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MAY 13, 2020

MR ANDREW RODGERS
GENERAL MANAGER
TIMBERLANDS LANDFILL
22800 HIGHWAY 41
BREWTON AL 36426

RE: DRAFT PERMIT
NPDES PERMIT NUMBER AL0079171

Dear Mr. Rodgers:

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

Sincerely,

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

Enclosure: Draft Permit

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

Alabama Department of Environmental Management

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT

PERMITTEE: BFI WASTE SYSTEMS OF ALABAMA, LLC

FACILITY LOCATION: 22800 HIGHWAY 41
BREWTON, AL 36426

PERMIT NUMBER: AL0079171

RECEIVING WATERS: DSN001 – DSN006: UNNAMED TRIBUTARY TO BURNT CORN CREEK

DSN007: BURNT CORN CREEK

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

ISSUANCE DATE:

EFFECTIVE DATE:

EXPIRATION DATE:

Draft

Alabama Department of Environmental Management

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 – DSN006Q: Stormwater runoff from landfill operations. 3/

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

	DISCHARGE LIMITATIONS			MONITORING REQUIREMENTS 1/				
EFFLUENT CHARACTERISTIC	Monthly Average	Daily Maximum	Daily Minimum	Monthly Average	Daily Maximum	Measurement Frequency 2/	Sample Type	Seasonal
BOD, 5-Day (20 Deg. C)	-	-	-	-	Report mg/l	Quarterly	Grab	-
pH	-	-	Report S.U.	-	Report S.U.	Quarterly	Grab	-
Solids, Total Suspended	-	-	-	-	Report mg/l	Quarterly	Grab	-
Solids, Settleable	-	-	-	-	Report mg/l	Quarterly	Grab	-
Oil & Grease	-	-	-	-	15 mg/l	Quarterly	Grab	-
Cadmium, Total (As Cd) 4/	-	-	-	-	Report mg/l	Quarterly	Grab	-
Chromium, Total (As Cr) 4/	-	-	-	-	Report mg/l	Quarterly	Grab	-
Copper, Total (As Cu) 4/	-	-	-	-	Report mg/l	Quarterly	Grab	-

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/ For the purposes of monitoring for 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:

DSN001Q – DSN006Q (continued): Stormwater runoff from landfill operations. 3/

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

	DISCHARGE LIMITATIONS			MONITORING REQUIREMENTS 1/				
EFFLUENT CHARACTERISTIC	Monthly Average	Daily Maximum	Daily Minimum	Monthly Average	Daily Maximum	Measurement Frequency 2/	Sample Type	Seasonal
Flow, In Conduit or Thru Treatment Plant	-	Report MGD	-	-	-	Quarterly	Estimate 4/	-
Solids, Total Dissolved (TDS)	-	-	-	-	Report mg/l	Quarterly	Grab	-
Chemical Oxygen Demand (COD)	-	-	-	-	Report mg/l	Quarterly	Grab	-

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.

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:

DSN0071: Process wastewater from treated landfill leachate and stormwater runoff from landfill operations. 3/

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

	DISCHARGE LIMITATIONS			MONITORING REQUIREMENTS 1/				
EFFLUENT CHARACTERISTIC	Monthly Average	Daily Maximum	Daily Minimum	Monthly Average	Daily Maximum	Measurement Frequency 2/	Sample Type	Seasonal
Oxygen, Dissolved (DO)	-	-	REPORT mg/l	-	-	Monthly	Grab	-
BOD, 5-Day (20 Deg. C)	-	-	-	37 mg/l	140 mg/l	Weekly	Composite	-
pH	-	-	6.0 S.U.	-	8.5 S.U.	Monthly	Grab	-
Solids, Total Suspended	-	-	-	27 mg/l	88 mg/l	Weekly	Composite	-
Oil & Grease	-	-	-	-	15 mg/l	Monthly	Grab	-
Nitrogen, Ammonia Total (As N)	-	-	-	4.9 mg/l	7.3 mg/l	Monthly	Grab	-
Nitrogen, Kjeldahl Total (As N)	-	-	-	-	REPORT mg/l	Monthly	Grab	April - October
Phosphorus, Total (As P)	-	-	-	-	REPORT mg/l	Monthly	Grab	April - October

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.

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:

DSN0071 (continued): Process wastewater from treated landfill leachate and stormwater runoff from landfill operations. 3/

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

	DISCHARGE LIMITATIONS			MONITORING REQUIREMENTS 1/				
EFFLUENT CHARACTERISTIC	Monthly Average	Daily Maximum	Daily Minimum	Monthly Average	Daily Maximum	Measurement Frequency 2/	Sample Type	Seasonal
Selenium, Total Recoverable 5/	-	-	-	REPORT mg/l	REPORT mg/l	Monthly	Grab	-
Nickel Total Recoverable 5/	-	-	-	REPORT mg/l	REPORT mg/l	Monthly	Grab	-
Zinc, Total (As Zn) 5/	-	-	-	0.11 mg/l	0.20 mg/l	Weekly	Composite	-
Lead, Total Recoverable 5/	-	-	-	REPORT mg/l	REPORT mg/l	Monthly	Grab	-
Copper Total Recoverable 5/	-	-	-	REPORT mg/l	REPORT mg/l	Monthly	Grab	-
Cyanide (A)	-	-	-	REPORT mg/l	REPORT mg/l	Monthly	Grab	-
Phenol, Single Compound	-	-	-	0.015 mg/l	0.026 mg/l	Weekly	Composite	-

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 purposes of monitoring for 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:

DSN0071 (continued): Process wastewater from treated landfill leachate and stormwater runoff from landfill operations. 3/

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

	DISCHARGE LIMITATIONS					MONITORING REQUIREMENTS 1/		
EFFLUENT CHARACTERISTIC	Monthly Average	Daily Maximum	Daily Minimum	Monthly Average	Daily Maximum	Measurement Frequency 2/	Sample Type	Seasonal
Flow, In Conduit or Thru Treatment Plant	Report MGD	Report MGD	-	-	-	Daily	Totalizer	-
Solids, Total Dissolved	-	-	-	-	Report mg/l	Monthly	Grab	-
Mercury Total Recoverable 5/	-	-	-	REPORT mg/l	REPORT mg/l	Monthly	Grab	-
P-Cresol	-	-	-	0.014 mg/l	0.025 mg/l	Weekly	Composite	-
Benzoic Acids - Total	-	-	-	0.071 mg/l	0.12 mg/l	Weekly	Composite	-
Alpha-Terpineol	-	-	-	0.016 mg/l	0.033 mg/l	Weekly	Composite	-
BOD, Carbonaceous 05 Day, 20C	-	-	-	37.0 mg/l	55.5 mg/l	Monthly	Grab	-

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 purposes of monitoring for 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:

DSN007T: Process wastewater from treated landfill leachate and stormwater runoff from landfill operations. 3/

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

	DISCHARGE LIMITATIONS					MONITORING REQUIREMENTS 1/		
EFFLUENT CHARACTERISTIC	Monthly Average	Daily Maximum	Daily Minimum	Monthly Average	Daily Maximum	Measurement Frequency 2/	Sample Type	Seasonal
Toxicity, Ceriodaphnia Acute	-	0 pass(0)/ fail(1)	-	-	-	Quarterly	Grab	-
Toxicity, Pimephales Acute	-	0 pass(0)/ fail(1)	-	-	-	Quarterly	Grab	-

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

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

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

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

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

B. DISCHARGE MONITORING AND RECORD KEEPING REQUIREMENTS

1. Representative Sampling

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

2. Test Procedures

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

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

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

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

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

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

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

3. Recording of Results

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

a. The facility name and location, point source number, date, time and exact place of sampling;

b. The name(s) of person(s) who obtained the samples or measurements;

c. The dates and times the analyses were performed;

d. The name(s) of the person(s) who performed the analyses;

e. The analytical techniques or methods used, including source of method and method number; and

f. The results of all required analyses.

4. Records Retention and Production

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

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

5. Monitoring Equipment and Instrumentation

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

C. DISCHARGE REPORTING REQUIREMENTS

1. Reporting of Monitoring Requirements

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

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

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

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

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

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

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

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

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

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

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

   A. COMPLIANCE SHALL BE ATTAINED ON THE EFFECTIVE DATE OF THIS PERMIT.

   B. Not later than 120 days from the effective date of this permit, the permittee is required to complete and make available for review by the Director or his designee, upon request, an updated Best Management Practices (BMP) Plan according to Part IV of this Permit. This BMP plan shall also include steps to be taken to reduce levels of Total Suspended Solids (TSS) in the stormwater discharges from the site.

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 30l(c), 30l(g), 30l(h), 30l(k), or 3l6(a) of the FWPCA or for fundamentally different factors;

(9) To incorporate an applicable 307(a) FWPCA toxic effluent standard or prohibition;

(10) When required by the reopener conditions in this permit;

(11) When required under 40 CFR 403.8(e) (compliance schedule for development of pretreatment program);

(12) Upon failure of the state to notify, as required by Section 402(b)(3) of the FWPCA, another state whose waters may be affected by a discharge permitted by this permit;

(13) When required to correct technical mistakes, such as errors in calculation, or mistaken interpretations of law made in determining permit conditions; or

(14) When requested by the permittee and the Director determines that the modification has cause and will not result in a violation of federal or state law, regulations or rules.

5. Permit Termination

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

a. Violation of any term or condition of this permit;

b. The permittee's misrepresentation or failure to disclose fully all relevant facts in the permit application or during the permit issuance process or the permittee's misrepresentation of any relevant facts at any time;

c. Materially false or inaccurate statements or information in the permit application or the permit;

d. A change in any condition that requires either a temporary or permanent reduction or elimination of the permitted discharge;

e. The permittee's discharge threatens human life or welfare or the maintenance of water quality standards;

f. Permanent closure of the facility generating the wastewater permitted to be discharged by this permit or permanent cessation of wastewater discharge;

g. New or revised requirements of any applicable standard or limitation that is promulgated under Sections 301(b)(2)(C), (D), (E), and (F), and 307(a)(2) of the FWPCA that the Director determines cannot be complied with by the permittee; or

h. Any other cause allowed by the ADEM Administrative Code, Chapter 335-6-6.

6. Permit Suspension

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

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

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

F. COMPLIANCE WITH TOXIC POLLUTANT STANDARD OR PROHIBITION

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

G. DISCHARGE OF WASTEWATER GENERATED BY OTHERS

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

PART III OTHER PERMIT CONDITIONS

A. CIVIL AND CRIMINAL LIABILITY

1. Tampering

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

2. False Statements

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

3. Permit Enforcement

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

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

(1) An administrative order requiring abatement, compliance, mitigation, cessation, clean-up, and/or penalties;

(2) An action for damages;

(3) An action for injunctive relief; or

(4) An action for penalties.

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

(1) initiate enforcement action based upon the permit which has been continued;

(2) issue a notice of intent to deny the permit reissuance. If the permit is denied, the owner or operator would then be required to cease the activities authorized by the continued permit or be subject to enforcement action for operating without a permit;

(3) reissue the new permit with appropriate conditions; or

(4) take other actions authorized by these rules and AWPCA.

4. Relief from Liability

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

B. OIL AND HAZARDOUS SUBSTANCE LIABILITY

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

C. PROPERTY AND OTHER RIGHTS

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

D. AVAILABILITY OF REPORTS

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

E. EXPIRATION OF PERMITS FOR NEW OR INCREASED DISCHARGES

1. If this permit was issued for a new discharger or new source, this permit shall expire eighteen months after the issuance date if construction of the facility has not begun during the eighteen-month period.

2. If this permit was issued or modified to allow the discharge of increased quantities of pollutants to accommodate the modification of an existing facility and if construction of this modification has not begun during the eighteen month period after issuance of this permit or permit modification, this permit shall be modified to reduce the quantities of pollutants allowed to be discharged to those levels that would have been allowed if the modification of the facility had not been planned.

3. Construction has begun when the owner or operator has:

   a. begun, or caused to begin as part of a continuous on-site construction program:

      (1) any placement, assembly, or installation of facilities or equipment; or

      (2) significant site preparation work including clearing, excavation, or removal of existing buildings, structures, or facilities which is necessary for the placement, assembly, or installation of new source facilities or equipment; or

   b. entered into a binding contractual obligation for the purpose of placement, assembly, or installation of facilities or equipment which are intended to be used in its operation within a reasonable time. Options to purchase or contracts which can be terminated or modified without substantial loss, and contracts for feasibility, engineering, and design studies do not constitute a contractual obligation under the paragraph. The entering into a lease with the State of Alabama for exploration and production of hydrocarbons shall also be considered beginning construction.

F. COMPLIANCE WITH WATER QUALITY STANDARDS

1. On the basis of the permittee's application, plans, or other available information, the Department has determined that compliance with the terms and conditions of this permit should assure compliance with the applicable water quality standards.

2. Compliance with permit terms and conditions notwithstanding, if the permittee's discharge(s) from point sources identified in Provision I. A. of this permit cause or contribute to a condition in contravention of state water quality standards, the Department may require abatement action to be taken by the permittee in emergency situations or modify the permit pursuant to the Department's Rules, or both.

3. If the Department determines, on the basis of a notice provided pursuant to this permit or any investigation, inspection or sampling, that a modification of this permit is necessary to assure maintenance of water quality standards or compliance with other provisions of the AWPCA or FWPCA, the Department may require such modification and, in cases of emergency, the Director may prohibit the discharge until the permit has been modified.

G. GROUNDWATER

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

H. DEFINITIONS

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

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

3. Arithmetic Mean – means the summation of the individual values of any set of values divided by the number of individual values.

