	Not Detected	NA	NA	NA	1	
3. Chemical oxygen demand (COD)	20.2 mg/l	NA	NA	NA	1	
4. Total suspended solids (TSS)	219 mg/l	NA	NA	NA	1	
5. Total phosphorus	0.138 mg/l	NA	NA	NA	1	
6. Total Kjeldahl nitrogen (TKN)	0.371 mg/l	NA	NA	NA	1	
7. Total nitrogen (as N)	0.529 mg/l	NA	NA	NA	1	
8. pH (minimum)	7.72		NA		1	
	7.72		NA		1	

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

EPA Identification Number	NPDES Permit Number AL0000345	Facility Name ISP Chemicals LLC	Outfall Number 003
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Form Approved 03/05/19
OMB No. 2040-0004

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

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

Pollutant or Parameter	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
1. Oil and grease	Not Detected		NA		1	
2. Biochemical oxygen demand (BOD ₅)	Not Detected	NA	NA	NA	1	
3. Chemical oxygen demand (COD)	258 mg/l	NA	NA	NA	1	
4. Total suspended solids (TSS)	74.5 mg/l	NA	NA	NA	1	
5. Total phosphorus	0.305 mg/l	NA	NA	NA	1	
6. Total Kjeldahl nitrogen (TKN)	1.44mg/l	NA	NA	NA	1	
7. Total nitrogen (as N)	2.20 mg/l	NA	NA	NA	1	
8. pH (minimum)	7.76		NA		1	
pH (maximum)	7.76		NA		1	

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



ANALYTICAL REPORT

July 14, 2021

RECEIVED

JUL 19 2021

INDUSTRIAL SECTION

ISP Chemicals

Sample Delivery Group: L1369906
 Samples Received: 06/23/2021
 Project Number:
 Description:

Report To: Brent Hobbs
 Bldg 5565 Industrial Road
 Huntsville, AL 35808

- ¹ Cp
- ² Tc
- ³ Ss
- ⁴ Cn
- ⁵ Sr
- ⁶ Gl
- ⁷ Al
- ⁸ Sc

Entire Report Reviewed By:

Dorothy P Roberts
 Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



Pace Analytical National

12065 Lebanon Rd Mount Juliet, TN 37122 615-758-5858 800-767-5859 www.pacenational.com

ACCOUNT:

PROJECT:

SDG:

DATE/TIME:

PAGE:

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DSN002 L1369906-03	7	
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SAMPLE SUMMARY

DSN001 L1369906-01 WW Collected by CLIENT Collected date/time 06/21/21 15:05 Received date/time 06/23/21 14:10

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1695723	1	07/06/21 22:23	07/06/21 22:23	JER	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 D-2011	WG1696365	1	06/28/21 13:42	06/28/21 13:47	MMF	Mt. Juliet, TN
Wet Chemistry by Method 1664A	WG1696274	1	06/28/21 09:08	06/28/21 15:11	ERK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1695723	1	06/27/21 00:29	06/27/21 00:29	ST	Mt. Juliet, TN
Wet Chemistry by Method 365.4	WG1700981	1	07/06/21 12:13	07/06/21 23:07	JER	Mt. Juliet, TN
Wet Chemistry by Method 4500-Norg C	WG1700713	1	07/06/21 12:13	07/06/21 22:23	JER	Mt. Juliet, TN
Wet Chemistry by Method 5210B	WG1694035	1	06/23/21 16:25	06/28/21 13:08	JCH	Decatur, AL
Wet Chemistry by Method 5220D	WG1697579	1	06/30/21 09:24	06/30/21 16:01	GJA	Mt. Juliet, TN
Wet Chemistry by Method 5310 B-2011	WG1695690	1	06/26/21 14:29	06/26/21 14:29	MJA	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG1700539	1	07/07/21 13:08	07/07/21 20:26	CCE	Mt. Juliet, TN

DSN003 L1369906-02 WW Collected by CLIENT Collected date/time 06/21/21 15:15 Received date/time 06/23/21 14:10

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1704991	1	07/14/21 11:21	07/14/21 11:21	MCG	Mt. Juliet, TN
Gravimetric Analysis by Method 2540 D-2011	WG1696365	1	06/28/21 13:42	06/28/21 13:47	MMF	Mt. Juliet, TN
Wet Chemistry by Method 1664A	WG1696274	1	06/28/21 09:08	06/28/21 15:11	ERK	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1704991	1	07/14/21 11:21	07/14/21 11:21	MCG	Mt. Juliet, TN
Wet Chemistry by Method 365.4	WG1700981	1	07/06/21 12:13	07/06/21 23:12	JER	Mt. Juliet, TN
Wet Chemistry by Method 4500-Norg C	WG1700713	1	07/06/21 12:13	07/06/21 22:26	JER	Mt. Juliet, TN
Wet Chemistry by Method 5210B	WG1694035	1	06/23/21 16:25	06/28/21 13:09	JCH	Decatur, AL
Wet Chemistry by Method 5220D	WG1697582	4	06/30/21 09:25	06/30/21 16:14	GJA	Mt. Juliet, TN
Wet Chemistry by Method 5310 B-2011	WG1695690	1	06/26/21 15:22	06/26/21 15:22	MJA	Mt. Juliet, TN
Metals (ICP) by Method 200.7	WG1700539	1	07/07/21 13:08	07/07/21 20:35	CCE	Mt. Juliet, TN

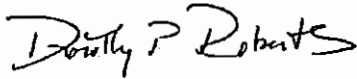
DSN002 L1369906-03 WW Collected by CLIENT Collected date/time 06/21/21 15:00 Received date/time 06/23/21 14:10

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 5210B	WG1694035	1	06/23/21 16:25	06/28/21 13:12	JCH	Decatur, AL
Wet Chemistry by Method SM 4500-NH3 G-2011	WG1698654	1	07/06/21 13:02	07/06/21 13:02	DGR	Mt. Juliet, TN

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Gl
7 Al
8 Sc

CASE NARRATIVE

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



Dorothy P Roberts
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Cn

⁵ Sr

⁶ Gl

⁷ Al

⁸ Sc

DSN001

SAMPLE RESULTS - 01

Collected date/time: 06/21/21 15:05

L1369906

Calculated Results

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Total Nitrogen	0.529		0.100	1	07/06/2021 22:23	WG1695723

Gravimetric Analysis by Method 2540 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Suspended Solids	219		13.5	1	06/28/2021 13:47	WG1696365

Wet Chemistry by Method 1664A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Oil & Grease (Hexane Extr)	ND		5.56	1	06/28/2021 15:11	WG1696274

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.158	TB	0.100	1	06/27/2021 00:29	WG1695723

Wet Chemistry by Method 365.4

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Phosphorus, Total	0.138	B	0.100	1	07/06/2021 23:07	WG1700981

Wet Chemistry by Method 4500-Norg:C

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Kjeldahl Nitrogen, TXN	0.371		0.250	1	07/06/2021 22:23	WG1700713

Wet Chemistry by Method 5210B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
BOD	ND	B1 TB	12.0	1	06/28/2021 13:08	WG1694035

Wet Chemistry by Method 5220D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
COD	20.2		20.0	1	06/30/2021 16:01	WG1697579

Wet Chemistry by Method 5310 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	4.84	B	1.00	1	06/26/2021 14:29	WG1695690

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Iron	1.73		0.100	1	07/07/2021 20:26	WG1700539

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Gl

7 Al

8 Sc

DSN003

Collected date/time: 06/21/21 15:15

SAMPLE RESULTS - 02

L1369906

Calculated Results

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Total Nitrogen	2.20		0.100	1	07/14/2021 11:21	WG1704991

Gravimetric Analysis by Method 2540 D-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Suspended Solids	74.5		12.5	1	06/28/2021 13:47	WG1696365

Wet Chemistry by Method 1664A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Oil & Grease (Hexane Extr)	ND		5.56	1	06/28/2021 15:11	WG1696274

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.764	T8	0.100	1	07/14/2021 11:21	WG1704991

Wet Chemistry by Method 365.4

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Phosphorus, Total	0.305	B	0.100	1	07/06/2021 23:12	WG1700981

Wet Chemistry by Method 4500-Norg C

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Kjeldahl Nitrogen, TKN	1.44		0.250	1	07/06/2021 22:26	WG1700713

Wet Chemistry by Method 5210B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
BCD	ND	B1 T8	30.0	1	06/28/2021 13:09	WG1694035

Wet Chemistry by Method 5220D

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
COD	258		80.0	4	06/30/2021 16:14	WG1697582

Wet Chemistry by Method 5310 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	10.1		1.00	1	06/26/2021 15:22	WG1695690

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Iron	2.86		0.100	1	07/07/2021 20:35	WG1700539

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Gl
7 Al
8 Sc

DSN002

SAMPLE RESULTS - 03

Collected date/time: 06/21/21 15:00

L1369906

Wet Chemistry by Method 5210B

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
BOD	ND	<u>BIT8</u>	60.0	1	06/28/2021 13:12	WG1694035

Wet Chemistry by Method SM 4500-NH3 G-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Ammonia Nitrogen	0.758		0.250	1	07/06/2021 13:02	WG1698654

1 Cp

2 Tc

3 Ss

4 Cn

5 Sr

6 Gl

7 Al

8 Sc

GLOSSARY OF TERMS

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

ND	Not detected at the Reporting Limit (or MDL where applicable)
RDL	Reported Detection Limit
SDG	Sample Delivery Group
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

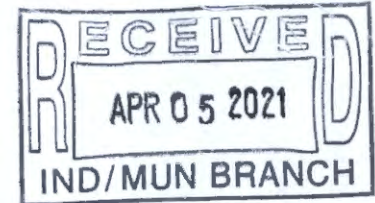
Qualifier	Description
B	The same analyte is found in the associated blank.
B1	The blank depletion was greater than the recommended maximum depletion of 0.2mg/L.
T8	Sample(s) received past/too close to holding time expiration.

3 Ss
4 Cn
5 Sr
6 GI
7 A
8 Sc

April 1, 2020

#D-R#21-53083

ATTN: Rachel Lounsberry
ADEM Water Section
PO BOX 301463
Montgomery, AL 36110-1463



Re: Application to Renew Permit No. AL0000345

Greetings,

Latitudes Environmental, LLC is pleased to submit the forms for the NPDES Wastewater Permit Renewal Application (AL0000345) on behalf of ISP Chemicals LLC.

In this package you will find: Form 187, EPA Form 1, EPA Form 2E, EPA Form F, maps, a process flow diagram, and Lab results. We appreciate your time and effort with reviewing our request. If you have any questions, or if there are any application deficiencies, please contact me at (713) 636-9501, or via email at dhampshire@latitudesenvironmental.com.

Sincerely,

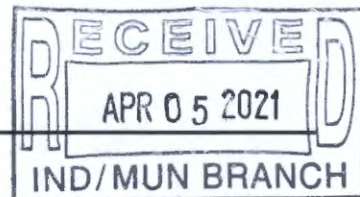


Dylan Hampshire
Staff Scientist
Latitudes Environmental, LLC

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (ADEM)
NPDES INDIVIDUAL PERMIT APPLICATION
SUPPLEMENTARY INFORMATION FOR INDUSTRIAL FACILITIES

Instructions: This form should be used to submit the required supplementary information for an application for an NPDES individual permit for industrial facilities. The completed application should be submitted to ADEM in duplicate. If insufficient space is available to address any item, please continue on an attached sheet of paper. Please mark "N/A" in the appropriate box when an item is not applicable to the applicant. Please type or print legibly in blue or black ink. Mail the completed application to:

ADEM-Water Division
Industrial Section
P O Box 301463
Montgomery, AL 36130-1463



PURPOSE OF THIS APPLICATION

- Initial Permit Application for New Facility* Initial Permit Application for Existing Facility*
 Modification of Existing Permit Reissuance of Existing Permit
 Revocation & Reissuance of Existing Permit * An application for participation in the ADEM's Electronic Environmental (E2) Reporting must be submitted to allow permittee to electronically submit reports as required.

SECTION A - GENERAL INFORMATION

1. Facility Name: ISP Chemicals LLC
2. NPDES Permit Number: AL 0000345 (not applicable if initial permit application)
3. SID Permit Number (if applicable): IU 084500028
4. NPDES General Permit Number (if applicable): ALG _____
5. Facility Location (Front Gate): Latitude: 34.63115 Longitude: -86.63670
7. Responsible Official (as described on the last page of this application):
Name: Paul B. Hubler Title: Plant Manager
Address: PO BOX 25
City: Huntsville State: AL Zip: 35804
Phone Number: 256-882-0177 Email Address: phubler@ashland.com
8. Designated Discharge Monitoring Report (DMR) Contact:
Name: Paul B. Hubler Title: Plant Manager
Phone Number: 256-882-0177 Email Address: phubler@ashland.com
9. Type of Business Entity:
 Corporation General Partnership Limited Partnership Limited Liability Company Sole Proprietorship
 Other (Please Specify) _____
10. Complete this section if the Applicant's business entity is a Corporation
- a) Location of Incorporation:
Address: NA
City: _____ County: _____ State: _____ Zip: _____
- b) Parent Corporation of Applicant:
Name: NA
Address: _____
City: _____ State: _____ Zip: _____

c) Subsidiary Corporation(s) of Applicant:

Name: _____

Address: _____

City: _____ State: _____ Zip: _____

d) Corporate Officers:

Name: _____

Address: _____

City: _____ State: _____ Zip: _____

Name: _____

Address: _____

City: _____ State: _____ Zip: _____

e) Agent designated by the corporation for purposes of service:

Name: _____

Address: _____

City: _____ State: _____ Zip: _____

11. If the Applicant's business entity is a Partnership, please list the general partners.

Name: _____

Name: _____

Address: _____

Address: _____

City: _____ State: _____ Zip: _____

City: _____ State: _____ Zip: _____

12. If the Applicant's business entity is a Proprietorship, please enter the proprietor's information.

Name: _____

Address: _____

City: _____ State: _____ Zip: _____

15. Identify all Administrative Complaints, Notices of Violation, Directives, Administrative Orders, or Litigation concerning water pollution, if any, against the Applicant, its parent corporation or subsidiary corporations within the State of Alabama within the past five years (attach additional sheets if necessary):

<u>Facility Name</u>	<u>Permit Number</u>	<u>Type of Action</u>	<u>Date of Action</u>
N/A			
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

SECTION B – BUSINESS ACTIVITY

If your facility conducts or will be conducting any of the processes listed below (regardless of whether they generate wastewater, waste sludge, or hazardous waste), place a check beside the category of business activity (check all that apply):

Industrial Categories

- | | |
|---|---|
| <input type="checkbox"/> Aluminum Forming | <input type="checkbox"/> Metal Molding and Casting |
| <input type="checkbox"/> Asbestos Manufacturing | <input type="checkbox"/> Metal Products |
| <input type="checkbox"/> Battery Manufacturing | <input type="checkbox"/> Nonferrous Metals Forming |
| <input type="checkbox"/> Can Making | <input type="checkbox"/> Nonferrous Metals Manufacturing |
| <input type="checkbox"/> Canned and Preserved Fruit and Vegetables | <input type="checkbox"/> Oil and Gas Extraction |
| <input type="checkbox"/> Canned and Preserved Seafood | <input type="checkbox"/> Organic Chemicals Manufacturing |
| <input type="checkbox"/> Cement Manufacturing | <input type="checkbox"/> Paint and Ink Formulating |
| <input type="checkbox"/> Centralized Waste Treatment | <input type="checkbox"/> Paving and Roofing Manufacturing |
| <input type="checkbox"/> Carbon Black | <input type="checkbox"/> Pesticides Manufacturing |
| <input type="checkbox"/> Coal Mining | <input type="checkbox"/> Petroleum Refining |
| <input type="checkbox"/> Coil Coating | <input type="checkbox"/> Phosphate Manufacturing |
| <input type="checkbox"/> Copper Forming | <input type="checkbox"/> Photographic |
| <input type="checkbox"/> Electric and Electronic Components Manufacturing | <input type="checkbox"/> Pharmaceutical |
| <input type="checkbox"/> Electroplating | <input type="checkbox"/> Plastic & Synthetic Materials |
| <input type="checkbox"/> Explosives Manufacturing | <input type="checkbox"/> Plastics Processing Manufacturing |
| <input type="checkbox"/> Feedlots | <input type="checkbox"/> Porcelain Enamel |
| <input type="checkbox"/> Ferroalloy Manufacturing | <input type="checkbox"/> Pulp, Paper, and Fiberboard Manufacturing |
| <input type="checkbox"/> Fertilizer Manufacturing | <input type="checkbox"/> Rubber |
| <input type="checkbox"/> Foundries (Metal Molding and Casting) | <input type="checkbox"/> Soap and Detergent Manufacturing |
| <input type="checkbox"/> Glass Manufacturing | <input type="checkbox"/> Steam and Electric |
| <input type="checkbox"/> Grain Mills | <input type="checkbox"/> Sugar Processing |
| <input type="checkbox"/> Gum and Wood Chemicals Manufacturing | <input type="checkbox"/> Textile Mills |
| <input type="checkbox"/> Inorganic Chemicals | <input type="checkbox"/> Timber Products |
| <input type="checkbox"/> Iron and Steel | <input type="checkbox"/> Transportation Equipment Cleaning |
| <input type="checkbox"/> Leather Tanning and Finishing | <input type="checkbox"/> Waste Combustion |
| <input type="checkbox"/> Metal Finishing | <input checked="" type="checkbox"/> Other (specify) <u>Industrial Inorganic Chemicals SIC: 2819</u> |
| <input type="checkbox"/> Meat Products | |

A facility with processes inclusive in these business areas may be covered by Environmental Protection (EPA) categorical standards. These facilities are termed "categorical users".

SECTION C – WASTEWATER DISCHARGE INFORMATION

1. Do you share an outfall with another facility? Yes No (If no, continue to C.2)

For each shared outfall, provide the following:

Applicant's Outfall No.	Name of Other Permittee/Facility	NPDES Permit No.	Where is sample collected by Applicant?
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

2. Do you have, or plan to have, automatic sampling equipment or continuous wastewater flow metering equipment at this facility?

Current:	Flow Metering	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
	Sampling Equipment	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Planned:	Flow Metering	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
	Sampling Equipment	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A

If so, please attach a schematic diagram of the sewer system indicating the present or future location of this equipment and describe the equipment below:

3. Are any process changes or expansions planned during the next three years that could alter wastewater volumes or characteristics?

Yes No (If no, continue to C.4)

Briefly describe these changes and their anticipated effects on the wastewater volume and characteristics:

4. List the trade name and chemical composition of all biocides and corrosion inhibitors used:

Trade Name	Chemical Composition
Drew 2215 (Corrosion Inhibitor): Biosphere 3001 Microbiocide	Phosphoric Acid Derivative: Hypochlorite Solution
Biosperse 535 Algaecide	Tetrakis(hydromethyl) Phosphonium Sulfate

For each biocide and/or corrosion inhibitor used, please include the following information:

- (1) 96-hour median tolerance limit data for organisms representative of the biota of the waterway into which the discharge will ultimately reach,
- (2) quantities to be used,
- (3) frequencies of use,
- (4) proposed discharge concentrations, and
- (5) EPA registration number, if applicable

SECTION D – WATER SUPPLY

Water Sources (check as many as are applicable):

- | | |
|---|---|
| <input type="checkbox"/> Private Well | <input type="checkbox"/> Surface Water |
| <input checked="" type="checkbox"/> Municipal Water Utility (Specify City): _____ | <input type="checkbox"/> Other (Specify): _____ |

IF MORE THAN ONE WELL OR SURFACE INTAKE, PROVIDE DATA FOR EACH ON AN ATTACHMENT

City: .03 MGD* Well: _____ MGD* Well Depth: _____ Ft. Latitude: _____ Longitude: _____

Surface Intake Volume: _____ MGD* Intake Elevation in Relation to Bottom: _____ Ft.

Intake Elevation: _____ Ft. Latitude: _____ Longitude: _____

Name of Surface Water Source: _____

* MGD – Million Gallons per Day

Cooling Water Intake Structure Information

Complete D.1 and D.2 if your water supply is provided by an outside source and not by an onsite water intake structure? (e.g., another industry, municipality, etc...)

1. Does the provider of your source water operate a surface water intake? Yes No
(If yes, continue, if no, go to Section E.)

a) Name of Provider: US Army-Redstone Dept. Public Works b) Location of Provider: Redstone Arsenal, AL
c) Latitude: 34.63 Longitude: -86.64

2. Is the provider a public water system (defined as a system which provides water to the public for human consumption or which provides only treated water, not raw water)? Yes No (If yes, go to Section E, if no, continue.)

Only to be completed if you have a cooling water intake structure or the provider of your water supply uses an intake structure and does not treat the raw water.

3. Is any water withdrawn from the source water used for cooling? Yes No

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

5. Does the cooling water consist of treated effluent that would otherwise be discharged? Yes No
(If yes, go to Section E, if no, complete D.6 – D.17)

6. a. Is the cooling water used in a once-through cooling system? Yes No

b. Is the cooling water used in a closed cycle cooling system? Yes No

7. When was the intake installed? _____
(Please provide dates for all major construction/installation of intake components including screens)

8. What is the maximum intake volume? _____
(maximum pumping capacity in gallons per day)

9. What is the average intake volume? _____
(average intake pump rate in gallons per day average in any 30-day period)

10. What is the actual intake flow (AIF) as defined in 40 CFR §125.92(a)? _____ MGD

11. How is the intake operated? (e.g., continuously, intermittently, batch) _____

12. What is the mesh size of the screen on your intake? _____

13. What is the intake screen flow-through area? _____

14. What is the through-screen design intake flow velocity? _____ ft/sec

15. What is the through-screen actual velocity (in ft/sec)? _____ ft/sec

16. What is the mechanism for cleaning the screen? (e.g., does it rotate for cleaning) _____

17. Do you have any additional fish detraction technology on your intake? Yes No

18. Have there been any studies to determine the impact of the intake on aquatic organisms? Yes No (If yes, please provide.)

19. Attach a site map showing the location of the water intake in relation to the facility, shoreline, water depth, etc.

SECTION E – WASTE STORAGE AND DISPOSAL INFORMATION

Provide a description of the location of all sites involved in the storage of solids or liquids that could be accidentally discharged to a water of the state, either directly or indirectly via such avenues as storm water drainage, municipal wastewater systems, etc., which are located at the facility for which the NPDES application is being made. Where possible, the location should be noted on a map and included with this application:

Description of Waste	Description of Storage Location
Hazardous Waste consisting of oil/water/IPC, Used Oil	Hazardous Waste Storage Pad (Bldg 5554, See Map)
Fuel Oil Storage (emptied)	Double Walled Storage Tank (Bldg 5584, See Map)

SECTION F – COASTAL ZONE INFORMATION

Is the discharge(s) located within the 10-foot elevation contour and within the limits of Mobile or Baldwin County? Yes No
 If yes, complete items F.1 – F.12:

- | | Yes | No |
|---|--------------------------|--------------------------|
| 1. Does the project require new construction? | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Will the project be a source of new air emissions? | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Does the project involve dredging and/or filling of a wetland area or water way? | <input type="checkbox"/> | <input type="checkbox"/> |
| If Yes, has the Corps of Engineers (COE) permit been received? | <input type="checkbox"/> | <input type="checkbox"/> |
| COE Project No. _____ | | |
| 4. Does the project involve wetlands and/or submersed grassbeds? | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. Are oyster reefs located near the project site? | <input type="checkbox"/> | <input type="checkbox"/> |
| If Yes, include a map showing project and discharge location with respect to oyster reefs | | |
| 6. Does the project involve the site development, construction and operation of an energy facility as defined in ADEM Admin. Code r. 335-8-1-.02(bb)? | <input type="checkbox"/> | <input type="checkbox"/> |
| 7. Does the project involve mitigation of shoreline or coastal area erosion? | <input type="checkbox"/> | <input type="checkbox"/> |
| 8. Does the project involve construction on beaches or dune areas? | <input type="checkbox"/> | <input type="checkbox"/> |
| 9. Will the project interfere with public access to coastal waters? | <input type="checkbox"/> | <input type="checkbox"/> |
| 10. Does the project lie within the 100-year floodplain? | <input type="checkbox"/> | <input type="checkbox"/> |
| 11. Does the project involve the registration, sale, use, or application of pesticides? | <input type="checkbox"/> | <input type="checkbox"/> |
| 12. Does the project propose or require construction of a new well or to alter an existing groundwater well to pump more than 50 gallons per day (GPD)? | <input type="checkbox"/> | <input type="checkbox"/> |
| If yes, has the applicable permit for groundwater recovery or for groundwater well installation been obtained? | <input type="checkbox"/> | <input type="checkbox"/> |

SECTION G – ANTI-DEGRADATION EVALUATION

In accordance with 40 CFR §131.12 and the ADEM Admin. Code r. 335-6-10-.04 for anti-degradation, the following information must be provided, if applicable. It is the applicant's responsibility to demonstrate the social and economic importance of the proposed activity. If further information is required to make this demonstration, attach additional sheets to the application.