4. AWPCA - means the Alabama Water Pollution Control Act.

5. BOD – means the five-day measure of the pollutant parameter biochemical oxygen demand.

6. Bypass - means the intentional diversion of waste streams from any portion of a treatment facility.

7. CBOD – means the five-day measure of the pollutant parameter carbonaceous biochemical oxygen demand.

8. Daily discharge - means the discharge of a pollutant measured during any consecutive 24-hour period in accordance with the sample type and analytical methodology specified by the discharge permit.

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

10. Daily minimum - means the lowest value of any individual sample result obtained during a day.

11. Day - means any consecutive 24-hour period.

12. Department - means the Alabama Department of Environmental Management.

13. Director - means the Director of the Department.

14. Discharge - means "[t]he addition, introduction, leaking, spilling or emitting of any sewage, industrial waste, pollutant or other wastes into waters of the state". Code of Alabama 1975, Section 22-22-1(b)(8).

15. Discharge Monitoring Report (DMR) - means the form approved by the Director to accomplish reporting requirements of an NPDES permit.

16. DO – means dissolved oxygen.

17. 8HC – means 8-hour composite sample, including any of the following:

    a. The mixing of at least 5 equal volume samples collected at constant time intervals of not more than 2 hours over a period of not less than 8 hours between the hours of 6:00 a.m. and 6:00 p.m. If the sampling period exceeds 8 hours, sampling may be conducted beyond the 6:00 a.m. to 6:00 p.m. period.

    b. A sample continuously collected at a constant rate over period of not less than 8 hours between the hours of 6:00 a.m. and 6:00 p.m. If the sampling period exceeds 8 hours, sampling may be conducted beyond the 6:00 a.m. to 6:00 p.m. period.

18. EPA - means the United States Environmental Protection Agency.

19. FC – means the pollutant parameter fecal coliform.

20. Flow – means the total volume of discharge in a 24-hour period.

21. FWPCA - means the Federal Water Pollution Control Act.

22. Geometric Mean – means the Nth root of the product of the individual values of any set of values where N is equal to the number of individual values. The geometric mean is equivalent to the antilog of the arithmetic mean of the logarithms of the individual values. For purposes of calculating the geometric mean, values of zero (0) shall be considered one (1).

23. Grab Sample – means a single influent or effluent portion which is not a composite sample. The sample(s) shall be collected at the period(s) most representative of the discharge.

24. Indirect Discharger – means a nondomestic discharger who discharges pollutants to a publicly owned treatment works or a privately owned treatment facility operated by another person.

25. Industrial User – means those industries identified in the Standard Industrial Classification manual, Bureau of the Budget 1967, as amended and supplemented, under the category “Division D – Manufacturing” and such other classes of significant waste producers as, by regulation, the Director deems appropriate.

26. MGD – means million gallons per day.

27. Monthly Average – means, other than for fecal coliform bacteria, the arithmetic mean of the entire composite or grab samples taken for the daily discharges collected in one month period. The monthly average for fecal coliform bacteria is the geometric mean of daily discharge samples collected in a one month period. The monthly average for flow is the arithmetic mean of all flow measurements taken in a one month period.

28. New Discharger – means a person, owning or operating any building, structure, facility or installation:

    a. from which there is or may be a discharge of pollutants;

    b. that did not commence the discharge of pollutants prior to August 13, 1979, and which is not a new source; and

    c. which has never received a final effective NPDES permit for dischargers at that site.

29. NH3-N – means the pollutant parameter ammonia, measured as nitrogen.

30. Permit application - means forms and additional information that is required by ADEM Administrative Code Rule 335-6-6-.08 and applicable permit fees.

31. Point source - means "any discernible, confined and discrete conveyance, including but not limited to any pipe, channel, ditch, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, or vessel or other floating craft, . . . from which pollutants are or may be discharged." Section 502(14) of the FWPCA, 33 U.S.C. Section 1362(14).

32. Pollutant - includes for purposes of this permit, but is not limited to, those pollutants specified in Code of Alabama 1975, Section 22-22-1(b)(3) and those effluent characteristics specified in Provision I. A. of this permit.

33. Privately Owned Treatment Works – means any devices or system which is used to treat wastes from any facility whose operator is not the operator of the treatment works, and which is not a "POTW".

34. Publicly Owned Treatment Works – means a wastewater collection and treatment facility owned by the State, municipality, regional entity composed of two or more municipalities, or another entity created by the State or local authority for the purpose of collecting and treating municipal wastewater.

35. Receiving Stream – means the "waters" receiving a "discharge" from a "point source".

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

37. Significant Source – means a source which discharges 0.025 MGD or more to a POTW or greater than five percent of the treatment work's capacity, or a source which is a primary industry as defined by the U.S. EPA or which discharges a priority or toxic pollutant.

38. Solvent – means any virgin, used or spent organic solvent(s) identified in the F-Listed wastes (F001 through F005) specified in 40 CFR 261.31 that is used for the purpose of solubilizing other materials.

39. TKN – means the pollutant parameter Total Kjeldahl Nitrogen.

40. TON – means the pollutant parameter Total Organic Nitrogen.

41. TRC – means Total Residual Chlorine.

42. TSS – means the pollutant parameter Total Suspended Solids.

43. 24HC – means 24-hour composite sample, including any of the following:

    a. the mixing of at least 12 equal volume samples collected at constant time intervals of not more than 2 hours over a period of 24 hours;

    b. a sample collected over a consecutive 24-hour period using an automatic sampler composite to one sample. As a minimum, samples shall be collected hourly and each shall be no more than one twenty-fourth (1/24) of the total sample volume collected; or

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

44. Upset - means an exceptional incident in which there is an unintentional and temporary noncompliance with technology-based permit discharge limitations because of factors beyond the reasonable control of the permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.

45. Waters - means "[a]ll waters of any river, stream, watercourse, pond, lake, coastal, ground or surface water, wholly or partially within the state, natural or artificial. This does not include waters which are entirely confined and retained completely upon the property of a single individual, partnership or corporation unless such waters are used in interstate commerce." Code of Alabama 1975, Section 22-22-1(b)(2). Waters "include all navigable waters" as defined in Section 502(7) of the FWPCA, 22 U.S.C. Section 1362(7), which are within the State of Alabama.

46. Week - means the period beginning at twelve midnight Saturday and ending at twelve midnight the following Saturday.

47. Weekly (7-day and calendar week) Average – is the arithmetic mean of all samples collected during a consecutive 7-day period or calendar week, whichever is applicable. The calendar week is defined as beginning on Sunday and ending on Saturday. Weekly averages shall be calculated for all calendar weeks with Saturdays in the month. If a calendar week overlaps two months (i.e., the Sunday is in one month and the Saturday in the following month), the weekly average calculated for the calendar week shall be included in the data for the month that contains the Saturday.

I. SEVERABILITY

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

PART IV ADDITIONAL REQUIREMENTS, CONDITIONS, AND LIMITATIONS

A. BEST MANAGEMENT PRACTICES (BMP) PLAN REQUIREMENTS

1. BMP Plan

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

2. Plan Content

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

a. Establish specific objectives for the control of pollutants:

(1) Each facility component or system shall be examined for its potential for causing a release of significant amounts of pollutants to waters of the State due to equipment failure, improper operation, natural phenomena such as rain or snowfall, etc.

(2) Where experience indicates a reasonable potential for equipment failure (e.g., a tank overflow or leakage), natural condition (e.g. precipitation), or circumstances to result in significant amounts of pollutants reaching surface waters, the plan should include a prediction of the direction, rate of flow, and total quantity of pollutants which could be discharged from the facility as a result of each condition or circumstance.

b. Establish specific best management practices to meet the objectives identified under paragraph a. of this section, addressing each component or system capable of causing a release of significant amounts of pollutants to the waters of the State, and identifying specific preventative or remedial measures to be implemented;

c. Establish a program to identify and repair leaking equipment items and damaged containment structures, which may contribute to contaminated stormwater runoff. This program must include regular visual inspections of equipment, containment structures and of the facility in general to ensure that the BMP is continually implemented and effective;

d. Prevent the spillage or loss of fluids, oil, grease, gasoline, etc. from vehicle and equipment maintenance activities and thereby prevent the contamination of stormwater from these substances;

e. Prevent or minimize stormwater contact with material stored on site;

f. Designate by position or name the person or persons responsible for the day to day implementation of the BMP;

g. Provide for routine inspections, on days during which the facility is manned, of any structures that function to prevent stormwater pollution or to remove pollutants from stormwater and of the facility in general to ensure that the BMP is continually implemented and effective;

h. Provide for the use and disposal of any material used to absorb spilled fluids that could contaminate stormwater;

i. Develop a solvent management plan, if solvents are used on site. The solvent management plan shall include as a minimum lists of the solvents on site; the disposal method of solvents used instead of dumping, such as reclamation, contract hauling; and the procedures for assuring that solvents do not routinely spill or leak into the stormwater;

j. Provide for the disposal of all used oils, hydraulic fluids, solvent degreasing material, etc. in accordance with good management practices and any applicable state or federal regulations;

k. Include a diagram of the facility showing the locations where stormwater exits the facility, the locations of any structure or other mechanisms intended to prevent pollution of stormwater or to remove pollutants from stormwater, the locations of any collection and handling systems;

l. Provide control sufficient to prevent or control pollution of stormwater by soil particles to the degree required to maintain compliance with the water quality standard for turbidity applicable to the waterbody(s) receiving discharge(s) under this permit;

m. Provide spill prevention, control, and/or management sufficient to prevent or minimize contaminated stormwater runoff. Any containment system used to implement this requirement shall be constructed of materials compatible with the substance(s) contained and shall prevent the contamination of groundwater. The containment system shall also be capable of retaining a volume equal to 110 percent of the capacity of the largest tank for which containment is provided;

n. Provide and maintain curbing, diking or other means of isolating process areas to the extent necessary to allow segregation and collection for treatment of contaminated stormwater from process areas;

o. Be reviewed by plant engineering staff and the plant manager; and

p. Bear the signature of the plant manager.

3. Compliance Schedule

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

4. Department Review

a. When requested by the Director or his designee, the permittee shall make the BMP available for Department review.

b. The Director or his designee may notify the permittee at any time that the BMP is deficient and require correction of the deficiency.

c. The permittee shall correct any BMP deficiency identified by the Director or his designee within 30 days of receipt of notification and shall certify to the Department that the correction has been made and implemented.

5. Administrative Procedures

a. A copy of the BMP shall be maintained at the facility and shall be available for inspection by representatives of the Department.

b. A log of the routine inspection required above shall be maintained at the facility and shall be available for inspection by representatives of the Department. The log shall contain records of all inspections performed for the last three years and each entry shall be signed by the person performing the inspection.

c. The permittee shall provide training for any personnel required to implement the BMP and shall retain documentation of such training at the facility. This documentation shall be available for inspection by representatives of the Department. Training shall be performed prior to the date that implementation of the BMP is required.

d. BMP Plan Modification. The permittee shall amend the BMP plan whenever there is a change in the facility or change in operation of the facility which materially increases the potential for the ancillary activities to result in a discharge of significant amounts of pollutants.

e. BMP Plan Review. The permittee shall complete a review and evaluation of the BMP plan at least once every three years from the date of preparation of the BMP plan. Documentation of the BMP Plan review and evaluation shall be signed and dated by the Plant Manager.

B. STORMWATER FLOW MEASUREMENT AND SAMPLING REQUIREMENTS

1. Stormwater Flow Measurement

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

b. The total volume of stormwater discharged for the event must be monitored, including the date and duration (in hours) and rainfall (in inches) for storm event(s) sampled. The duration between the storm

event sampled and the end of the previous measurable (greater than 0.1 inch rainfall) storm event must be a minimum of 72 hours. This information must be recorded as part of the sampling procedure and records retained according to Part I.B. of this permit.

c. The volume may be measured using flow measuring devices, or estimated based on a modification of the Rational Method using total depth of rainfall, the size of the drainage area serving a stormwater outfall, and an estimate of the runoff coefficient of the drainage area. This information must be recorded as part of the sampling procedure and records retained according to Part I.B. of this permit.

2. Stormwater Sampling

a. A grab sample, if required by this permit, shall be taken during the first thirty minutes of the discharge (or as soon thereafter as practicable); and a flow-weighted composite sample, if required by this permit, shall be taken for the entire event or for the first three hours of the event.

b. All test procedures will be in accordance with part I.B. of this permit.

C. EFFLUENT TOXICITY LIMITATIONS AND BIOMONITORING REQUIREMENTS

1. The permittee shall perform 48-hour acute toxicity screening tests on the wastewater discharges required to be tested for acute toxicity by Part I of this permit.

a. Test Requirements:

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

(2) Any test where survival in the effluent concentration is less than **90%** and statistically lower than the control indicates acute toxicity and constitutes noncompliance with this permit.

b. General Test Requirements:

(1) A **grab** sample shall be obtained for use in above biomonitoring tests. The holding time for each sample shall not exceed 36 hours. The control water shall be a water prepared in the laboratory in accordance with the EPA procedure described in EPA 821-R-02-012 or most current edition or another control water selected by the permittee and approved by the Department.

(2) Effluent toxicity tests in which the control survival is less than 90% or in which the other requirements of the EPA Test Procedure are not met shall be unacceptable and the permittee shall rerun the tests as soon as practical within the monitoring period.

(3) In the event of an invalid test, upon subsequent completion of a valid test, the results of all tests, valid and invalid, are reported with an explanation of the tests performed and results.

c. Reporting Requirements:

(1) The permittee shall notify the Department in writing within 48 hours after toxicity has been demonstrated by the scheduled test(s).