1. Is this a new or increased discharge that began after April 3, 1991? Yes No
 If yes, complete G.2 below. If no, go to Section H.

2. Has an Anti-Degradation Analysis been previously conducted and submitted to the Department for the new or increased discharge referenced in G.1? Yes No

If yes, do not complete this section. If no, and the discharge is to a Tier II waterbody as defined in ADEM Admin. Code r. 335-6-10-.12(4), complete G.2.A – G.2.F below and ADEM Forms 311 and 313 (attached). ADEM Form 313 must be provided for each alternative considered technically viable.

Information required for new or increased discharges to high quality waters:

A. What environmental or public health problem will the discharger be correcting?

B. How much will the discharger be increasing employment (at its existing facility or as the result of locating a new facility)?

C. How much reduction in employment will the discharger be avoiding?

D. How much additional state or local taxes will the discharger be paying?

E. What public service to the community will the discharger be providing?

F. What economic or social benefit will the discharger be providing to the community?

SECTION H – EPA Application Forms

All Applicants must submit EPA permit application forms. More than one application form may be required from a facility depending on the number and types of discharges or outfalls found. The EPA application forms are found on the Department's website at <http://www.adem.alabama.gov/programs/water/waterforms.cnt> . The EPA application forms must be submitted in duplicate as follows:

1. All applicants must submit Form 1.
2. Applicants for existing industrial facilities (including manufacturing facilities, commercial facilities, mining activities, and silvicultural activities) which discharge process wastewater must submit Form 2C.
3. Applicants for new industrial facilities which propose to discharge process wastewater must submit Form 2D.
4. Applicants for new and existing industrial facilities which discharge only non-process wastewater (i.e., non-contact cooling water and/or sanitary wastewater) must submit Form 2E.
5. Applicants for new and existing facilities whose discharge is composed entirely of storm water associated with industrial activity must submit Form 2F, unless exempted by § 122.26(c)(1)(ii). If the discharge is composed of storm water and non-storm water, the applicant must also submit Forms 2C, 2D, and/or 2E, as appropriate (in addition to Form 2F).

SECTION I – ENGINEERING REPORT/BMP PLAN REQUIREMENTS

See ADEM 335-6-6-.08(i) & (j)

SECTION J- RECEIVING WATERS

Outfall No	Receiving Water(s)	303(d) Segment?		Included In TMDL?*	
	NA	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No
		<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No
		<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No
		<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No
		<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Yes	<input type="checkbox"/> No

*If a TMDL Compliance Schedule is requested, the following should be attached as supporting documentation.

- (1) Justification for the requested Compliance Schedule (e.g. time for design and installation of control equipment, etc.),
- (2) Monitoring results for the pollutant(s) of concern which have not previously been submitted to the Department (sample collection dates, analytical results (mass and concentration), methods utilized, MDL/ML, etc. should be submitted as available),
- (3) Requested interim limitations, if applicable,
- (4) Date of final compliance with the TMDL limitations, and,
- (5) Any other additional information available to support requested compliance schedule.

SECTION K - APPLICATION CERTIFICATION

The information contained in this form must be certified by a responsible official as defined in ADEM Administrative Code r 335-6-6-.09 "signatories to permit applications and reports" (see below).

"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."

Signature of Responsible Official P. B. Hubler Date Signed 3/23/21
 Name PAUL B. HUBLER Title PLANT MANAGER

If the Responsible Official signing this application is not identified in Section A 7, provide the following information

Mailing Address: _____


City: _____ State _____ Zip _____

Phone Number _____ Email Address _____

335-6-6-.09 SIGNATORIES TO PERMIT APPLICATIONS AND REPORTS.

- (1) The application for an NPDES permit shall be signed by a responsible official, as indicated below.
 - (a) In the case of a corporation, by a principal executive officer of at least the level of vice president, or a manager assigned or delegated in accordance with corporate procedures, with such delegation submitted in writing if required by the Department, who is responsible for manufacturing, production, or operating facilities and is authorized to make management decisions which govern the operation of the regulated facility,
 - (b) In the case of a partnership, by a general partner,
 - (c) In the case of a sole proprietorship, by the proprietor; or
 - (d) In the case of a municipal, state, federal, or other public entity, by either a principal executive officer, or ranking elected official.

EPA Identification Number	NPDES Permit Number AL0000345	Facility Name ISP Chemicals LLC	Form Approved 03/05/19 OMB No. 2040-0004
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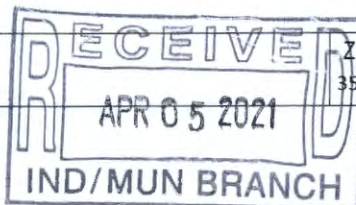
Form 1 NPDES		U.S. Environmental Protection Agency Application for NPDES Permit to Discharge Wastewater GENERAL INFORMATION
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SECTION 1. ACTIVITIES REQUIRING AN NPDES PERMIT (40 CFR 122.21(f) and (f)(1))

Activities Requiring an NPDES Permit	1.1 Applicants Not Required to Submit Form 1	
	1.1.1	Is the facility a new or existing publicly owned treatment works ? If yes, STOP. Do NOT complete Form 1. Complete Form 2A. <input type="checkbox"/> No
	1.1.2	Is the facility a new or existing treatment works treating domestic sewage ? If yes, STOP. Do NOT complete Form 1. Complete Form 2S. <input type="checkbox"/> No
	1.2 Applicants Required to Submit Form 1	
	1.2.1	Is the facility a concentrated animal feeding operation or a concentrated aquatic animal production facility ? <input type="checkbox"/> Yes → Complete Form 1 and Form 2B. <input type="checkbox"/> No
	1.2.2	Is the facility an existing manufacturing, commercial, mining, or silvicultural facility that is currently discharging process wastewater ? <input type="checkbox"/> Yes → Complete Form 1 and Form 2C. <input type="checkbox"/> No
1.2.3	Is the facility a new manufacturing, commercial, mining, or silvicultural facility that has not yet commenced to discharge ? <input type="checkbox"/> Yes → Complete Form 1 and Form 2D. <input type="checkbox"/> No	
1.2.4	Is the facility a new or existing manufacturing, commercial, mining, or silvicultural facility that discharges only nonprocess wastewater ? <input checked="" type="checkbox"/> Yes → Complete Form 1 and Form 2E. <input type="checkbox"/> No	
1.2.5	Is the facility a new or existing facility whose discharge is composed entirely of stormwater associated with industrial activity or whose discharge is composed of both stormwater and non-stormwater ? <input checked="" type="checkbox"/> Yes → Complete Form 1 and Form 2F unless exempted by 40 CFR 122.26(b)(14)(x) or (b)(15). <input type="checkbox"/> No	

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

Name, Mailing Address, and Location	2.1	Facility Name		
		ISP Chemicals LLC		
	2.2	EPA Identification Number		
		AL0000345		
	2.3	Facility Contact		
		Name (first and last) Paul Hubler	Title Plant manager	Phone number (256) 882-0177
		Email address phubler@ashland.com		
	2.4	Facility Mailing Address		
	Street or P.O. box P.O. Box 25			
	City or town Huntsville	State Al	ZIP code 35804	



Name, Mailing Address, and Location Continued	2.5	Facility Location		
	Street, route number, or other specific identifier Building 5565, Industrial Rd.			
	County name Madison		County code (if known)	
	City or town Redstone Arsenal		State AL	ZIP code 35898

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

SIC and NAICS Codes	3.1	SIC Code(s)		Description (optional)	
		2819		Industrial Inorganic Chemicals	
	3.2	NAICS Code(s)		Description (optional)	

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

Operator Information	4.1	Name of Operator			
	ISP Chemicals LLC				
	4.2	Is the name you listed in Item 4.1 also the owner?			
	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
4.3	Operator Status				
	<input type="checkbox"/> Public—federal		<input type="checkbox"/> Public—state		<input type="checkbox"/> Other public (specify) _____
	<input checked="" type="checkbox"/> Private		<input type="checkbox"/> Other (specify) _____		
4.4	Phone Number of Operator				
	(256) 882-0177				
Operator Information Continued	4.5	Operator Address			
	Street or P.O. Box P.O. Box 25				
	City or town Huntsville		State AL	ZIP code 35804	
	Email address of operator phubler@ashland.com				

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

Indian Land	5.1	Is the facility located on Indian Land?			
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					

EPA Identification Number	NPDES Permit Number AL0000345	Facility Name ISP Chemicals LLC	Form Approved 03/05/19 OMB No. 2040-0004
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SECTION 6. EXISTING ENVIRONMENTAL PERMITS (40 CFR 122.21(f)(6))

Existing Environmental Permits	6.1	Existing Environmental Permits (check all that apply and print or type the corresponding permit number for each)				
	<input checked="" type="checkbox"/>	NPDES (discharges to surface water) AL 000345	<input checked="" type="checkbox"/>	RCRA (hazardous wastes) ALD004010468	<input type="checkbox"/>	UIC (underground injection of fluids)
	<input type="checkbox"/>	PSD (air emissions)	<input type="checkbox"/>	Nonattainment program (CAA)	<input type="checkbox"/>	NESHAPs (CAA)
<input type="checkbox"/>	Ocean dumping (MPRSA)	<input type="checkbox"/>	Dredge or fill (CWA Section 404)	<input checked="" type="checkbox"/>	Other (specify) IU08500028 (SID Permit)	

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

Map	7.1	Have you attached a topographic map containing all required information to this application? (See instructions for specific requirements.) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> CAFO—Not Applicable (See requirements in Form 2B.)
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SECTION 8. NATURE OF BUSINESS (40 CFR 122.21(f)(8))

Nature of Business	8.1	Describe the nature of your business. ISP is a chemical manufacturing facility located at Building 5565, Industrial Road, on Redstone Arsenal. The facility's process involves reacting a highly pure, coarse, iron, known as iron flake, with hydrogen at an elevated temperature and pressure. The activated iron is then reacted with carbon monoxide to produce Iron Pentacarbonyl (IPC) liquid. The IPC liquid is utilized primarily as an intermediate product, however it is also a sell-able product. The intermediate portion of the IPC is metered into heated vessels and decomposed in the presence of Anhydrous Ammonia, a catalyst, to produce a very finely divided, high purity, iron powder. The iron powder is separated from the carbon monoxide gas, with the gas being recycled to the carbonylization unit after passing through a water scrubber.
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SECTION 9. COOLING WATER INTAKE STRUCTURES (40 CFR 122.21(f)(9))

Cooling Water Intake Structures	9.1	Does your facility use cooling water? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Item 10.1.
	9.2	Identify the source of cooling water. (Note that facilities that use a cooling water intake structure as described at 40 CFR 125, Subparts I and J may have additional application requirements at 40 CFR 122.21(r). Consult with your NPDES permitting authority to determine what specific information needs to be submitted and when.) non-contact cooling water and cooling tower blow-down Into Outfall 002.

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

Variance Requests	10.1	Do you intend to request or renew one or more of the variances authorized at 40 CFR 122.21(m)? (Check all that apply. Consult with your NPDES permitting authority to determine what information needs to be submitted and when.)	
<input type="checkbox"/>	Fundamentally different factors (CWA Section 301(n))	<input type="checkbox"/>	Water quality related effluent limitations (CWA Section 302(b)(2))
<input type="checkbox"/>	Non-conventional pollutants (CWA Section 301(c) and (g))	<input type="checkbox"/>	Thermal discharges (CWA Section 316(a))
<input checked="" type="checkbox"/>	Not applicable		

EPA Identification Number	NPDES Permit Number AL0000345	Facility Name ISP Chemicals LLC
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Form Approved 03/05/19
OMB No 2040-0004

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

Checklist and Certification Statement	11 1	In Column 1 below, mark the sections of Form 1 that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing to alert the permitting authority. Note that not all applicants are required to provide attachments.	
		Column 1	Column 2
	<input checked="" type="checkbox"/>	Section 1 Activities Requiring an NPDES Permit	<input type="checkbox"/> w/ attachments
	<input checked="" type="checkbox"/>	Section 2 Name, Mailing Address, and Location	<input type="checkbox"/> w/ attachments
	<input checked="" type="checkbox"/>	Section 3 SIC Codes	<input type="checkbox"/> w/ attachments
	<input checked="" type="checkbox"/>	Section 4: Operator Information	<input type="checkbox"/> w/ attachments
	<input checked="" type="checkbox"/>	Section 5 Indian Land	<input type="checkbox"/> w/ attachments
	<input checked="" type="checkbox"/>	Section 6 Existing Environmental Permits	<input type="checkbox"/> w/ attachments
	<input checked="" type="checkbox"/>	Section 7 Map	<input checked="" type="checkbox"/> w/ topographic map <input type="checkbox"/> w/ additional attachments
	<input checked="" type="checkbox"/>	Section 8 Nature of Business	<input type="checkbox"/> w/ attachments
	<input checked="" type="checkbox"/>	Section 9 Cooling Water Intake Structures	<input type="checkbox"/> w/ attachments
	<input checked="" type="checkbox"/>	Section 10: Variance Requests	<input type="checkbox"/> w/ attachments
	<input checked="" type="checkbox"/>	Section 11. Checklist and Certification Statement	<input type="checkbox"/> w/ attachments
11 2	Certification Statement <i>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>		
	Name (print or type first and last name)	Official title	
	PAUL HUBLER	PLANT MANAGER	
	Signature	Date signed	
	<i>Paul Hubler</i>	3/23/21	

U.S. Environmental Protection Agency
Application for NPDES Permit to Discharge Wastewater
MANUFACTURING, COMMERCIAL, MINING, AND SILVICULTURAL FACILITIES WHICH DISCHARGE ONLY NONPROCESS WASTEWATER

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

Outfall Location	1.1	Provide information on each of the facility's outfalls in the table below.				
		Outfall Number	Receiving Water Name	Latitude		Longitude
		001	All Outfalls discharge to	34° 37' 53" N		86° 38' 10" W
		002	an unnamed tributary	34° 57' 10" N		86° 38' 10" W
	003	of Huntsville Spring Branch	34° 57' 47" N		86° 38' 14" W	

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

Discharge Date	2.1	Are you a new or existing discharger? (Check only one response.) <input type="checkbox"/> New discharger <input checked="" type="checkbox"/> Existing discharger → SKIP to Section 3.
	2.2	Specify your anticipated discharge date:

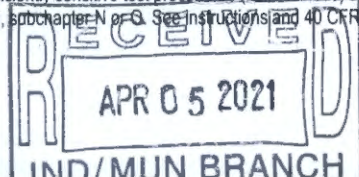
SECTION 3. WASTE TYPES (40 CFR 122.21(h)(3))

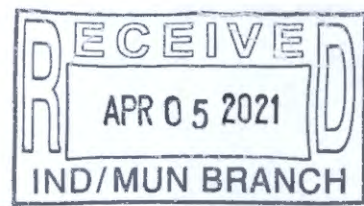
Waste Types	3.1	What types of wastes are currently being discharged if you are an existing discharger or will be discharged if you are a new discharger? (Check all that apply.) <input type="checkbox"/> Sanitary wastes <input type="checkbox"/> Other nonprocess wastewater (describe/explain directly below) <input type="checkbox"/> Restaurant or cafeteria waste <input checked="" type="checkbox"/> Non-contact cooling water				
	3.2	Does the facility use cooling water additives? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Section 4.				
	3.3	List the cooling water additives used and describe their composition.				
		<table border="1"> <thead> <tr> <th>Cooling Water Additives (list)</th> <th>Composition of Additives (if available to you)</th> </tr> </thead> <tbody> <tr> <td>*DREW 2215, Biosphere 3001 & 535 Microbiocide</td> <td>*Phosphonic Acid Derivative, Hypochlorite Solution, Tetrakis(hydroxymethyl) Phosphonium Sulfate</td> </tr> </tbody> </table>	Cooling Water Additives (list)	Composition of Additives (if available to you)	*DREW 2215, Biosphere 3001 & 535 Microbiocide	*Phosphonic Acid Derivative, Hypochlorite Solution, Tetrakis(hydroxymethyl) Phosphonium Sulfate
Cooling Water Additives (list)	Composition of Additives (if available to you)					
*DREW 2215, Biosphere 3001 & 535 Microbiocide	*Phosphonic Acid Derivative, Hypochlorite Solution, Tetrakis(hydroxymethyl) Phosphonium Sulfate					

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

Effluent Characteristics	4.1	Have you completed monitoring for all parameters in the table below at each of your outfalls and attached the results to this application package? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No; a waiver has been requested from my NPDES permitting authority (attach waiver request and additional information) → SKIP to Section 5.						
	4.2	Provide data as requested in the table below. ¹ (See instructions for specifics.)						
		Parameter or Pollutant	Number of Analyses (if actual data reported)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Source (use codes per instructions)
				Mass	Conc.	Mass	Conc.	
		Biochemical oxygen demand (BOD ₅)	NA	NA	NA	NA	NA	Outfall 001
		Total suspended solids (TSS)	1	NA	126 mg/L	NA	NA	Outfall 001
		Oil and grease	1	NA	0 mg/L	NA	NA	Outfall 001
		Ammonia (as N)	NA	NA	NA	NA	NA	Outfall 001
		Discharge flow	1	.0039 MGD				Outfall 001
		pH (report as range)	1	7.72				Outfall 001
	Temperature (winter)	NA	NA				Outfall 001	
	Temperature (summer)	NA	NA				Outfall 001	

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 AL0000345	Facility Name ISP Chemicals LLC	Form Approved 03/05/19 OMB No. 2040-0004
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FORM 2E NPDES		U.S. Environmental Protection Agency Application for NPDES Permit to Discharge Wastewater MANUFACTURING, COMMERCIAL, MINING, AND SILVICULTURAL FACILITIES WHICH DISCHARGE ONLY NONPROCESS WASTEWATER
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SECTION 1. OUTFALL LOCATION (40 CFR 122.21(h)(1))

Outfall Location	1.1	Provide information on each of the facility's outfalls in the table below.				
		Outfall Number	Receiving Water Name	Latitude	Longitude	
		001	All Outfalls discharge to	34° 37' 53" N	86° 38' 10" W	
		002	an unnamed tributary	34° 57' 10" N	86° 38' 10" W	
		003	of Huntsville Spring Branch	34° 57' 47" N	86° 38' 14" W	

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

Discharge Date	2.1	Are you a new or existing discharger? (Check only one response.) <input type="checkbox"/> New discharger <input checked="" type="checkbox"/> Existing discharger → SKIP to Section 3.
	2.2	Specify your anticipated discharge date:

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

Waste Types	3.1	What types of wastes are currently being discharged if you are an existing discharger or will be discharged if you are a new discharger? (Check all that apply.) <input type="checkbox"/> Sanitary wastes <input type="checkbox"/> Restaurant or cafeteria waste <input checked="" type="checkbox"/> Non-contact cooling water <input type="checkbox"/> Other nonprocess wastewater (describe/explain directly below)		
	3.2	Does the facility use cooling water additives? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Section 4.		
	3.3	List the cooling water additives used and describe their composition.		
		<table border="1"> <thead> <tr> <th>Cooling Water Additives (list)</th> <th>Composition of Additives (if available to you)</th> </tr> </thead> <tbody> <tr> <td>*DREW 2215, Biosphere 3001 & 535 Microbiocide</td> <td>*Phosphonic Acid Derivative, Hypochlorite Solution, Tetrakis(hydroxymethyl) Phosphonium Sulfate</td> </tr> </tbody> </table>	Cooling Water Additives (list)	Composition of Additives (if available to you)
Cooling Water Additives (list)	Composition of Additives (if available to you)			
*DREW 2215, Biosphere 3001 & 535 Microbiocide	*Phosphonic Acid Derivative, Hypochlorite Solution, Tetrakis(hydroxymethyl) Phosphonium Sulfate			

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

Effluent Characteristics	4.1	Have you completed monitoring for all parameters in the table below at each of your outfalls and attached the results to this application package? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No; a waiver has been requested from my NPDES permitting authority (attach waiver request and additional information) → SKIP to Section 5.						
	4.2	Provide data as requested in the table below. ¹ (See instructions for specifics.)						
		Parameter or Pollutant	Number of Analyses (if actual data reported)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Source (use codes per instructions)
				Mass	Conc.	Mass	Conc.	
		Biochemical oxygen demand (BOD ₅)	NA	NA	NA	NA	NA	Outfall 003
		Total suspended solids (TSS)	1	NA	118 mg/L	NA	NA	Outfall 003
		Oil and grease	1	NA	0 mg/L	NA	NA	Outfall 003
		Ammonia (as N)	NA	NA	NA	NA	NA	Outfall 003
		Discharge flow	1		.0088	MGD		Outfall 003
		pH (report as range)	1		7.72			Outfall 003
Temperature (winter)	NA		NA			Outfall 003		
Temperature (summer)	NA		NA			Outfall 003		

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

Effluent Characteristics Continued	4.3	Is fecal coliform believed present, or is sanitary waste discharged (or will it be discharged)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 4.5.						
	4.4	Provide data as requested in the table below. ¹ (See instructions for specifics.)						
		Parameter or Pollutant	Number of Analyses <small>(if actual data reported)</small>	Maximum Daily Discharge <small>(specify units)</small>		Average Daily Discharge <small>(specify units)</small>		Source <small>(Use codes per instructions.)</small>
				Mass	Conc.	Mass	Conc.	
		Fecal coliform						
	<i>E. coli</i>							
	Enterococci							
	4.5	Is chlorine used (or will it be used)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 4.7.						
	4.6	Provide data as requested in the table below. ¹ (See instructions for specifics.)						
		Parameter or Pollutant	Number of Analyses <small>(if actual data reported)</small>	Maximum Daily Discharge <small>(specify units)</small>		Average Daily Discharge <small>(specify units)</small>		Source <small>(use codes per instructions)</small>
Mass				Conc.	Mass	Conc.		
Total Residual Chlorine								
4.7	Is non-contact cooling water discharged (or will it be discharged)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Section 5.							
4.8	Provide data as requested in the table below. ¹ (See instructions for specifics.)							
	Parameter or Pollutant	Number of Analyses <small>(if actual data reported)</small>	Maximum Daily Discharge <small>(specify units)</small>		Average Daily Discharge <small>(specify units)</small>		Source <small>(use codes per instructions)</small>	
			Mass	Conc.	Mass	Conc.		
Chemical oxygen demand (COD)	1	NA	67.2 mg/L	NA	NA	Outfall 001		
Total organic carbon (TOC)	1	NA	8.7 mg/L	NA	NA	Outfall 001		

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

Flow	5.1	Except for stormwater runoff, leaks, or spills, are any of the discharges you described in Sections 1 and 3 of this application intermittent or seasonal? <input type="checkbox"/> Yes → Complete this section. <input checked="" type="checkbox"/> No → SKIP to Section 6.					
	5.2	Briefly describe the frequency and duration of flow.					

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

Treatment System	6.1	Briefly describe any treatment system(s) used (or to be used). No Treatment Systems are Used					
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¹ Sampling shall be conducted according to sufficiently sensitive test procedures (i.e., methods) approved under 40 CFR 136 for the analysis of pollutants or pollutant parameters or required under 40 CFR chapter I, subchapter N or O. See instructions and 40 CFR 122.21(e)(3).

Effluent Characteristics Continued	4.3	Is fecal coliform believed present, or is sanitary waste discharged (or will it be discharged)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 4.5.						
	4.4	Provide data as requested in the table below. ¹ (See instructions for specifics.)						
		Parameter or Pollutant	Number of Analyses (if actual data reported)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Source (Use codes per instructions.)
				Mass	Conc.	Mass	Conc.	
		Fecal coliform						
	<i>E. coli</i>							
	Enterococci							
	4.5	Is chlorine used (or will it be used)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 4.7.						
	4.6	Provide data as requested in the table below. ¹ (See instructions for specifics.)						
		Parameter or Pollutant	Number of Analyses (if actual data reported)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Source (use codes per instructions)
Mass				Conc.	Mass	Conc.		
Total Residual Chlorine								
4.7	Is non-contact cooling water discharged (or will it be discharged)? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Section 5.							
4.8	Provide data as requested in the table below. ¹ (See instructions for specifics.)							
	Parameter or Pollutant	Number of Analyses (if actual data reported)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Source (use codes per instructions)	
			Mass	Conc.	Mass	Conc.		
	Chemical oxygen demand (COD)	1	NA	53.2 mg/L	NA	NA	Outfall 003	
Total organic carbon (TOC)	1	NA	5.90 mg/L	NA	NA	Outfall 003		

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

Flow	5.1	Except for stormwater runoff, leaks, or spills, are any of the discharges you described in Sections 1 and 3 of this application intermittent or seasonal? <input type="checkbox"/> Yes → Complete this section. <input checked="" type="checkbox"/> No → SKIP to Section 6.					
	5.2	Briefly describe the frequency and duration of flow.					