(2) Biomonitoring test results obtained during each monitoring period shall be summarized and reported using the appropriate Discharge Monitoring Report (DMR) form approved by the Department. In accordance with Section 2. of this part, an effluent toxicity report containing the information in Section 2. shall be included with the DMR. Two copies of the test results must be submitted to the Department no later than 28 days after the month in which the tests were performed.

d. Additional Testing Requirements:

(1) If acute toxicity is indicated (noncompliance with permit limit), the permittee shall perform four additional valid acute toxicity tests in accordance with these procedures to determine the extent and duration of the toxic condition. The toxicity tests shall be performed once per week and shall be performed during the first four calendar weeks following the date on

which the permittee became aware of the permit noncompliance and the results of these tests shall be submitted no later than 28 days following the month in which the tests were performed.

(2) After evaluation of the results of the follow-up tests, the Department will determine if additional action is appropriate and may require additional testing and/or toxicity reduction measures. The permittee may be required to perform a Toxicity Identification Evaluation (TIE) and/or a Toxicity Reduction Evaluation (TRE). The TIE/TRE shall be performed in accordance with the most recent protocols/guidance outlined by EPA (e.g., EPA/600/2-88/062, EPA/600/R-92/080, EPA/600/R-92/081, EPA/833/B-99/022 and/or EPA/600/6-91/005F, etc.).

e. Test Methods:

(1) The tests shall be performed in accordance with the latest edition of the "EPA Methods for Measuring the Acute Toxicity of Effluents to Freshwater and Marine Organisms" and shall be performed using the fathead minnow (*Pimephales promelas*) and the cladoceran (*Ceriodaphnia dubia*).

2. EFFLUENT TOXICITY TESTING REPORTS

The following information shall be submitted with each discharge monitoring report unless otherwise directed by the Department. The Department may at any time suspend or reinstate this requirement or may increase or decrease the frequency of submittals.

a. Introduction
- (1) Facility Name, location and county
- (2) Permit number
- (3) Toxicity testing requirements of permit
- (4) Name of receiving water body
- (5) Contract laboratory information (if tests are performed under contract)
  - (a) Name of firm
  - (b) Telephone number
  - (c) Address
- (6) Objective of test

b. Plant Operations

- (1) Discharge operating schedule (if other than continuous)
- (2) Volume of discharge during sample collection to include Mean daily discharge on sample collection date (MGD, CFS, GPM)
- (3) Design flow of treatment facility at time of sampling

c. Source of Effluent and Dilution Water

(1) Effluent samples

- (a) Sampling point
- (b) Sample collection dates and times (to include composite sample start and finish times)
- (c) Sample collection method
- (d) Physical and chemical data of undiluted effluent samples (water temperature, pH, alkalinity, hardness, specific conductance, total residual chlorine (if applicable), etc.)
- (e) Sample temperature when received at the laboratory
- (f) Lapsed time from sample collection to delivery
- (g) Lapsed time from sample collection to test initiation

(2) Dilution Water Samples

- (a) Source
- (b) Collection date(s) and time(s) (where applicable)
- (c) Pretreatment

(d) Physical and chemical characteristics (pH, hardness, water temperature, alkalinity, specific conductance, etc.)

d. Test Conditions

(1) Toxicity test method utilized
(2) End point(s) of test
(3) Deviations from referenced method, if any, and reason(s)
(4) Date and time test started
(5) Date and time test terminated
(6) Type and volume of test chambers
(7) Volume of solution per chamber
(8) Number of organisms per test chamber
(9) Number of replicate test chambers per treatment
(10) Test temperature, pH and dissolved oxygen as recommended by the method (to include ranges)
(11) Feeding frequency, and amount and type of food
(12) Light intensity (mean)

e. Test Organisms

(1) Scientific name
(2) Life stage and age
(3) Source
(4) Disease treatment (if applicable)

f. Quality Assurance

(1) Reference toxicant utilized and source
(2) Date and time of most recent acute reference toxicant test(s), raw data, and current cusum chart(s)
(3) Dilution water utilized in reference toxicant test
(4) Results of reference toxicant test(s) (LC50, etc.), report concentration-response relationship and evaluate test sensitivity. The most recent reference toxicant test shall be conducted within 30-days of the routine.
(5) Physical and chemical methods utilized

g. Results

(1) Provide raw toxicity data in tabular form, including daily records of affected organisms in each concentration (including controls) and replicate
(2) Provide table of endpoints: LC50, NOAEC, Pass/Fail (as required in the applicable NPDES permit)
(3) Indicate statistical methods used to calculate endpoints
(4) Provide all physical and chemical data required by method
(5) Results of test(s) (LC50, NOAEC, Pass/Fail, etc.), report concentration-response relationship **(definitive test only)**, report percent minimum significant difference (PMSD)

h. Conclusions and Recommendations

(1) Relationship between test endpoints and permit limits
(2) Action to be taken

1/ Adapted from "Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms", Fifth Edition, October 2002 (EPA 821-R-02-012), Section 12, Report Preparation

ADEM PERMIT RATIONALE

PREPARED DATE: May 12, 2020
PREPARED BY: Wayne Holt

Permittee Name: BFI Waste Systems of Alabama, LLC

Facility Name: Timberlands Landfill

Permit Number: AL0079171

PERMIT IS REISSUANCE DUE TO EXPIRATION

DISCHARGE SERIAL NUMBERS & DESCRIPTIONS:
DSN001 – DSN006: Stormwater runoff from landfill operations.

DSN007: Process wastewater from treated landfill leachate and stormwater runoff from landfill operations.

INDUSTRIAL CATEGORY: 40 CFR 445 Subpart B: Non-hazardous waste landfill.

MAJOR: N

STREAM INFORMATION:

Outfalls:	DSN001 – DSN004, and DSN006
Receiving Stream:	Unnamed Tributary to Burnt Corn Creek
Classification:	Fish and Wildlife
River Basin:	Perdido-Escambia River Basin
7Q10:	0.0 cfs
1Q10:	0.0 cfs
Annual Average Flow:	0.09 cfs
303(d) List:	NO
Impairment:	--
TMDL:	NO

Outfalls:	DSN007
Receiving Stream:	Burnt Corn Creek
Classification:	Fish and Wildlife
River Basin:	Perdido-Escambia River Basin
7Q10:	9.06 cfs
1Q10:	6.79 cfs
Annual Average Flow:	163.61 cfs
303(d) List:	NO
Impairment:	--
TMDL:	NO

DISCUSSION:

Timberlands Landfill is a private solid waste landfill. The discharges from this facility discharge to an Unnamed Tributary to Burnt Corn Creek for all outfall except DSN007, which will discharge to Burnt Corn Creek once completed. The leachate from the facility is treated onsite using a constructed wetlands system that includes an aerated pond and a 4-cell subsurface wetlands system.

ADEM Administrative Rule 335-6-10-.12 requires applicants to new or expanded discharges to Tier II waters demonstrate that the discharge is necessary for important economic or social development in the area in which the waters are located. The application previously submitted demonstration that the discharge is necessary for economic and social development.

Note: Outfall DSN005 was requested in the previous permit under the same demonstration of economic and social development as the other outfalls. At the time, DSN005 was for future expansion and, as of the time of this writing, has not had any stormwater associated with industrial activity to be discharged. Outfall DSN005 is being included into the proposed permit so stormwater monitoring may be implemented and reported to the Department.

The process wastewater discharges associated with this facility are regulated by 40 CFR Part 445 Subpart B, Landfills Point Source Category.

DSN001Q - DSN006Q:

Parameter	Monthly Avg Loading	Daily Max Loading	Daily Min Concentration	Monthly Avg Concentration	Daily Max Concentration	Sample Frequency	Sample Type	Basis*
BOD, 5-Day (20 Deg. C)	-	-	-	-	Report mg/l	Quarterly	Grab	BPJ
pH	-	-	Report S.U.	-	Report S.U.	Quarterly	Grab	BPJ
Solids, Total Suspended	-	-	-	-	Report mg/l	Quarterly	Grab	BPJ
Solids, Settleable	-	-	-	-	Report mg/l	Quarterly	Grab	BPJ
Oil & Grease	-	-	-	-	15 mg/l	Quarterly	Grab	BPJ
Cadmium, Total (As Cd)	-	-	-	-	Report mg/l	Quarterly	Grab	BPJ
Chromium, Total (As Cr)	-	-	-	-	Report mg/l	Quarterly	Grab	BPJ
Copper, Total (As Cu)	-	-	-	-	Report mg/l	Quarterly	Grab	BPJ
Flow, In Conduit or Thru Treatment Plant	-	Report MGD	-	-	-	Quarterly	Estimate	BPJ
Solids, Total Dissolved (TDS)	-	-	-	-	Report mg/l	Quarterly	Grab	BPJ
Chemical Oxygen Demand (COD)	-	-	-	-	Report mg/l	Quarterly	Grab	BPJ

DSN0071:

Parameter	Monthly Avg Loading	Daily Max Loading	Daily Min Concentration	Monthly Avg Concentration	Daily Max Concentration	Sample Frequency	Sample Type	Basis*
Oxygen, Dissolved (DO)	-	-	REPORT mg/l	-	-	Monthly	Grab	WQBEL
BOD, 5-Day (20 Deg. C)	-	-	-	37 mg/l	140 mg/l	Weekly	Composite	EGL
pH	-	-	6.0 S.U.	-	8.5 S.U.	Monthly	Grab	WQBEL
Solids, Total Suspended	-	-	-	27 mg/l	88 mg/l	Weekly	Composite	EGL
Oil & Grease	-	-	-	-	15 mg/l	Monthly	Grab	BPJ
Nitrogen, Ammonia Total (As N)	-	-	-	4.9 mg/l	7.3 mg/l	Monthly	Grab	WQBEL
Nitrogen, Kjeldahl Total (As N)	-	-	-	-	REPORT mg/l	Monthly	Grab	BPJ
Phosphorus, Total (As P)	-	-	-	-	REPORT mg/l	Monthly	Grab	BPJ
Selenium, Total Recoverable	-	-	-	REPORT mg/l	REPORT mg/l	Monthly	Grab	BPJ
Nickel Total Recoverable	-	-	-	REPORT mg/l	REPORT mg/l	Monthly	Grab	BPJ

Zinc, Total (As Zn)	-	-	-	0.11 mg/l	0.20 mg/l	Weekly	Composite	EGL
Lead, Total Recoverable	-	-	-	REPORT mg/l	REPORT mg/l	Monthly	Grab	BPJ
Copper Total Recoverable	-	-	-	REPORT mg/l	REPORT mg/l	Monthly	Grab	BPJ
Cyanide (A)	-	-	-	REPORT mg/l	REPORT mg/l	Monthly	Grab	BPJ
Phenol, Single Compound	-	-	-	0.015 mg/l	0.026 mg/l	Weekly	Composite	EGL
Flow, In Conduit or Thru Treatment Plant	REPORT MGD	REPORT MGD	-	-	-	Daily	Totalizer	BPJ
Solids, Total Dissolved	-	-	-	-	Report mg/l	Monthly	Grab	BPJ
Mercury Total Recoverable	-	-	-	REPORT mg/l	REPORT mg/l	Monthly	Grab	BPJ
P-Cresol	-	-	-	0.014 mg/l	0.025 mg/l	Weekly	Composite	EGL
Benzoic Acids - Total	-	-	-	0.071 mg/l	0.12 mg/l	Weekly	Composite	EGL
Alpha-Terpineol	-	-	-	0.016 mg/l	0.033 mg/l	Weekly	Composite	EGL
BOD, Carbonaceous 05 Day, 20C	-	-	-	37.0 mg/l	55.5 mg/l	Monthly	Grab	WQBEL

DSN007T:

Parameter	Monthly Avg Loading	Daily Max Loading	Daily Min Concentration	Monthly Avg Concentration	Daily Max Concentration	Sample Frequency	Sample Type	Basis*
Toxicity, Ceriodaphnia Acute	-	0 pass(0)/fail(1)	-	-	-	Quarterly	Grab	BPJ
Toxicity, Pimephales Acute	-	0 pass(0)/fail(1)	-	-	-	Quarterly	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

DSN001Q – DSN006Q - Storm water runoff from landfill operations.

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.

Flow
Flow monitoring shall be measured by estimated readings with no limitations imposed.

Landfill General Permit Requirements
This facility was previously covered by General Storm Water Permit ALG16-0055. The proposed requirements for outfalls DSN001-DSN004, and DSN006 are similar to the other storm water outfalls monitoring requirements.

Based on the current permit, the monitoring frequency for the stormwater outfalls is proposed at once per quarter.

DSN007: Process wastewater from treated landfill leachate and stormwater runoff from landfill operations.

Best Professional Judgment (BPJ)
The parameters of concern for this facility are based on the parameters of concern listed in EPA form 2C of the application and from the current permit. These parameters are consistent with similar facilities in the state and have been proven to be reflective of the operations at this facility. 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.

Acute Toxicity Biomonitoring
In view of the potential toxicity of the wastewater from synergistic effects, biomonitoring is required at this facility. Chronic Toxicity testing is typically used in permits when the effluent flow is more than 1% of the 7Q10 of the receiving stream with no diffuser; and Acute Toxicity is typically used in permits when the effluent flow is less than 1% of the 7Q10 of the receiving stream with no diffuser.