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

Treatment System	6.1	Briefly describe any treatment system(s) used (or to be used). No Treatment Systems are Used					
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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).

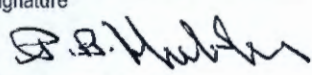
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SECTION 7. OTHER INFORMATION (40 CFR 122.21(h)(7))

Other Information	7.1	Use the space below to expand upon any of the above items. Use this space to provide any information you believe the reviewer should consider in establishing permit limitations. Attach additional sheets as needed. Discharges result from non-contact cooling water and cooling water tower blow-down
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SECTION 8. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d))

Checklist and Certification Statement	8.1	In Column 1 below, mark the sections of Form 2E that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing to alert the permitting authority. Note that not all applicants are required to provide attachments.	
		Column 1	Column 2
		<input checked="" type="checkbox"/> Section 1: Outfall Location	<input type="checkbox"/> w/ attachments (e.g., responses for additional outfalls)
		<input checked="" type="checkbox"/> Section 2: Discharge Date	<input type="checkbox"/> w/ attachments
		<input checked="" type="checkbox"/> Section 3: Waste Types	<input type="checkbox"/> w/ attachments
		<input checked="" type="checkbox"/> Section 4: Effluent Characteristics	<input checked="" type="checkbox"/> w/ attachments
		<input checked="" type="checkbox"/> Section 5: Flow	<input type="checkbox"/> w/ attachments
		<input checked="" type="checkbox"/> Section 6: Treatment System	<input type="checkbox"/> w/ attachments
		<input checked="" type="checkbox"/> Section 7: Other Information	<input type="checkbox"/> w/ attachments
		<input checked="" type="checkbox"/> Section 8: Checklist and Certification Statement	<input type="checkbox"/> w/ attachments
	8.2	<p>Certification Statement</p> <p><i>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></p>	
		Name (print or type first and last name) PAUL HUBLER	Official title PLANT MANAGER
		Signature 	Date signed 3/23/21

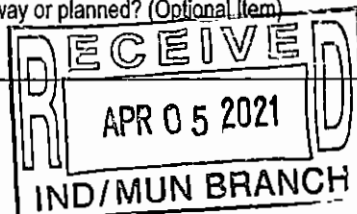
Form 2F NPDES		U.S Environmental Protection Agency Application for NPDES Permit to Discharge Wastewater STORMWATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY
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SECTION 1. OUTFALL LOCATION (40 CFR 122.21(g)(1))

Outfall Location	1.1	Provide information on each of the facility's outfalls in the table below							
		Outfall Number	Receiving Water Name	Latitude			Longitude		
		001	Unnamed Tributary of Huntsville Spring Branch	34°	37'	53" N	86°	38'	10" W
		002	Unnamed Tributary of Huntsville Spring Branch	34°	57'	10" N	86°	38'	10" W
		003	Unnamed Tributary of Huntsville Spring Branch	34°	37'	47" N	86°	38'	14" W
				°	'	"	°	'	"
				°	'	"	°	'	"

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

Improvements	2.1	Are you presently required by any federal, state, or local authority to meet an implementation schedule for constructing, upgrading, or operating wastewater treatment equipment or practices or any other environmental programs that could affect the discharges described in this application? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Section 3.					
	2.2	Briefly identify each applicable project in the table below.					
		Brief Identification and Description of Project	Affected Outfalls (list outfall numbers)	Source(s) of Discharge		Final Compliance Dates	
						Required	Projected
2.3	Have you attached sheets describing any additional water pollution control programs (or other environmental projects that may affect your discharges) that you now have underway or planned? (Optional Item) <input type="checkbox"/> Yes <input type="checkbox"/> No						



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

Site Drainage Map	3.1	Have you attached a site drainage map containing all required information to this application? (See instructions for specific guidance.)
		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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

Pollutant Sources	4.1	Provide information on the facility's pollutant sources in the table below.																							
		<table border="1"> <thead> <tr> <th>Outfall Number</th> <th>Impervious Surface Area (within a mile radius of the facility)</th> <th>Total Surface Area Drained (within a mile radius of the facility)</th> </tr> </thead> <tbody> <tr> <td>001</td> <td>10569.68 <i>specify units</i> ft²</td> <td>28511.52 <i>specify units</i> ft²</td> </tr> <tr> <td>003</td> <td>15597.52 <i>specify units</i> ft²</td> <td>92236.33 <i>specify units</i> ft²</td> </tr> <tr> <td>002</td> <td>13742.69 <i>specify units</i> ft²</td> <td>41054.26 <i>specify units</i> ft²</td> </tr> <tr> <td></td> <td><i>specify units</i></td> <td><i>specify units</i></td> </tr> <tr> <td></td> <td><i>specify units</i></td> <td><i>specify units</i></td> </tr> <tr> <td></td> <td><i>specify units</i></td> <td><i>specify units</i></td> </tr> </tbody> </table>	Outfall Number	Impervious Surface Area (within a mile radius of the facility)	Total Surface Area Drained (within a mile radius of the facility)	001	10569.68 <i>specify units</i> ft ²	28511.52 <i>specify units</i> ft ²	003	15597.52 <i>specify units</i> ft ²	92236.33 <i>specify units</i> ft ²	002	13742.69 <i>specify units</i> ft ²	41054.26 <i>specify units</i> ft ²		<i>specify units</i>	<i>specify units</i>		<i>specify units</i>	<i>specify units</i>		<i>specify units</i>	<i>specify units</i>		
	Outfall Number	Impervious Surface Area (within a mile radius of the facility)	Total Surface Area Drained (within a mile radius of the facility)																						
	001	10569.68 <i>specify units</i> ft ²	28511.52 <i>specify units</i> ft ²																						
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		<i>specify units</i>	<i>specify units</i>																						
		<i>specify units</i>	<i>specify units</i>																						
	4.2	Provide a narrative description of the facility's significant material in the space below. (See instructions for content requirements.) No raw, work-in-progress, or finished goods are exposed to rainwater. Efforts have been made to minimize rainwater contact with the non-hazardous unreacted iron stream by minimizing outside storage and holding time. Herbicides are sprayed minimally (around tanks containing flammable materials) 1/month or less during the summer months.																							
4.3	Provide the location and a description of existing structural and non-structural control measures to reduce pollutants in stormwater runoff. (See instructions for specific guidance.)																								
	<table border="1"> <thead> <tr> <th colspan="3">Stormwater Treatment</th> </tr> <tr> <th>Outfall Number</th> <th>Control Measures and Treatment</th> <th>Codes from Exhibit 2F-1 (list)</th> </tr> </thead> <tbody> <tr> <td>001</td> <td>no controls required for reduction of pollutants</td> <td>N/A</td> </tr> <tr> <td>002</td> <td>no controls required for reduction of pollutants</td> <td>N/A</td> </tr> <tr> <td>003</td> <td>no controls required for reduction of pollutants</td> <td>N/A</td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Stormwater Treatment			Outfall Number	Control Measures and Treatment	Codes from Exhibit 2F-1 (list)	001	no controls required for reduction of pollutants	N/A	002	no controls required for reduction of pollutants	N/A	003	no controls required for reduction of pollutants	N/A									
Stormwater Treatment																									
Outfall Number	Control Measures and Treatment	Codes from Exhibit 2F-1 (list)																							
001	no controls required for reduction of pollutants	N/A																							
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003	no controls required for reduction of pollutants	N/A																							

EPA Identification Number	NPDES Permit Number AL0000345	Facility Name ISP Chemicals LLC
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SECTION 5. NON STORMWATER DISCHARGES (40 CFR 122.26(c)(1)(i)(C))

Non-Stormwater Discharges	5.1	I certify under penalty of law that the outfall(s) covered by this application have been tested or evaluated for the presence of non-stormwater discharges. Moreover, I certify that the outfalls identified as having non-stormwater discharges are described in either an accompanying NPDES Form 2C, 2D, or 2E application.			
		Name (print or type first and last name)	Official title		
		PAUL HUBLER	PLANT MANAGER		
		Signature	Date signed		
		<i>P. B. Hubler</i>	3/23/21		
	5.2	Provide the testing information requested in the table below			
		Outfall Number	Description of Testing Method Used	Date(s) of Testing	Onsite Drainage Points Directly Observed During Test

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

Significant Leaks or Spills	6.1	Describe any significant leaks or spills of toxic or hazardous pollutants in the last three years. The facility has had no significant leaks or spill of a toxic or hazardous pollutant within the last 3 years.

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

Discharge Information	See the instructions to determine the pollutants and parameters you are required to monitor and, in turn, the tables you must complete. Not all applicants need to complete each table.	
	7.1	Is this a new source or new discharge?
		<input type="checkbox"/> Yes → See instructions regarding submission of <i>estimated data</i> <input checked="" type="checkbox"/> No → See instructions regarding submission of <i>actual data</i>
	Tables A, B, C, and D	
7.2	Have you completed Table A for each outfall?	
	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

EPA Identification Number	NPDES Permit Number AL0000345	Facility Name ISP Chemicals LLC	Form Approved 03/05/19 OMB No. 2040-0004
Discharge Information Continued	7.3	Is the facility subject to an effluent limitation guideline (ELG) or effluent limitations in an NPDES permit for its process wastewater? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 7.5.	
	7.4	Have you completed Table B by providing quantitative data for those pollutants that are (1) limited either directly or indirectly in an ELG and/or (2) subject to effluent limitations in an NPDES permit for the facility's process wastewater? <input type="checkbox"/> Yes <input type="checkbox"/> No	
	7.5	Do you know or have reason to believe any pollutants in Exhibit 2F-2 are present in the discharge? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Item 7.7.	
	7.6	Have you listed all pollutants in Exhibit 2F-2 that you know or have reason to believe are present in the discharge and provided quantitative data or an explanation for those pollutants in Table C? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	7.7	Do you qualify for a small business exemption under the criteria specified in the Instructions? <input type="checkbox"/> Yes → SKIP to Item 7.18. <input checked="" type="checkbox"/> No	
	7.8	Do you know or have reason to believe any pollutants in Exhibit 2F-3 are present in the discharge? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 7.10.	
	7.9	Have you listed all pollutants in Exhibit 2F-3 that you know or have reason to believe are present in the discharge in Table C? <input type="checkbox"/> Yes <input type="checkbox"/> No	
	7.10	Do you expect any of the pollutants in Exhibit 2F-3 to be discharged in concentrations of 10 ppb or greater? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 7.12.	
	7.11	Have you provided quantitative data in Table C for those pollutants in Exhibit 2F-3 that you expect to be discharged in concentrations of 10 ppb or greater? <input type="checkbox"/> Yes <input type="checkbox"/> No	
	7.12	Do you expect acrolein, acrylonitrile, 2,4-dinitrophenol, or 2-methyl-4,6-dinitrophenol to be discharged in concentrations of 100 ppb or greater? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 7.14.	
	7.13	Have you provided quantitative data in Table C for the pollutants identified in Item 7.12 that you expect to be discharged in concentrations of 100 ppb or greater? <input type="checkbox"/> Yes <input type="checkbox"/> No	
	7.14	Have you provided quantitative data or an explanation in Table C for pollutants you expect to be present in the discharge at concentrations less than 10 ppb (or less than 100 ppb for the pollutants identified in Item 7.12)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
	7.15	Do you know or have reason to believe any pollutants in Exhibit 2F-4 are present in the discharge? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 7.17.	
	7.16	Have you listed pollutants in Exhibit 2F-4 that you know or believe to be present in the discharge and provided an explanation in Table C? <input type="checkbox"/> Yes <input type="checkbox"/> No	
	7.17	Have you provided information for the storm event(s) sampled in Table D? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

Discharge Information Continued	Used or Manufactured Toxics		
	7.18	Is any pollutant listed on Exhibits 2F-2 through 2F-4 a substance or a component of a substance used or manufactured as an intermediate or final product or byproduct?	
		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Section 8.	
	7.19	List the pollutants below, including TCDD if applicable.	
	1.	4.	7.
	2.	5.	8.
	3.	6.	9.