The sampling and testing will be conducted at an In-Stream Waste Concentration (IWC) of 1%, based on the following equation:

$$IWC = \frac{\text{(Facility Long Term Average (LTA) flow}}{\text{(Facility LTA flow) + (7Q10)}} \times 100\%$$

Where
Facility LTA = 0.030 MGD
7Q10 of Burnt Corn Creek = 9.06 cfs = 5.86 MGD

$$IWC = \frac{0.030\ \text{MGD}}{(0.030\ \text{MGD}) + (5.86\ \text{MGD})} \times 100\%$$

$$IWC = 0.51\% \sim 1\%$$

The IWC was determined using an assumed complete mix with the receiving stream 7Q10 of 9.06 cfs. The monitoring frequency shall be once per quarter.

Total Kjeldahl Nitrogen (As N) (TKN) and Phosphorus, Total (As P)
Based on a request from Water Quality, Total Kjeldahl Nitrogen (TKN) and Phosphorus, Total (As P) are proposed to be monitored from April to October each year. No limits are proposed at this time.

Selenium, Total Recoverable
Total Recoverable Selenium is continued as an indicator pollutant from the current permit. The limits are continued as "Monitor Only" at this time.

Water Quality Based Effluent Limits (WQBEL)

Dissolved Oxygen (D.O.)
Dissolved Oxygen at DSN007 is continued as monitor only with no limits at this time.

pH
ADEM Administrative Code, Division 6 Regulations, specifically 335-6-10-.09(5)(E)(2) – Specific Water Quality for Fish and Wildlife classified streams states: "Sewage, industrial waste or other wastes shall not cause the pH to deviate more than one unit from then normal or natural pH, nor be less than 6.0, nor greater than 8.5 standard units." Therefore, pH monitoring is required once per month for this outfall and shall not deviate from a range of 6.0 to 8.5 s.u.

Ammonia-Nitrogen as N
Ammonia-Nitrogen as N will be monitored with a daily maximum of 7.3 mg/l and a monthly average of 4.9 mg/l based on the Water Quality Waste Load Model completed by the Department. It is ADEM's policy to use a multiplication factor of 1.5 x the monthly average in determining the daily maximum limit for each of the conventional pollutants. The monitoring frequencies for Ammonia-Nitrogen as N is continued at once per month.

Carbonaceous Biochemical Oxygen Demand ($cBOD_5$)
cBOD will be monitored with a daily maximum of 55.5 mg/l and a monthly average of 37.0 mg/l based on the Water Quality Waste Load Model completed by the Department. It is ADEM's policy to use a multiplication factor of 1.5 x the monthly average in determining the daily maximum limit for each of the conventional pollutants. The monitoring frequencies for cBOD is continued at once per month.

Federal Effluent Guideline Limitations (EGL)
Parameters based upon EGL have had effluent guidelines established under the 40 CFR 445 Subpart B (445.21), RCRA Subtitle D Non-Hazardous Landfill Limitations. The effluent limitations attainable by the application of the best practicable control technology currently available (BPT) are shown below:

BPT Effluent Limitations

Regulated parameter	Maximum daily (mg/l)	Maximum monthly avg. (mg/l)
BOD	140	37
TSS	88	27
Ammonia (as N)	10	4.9
α-Terpineol	0.033	0.016
Benzoic acid	0.12	0.071
p-Cresol	0.025	0.014
Phenol	0.026	0.015
Zinc	0.20	0.11
pH	1/	1/

1/ Within the range 6 to 9.

Best Management Practices (BMPs) are believed to be the most effective way to control the contamination of stormwater from areas of industrial activities. This facility is required to maintain a BMP plan. The requirements of the BMP plan call for minimization of stormwater contact with waste materials, products and by-products, and for prevention of spills or loss of fluids from equipment maintenance activities. The effectiveness of the BMPs will be measured through the monitoring of the pollutants of concern.

The Schedule of Compliance in the Permit requires the following:

> Not later than 120 days from the effective date of this permit, the permittee is required to complete and make available for review by the Director or his designee, upon request, an updated Best Management Practices (BMP) Plan according to Part IV of this Permit. This BMP plan shall also include steps to be taken to reduce levels of Total Suspended Solids (TSS) in the stormwater discharges from the site.

Facility Name: **Timberlands Landfill**

NPDES No.: **AL0079171 - Outfall 007**

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

ID	Pollutant	Carcinogen "yes"	Type	Background from upstream source (C_{d2}) Daily Max	Background from upstream source (C_{d2}) Monthly Ave	Background Instream (C_s) Daily Max	Background Instream (C_s) Monthly Ave	**Enter** Max Daily Discharge as reported by Applicant (C_{dmax})	**Enter** Avg Daily Discharge as reported by Applicant (C_{davg})	Partition Coefficient (Stream / Lake)
				µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	
1	Antimony		Metals	0	0	0	0	20	20	-
2	**Arsenic*,****	YES	Metals	0	0	0	0	45	45	0.574
3	Berylium		Metals	0	0	0	0			-
4	Cadmium**		Metals	0	0	0	0	0.085	0.085	0.236
5	Chromium / Chromium III**		Metals	0	0	0	0	32	32	0.210
6	Chromium / Chromium VI**		Metals	0	0	0	0			
7	Copper**		Metals	0	0	0	0	3.2	3.2	0.388
8	**Lead****		Metals	0	0	0	0	1.3	1.3	0.467
9	Mercury**		Metals	0	0	0	0	0.07	0.07	0.302
10	Nickel**		Metals	0	0	0	0	84	84	0.505
11	Selenium		Metals	0	0	0	0	1.3	1.3	-
12	Silver		Metals	0	0	0	0	0.11	0.11	-
13	Thallium		Metals	0	0	0	0	0.026	0.026	-
14	Zinc**		Metals	0	0	0	0	66	66	0.330
15	Cyanide		Metals	0	0	0	0	8.2	8.2	-
16	Total Phenolic Compounds		Metals	0	0	0	0	11	11	-
17	Hardness (As CaCO3)		Metals	0	0	0	0	0	0	-
18	Acrolein		VOC	0	0	0	0	0	0	-
19	**Acrylonitrile***	YES	VOC	0	0	0	0	0	0	-
20	**Aldrin**	YES	VOC	0	0	0	0	0	0	-
21	**Benzene***	YES	VOC	0	0	0	0	0	0	-
22	**Bromoform***	YES	VOC	0	0	0	0	0	0	-
23	**Carbon Tetrachloride***	YES	VOC	0	0	0	0	0	0	-
24	**Chlordane**	YES	VOC	0	0	0	0	0	0	-
25	Clorobenzene		VOC	0	0	0	0	0	0	-
26	**Chlorodibromo-Methane***	YES	VOC	0	0	0	0	0	0	-
27	Chloroethane		VOC	0	0	0	0	0	0	-
28	2-Chloro-Ethylvinyl Ether		VOC	0	0	0	0	0	0	-
29	**ChloroForm***	YES	VOC	0	0	0	0	0	0	-
30	**4,4'-DDD**	YES	VOC	0	0	0	0	0	0	-
31	**4,4'-DDE**	YES	VOC	0	0	0	0	0	0	-
32	**4.4'-DDT**	YES	VOC	0	0	0	0	0	0	-
33	**Dichlorobromo-Methane***	YES	VOC	0	0	0	0	0	0	-
34	1, 1-Dichloroethane		VOC	0	0	0	0	0	0	-
35	**1, 2-Dichloroethane***	YES	VOC	0	0	0	0	0	0	-
36	Trans-1, 2-Dichloro-Ethylene		VOC	0	0	0	0	0	0	-
37	**1, 1-Dichloroethylene***	YES	VOC	0	0	0	0	0	0	-
38	1, 2-Dichloropropane		VOC	0	0	0	0	0	0	-
39	1, 3-Dichloro-Propylene		VOC	0	0	0	0	0	0	-
40	**Dieldrin**	YES	VOC	0	0	0	0	0	0	-
41	Ethylbenzene		VOC	0	0	0	0	0	0	-
42	Methyl Bromide		VOC	0	0	0	0	0	0	-
43	Methyl Chloride		VOC	0	0	0	0	0	0	-
44	**Methylene Chloride***	YES	VOC	0	0	0	0	0	0	-
45	**1, 1, 2, 2-Tetrachloro-Ethane***	YES	VOC	0	0	0	0	0	0	-
46	**Tetrachloro-Ethylene***	YES	VOC	0	0	0	0	0	0	-
47	Toluene		VOC	0	0	0	0	0	0	-
48	**Toxaphene**	YES	VOC	0	0	0	0	0	0	-
49	**Tributyltine (TBT)**	YES	VOC	0	0	0	0	0	0	-
50	1, 1, 1-Trichloroethane		VOC	0	0	0	0	0	0	-
51	**1, 1, 2-Trichloroethane***	YES	VOC	0	0	0	0	0	0	-
52	**Trichlorethylene***	YES	VOC	0	0	0	0	0	0	-
53	**Vinyl Chloride***	YES	VOC	0	0	0	0	0	0	-
54	P-Chloro-M-Cresol		Acids	0	0	0	0	0	0	-
55	2-Chlorophenol		Acids	0	0	0	0	0	0	-
56	2, 4-Dichlorophenol		Acids	0	0	0	0	0	0	-
57	2, 4-Dimethylphenol		Acids	0	0	0	0	0	0	-
58	4, 6-Dinitro-O-Cresol		Acids	0	0	0	0	0	0	-
59	2, 4-Dinitrophenol		Acids	0	0	0	0	0	0	-
60	**4,6-Dintro-2-methylophenol**	YES	Acids	0	0	0	0	0	0	-
61	**Dioxin (2,3,7,8-TCDD)**	YES	Acids	0	0	0	0	0	0	-
62	2-Nitrophenol		Acids	0	0	0	0	0	0	-
63	4-Nitrophenol		Acids	0	0	0	0	0	0	-
64	**Pentachlorophenol***	YES	Acids	0	0	0	0	0	0	-
65	Phenol		Acids	0	0	0	0	0	0	-
66	**2, 4, 6-Trichlorophenol***	YES	Acids	0	0	0	0	0	0	-
67	Acenaphthene		Bases	0	0	0	0	0	0	-
68	Acenaphthylene		Bases	0	0	0	0	0	0	-
69	Anthracene		Bases	0	0	0	0	0	0	-
70	Benzidine		Bases	0	0	0	0	0	0	-
71	**Benzo(A)Anthracene***	YES	Bases	0	0	0	0	0	0	-
72	**Benzo(A)Pyrene***	YES	Bases	0	0	0	0	0	0	-
73	3, 4 Benzo-Fluoranthene		Bases	0	0	0	0	0	0	-
74	Benzo(GHI)Perylene		Bases	0	0	0	0	0	0	-
75	Benzo(K)Fluoranthene		Bases	0	0	0	0	0	0	-
76	Bis (2-Chloroethoxy) Methane		Bases	0	0	0	0	0	0	-
77	**Bis (2-Chloroethyl)-Ether***	YES	Bases	0	0	0	0	0	0	-
78	Bis (2-Chloroiso-Propyl) Ether		Bases	0	0	0	0	0	0	-
79	**Bis (2-Ethylhexyl) Phthalate***	YES	Bases	0	0	0	0	0	0	-
80	4-Bromophenyl Phenyl Ether		Bases	0	0	0	0	0	0	-
81	Butyl Benzyl Phthalate		Bases	0	0	0	0	0	0	-
82	2-Chloronaphthalene		Bases	0	0	0	0	0	0	-
83	4-Chlorophenyl Phenyl Ether		Bases	0	0	0	0	0	0	-
84	**Chrysene***	YES	Bases	0	0	0	0	0	0	-
85	Di-N-Butyl Phthalate		Bases	0	0	0	0	0	0	-
86	Di-N-Octyl Phthalate		Bases	0	0	0	0	0	0	-
87	**Dibenzo(A,H)Anthracene***	YES	Bases	0	0	0	0	0	0	-
88	1, 2-Dichlorobenzene		Bases	0	0	0	0	0	0	-
89	1, 3-Dichlorobenzene		Bases	0	0	0	0	0	0	-
90	1, 4-Dichlorobenzene		Bases	0	0	0	0	0	0	-
91	**3, 3-Dichlorobenzene***	YES	Bases	0	0	0	0	0	0	-
92	Diethyl Phthalate		Bases	0	0	0	0	0	0	-
93	Dimethyl Phthalate		Bases	0	0	0	0	0	0	-
94	**2, 4-Dinitrotoluene***	YES	Bases	0	0	0	0	0	0	-
95	2, 6-Dinitrotoluene		Bases	0	0	0	0	0	0	-
96	1,2-Diphenylhydrazine		Bases	0	0	0	0	0	0	-
97	**Endosulfan (alpha)**	YES	Bases	0	0	0	0	0	0	-
98	**Endosulfan (beta)**	YES	Bases	0	0	0	0	0	0	-
99	**Endosulfan sulfate**	YES	Bases	0	0	0	0	0	0	-
100	**Endrin**	YES	Bases	0	0	0	0	0	0	-
101	**Endrin Aldeyhide**	YES	Bases	0	0	0	0	0	0	-
102	Fluoranthene		Bases	0	0	0	0	0	0	-
103	Fluorene		Bases	0	0	0	0	0	0	-
104	Heptochlor	YES	Bases	0	0	0	0	0	0	-
105	Heptachlor Epoxide	YES	Bases	0	0	0	0	0	0	-
106	**Hexachlorobenzene***	YES	Bases	0	0	0	0	0	0	-
107	**Hexachlorobutadiene***	YES	Bases	0	0	0	0	0	0	-
108	**Hexachlorocyclohexan (alpa)**	YES	Bases	0	0	0	0	0	0	-
109	**Hexachlorocyclohexan (beta)**	YES	Bases	0	0	0	0	0	0	-
110	**Hexachlorocyclohexan (gamma)**	YES	Bases	0	0	0	0	0	0	-
111	HexachlorocyclePentadiene		Bases	0	0	0	0	0	0	-
112	Hexachloroethane		Bases	0	0	0	0	0	0	-
113	**Indeno(1, 2, 3-CK)Pyrene***	YES	Bases	0	0	0	0	0	0	-
114	Isophorone		Bases	0	0	0	0	0	0	-
115	Naphthalene		Bases	0	0	0	0	0	0	-
116	Nitrobenzene		Bases	0	0	0	0	0	0	-
117	**N-Nitrosodi-N-Propylamine***	YES	Bases	0	0	0	0	0	0	-
118	**N-Nitrosodi-N-Methylamine***	YES	Bases	0	0	0	0	0	0	-
119	**N-Nitrosodi-N-Phenylamine***	YES	Bases	0	0	0	0	0	0	-
120	**PCB-1016**	YES	Bases	0	0	0	0	0	0	-
121	**PCB-1221**	YES	Bases	0	0	0	0	0	0	-
122	**PCB-1232**	YES	Bases	0	0	0	0	0	0	-
123	**PCB-1242**	YES	Bases	0	0	0	0	0	0	-
124	**PCB-1248**	YES	Bases	0	0	0	0	0	0	-
125	**PCB-1254**	YES	Bases	0	0	0	0	0	0	-
126	**PCB-1260**	YES	Bases	0	0	0	0	0	0	-
127	Phenanthrene		Bases	0	0	0	0	0	0	-
128	Pyrene		Bases	0	0	0	0	0	0	-
129	1, 2, 4-Trichlorobenzene		Bases	0	0	0	0	0	0	-

0.03	Enter Q_d = wastewater discharge flow from facility (MGD)
0.046417	Q_d = wastewater discharge flow (cfs) (this value is caluclated from the MGD)
0	**Enter or estimated**, Qd2 = background stream flow from upstream source (cfs)
9.06	**Enter 7Q10**, Q_s = background stream flow in cfs above point of discharge
6.795	**Enter or estimated, 1Q10**, Q_s = background stream flow in cfs above point of discharge (1Q10 estimated at 75% of 7Q10)
0	**Enter flow from upstream discharge** Qd2 = background stream flow in MGD above point of discharge
163.51	**Enter Mean Annual Flow**, Q_s = background stream flow in cfs above point of discharge
17.7	**Enter 7Q2**, Q_s = background stream flow in cfs above point of discharge (For LWF class streams)
Enter to Left	**Enter** C_s = background in-stream pollutant concentration in µg/l (assuming this is zero "0" unless there is data)
Q_d +Qd2+Q_s Calculated on other sheets	Q_r = resultant in-stream flow, after discharge
	C_r = resultant in-stream pollutant concentration in µg/l in the stream (after complete mixing occurs)
50	**Enter**, Background Hardness above point of discharge (assumed 50 South of Birmingham and 100 North of Birmingham)
7.00 s.u.	**Enter**, Background pH above point of discharge
YES	**Enter**, Is discharge to a stream? "YES" Other option would be to a Lake. (This changes the partition coefficients for the metals)

** Using Partition Coefficients

May 11, 2020

Facility Name: Timberlands Landfill

NPDES No.: AL0079171 - Outfal

Freshwater F&W classification.					Max Daily Discharge as reported by Applicant (C_{max})	Freshwater Acute (µg/l) Q_s =1Q10					Avg Daily Discharge as reported by Applicant (C_{dis-q})	Freshwater Chronic (µg/l) Q_s = 7Q10				Human Health Consumption Fish only (µg/l) Carcinogen Q_s = Annual Average Non-Carcinogen Q_s = 7Q10			
ID	Pollutant	RP?	Carcinogen yes	Background from upstream source (Cd2) Daily Max		Water Quality Criteria (C_c)	Draft Permit Limit (C_{draft})	20% of Draft Permit Limit	RP?	Background from upstream source (Cd2) Monthly Ave		Water Quality Criteria (C_c)	Draft Permit Limit (C_{draft})	20% of Draft Permit Limit	RP?	Water Quality Criteria (C_c)	Draft Permit Limit (C_{draft})	20% of Draft Permit Limit	RP?
1	Antimony			0	20	-	-	-	-	0	20	-	-	-	-	3.73E+02	7.32E+04	1.46E+04	No
2	Arsenic		YES	0	45	592.334	87304.820	17460.924	No	0	45	261.324	51268.551	10253.710	No	3.03E-01	1.07E+03	2.14E+02	No
3	Berylium			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
4	Cadmium			0	0.085	4.347	640.727	128.145	No	0	0.085	0.644	126.298	25.254	No	-	-	-	-
5	Chromium/ Chromium III			0	32	1537.913	226674.124	45334.825	No	0	32	200.051	39247.512	7849.502	No	-	-	-	-
6	Chromium/ Chromium VI			0	0	16.000	2358.252	471.650	No	0	0	11.000	2158.064	431.613	No	-	-	-	-
7	Copper			0	3.2	18.026	2656.921	531.384	No	0	3.2	12.788	2504.447	500.889	No	1.30E+03	2.55E+05	5.10E+04	No
8	Lead			0	1.3	64.531	9511.252	1902.250	No	0	1.3	2.515	493.348	98.670	No	-	-	-	-
9	Mercury			0	0.07	2.400	353.738	70.748	No	0	0.07	0.012	2.354	0.471	No	4.24E-02	8.32E+00	1.66E+00	No
10	Nickel			0	84	515.824	76027.734	15205.547	No	0	84	57.292	11240.015	2248.003	No	9.93E+02	1.95E+05	3.90E+04	No
11	Selenium			0	1.3	20.000	2947.815	589.563	No	0	1.3	5.000	980.938	196.188	No	2.43E+03	4.77E+05	9.54E+04	No
12	Silver			0	0.11	0.976	143.919	28.784	No	0	0.11	-	-	-	-	-	-	-	-
13	Thallium			0	0.026	-	-	-	-	0	0.026	-	-	-	-	2.74E-01	5.37E+01	1.07E+01	No
14	Zinc			0	66	197.369	29090.335	5818.067	No	0	66	198.983	39038.063	7807.613	No	1.49E+04	2.92E+06	5.84E+05	No
15	Cyanide			0	8.2	22.000	3242.596	648.519	No	0	8.2	5.200	1020.176	204.035	No	9.33E+03	1.83E+06	3.66E+05	No
16	Total Phenolic Compounds			0	11	-	-	-	-	0	11	-	-	-	-	-	-	-	-
17	Hardness (As CaCO3)			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
18	Acrolein			0	0	-	-	-	-	0	0	-	-	-	-	5.43E+00	1.06E+03	2.13E+02	No
19	Acrylonitrile		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.44E-01	5.08E+02	1.02E+02	No
20	Aldrin		YES	0	0	3.000	442.172	88.434	No	0	0	1.300	255.044	51.009	No	2.94E-05	1.04E-01	2.07E-02	No
21	Benzene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.55E+01	5.46E+04	1.09E+04	No
22	Bromoform		YES	0	0	-	-	-	-	0	0	-	-	-	-	7.88E+01	2.78E+05	5.55E+04	No
23	Carbon Tetrachloride		YES	0	0	-	-	-	-	0	0	-	-	-	-	9.57E-01	3.38E+03	6.75E+02	No
24	Chlordane		YES	0	0	2.400	353.738	70.748	No	0	0	0.004	0.844	0.169	No	4.73E-04	1.67E+00	3.33E-01	No
25	Clorobenzene			0	0	-	-	-	-	0	0	-	-	-	-	9.08E+02	1.78E+05	3.56E+04	No
26	Chlorodibromo-Methane		YES	0	0	-	-	-	-	0	0	-	-	-	-	7.41E+00	2.61E+04	5.22E+03	No
27	Chloroethane			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
28	2-Chloro-Ethylvinyl Ether			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
29	ChloroForm		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.02E+02	3.60E+05	7.19E+04	No
30	4,4' - DDD		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.81E-04	6.40E-01	1.28E-01	No
31	4,4' - DDE		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.28E-04	4.51E-01	9.03E-02	No
32	4,4' - DDT		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.28E-04	4.51E-01	9.03E-02	No
33	Dichlorobromo-Methane		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.00E+01	3.54E+04	7.08E+03	No
34	1, 1-Dichloroethane			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
35	1, 2-Dichloroethane		YES	0	0	-	-	-	-	0	0	-	-	-	-	2.14E+01	7.53E+04	1.51E+04	No
36	Trans-1, 2-Dichloro-Ethylene			0	0	-	-	-	-	0	0	-	-	-	-	5.91E+03	1.16E+06	2.32E+05	No
37	1, 1-Dichloroethylene		YES	0	0	-	-	-	-	0	0	-	-	-	-	4.17E+03	1.47E+07	2.94E+06	No
38	1, 2-Dichloropropane			0	0	-	-	-	-	0	0	-	-	-	-	8.49E+00	1.67E+03	3.33E+02	No
39	1, 3-Dichloro-Propylene			0	0	-	-	-	-	0	0	-	-	-	-	1.23E+01	2.41E+03	4.82E+02	No
40	Dieldrin		YES	0	0	0.240	35.374	7.075	No	0	0	0.056	10.987	2.197	No	3.12E-05	1.10E-01	2.20E-02	No
41	Ethylbenzene			0	0	-	-	-	-	0	0	-	-	-	-	1.24E+03	2.44E+05	4.88E+04	No
42	Methyl Bromide			0	0	-	-	-	-	0	0	-	-	-	-	8.71E+02	1.71E+05	3.42E+04	No
43	Methyl Chloride			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
44	Methylene Chloride		YES	0	0	-	-	-	-	0	0	-	-	-	-	3.46E+02	1.22E+00	2.44E+05	No
45	1, 1, 2, 2-Tetrachloro-Ethane		YES	0	0	-	-	-	-	0	0	-	-	-	-	2.33E+00	8.23E+03	1.65E+03	No
46	Tetrachloro-Ethylene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.92E+00	6.76E+03	1.35E+03	No
47	Toluene			0	0	-	-	-	-	0	0	-	-	-	-	8.72E+03	1.71E+06	3.42E+05	No
48	Toxaphene		YES	0	0	0.730	107.595	21.519	No	0	0	0.0002	0.039	0.008	No	1.62E-04	5.71E-01	1.14E-01	No
49	Tributyltin (TBT)		YES	0	0	0.460	67.800	13.560	No	0	0	0.072	14.126	2.825	No	-	-	-	-
50	1, 1, 1-Trichloroethane			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
51	1, 1, 2-Trichloroethane		YES	0	0	-	-	-	-	0	0	-	-	-	-	9.10E+00	3.21E+04	6.41E+03	No
52	Trichloethylene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.75E+01	6.16E+04	1.23E+04	No
53	Vinyl Chloride		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.42E+00	5.02E+03	1.00E+03	No
54	P-Chloro-M-Cresol			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
55	2-Chlorophenol			0	0	-	-	-	-	0	0	-	-	-	-	8.71E+01	1.71E+04	3.42E+03	No
56	2, 4-Dichlorophenol			0	0	-	-	-	-	0	0	-	-	-	-	1.72E+02	3.37E+04	6.75E+03	No
57	2, 4-Dimethylphenol			0	0	-	-	-	-	0	0	-	-	-	-	4.98E+02	9.78E+04	1.95E+04	No
58	4, 6-Dinitro-O-Cresol			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
59	2, 4-Dinitrophenol			0	0	-	-	-	-	0	0	-	-	-	-	3.11E+03	6.10E+05	1.22E+05	No
60	4,6-Dinitro-2-methylphenol		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.65E+02	5.83E+05	1.17E+05	No
61	Dioxin (2,3,7,8-TCDD)		YES	0	0	-	-	-	-	0	0	-	-	-	-	2.67E-08	9.40E-05	1.88E-05	No
62	2-Nitrophenol			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
63	4-Nitrophenol			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
64	Pentachlorophenol		YES	0	0	8.723	1285.737	257.147	No	0	0	6.693	1313.002	262.600	No	1.77E+00	6.23E+03	1.25E+03	No
65	Phenol			0	0	-	-	-	-	0	0	-	-	-	-	5.00E+05	9.81E+07	1.96E+07	No
66	2, 4, 6-Trichlorophenol		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.41E+00	4.99E+03	9.97E+02	No
67	Acenaphthene			0	0	-	-	-	-	0	0	-	-	-	-	5.79E+02	1.13E+05	2.27E+04	No
68	Acenaphthylene			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
69	Anthracene			0	0	-	-	-	-	0	0	-	-	-	-	2.33E+04	4.58E+06	9.16E+05	No
70	Benzidine			0	0	-	-	-	-	0	0	-	-	-	-	1.16E-04	2.27E-02	4.55E-03	No
71	Benzo(A)Anthracene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.07E-02	3.76E+01	7.51E+00	No
72	Benzo(A)Pyrene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.07E-02	3.76E+01	7.51E+00	No
73	3, 4 Benzo-Fluoranthene			0	0	-	-	-	-	0	0	-	-	-	-	1.07E-02	2.09E+00	4.18E-01	No
74	Benzo(GHI)Perylene			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
75	Benzo(K)Fluoranthene			0	0	-	-	-	-	0	0	-	-	-	-	1.07E-02	2.09E+00	4.18E-01	No
76	Bis (2-Chloroethoxy) Methane			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
77	Bis (2-Chloroethyl)-Ether		YES	0	0	-	-	-	-	0	0	-	-	-	-	3.07E-01	1.08E+03	2.17E+02	No
78	Bis (2-Chloroiso-Propyl) Ether			0	0	-	-	-	-	0	0	-	-	-	-	3.78E+04	7.41E+06	1.48E+06	No
79	Bis (2-Ethylhexyl) Phthalate		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.28E+00	4.52E+03	9.04E+02	No
80	4-Bromophenyl Phenyl Ether			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
81	Butyl Benzyl Phthalate			0	0	-	-	-	-	0	0	-	-	-	-	1.13E+03	2.21E+05	4.42E+04	No
82	2-Chloronaphthalene			0	0	-	-	-	-	0	0	-	-	-	-	9.24E+02	1.81E+05	3.63E+04	No
83	4-Chlorophenyl Phenyl Ether			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
84	Chrysene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.07E-02	3.76E+01	7.51E+00	No
85	Di-N-Butyl Phthalate			0	0	-	-	-	-	0	0	-	-	-	-	2.62E+03	5.14E+05	1.03E+05	No
86	Di-N-Octyl Phthalate			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
87	Dibenzo(A,H)Anthracene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.07E-02	3.76E+01	7.51E+00	No
88	1, 2-Dichlorobenzene			0	0	-	-	-	-	0	0	-	-	-	-	7.55E+02	1.48E+05	2.96E+04	No
89	1, 3-Dichlorobenzene			0	0	-	-	-	-	0	0	-	-	-	-	5.62E+02	1.10E+05	2.21E+04	No
90	1, 4-Dichlorobenzene			0	0	-	-	-	-	0	0	-	-	-	-	1.12E+02	2.21E+04	4.41E+03	No
91	3, 3-Dichlorobenzene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.66E-02	5.86E+01	1.17E+01	No
92	Diethyl Phthalate			0	0	-	-	-	-	0	0	-	-	-	-	2.56E+04	5.02E+06	1.00E+06	No
93	Dimethyl Phthalate			0	0	-	-	-	-	0	0	-	-	-	-	6.48E+05	1.27E+08	2.54E+07	No
94	2, 4-Dinitrotoluene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.98E+00	6.98E+03	1.40E+03	No
95	2, 6-Dinitrotoluene			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
96	1,2-Diphenylhydrazine			0	0	-	-	-	-	0	0	-	-	-	-	1.17E-01	2.30E+01	4.60E+00	No
97	Endosulfan (alpha)		YES	0	0	0.22	32.426	6.485	No	0	0	0.056	10.987	2.197	No	5.19E+01	1.83E+05	3.66E+04	No
98	Endosulfan (beta)		YES	0	0	0.22	32.426	6.485	No	0	0	0.056	10.987	2.197	No	5.19E+01	1.83E+05	3.66E+04	No
99	Endosulfan sulfate		YES	0	0	-	-	-	-	0	0	-	-	-	-	5.19E+01	1.83E+05	3.66E+04	No
100	Endrin		YES	0	0	0.086	12.676	2.535	No	0	0	0.036	7.083	1.413	No	3.53E-02	1.24E+02	2.49E+01	No
101	Endrin Aldeyhde		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.76E+00	6.22E+03	1.24E+03	No
102	Fluoranthene			0	0	-	-	-	-	0	0	-	-	-	-	8.12E+01	1.59E+04	3.18E+03	No
103	Fluorene			0	0	-	-	-	-	0	0	-	-	-	-	3.11E+03	6.10E+05	1.22E+05	No
104	Heptochlor		YES	0	0	0.52	76.643	15.329	No	0	0	0.004	0.746	0.149	No	4.63E-05	1.63E-01	3.26E-02	No
105	Heptachlor Epoxide		YES	0	0	0.52	76.643	15.329	No	0	0	0.004	0.746	0.149	No	2.29E-05	8.07E-02	1.61E-02	No
106	Hexachlorobenzene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.68E-04	5.92E-01	1.18E-01	No
107	Hexachlorobutadiene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.08E+01	3.79E+04	7.59E+03	No
108	Hexachlorocyclohexan (alpha)		YES	0	0	-	-	-	-	0	0	-	-	-	-	2.85E-03	1.00E+01	2.01E+00	No
109	Hexachlorocyclohexan (beta)		YES	0	0	-	-	-	-	0	0	-	-	-	-	9.97E-03	3.52E+01	7.03E+00	No
110	Hexachlorocyclohexan (gamma)		YES	0	0	0.95	140.021	28.004	No	0	0	-	-	-	-	1.08E+00	3.80E+03	7.59E+02	No
111	HexachlorocycloPentadiene			0	0	-	-	-	-	0	0	-	-	-	-	6.45E+02	1.27E+05	2.53E+04	No
112	Hexachloroethane			0	0	-	-	-	-	0	0	-	-	-	-	1.92E+00	3.76E+02	7.53E+01	No
113	Indeno(1, 2, 3-CK)Pyrene		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.07E-02	3.76E+01	7.51E+00	No
114	Isophorone			0	0	-	-	-	-	0	0	-	-	-	-	5.61E+02	1.10E+05	2.20E+04	No
115	Naphthalene			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
116	Nitrobenzene			0	0	-	-	-	-	0	0	-	-	-	-	4.04E+02	7.92E+04	1.58E+04	No
117	N-Nitrosodi-N-Propylamine		YES	0	0	-	-	-	-	0	0	-	-	-	-	2.95E-01	1.04E+03	2.08E+02	No
118	N-Nitrosodi-N-Methylamine		YES	0	0	-	-	-	-	0	0	-	-	-	-	1.78E+00	6.20E+03	1.24E+03	No
119	N-Nitrosodi-N-Phenylamine		YES	0	0	-	-	-	-	0	0	-	-	-	-	3.50E+00	1.23E+04	2.47E+03	No
120	PCB-1016		YES	0	0	-	-	-	-	0	0	0.014	2.747	0.549	No	3.74E-05	1.32E-01	2.64E-02	No
121	PCB-1221		YES	0	0	-	-	-	-	0	0	0.014	2.747	0.549	No	3.74E-05	1.32E-01	2.64E-02	No
122	PCB-1232		YES	0	0	-	-	-	-	0	0	0.014	2.747	0.549	No	3.74E-05	1.32E-01	2.64E-02	No
123	PCB-1242		YES	0	0	-	-	-	-	0	0	0.014	2.747	0.549	No	3.74E-05	1.32E-01	2.64E-02	No
124	PCB-1248		YES	0	0	-	-	-	-	0	0	0.014	2.747	0.549	No	3.74E-05	1.32E-01	2.64E-02	No
125	PCB-1254		YES	0	0	-	-	-	-	0	0	0.014	2.747	0.549	No	3.74E-05	1.32E-01	2.64E-02	No
126	PCB-1260		YES	0	0	-	-	-	-	0	0	0.014	2.747	0.549	No	3.74E-05	1.32E-01	2.64E-02	No
127	Phenanthrene			0	0	-	-	-	-	0	0	-	-	-	-	-	-	-	-
128	Pyrene			0	0	-	-	-	-	0	0	-	-	-	-	2.33E+03	4.58E+05	9.16E+04	No
129	1, 2, 4-Trichlorobenzene			0	0	-	-	-	-	0	0	-	-	-	-	4.09E+01	8.03E+03	1.61E+03	No