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

Biological Toxicity Testing Data	8.1	Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last three years?		
		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Section 9.		
	8.2	Identify the tests and their purposes below.		
		Test(s)	Purpose of Test(s)	Submitted to NPDES Permitting Authority?
			<input type="checkbox"/> Yes <input type="checkbox"/> No	
			<input type="checkbox"/> Yes <input type="checkbox"/> No	
			<input type="checkbox"/> Yes <input type="checkbox"/> No	

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

Contract Analysis Information	9.1	Were any of the analyses reported in Section 7 (on Tables A through C) performed by a contract laboratory or consulting firm?		
		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Section 10.		
	9.2	Provide information for each contract laboratory or consulting firm below.		
		Laboratory Number 1	Laboratory Number 2	Laboratory Number 3
		Name of laboratory/firm	Pace	
		Laboratory address	2220 Beltline Road SW Decatur, AL 35601	
	Phone number			
	Pollutant(s) analyzed	Total Nitrogen Nitrate Nitrite TKN Iron		

EPA Identification Number

NPDES Permit Number
AL0000345Facility Name
ISP Chemicals LLCForm Approved 03/05/19
OMB No. 2040-0004**SECTION 10. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d))**

Checklist and Certification Statement	10 1	In Column 1 below, mark the sections of Form 2F that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing to alert the permitting authority. Note that not all applicants are required to complete all sections or provide attachments.	
		Column 1	Column 2
	<input checked="" type="checkbox"/>	Section 1	<input type="checkbox"/> w/ attachments (e.g., responses for additional outfalls)
	<input checked="" type="checkbox"/>	Section 2	<input type="checkbox"/> w/ attachments
	<input checked="" type="checkbox"/>	Section 3	<input checked="" type="checkbox"/> w/ site drainage map
	<input checked="" type="checkbox"/>	Section 4	<input type="checkbox"/> w/ attachments
	<input checked="" type="checkbox"/>	Section 5	<input type="checkbox"/> w/ attachments
	<input checked="" type="checkbox"/>	Section 6	<input type="checkbox"/> w/ attachments
	<input checked="" type="checkbox"/>	Section 7	<input checked="" type="checkbox"/> Table A <input type="checkbox"/> w/ small business exemption request <input checked="" type="checkbox"/> Table B <input checked="" type="checkbox"/> w/ analytical results as an attachment <input checked="" type="checkbox"/> Table C <input checked="" type="checkbox"/> Table D
	<input checked="" type="checkbox"/>	Section 8	<input type="checkbox"/> w/ attachments
	<input checked="" type="checkbox"/>	Section 9	<input type="checkbox"/> w/ attachments (e.g., responses for additional contact laboratories or firms)
	<input checked="" type="checkbox"/>	Section 10	<input type="checkbox"/>
	10 2	Certification Statement <i>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>	
	Name (print or type first and last name)	Official title	
	PAUL HUBLER	PLANT MANAGER	
	Signature	Date signed	
	P.B. Hubler	3/23/21	

EPA Identification Number	NPDES Permit Number AL0000345	Facility Name ISP Chemicals LLC	Outfall Number 001
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Form Approved 03/05/19
OMB No. 2040-0004

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

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

Pollutant or Parameter	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
1. Oil and grease	Not Detected		NA		1	
2. Biochemical oxygen demand (BOD ₅)	NA	NA	NA	NA		
3. Chemical oxygen demand (COD)	67.2 mg/l	NA	NA	NA	1	
4. Total suspended solids (TSS)	126 mg/l	NA	NA	NA	1	
5. Total phosphorus	NA	NA	NA	NA		
6. Total Kjeldahl nitrogen (TKN)	NA	NA	NA	NA		
7. Total nitrogen (as N)	2.56 mg/l	NA	NA	NA	1	
8. pH (minimum)			NA			
	pH (maximum)	7.72		NA	1	

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

EPA Identification Number	NPDES Permit Number AL0000345	Facility Name ISP Chemicals LLC	Outfall Number 001
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Form Approved 03/05/19
OMB No. 2040-0004

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

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

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

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

EPA Identification Number	NPDES Permit Number AL0000345	Facility Name ISP Chemicals LLC	Outfall Number 0D1
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Form Approved 03/05/19
OMB No. 2040-0004

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

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

Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
Iron, Total	7.48	NA	NA	NA	1	Outfall 0D1

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 AL0000345	Facility name ISP Chemicals LLC	Outfall Number 001
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Form Approved 03/05/19
OMB No. 2040-0004

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

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

Date of Storm Event	Duration of Storm Event (in hours)	Total Rainfall During Storm Event (in inches)	Number of Hours Between Beginning of Storm Measured and End of Previous Measurable Rain Event	Maximum Flow Rate During Rain Event (in gpm or specify units)	Total Flow from Rain Event (in gallons or specify units)
08/14/2020	1hour and 45 minutes	.90 inches	72+		Discharge: 6,956 gal/day

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

EPA Identification Number	NPDES Permit Number AL0000345	Facility Name ISP Chemicals LLC	Outfall Number 003
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Form Approved 03/05/19
OMB No. 2040-0004

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

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

Pollutant or Parameter	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
1. Oil and grease	Not Detected		NA		1	
2. Biochemical oxygen demand (BOD ₅)	NA	NA	NA	NA		
3. Chemical oxygen demand (COD)	53.2mg/l	NA	NA	NA	1	
4. Total suspended solids (TSS)	118 mg/l	NA	NA	NA	1	
5. Total phosphorus	NA	NA	NA	NA		
6. Total Kjeldahl nitrogen (TKN)	NA	NA	NA	NA		
7. Total nitrogen (as N)	3.40 mg/l	NA	NA	NA	1	
8. pH (minimum)			NA			
	7.76		NA		1	

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

EPA Identification Number	NPDES Permit Number AL0000345	Facility Name ISP Chemicals LLC	Outfall Number 003
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Form Approved 03/05/19
OMB No. 2040-0004

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

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

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

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

EPA Identification Number	NPDES Permit Number AL0000345	Facility Name ISP Chemicals LLC	Outfall Number 003
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Form Approved 03/05/19
OMB No. 2040-0004

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

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

Pollutant and CAS Number (if available)	Maximum Daily Discharge (specify units)		Average Daily Discharge (specify units)		Number of Storm Events Sampled	Source of Information (new source/new dischargers only; use codes in instructions)
	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-Weighted Composite		
Iron, Total	4.90	NA	NA	NA	1	Outfall 001

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 AL0000345	Facility name ISP Chemicals LLC	Outfall Number 003
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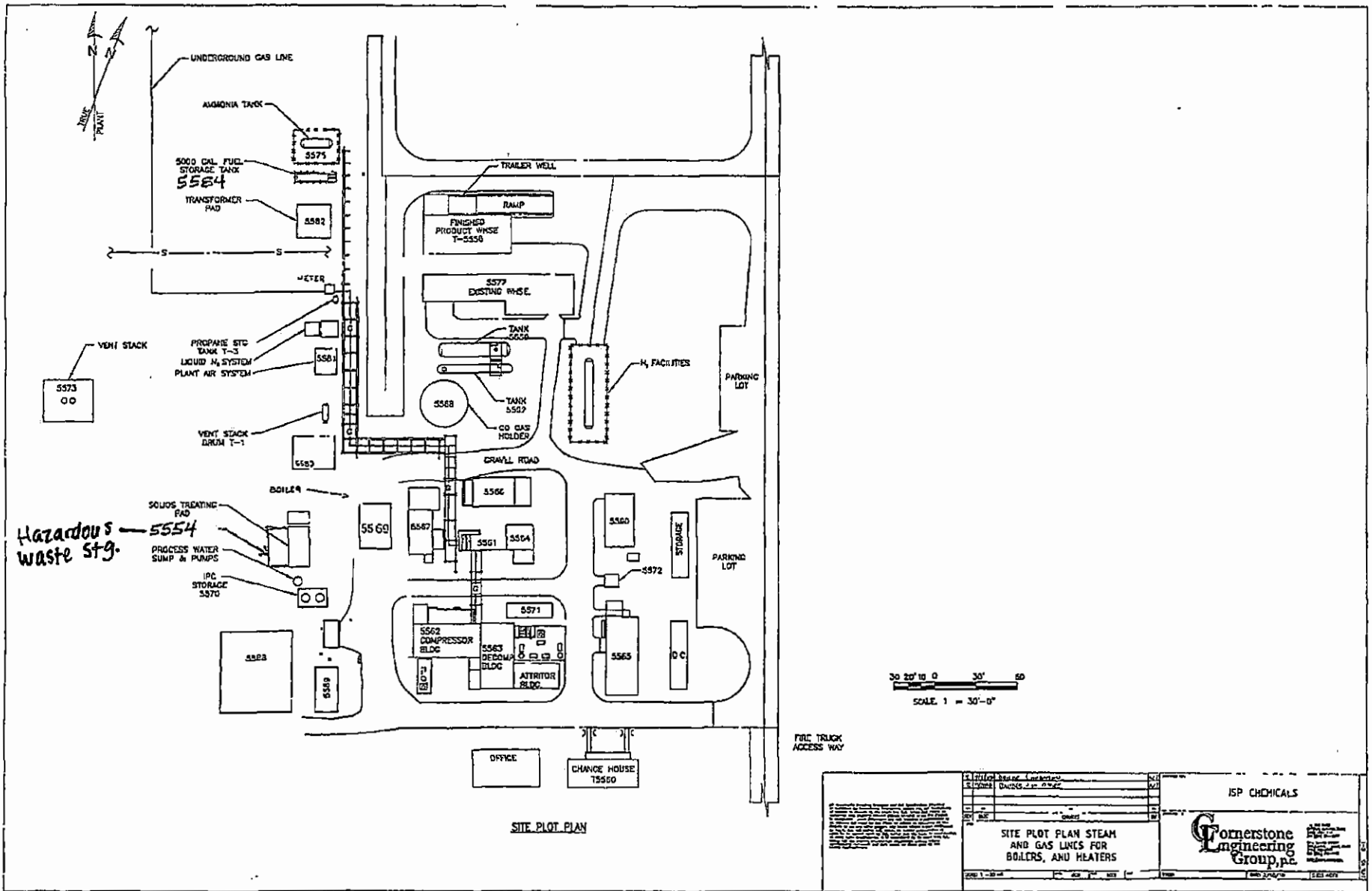
Form Approved 03/05/19
OMB No. 2040-0004

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

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

Date of Storm Event	Duration of Storm Event (in hours)	Total Rainfall During Storm Event (in inches)	Number of Hours Between Beginning of Storm Measured and End of Previous Measurable Rain Event	Maximum Flow Rate During Rain Event (in gpm or specify units)	Total Flow from Rain Event (in gallons or specify units)
08/14/2020	1 hour and 45 minutes	.90 inches	72+		Discharge: 15,976 gal/day

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



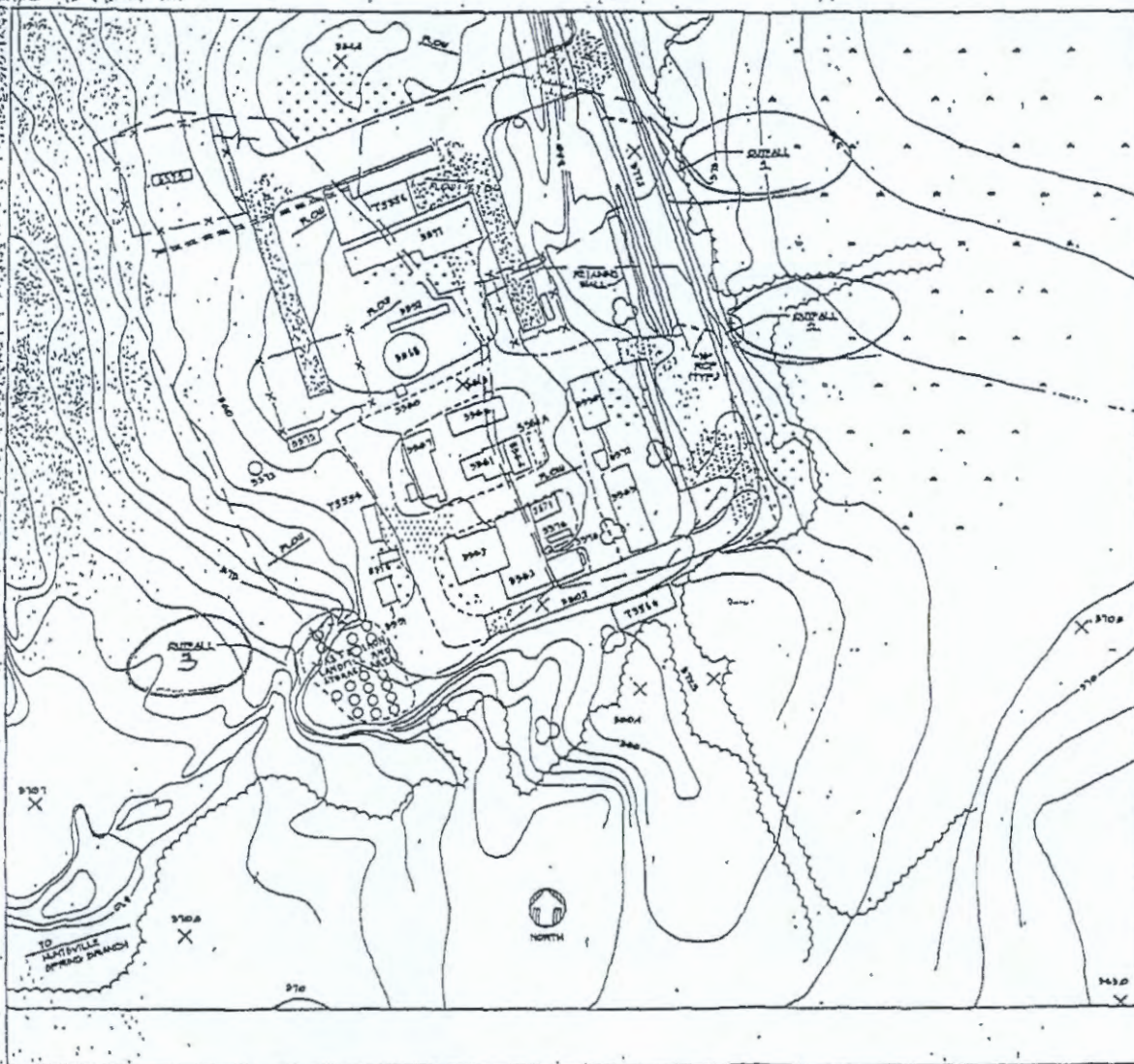
Hazardous waste stg. 5554

30 20' 10 0 30' 60
SCALE 1" = 30'-0"

SITE PLOT PLAN

FIRE TRACK ACCESS WAY

1. ITC/IC 2. ITC/IC 3. ITC/IC 4. ITC/IC 5. ITC/IC 6. ITC/IC 7. ITC/IC 8. ITC/IC 9. ITC/IC 10. ITC/IC 11. ITC/IC 12. ITC/IC 13. ITC/IC 14. ITC/IC 15. ITC/IC 16. ITC/IC 17. ITC/IC 18. ITC/IC 19. ITC/IC 20. ITC/IC 21. ITC/IC 22. ITC/IC 23. ITC/IC 24. ITC/IC 25. ITC/IC 26. ITC/IC 27. ITC/IC 28. ITC/IC 29. ITC/IC 30. ITC/IC 31. ITC/IC 32. ITC/IC 33. ITC/IC 34. ITC/IC 35. ITC/IC 36. ITC/IC 37. ITC/IC 38. ITC/IC 39. ITC/IC 40. ITC/IC 41. ITC/IC 42. ITC/IC 43. ITC/IC 44. ITC/IC 45. ITC/IC 46. ITC/IC 47. ITC/IC 48. ITC/IC 49. ITC/IC 50. ITC/IC 51. ITC/IC 52. ITC/IC 53. ITC/IC 54. ITC/IC 55. ITC/IC 56. ITC/IC 57. ITC/IC 58. ITC/IC 59. ITC/IC 60. ITC/IC 61. ITC/IC 62. ITC/IC 63. ITC/IC 64. ITC/IC 65. ITC/IC 66. ITC/IC 67. ITC/IC 68. ITC/IC 69. ITC/IC 70. ITC/IC 71. ITC/IC 72. ITC/IC 73. ITC/IC 74. ITC/IC 75. ITC/IC 76. ITC/IC 77. ITC/IC 78. ITC/IC 79. ITC/IC 80. ITC/IC 81. ITC/IC 82. ITC/IC 83. ITC/IC 84. ITC/IC 85. ITC/IC 86. ITC/IC 87. ITC/IC 88. ITC/IC 89. ITC/IC 90. ITC/IC 91. ITC/IC 92. ITC/IC 93. ITC/IC 94. ITC/IC 95. ITC/IC 96. ITC/IC 97. ITC/IC 98. ITC/IC 99. ITC/IC 100. ITC/IC 		ISP CHEMICALS Gomerstone Engineering Group, p.c. 1000 1st St. N. Grand Rapids, MI 49503 TEL: 616-234-1000 FAX: 616-234-1001 WWW: WWW.GOMERSTONE.COM
SITE PLOT PLAN STEAM AND GAS LINES FOR BOILERS, AND HEATERS 5554 5555 5556 5557 5558 5559 5560 5561 5562 5563 5564 5565 5566 5567 5568 5569 5570 5571 5572 5573 5574 5575 5576 5577 5578 5579 5580 5581 5582 5583 5584 5585 5586 5587 5588 5589 5590 5591 5592 5593 5594 5595 5596 5597 5598 5599 5600 5601 5602 5603 5604 5605 5606 5607 5608 5609 5610 5611 5612 5613 5614 5615 5616 5617 5618 5619 5620 5621 5622 5623 5624 5625 5626 5627 5628 5629 5630 5631 5632 5633 5634 5635 5636 5637 5638 5639 5640 5641 5642 5643 5644 5645 5646 5647 5648 5649 5650 5651 5652 5653 5654 5655 5656 5657 5658 5659 5660 5661 5662 5663 5664 5665 5666 5667 5668 5669 5670 5671 5672 5673 5674 5675 5676 5677 5678 5679 5680 5681 5682 5683 5684 5685 5686 5687 5688 5689 5690 5691 5692 5693 5694 5695 5696 5697 5698 5699 5700 		



LEGEND

- PAVED ROAD
- NON-PAVED ROAD
- GATE
- FENCE
- TREE COVER
- INDIVIDUAL TREE
- BLUFF
- DRAINAGE CHANNELS
- GRAVELLED AREAS
- HOEK CONTOUR 10 FOOT OR 1 FOOT
- INTERMEDIATE CONTOUR 1 FOOT OR 2 FOOT
- SPOT ELEVATION
- DIMENSION
- GRAVEL
- OUTFALL PERIPHERY

SPOT ELEVATION NUMBER

9107	DESIGN / STORAGE AREA - WASTE OIL
9108	DESIGN / STORAGE AREA - WASTE OIL
9109	DESIGN / STORAGE AREA - WASTE OIL
9110	DESIGN / STORAGE AREA - WASTE OIL
9111	DESIGN / STORAGE AREA - WASTE OIL
9112	DESIGN / STORAGE AREA - WASTE OIL
9113	DESIGN / STORAGE AREA - WASTE OIL
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9196	DESIGN / STORAGE AREA - WASTE OIL
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9198	DESIGN / STORAGE AREA - WASTE OIL
9199	DESIGN / STORAGE AREA - WASTE OIL
9200	DESIGN / STORAGE AREA - WASTE OIL

COMPRESSOR OIL AND PROCESS
CONTAMINATED OIL

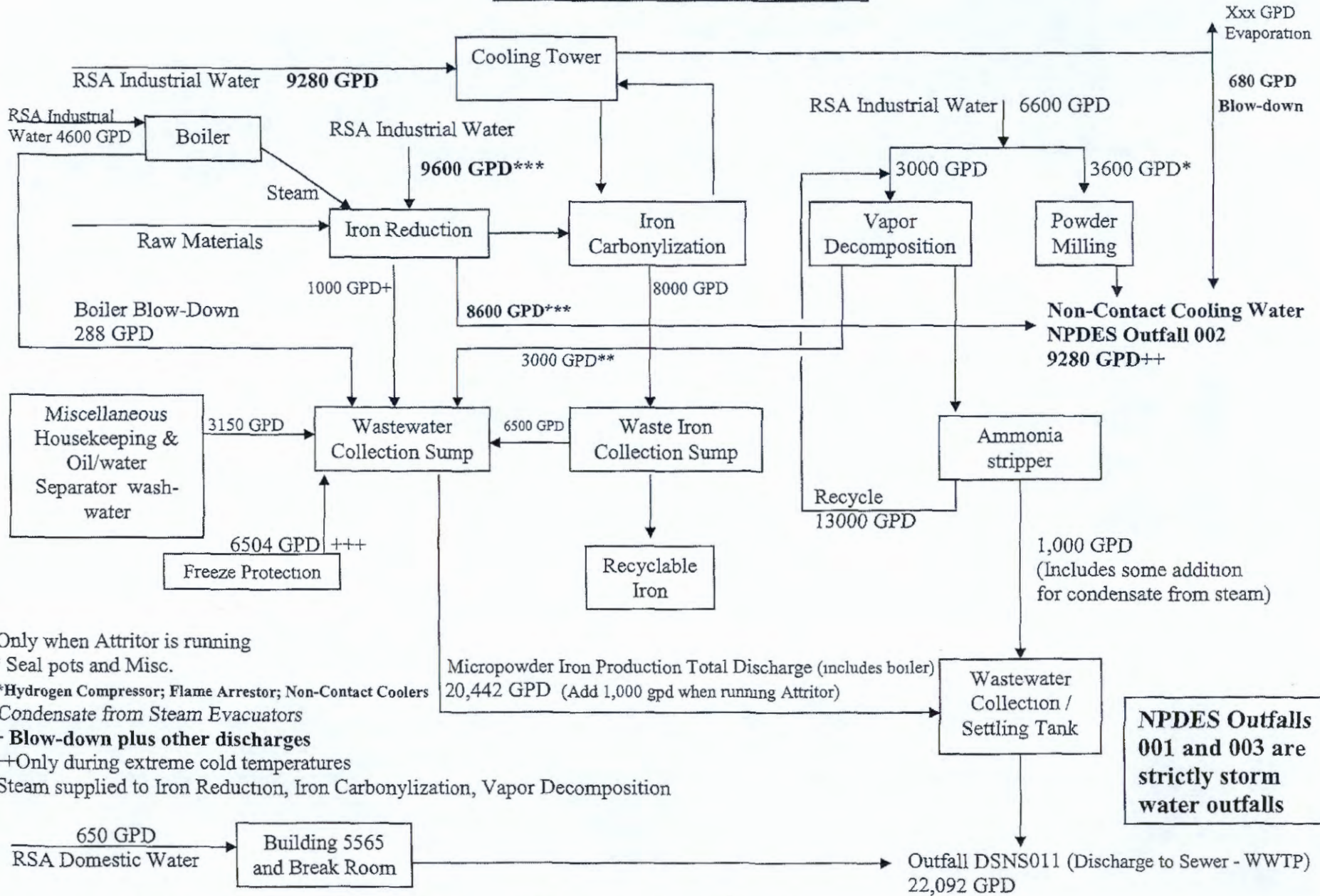
SCALE 1" = 40'

MAP 'C'

SHEET TITLE: IS P. CHEMICALS - INC. 55000 AREA REDSTONE ARSENAL, ALA.
 PROJECT TITLE: STORAGE WATER FERTILIZER APPLICATION PLANT LAYOUT & SITE PLAN
 SHEET NUMBER: 10

ASSOCIATED ENGINEERING SERVICES
 1000 W. WASHINGTON
 MOBILE, ALABAMA

NPDES Wastewater Flow Diagram



* Only when Attritor is running

** Seal pots and Misc.

***Hydrogen Compressor; Flame Arrestor; Non-Contact Coolers

+ Condensate from Steam Evacuators

++ Blow-down plus other discharges

+++Only during extreme cold temperatures

Steam supplied to Iron Reduction, Iron Carbonylization, Vapor Decomposition



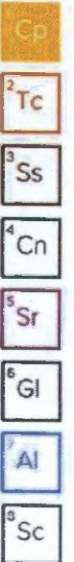
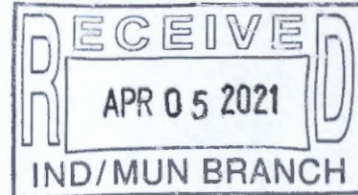
ANALYTICAL REPORT

August 27, 2020

ISP Chemicals

Sample Delivery Group: L1252078
Samples Received: 08/19/2020
Project Number:
Description:

Report To: Brent Hobbs
Bldg 5565 Industrial Road
Huntsville, AL 35808



Entire Report Reviewed By: *Dorothy P Roberts*

Dorothy P Roberts
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace Analytical National is performed per guidance provided in laboratory standard operating procedures ENV-SOP-MTJL-0067 and ENV-SOP-MTJL-0068. Where sampling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.