Holt, Wayne A

From: Haigler, Brian
Sent: Thursday, April 23, 2020 9:00 AM
To: Holt, Wayne A
Subject: Re: 7q10, AA for Burnt Corn Creek, Timberlands Landfill, AL0079171

Wayne,

From Gage:
USGS 02374745
DA = 182 square miles
7Q10 = 14.32 cfs
7Q2 = 27.99 cfs
AA = 258.7

Revised flows are as follows:

Burnt Corn Creek at 31° 14′ 56.94″ by -87° 9′ 41.44″:
DA = 115.10 square miles
7Q10 = 9.06 cfs
1Q10 = 6.79 cfs
7Q2 = 17.70 cfs
AA = 163.61 cfs

UT to Burnt Corn Creek at 31° 15′ 13″ by -87° 10′ 58.18″:
DA = < 5 square miles
7Q10 = 0 cfs
1Q10 = 0 cfs
7Q2 = 0 cfs
AA = 0.09

Brian

From: Haigler, Brian
Sent: Tuesday, January 14, 2020 2:06 PM
To: Holt, Wayne A <WHolt@adem.alabama.gov>
Subject: RE: 7q10, AA for Burnt Corn Creek, Timberlands Landfill, AL0079171

Wayne,

You are correct, the revised flows are as follows:

Burnt Corn Creek at 31° 14′ 56.94″ by -87° 9′ 41.44″:
DA = 115.10 square miles
7Q10 = 1.63 cfs
1Q10 = 1.22 cfs
7Q2 = 1.95 cfs
AA = 5.13 cfs

UT to Burnt Corn Creek at 31° 15′ 13″ by -87° 10′ 58.18″:
DA = < 5 square miles
7Q10 = 0 cfs
1Q10 = 0 cfs
7Q2 = 0 cfs
AA = 0.09

Brian

From: Holt, Wayne A <WHolt@adem.alabama.gov>
Sent: Tuesday, January 14, 2020 1:04 PM
To: Haigler, Brian <BCH@adem.alabama.gov>
Subject: RE: 7q10, AA for Burnt Corn Creek, Timberlands Landfill, AL0079171

Brian,
Just want to confirm, the UT has more flow than Burnt Corn at the GPS's?

Wayne H

From: Haigler, Brian <BCH@adem.alabama.gov>
Sent: Tuesday, October 8, 2019 1:10 PM
To: Holt, Wayne A <WHolt@adem.alabama.gov>
Subject: RE: 7q10, AA for Burnt Corn Creek, Timberlands Landfill, AL0079171

Wayne Holt

Burnt Corn Creek at 31° 14′ 56.94″ by -87° 9′ 41.44″:
DA = < 5 square miles
7Q10 = 0 cfs
1Q10 = 0 cfs
7Q2 = 0 cfs
AA = 0.09

UT to Burnt Corn Creek at 31° 15′ 13″ by -87° 10′ 58.18″:
DA = 115.10 square miles
7Q10 = 1.63 cfs
1Q10 = 1.22 cfs
7Q2 = 1.95 cfs
AA = 5.13 cfs

From: Holt, Wayne A <WHolt@adem.alabama.gov>
Sent: Thursday, October 3, 2019 7:56 AM
To: Haigler, Brian <BCH@adem.alabama.gov>
Subject: 7q10, AA for Burnt Corn Creek, Timberlands Landfill, AL0079171

Brian,
Can I get the 7q10, 1q10, and AA for

Burnt Corn Creek in the Perdidio-Escambia R.B.
and also for a UT to Burnt Corn?
The facility is Timberlands Landfill, permit AL0079171.

The GPS of the Outfall for Burnt Corn Creek are
31° 14′ 56.94″ by -87° 9′ 41.44″

and the coordinates of the UT are
31° 15′ 13″ by -87° 10′ S8.18″

If you have any questions, please let me know.

Wayne Holt
Industrial Section
Industrial/Municipal Branch
Water Division
Alabama Department of Environmental Management
Post Office Box 301463
Montgomery, Alabama 36130
(334) 271-7847
adem.alabama.gov

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

Did you know you can submit your DMRs and SSOs online using our newly enhanced E2 DMR/SSO Reporting System? To sign up and learn more, please visit the Department's E2 Reporting System webpage here.

REPUBLIC SERVICES

RECEIVED
OCT 30 2018
IND. MUN BRANCH

October 26, 2018

Mr. Scott Ramsey, P.E.
Chief, Industrial Section, Water Division
Alabama Department of Environmental Management
1400 Coliseum Boulevard
Montgomery, AL 36110-2059

Subject: NPDES Permit AL0079171
Renewal Application

Dear Mr. Ramsey:

BFI Waste Systems of Alabama, LLC (BFI) is submitting this NPDES Permit Renewal Application for the Timberlands Landfill for the above referenced NPDES Permit. No changes to the existing permit are proposed with this submission. A check for $5,615 issued to ADEM to cover the permit renewal fee is included.

Please contact me at (904) 591-3086 should you have any questions or comments. We appreciate ADEM's cooperation on this matter.

Sincerely,

BFI WASTE SYSTEMS OF ALABAMA, LLC

Michael Guy
Environmental Manager

cc: Mr. Darrin Hinderliter (BFI)
Mr. Herwig Goldemund (Geosyntec)

attachment

2910 North Palafox Street Pensacola, FL 32501
O: 850.437.7846 mguy@republicservices.com

RECEIVED
OCT 30 2018
IND. MUN BRANCH

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
PERMIT APPLICATION SUPPLEMENTARY INFORMATION

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
WATER DIVISION – INDUSTRIAL / MINING PERMIT SECTION
POST OFFICE BOX 301463
MONTGOMERY, ALABAMA 36130-1463

INSTRUCTIONS: APPLICATIONS SHOULD BE TYPED OR PRINTED IN INK AND SUBMITTED TO THE DEPARTMENT 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 NON-APPLICABLE TO THE APPLICANT.