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ONE LAB. NATIONWIDE.



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Ss: Sample Summary	3	² Tc
Cn: Case Narrative	4	
Sr: Sample Results	5	³ Ss
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DSN003 L1252078-02	6	⁴ Cn
Gl: Glossary of Terms	7	⁵ Sr
Al: Accreditations & Locations	8	⁶ Gl
Sc: Sample Chain of Custody	9	⁷ Al
		⁸ Sc

SAMPLE SUMMARY

ONE LAB. NATIONWIDE.

DSN001 L1252078-01 WW						
			Collected by CLIENT	Collected date/time 08/14/20 16:00	Received date/time 08/19/20 14:21	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1529180	1	08/20/20 14:00	08/20/20 14:00	SMP	Decatur, AL
Wet Chemistry by Method 1664A	WG1531302	1	08/24/20 11:52	08/24/20 15:00	MBP	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1529180	1	08/20/20 11:14	08/20/20 11:14	SMP	Decatur, AL
Wet Chemistry by Method 4500-Norg C	WG1529239	1	08/20/20 08:30	08/20/20 14:00	MLR	Decatur, AL
Wet Chemistry by Method 5310 B-2011	WG1529996	1	08/21/20 12:47	08/21/20 12:47	SMP	Decatur, AL
Wet Chemistry by Method Hach 8000	WG1529318	4	08/20/20 10:44	08/20/20 13:30	BMW	Decatur, AL
Wet Chemistry by Method USGS I-3765-85	WG1529271	1	08/20/20 09:51	08/20/20 10:54	KEO	Decatur, AL
Metals (ICP) by Method 200.7	WG1530505	1	08/23/20 08:53	08/23/20 22:24	EL	Mt. Juliet, TN

1
Cp

2
Te

3
Ss

4
Cn

5
Sr

6
Gl

7
Al

8
Sc

DSN003 L1252078-02 WW						
			Collected by CLIENT	Collected date/time 08/14/20 16:15	Received date/time 08/19/20 14:21	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Calculated Results	WG1529180	1	08/20/20 14:00	08/20/20 14:00	SMP	Decatur, AL
Wet Chemistry by Method 1664A	WG1531302	1	08/24/20 11:52	08/24/20 15:00	MBP	Mt. Juliet, TN
Wet Chemistry by Method 300.0	WG1529180	1	08/20/20 11:32	08/20/20 11:32	SMP	Decatur, AL
Wet Chemistry by Method 4500-Norg C	WG1529239	1	08/20/20 08:30	08/20/20 14:00	MLR	Decatur, AL
Wet Chemistry by Method 5310 B-2011	WG1529996	1	08/21/20 13:04	08/21/20 13:04	SMP	Decatur, AL
Wet Chemistry by Method Hach 8000	WG1529318	4	08/20/20 10:44	08/20/20 13:30	BMW	Decatur, AL
Wet Chemistry by Method USGS I-3765-85	WG1529271	1	08/20/20 09:51	08/20/20 10:54	KEO	Decatur, AL
Metals (ICP) by Method 200.7	WG1530505	1	08/23/20 08:53	08/23/20 22:26	EL	Mt. Juliet, TN



All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Dorothy P Roberts
Project Manager

¹ Cp

² Tc

³ Ss

⁴ Ch

⁵ Sr

⁶ Gl

⁷ Al

⁸ Sc

DSN001

Collected date/time: 08/14/20 16:00

SAMPLE RESULTS - 01

L1252078

ONE LAB. NATIONWIDE.



Calculated Results

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Total Nitrogen	2.56		0.0600	1	08/20/2020 14:00	WG1529180

1 Cp

2 Tc

Wet Chemistry by Method 1664A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Oil & Grease (Hexane Extr)	ND		5.56	1	08/24/2020 15:00	WG1531302

3 Ss

4 Cn

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.552	TB	0.0600	1	08/20/2020 11:14	WG1529180

5 Sr

6 GI

Wet Chemistry by Method 4500-Norg C

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Kjeldahl Nitrogen, TKN	2.01		1.50	1	08/20/2020 14:00	WG1529239

AI

8 Sc

Wet Chemistry by Method 5310 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	8.70		0.500	1	08/21/2020 12:47	WG1529996

Wet Chemistry by Method Hach 8000

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
COD	67.2		40.0	4	08/20/2020 13:30	WG1529318

Wet Chemistry by Method USGS I-3765-85

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Suspended Solids	126		2.50	1	08/20/2020 10:54	WG1529271

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Iron	7.48		0.100	1	08/23/2020 22:24	WG1530505

DSN003

Collected date/time: 08/14/20 16:15

SAMPLE RESULTS - 02

L1252078

ONE LAB, NATIONWIDE.



Calculated Results

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Total Nitrogen	3.40		0.0600	1	08/20/2020 14:00	WG1529180

1 Cp

2 Tc

Wet Chemistry by Method 1664A

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Oil & Grease (Hexane Ext)	ND		5.81	1	08/24/2020 15:00	WG1531302

3 Ss

4 Cn

Wet Chemistry by Method 300.0

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Nitrate-Nitrite	0.799	T8	0.0600	1	08/20/2020 11:32	WG1529180

5 Sr

6 Gl

Wet Chemistry by Method 4500-Norg C

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Kjeldahl Nitrogen, TKN	2.60		1.50	1	08/20/2020 14:00	WG1529239

7 Al

8 Sc

Wet Chemistry by Method 5310 B-2011

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
TOC (Total Organic Carbon)	5.90		0.500	1	08/21/2020 13:04	WG1529996

Wet Chemistry by Method Hach 8000

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
COD	53.2		40.0	4	08/20/2020 13:30	WG1529318

Wet Chemistry by Method USGS I-3765-85

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Suspended Solids	118		2.50	1	08/20/2020 10:54	WG1529271

Metals (ICP) by Method 200.7

Analyte	Result	Qualifier	RDL	Dilution	Analysis date / time	Batch
Iron	4.90		0.100	1	08/23/2020 22:26	WG1530505



Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

ND	Not detected at the Reporting Limit (or MDL where applicable)
RDL	Reported Detection Limit
SDG	Sample Delivery Group
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

²Tc

³Ss

⁴Cn

⁵Sr

⁶Gl

A;

⁰Sc

Qualifier Description

T8	Sample(s) received past/too close to holding time expiration
----	--

A CREDITATIONS & LOCATIONS

ONE LAB. NATIONWIDE.



Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
 * Not all certifications held by the laboratory are applicable to the results reported in the attached report.
 * Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.



State Accreditations

Alabama	40660	Nebraska	NE-05-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey-NELAP	TN002
California	2932	New Mexico ¹	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina ¹	DW21704
Georgia	NELAP	North Carolina ²	41
Georgia ¹	923	North Dakota	R-140
Idaho	TN00003	Ohio-VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky ^{1,4}	90010	South Carolina	84004
Kentucky ²	16	South Dakota	n/a
Louisiana	AI30792	Tennessee ^{1,4}	2006
Louisiana ¹	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas ⁵	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

Third Party Federal Accreditations

A2LA -- ISO 17025	1461.01	AIHA-LAP, LLC EMLAP	100789
A2LA -- ISO 17025 ⁵	1461.02	ODD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA-Crypto	TN00003		

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Mikrobiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



ACCOUNT:
ISP Chemicals

PROJECT:

SDG:
LI252078

DATE/TIME:
08/27/20 14:46

PAGE:
8 of 9



CHAIN OF CUSTODY/FIELD DATA SHEET

ISP CHEMICALS Inc.
PO Box 25 Huntsville, AL 35804
(256)882-0177

Test Lab: ENERSO LV
2220 BELTLINE ROAD SW
DECATUR, AL 35601
Contact: DOROTHY ROBERTS

Project Site: HUNTSVILLE PLANT
NPDES AL0000345

PAGE 1 OF 1

PROJECT JOB NO: L25207B (FOR LAB USE ONLY)

SAMPLE DESCRIPTION/LOCATION	TYPE		MATRIX TYPE	DATE SAMPLED	TIME	PRESERVATIVE	NUMBER OF CONTAINERS	COLLECTED BY:	ANALYSIS REQUESTED									
	GRB	COMP							TSS									
DSN001	✓		H ₂ O	8/14/20	1600	No	1	P. HUBLER	TSS									
DSN001	✓		H ₂ O	8/14/20	1600	HCL	2	P. HUBLER	O+G W									
DSN001	✓		H ₂ O	8/14/20	1600	H ₂ SO ₄	1	P. HUBLER	TOC	COD	N-T	<2						
DSN001	✓		H ₂ O	8/14/20	1600	HNO ₃	1	P. HUBLER	Fe	Tu		<1						
DSN001	✓		H ₂ O	8/14/20	1600	No	1	P. HUBLER	N/A									
DSN003	✓		H ₂ O	8/14/20	1615	No	1	P. HUBLER	TSS									
DSN003	✓		H ₂ O	8/14/20	1615	HCL	2	P. HUBLER	O+G W									
DSN003	✓		H ₂ O	8/14/20	1615	H ₂ SO ₄	1	P. HUBLER	TOC	COD	N-T	<2						
DSN003	✓		H ₂ O	8/14/20	1615	HNO ₃	1	P. HUBLER	Fe	Tu		<2						
DSN003	✓		H ₂ O	8/14/20	1615	No	1	P. HUBLER	N/A									

TURNAROUND TIME REQUESTED: _____

REMARKS: _____

Temp: 4.7°C

SHIPPED BY: _____

UPS: _____ CLIENT VEHICLE: _____

FEDX: _____ LAB VEHICLE: _____

OTHER: _____

RELINQUISHED BY:	RECEIVED BY:	DATE:	TIME:	REASON:	RELINQUISHED TO LABORATORY BY:	ACCEPTED FOR LAB BY:	DATE:	TIME:
<u>P. Hubler</u>	<u>Annie Bailey</u>	<u>8-19-20</u>	<u>12:00</u>	<u>CARRY TO LAB</u>	<u>Annie Bailey</u>	<u>[Signature]</u>	<u>[Signature]</u>	<u>[Signature]</u>

LABORATORY COMMENTS: _____



CHAIN OF CUSTODY/FIELD DATA SHEET

ISP CHEMICALS Inc.
PO Box 25 Huntsville, AL 35804
(256)882-0177

Test Lab: ENERSOIV
2220 BELTLINE ROAD SW
DECATUR, AL 35601
Contact: Dorothy Roberts

Project Site: Huntsville Plant
NPDES AL0000345

PROJECT JOB NO: _____ (FOR LAB USE ONLY)

PAGE 1 OF 1

SAMPLE DESCRIPTION/LOCATION	TYPE		MATRIX TYPE	DATE SAMPLED	TIME	PRESERVATIVE	NUMBER OF CONTAINERS	COLLECTED BY:	ANALYSIS REQUESTED									
	GRB	COMP																
DSN001	7		H ₂ O	8/14/20	1600	NO	1	P. Hubler	TSS									
DSN001	7		H ₂ O	8/14/20	1600	HCL	2	P. Hubler	DOC									
DSN001	7		H ₂ O	8/14/20	1600	H ₂ SO ₄	1	P. Hubler	TOC COD NIT									
DSN001	7		H ₂ O	8/14/20	1600	HNO ₃	1	P. Hubler	FeT									
DSN001	7		H ₂ O	8/14/20	1600	NO	1	P. Hubler	N/A									
DSN003	7		H ₂ O	8/14/20	1615	NO	1	P. Hubler	TSS									
DSN003	7		H ₂ O	8/14/20	1615	HCL	2	P. Hubler	DOC									
DSN003	7		H ₂ O	8/14/20	1615	H ₂ SO ₄	1	P. Hubler	TOC COD NIT									
DSN003	7		H ₂ O	8/14/20	1615	HNO ₃	1	P. Hubler	FeT									
DSN003	7		H ₂ O	8/14/20	1615	NO	1	P. Hubler	N/A									

TURNAROUND TIME REQUESTED: _____

REMARKS: _____

SHIPPED BY: _____

UPS: _____ CLIENT VEHICLE: _____

FEDX: _____ LAB VEHICLE: _____

OTHER: _____

RELINQUISHED BY:	RECEIVED BY:	DATE:	TIME:	REASON:	RELINQUISHED TO LABORATORY BY:	ACCEPTED FOR LAB BY:	DATE:	TIME:
P. Hubler	Dorothy Roberts	8-19-20	12:00	Copy to lab	Dorothy Roberts	[Signature]	8/19/20	14:21
					LABORATORY COMMENTS: _____			