PURPOSE OF THIS APPLICATION

- [ ] INITIAL PERMIT APPLICATION FOR NEW FACILITY
- [ ] INITIAL PERMIT APPLICATION FOR EXISTING FACILITY
- [ ] MODIFICATION OF EXISTING PERMIT
- [x] REISSUANCE OF EXISTING PERMIT
- [ ] REVOCATION & REISSUANCE OF EXISTING PERMIT

1. Facility Name: Timberlands Landfill

   a. Operator Name: BFI Waste Systems of Alabama, LLC

   b. Is the operator identified in 1.a., the owner of the facility? Yes [ ] No [✓]
   If no, provide the name and address of the operator and submit information indicating the operator's scope of responsibility for the facility.
   The owner of the facility is Escambia County Environmental Corporation, P.O. Box 1165, Daphne, AL 36256

2. NPDES Permit Number AL 0 0 7 9 1 7 1

3. SID Permit Number (if applicable): IU 3 3 - 2 7 - 0 0 4 9 3

4. NPDES General Permit Number (if applicable) ALG ___ ___ ___ ___ ___ ___ ___

5. Facility Physical Location: (Attach a map with location marked; street, route no. or other specific identifier)

   Street: 22800 Highway 41

   City: Brewton County: Escambia State: Alabama Zip: 36426

   Facility (Front Gate) Latitude: 31.255682° Longitude: -87.192220°

6. Facility Mailing Address (Street or Post Office Box): 22800 Highway 41

   City: Brewton State: Alabama Zip: 36426

7. Responsible Official (as described on page 13 of this application):

Name and Title: Andrew Rodgers; General Manager

Address: 22800 Highway 41

City: Brewton State: Alabama Zip: 36426

Phone Number: 251-554-5337

EMAIL Address: ARodgers@republicservices.com

8. Designated Facility Contact:

Name and Title: Darrin Hinderliter; Division Manager

Phone Number: 251-867-8921

EMAIL Address: dhinderliter@republicservices.com

9. Designated Discharge Monitoring Report Contact:

Name and Title: Michael Guy; Environmental Manager

Phone Number: 850-437-7846

EMAIL Address: MGuy@republicservices.com

10. Type of Business Entity:

☑ Corporation ☐ General Partnership ☐ Limited Partnership

☐ Sole Proprietorship ☐ Other (Please Specify) _____

11. Complete this section if the Applicant's business entity is a Corporation

a) Location of Incorporation:

Address: 18500 North Allied Way

City: Phoenix County: Maricopa State: Arizona Zip: 85054

b) Parent Corporation of Applicant:

Name: Republic Services, Inc.

Address: 18500 North Allied Way

City: Phoenix State: Arizona Zip: 85054

c) Subsidiary Corporation(s) of Applicant:

Name: _____

Address: _____

City: _____ State: _____ Zip: _____

d) Corporate Officers:

Name: See attached

Address: See attached

City: _____ State: _____ Zip: _____

Name: _____

Address: _____

City: _____ State: _____ Zip: _____

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

Name: Michael Guy; Environmental Manager

Address: 2910 N. Palafox Street

City: Pensacola State: Florida Zip: 32501

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

Name: _____

Address: _____

City: _____ State: _____ Zip: _____

Name: _____

Address: _____

City: _____ State: _____ Zip: _____

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

Name: _____

Address: _____

City: _____ State: _____ Zip: _____

14. Permit numbers for Applicant's previously issued NPDES Permits and identification of any other State of Alabama Environmental Permits presently held by the Applicant, its parent corporation, or subsidiary corporations within the State of Alabama:

Permit Name	Permit Number	Held By
See attached		(Note that permits also include permits held by Morris Farm LF)

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):

Facility Name	Permit Number	Type of Action	Date of Action
See attached			(Note that these issues also include the Morris Farm LF)

SECTION B – BUSINESS ACTIVITY

1. Indicate applicable Standard Industrial Classification (SIC) Codes for all processes (If more than one applies, list in order of importance:

a. 4953

b. _____

c. _____

d. _____

e. _____

2. 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

[ ]	Aluminum Forming	[ ]	Metal Molding and Casting
[ ]	Asbestos Manufacturing	[ ]	Metal Products
[ ]	Battery Manufacturing	[ ]	Nonferrous Metals Forming
[ ]	Can Making	[ ]	Nonferrous Metals Manufacturing
[ ]	Canned and Preserved Fruit and Vegetables	[ ]	Oil and Gas Extraction
[ ]	Canned and Preserved Seafood	[ ]	Organic Chemicals Manufacturing
[ ]	Cement Manufacturing	[ ]	Paint and Ink Formulating
[ ]	Centralized Waste Treatment	[ ]	Paving and Roofing Manufacturing
[ ]	Carbon Black	[ ]	Pesticides Manufacturing
[ ]	Coal Mining	[ ]	Petroleum Refining
[ ]	Coil Coating	[ ]	Phosphate Manufacturing
[ ]	Copper Forming	[ ]	Photographic
[ ]	Electric and Electronic Components Manufacturing	[ ]	Pharmaceutical
[ ]	Electroplating	[ ]	Plastic & Synthetic Materials
[ ]	Explosives Manufacturing	[ ]	Plastics Processing Manufacturing
[ ]	Feedlots	[ ]	Porcelain Enamel
[ ]	Ferroalloy Manufacturing	[ ]	Pulp, Paper, and Fiberboard Manufacturing
[ ]	Fertilizer Manufacturing	[ ]	Rubber
[ ]	Foundries (Metal Molding and Casting)	[ ]	Soap and Detergent Manufacturing
[ ]	Glass Manufacturing	[ ]	Steam and Electric
[ ]	Grain Mills	[ ]	Sugar Processing
[ ]	Gum and Wood Chemicals Manufacturing	[ ]	Textile Mills
[ ]	Inorganic Chemicals	[ ]	Timber Products
[ ]	Iron and Steel	[ ]	Transportation Equipment Cleaning
[ ]	Leather Tanning and Finishing	[ ]	Waste Combustion
[ ]	Metal Finishing	[✓]	Other (specify) Landfill
[ ]	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" and should skip to question 2 of Section C.

3. Give a brief description of all operations at this facility including primary products or services (attach additional sheets if necessary):

The facility is a sanitary landfill permitted by ADEM under Solid Waster Permit 27-08. It has been in operation since October 1993, and the landfill accepts non-hazardous, non-infectious wastes including household garbage, approved special wastes, construction and demolition debris, tires, appliances, yard wastes, dried sludges, paper, and similar waste materials.

SECTION C – WASTEWATER DISCHARGE INFORMATION

Facilities that checked activities in question 2 of Section B and are considered Categorical Industrial Users should skip to question 2 of this section.

1. **For Non-Categorical Users Only**: Provide wastewater flows for each of the processes or proposed processes. Using the process flow schematic (Figure 1, pg 14), enter the description that corresponds to each process. [New facilities should provide estimates for each discharge.]

Process Description	Last 12 Months (gals/day) Highest Month Avg. Flow	Highest Flow Year of Last 5 (gals/day) Monthly Avg. Flow	Discharge Type (batch, continuous, intermittent)
Not applicable			

If batch discharge occurs or will occur, indicate: [New facilities may estimate.]

a. Number of batch discharges: _____ per day

b. Average discharge per batch: _____ (GPD)

c. Time of batch discharges _____ at _____
(days of week) (hours of day)

d. Flow rate: _____ gallons/minute

e. Percent of total discharge: _____

Non-Process Discharges (e.g. non-contact cooling water)	Last 12 Months (gals/day) Highest Month Avg. Flow	Highest Flow Year of Last 5 (gals/day) Monthly Avg. Flow

2. **Complete this Section only if you are subject to Categorical Standards and plan to directly discharge the associated wastewater to a water of the State.** If Categorical wastewater is discharged exclusively via an indirect discharge to a public or privately-owned treatment works, check "Yes" in the appropriate space below and proceed directly to part 2.c .

[ ] Yes

For Categorical Users: Provide the wastewater discharge flows or production (whichever is applicable by the effluent guidelines) for each of your processes or proposed processes. Using the process flow schematic (Figure 1, pg 14), enter the description that corresponds to each process. [New facilities should provide estimates for each discharge.]

2a.

Regulated Process	Applicable Category	Applicable Subpart	Type of Discharge Flow (batch, continuous, intermittent)
Landfill Leachate	BPT Effluent Limitations	§ 445.21	Currently not discharging through permitted outfalls; offsite trucking to wastewater treatment plant

2b.

Process Description	Last 12 Months (gals/day) Highest Month Average*	Highest Flow Year of Last 5 (gals/day) Monthly Average*	Discharge Type (batch, continuous, intermittent)
Leachate Generation/Flow	0.014350 MGD	0.009600 MGD	Currently not discharging; offsite trucking to WWTP (Data are through 4/2016)

*** Reported values should be expressed in units of the applicable Federal production-based standard. For example, flow (MGD), production (pounds per day), etc.**

If batch discharge occurs or will occur, indicate: [New facilities may estimate.]

a. Number of batch discharges: _____ per day

b. Average discharge per batch: _____ (GPD)

c. Time of batch discharges _____ at _____
(days of week) (hours of day)

d. Flow rate: _____ gallons/minute

Percent of total discharge: 100% offsite trucking of leachate

2c.

Non categorical Process Description	Last 12 Months (gals/day) Highest Month Avg. Flow	Highest Flow Year of Last 5 (gals/day) Monthly Avg. Flow	Discharge Type (batch, continuous, intermittent)
Not applicable			

If batch discharge occurs or will occur, indicate: [New facilities may estimate.]

a. Number of batch discharges: _____ per day

b. Average discharge per batch: _____ (GPD)

c. Time of batch discharges _____ at _____
(days of week) (hours of day)

d. Flow rate: _____ gallons/minute

Percent of total discharge: _____

2d.

Non-Process Discharges (e.g. non-contact cooling water)	Last 12 Months (gals/day) Highest Month Avg. Flow	Highest Flow Year of Last 5 (gals/day) Monthly Avg. Flow
Stormwater	Intermittent; depending on rain	Intermittent; depending on rain

All Applicants must complete Questions 3 – 5.

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

Flow Metering	Yes ___	No ___	N/A ✓
Sampling Equipment	Yes ___	No ___	N/A ✓

If so, please indicate the present or future location of this equipment on the sewer schematic and describe the equipment below:

Flow metering is provided to measure leachate going into the leachate storage tanks and is available to measure potential future discharge through future Outfall DSN007; autosampler is available for composite samples.

4. Are any process changes or expansions planned during the next three years that could alter wastewater volumes or characteristics? Yes ☑ No ☐ (If no, skip Question 5)

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

The footprint of the landfill continues to change until the landfill is fully built out to its permitted capacity, which might affect future leachate generation rates; leachate chemistry generally does not change much based on these expansion activities.

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

Trade Name	Chemical Composition
Not applicable	

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):

[✓] Private Well
[ ] Municipal Water Utility (Specify City):
[ ] Surface Water
[✓] Other (Specify): Bottled drinking water

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

City: NA *MGD Well: 0.0504 *MGD Well Depth: 147 Ft. Latitude: 31.151596° Longitude: -87.112244°

Surface Intake Volume: NA *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 questions 1 and 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 NA b)Location of Provider _____

   c) Latitude: _____ Longitude: _____

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 questions 6 – 17.)

6. Is the cooling water used in a once-through or 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. How is the intake operated? (e.g., continuously, intermittently, batch)

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

12. What is the intake screen flow-through area?

13. What is the through screen design intake flow velocity? _____ft/sec

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

15. Do you have any additional fish detraction technology on your intake? Yes [ ] No [ ]

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

17. 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
Above-ground tanks for diesel fuel (SPCC Plan onsite)	Near maintenance building (Figure 2)
Leachate storage tanks (SPCC Plan onsite)	Near maintenance building (Figure 2)

Provide a description of the location of the ultimate disposal sites of solid or liquid waste by-products (such as sludges) from any wastewater treatment system located at the facility.

Description of Waste	Quantity (lbs/day)	Disposal Method*
N/A (wetlands treatment system inactive)	N/A	N/A

***Indicate which wastes identified above are disposed of at an off-site treatment facility and which are disposed of on-site. If any wastes are sent to an off-site centralized waste treatment facility, identify the waste and the facility.**

SECTION F – COASTAL ZONE INFORMATION

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

Yes [ ] No [✓] If yes, then complete items A through M below:

	YES	NO
A. Does the project require new construction?	☐	☐
B. Will the project be a source of new air emissions?	☐	☐
C. Does the project involve dredging and/or filling?	☐	☐
Has the Corps of Engineers (COE) permit been received?	☐	☐
Corps Project Number _____		
D. Does the project involve wetlands and/or submersed grassbeds?	☐	☐
E. Are oyster reefs located near the project site? (Include a map showing project and discharge location with respect to oyster reefs)	☐	☐
F. Does the project involve the siting, construction and operation of an energy facility as defined in ADEM Admin. Code R. 335-8-1-.02(bb)?	☐	☐
G. Does the project involve shoreline erosion mitigation?	☐	☐
H. Does the project involve construction on beaches and dunes?	☐	☐
I. Will the project interfere with public access to coastal waters?	☐	☐
J. Does the project lie within the 100-year floodplain?	☐	☐
K. Does the project involve the registration, sale, use, or application of pesticides?	☐	☐
L. Does the project propose to construct a new well or alter an existing well to pump more than 50 GPD?	☐	☐
M. Has the applicable permit been obtained?	☐	☐

SECTION G – ANTI-DEGRADATION EVALUATION

In accordance with 40 CFR 131.12 and the Alabama Department of Environmental Management Administrative Code, Section 335-6-10-.04 for antidegradation, 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 question 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 question 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 questions A through F below and ADEM forms 311 and 313 (attached). 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 there. The EPA application forms are found on the Department's website at http://www.adem.state.al.us/. 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

Receiving Water(s)	303(d) Segment? (Y / N)	Included in TMDL?* (Y / N)
Burnt Corn Creek (potential future discharge)	No	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 RULE 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."

"I FURTHER CERTIFY UNDER PENALTY OF LAW THAT ALL ANALYSES REPORTED AS LESS THAN DETECTABLE IN THIS APPLICATION OR ATTACHMENTS THERETO WERE PERFORMED USING THE EPA APPROVED TEST METHOD HAVING THE LOWEST DETECTION LIMIT FOR THE SUBSTANCE TESTED."

SIGNATURE OF RESPONSIBLE OFFICIAL: _____ DATE SIGNED: 10/24/18

(TYPE OR PRINT)
NAME OF RESPONSIBLE OFFICIAL: Andrew Rodgers

TITLE OF RESPONSIBLE OFFICIAL: General Manager

MAILING ADDRESS: 22800 Highway 41

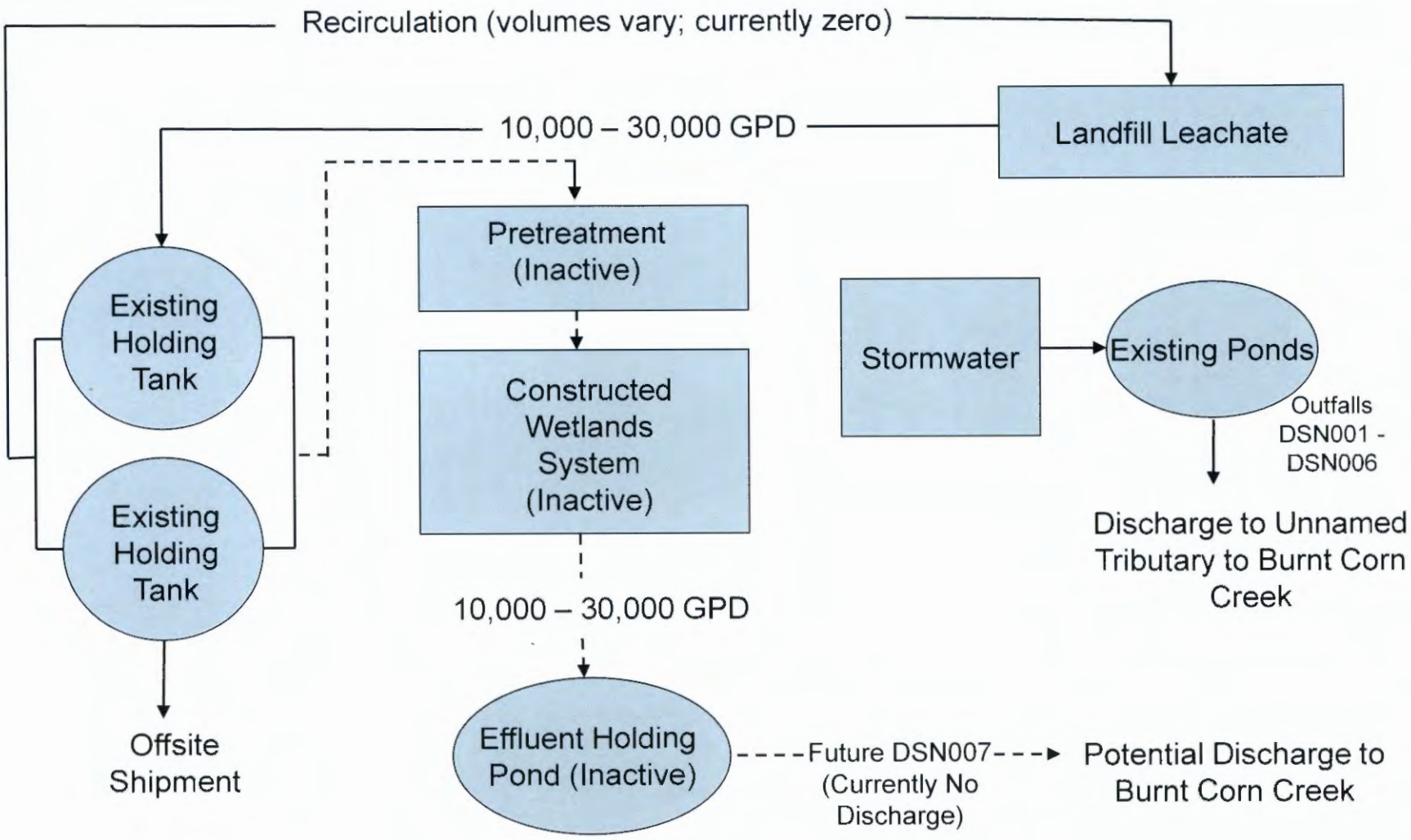
CITY, STATE, ZIP: Brewton, Alabama 36426 PHONE: 251-554-5337

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.

Timberlands NPDES Permit Renewal Application

Schematic Figure 187-1



Officers of Applicant
BFI Waste Systems of Alabama, LLC

Name	Position
James G. Amick	Vice President
Tim M. Benter	Vice President
Robert B. Boyer	President
Calvin R. Boyd	Treasurer
Lawrence D. Focazio	Vice President, Tax
Myndi M. Kort	Vice President; Assistant Secretary
John B. Nickerson	Vice President; Assistant Secretary
Eileen B. Schuler	Secretary; Vice President
Timothy E. Stuart	Vice President
Thomas D. Ulreich-Power	Vice President; Assistant Secretary
Adrienne W. Wilhoit	Vice President; Assistant Secretary

Permits

Facility Name and Address	Permit Category	Permit Title	Permit Type	Permit Number	Permit End Date
APPLICANT: BFI Waste Systems of Alabama, LLC					
Morris Farm LF 4 COUNTY RD 418 Hillsboro, AL 35643	Water	NPDES	Wastewater Discharge Permit	ALG160116	1/31/2022
Morris Farm LF 4 COUNTY RD 418 Hillsboro, AL 35643	Air	Title V Air - Major Source	Title V Permit	707-0006	6/28/2021
Morris Farm LF 4 COUNTY RD 418 Hillsboro, AL 35643	Water	State Indirect Discharge Permit	Wastewater Discharge Permit	IU084000290	7/31/2022
Morris Farm LF 4 COUNTY RD 418 Hillsboro, AL 35643	Solid Waste	Solid Waste	Permit to Operate	40-08	11/12/2022
Pineview LF 2730 BRYAN RD Dora, AL 35062	Air	Title V Major Source Operating Permit	Title V Permit	414-0013	8/29/2021
Pineview LF 2730 BRYAN RD Dora, AL 35062	Solid Waste	Solid Waste Disposal	Permit to Operate	64-11	5/24/2020
Pineview LF 2730 BRYAN RD Dora, AL 35062	Water	NPDES	Wastewater Discharge Permit	ALG 16-0047	1/31/2022
Timberlands LF 22800 HWY 41 Brewton, AL 36426	Water	State Indirect Discharge Permit	Other	IU 33 27 00493	3/31/2020
Timberlands LF 22800 HWY 41 Brewton, AL 36426	Water	NPDES Permit	Wastewater Discharge Permit	AL 0079171	4/30/2019

Permits

Facility Name and Address	Permit Category	Permit Title	Permit Type	Permit Number	Permit End Date
Timberlands LF 22800 HWY 41 Brewton, AL 36426	Air	Major Source Operating Permit	Permit to Construct/Operate	502-0080	9/28/2021
Timberlands LF 22800 HWY 41 Brewton, AL 36426	Solid Waste	Solid Waste	Permit to Operate	27-08	9/23/2019
PARENT OF APPLICANT: Allied Waste North America, LLC					
NONE					
SUBSIDIARY OF APPLICANT					
N/A					

Notices of Violation

Facility Name	Solid Waste Permit Number	Water Permit Number	Action Caption	Date of Action	Description of Alleged Violation	Violation Status	Fine
APPLICANT: BFI Waste Systems of Alabama, LLC							
Morris Farm LF	40-08	IU084000290	Significant Noncompliance Public Notice	1/22/2016	Allegations the site was in significant noncompliance during the fiscal year 2015 by discharging wastewater to the Decatur Utilities WWTP that did not comply with permit requirements	Resolved; Noncompliance Withdrawn	$0.00
Timberlands LF	27-08	AL0079171	NOV	4/14/2016	Allegation that Permittee has discharged pollutants in exceedance of the limitations imposed by Part I.A.	Return to Compliance	$0.00
PARENT OF APPLICANT: Allied Waste North America, LLC							
NONE							
SUBSIDIARY OF APPLICANT							
N/A							

Litigation

Case Name	Description	Date of Action	Case Number
APPLICANT: BFI Waste Systems of Alabama, LLC			
St. John, Jr., James et al. v. BFI Waste Systems of Alabama, LLC d/b/a Morris Farm Landfill, and BFI Waste Systems of North America, LLC et al.	Plaintiffs' allege that the Landfill caused or contributed to the alleged damages by discharging untreated leachate-containing PFCs (e.g., perfluorooctanic acid (PFOA) and perfluorooctane sulfonate (PFOS)) to waste water treatment plants (WWTPs) that, in turn, failed to treat the PFCs before discharging into the Tennessee River and/or selling their sludge for land application. The Landfill has disposed of its leachate at WWTPs in Moulton and Decatur, Alabama. ADEM issued the Landfill a five-year State Indirect Discharge (SID) permit to dispose of its leachate at the Decatur WWTP that became effective April 1, 2012. The Sixth Amended Complaint adds BFI Waste Systems of Alabama, LLC (the legal entity for the Morris Farm LF) and affiliate BFI Waste Systems of North America, LLC as defendants; it also adds the City of Decatur and Morgan County's Municipal Utilities Board dba Decatur Utilities as defendants.	06/16/2015	52-CV-2002000408
Tennessee Riverkeeper, Inc. v. BFI Waste Systems of Alabama, LLC d/b/a Morris Farm Landfill and BFI Waste Systems of North America, LLC et al.	Tennessee Riverkeeper, Inc. informed the Company of its intent to sue alleging that the Landfill caused or contributed to the alleged damages by discharging untreated leachate-containing PFCs (e.g., perfluorooctanic acid (PFOA) and perfluorooctane sulfonate (PFOS)) to waste water treatment plants (WWTPs) that, in turn, failed to treat the PFCs before discharging into the Tennessee River and/or selling their sludge for land application.	09/21/2015	CV-16HGD1029NE

Litigation

Case Name	Description	Date of Action	Case Number
Billings, Eric Tyrone, et al. v. West Morgan-East Lawrence Water & Sewer, 3M Company, Dyneon, L.L.C., Daikin America, Inc., BFI Waste Systems of Alabama, LLC d/b/a Morris Farm Landfill and City of Decatur	BFI Waste Systems of Alabama, LLC has been sued in the Circuit Court of Lawrence County, Alabama in a lawsuit brought by several hundred plaintiffs alleging property damage and bodily injury as the result of drinking water supplied by the West Morgan-East Lawrence Water and Sewer Authority allegedly contaminated with PFCs, including but not limited to PFOA and PFOS. In addition to BFI Waste Systems of Alabama, LLC, the lawsuit names as defendants the West Morgan-East Lawrence Water and Sewer Authority, 3M Company, Dyneon, LLC, Daikin America, Inc., and the City of Decatur as the owner and operator of the City of Decatur – Morgan County Sanitary Landfill and as the owner and operator of the Dry Creek Waste Water Treatment Plant. The lawsuit alleges that the defendant water authority draws its drinking water supply from the Tennessee River and that the water is contaminated with PFCs as a result of the remaining defendants' respective manufacturing operations, landfill operations, or waste water treatment plant operations. More specifically, the lawsuit alleges that BFI Waste Systems of Alabama, LLC, though the operation of the Morris Farm Landfill, releases PFCs into the Tennessee River through the discharge of landfill leachate and as the result of groundwater contamination at the landfill site.	08/31/2016	cv-2016-900103
PARENT OF APPLICANT: Allied Waste North America, LLC			
NONE			
SUBSIDIARY OF APPLICANT			
N/A			

Please print or type in the unshaded areas only.

Form Approved. OMB No. 2040-0086.

FORM 1 GENERAL

EPA

U.S. ENVIRONMENTAL PROTECTION AGENCY

GENERAL INFORMATION

Consolidated Permits Program

(Read the "General Instructions" before starting.)

I. EPA I.D. NUMBER

S		T/A	C
F	AL0079171		D
1	2 — 13	14	15

LABEL ITEMS	
I. EPA I.D. NUMBER	PLEASE PLACE LABEL IN THIS SPACE
III. FACILITY NAME	
V. FACILITY MAILING ADDRESS	
VI. FACILITY LOCATION	

GENERAL INSTRUCTIONS

If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data in the appropriate fill-in area below. Also, if any of the preprinted data is absent *(the area to the left of the label space lists the information that should appear)*, please provide it in the proper fill-in area(s) below. If the label is complete and correct, you need not complete Items I, III, V, and VI *(except VI-B which must be completed regardless)*. Complete all items if no label has been provided. Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected.

II. POLLUTANT CHARACTERISTICS

INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of **bold-faced terms**.

SPECIFIC QUESTIONS	Mark "X" YES	NO	FORM ATTACHED	SPECIFIC QUESTIONS	Mark "X" YES	NO	FORM ATTACHED
A. Is this facility a **publicly owned treatment works** which results in a **discharge** to **waters of the U.S.**? (FORM 2A)		X		B. Does or will this facility *(either existing or proposed)* include a **concentrated animal feeding operation** or **aquatic animal production facility** which results in a **discharge** to **waters of the U.S.**? (FORM 2B)		X	
	16	17	18		19	20	21
C. Is this a facility which currently results in **discharges** to **waters of the U.S.** other than those described in A or B above? (FORM 2C)	X		X	D. Is this a proposed facility *(other than those described in A or B above)* which will result in a **discharge** to **waters of the U.S.**? (FORM 2D)		X	
	22	23	24		25	26	27
E. Does or will this facility treat, store, or dispose of **hazardous wastes**? (FORM 3)		X		F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)		X	
	28	29	30		31	32	33
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)		X		H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)		X	
	34	35	36		37	38	39
I. Is this facility a proposed **stationary source** which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		X		J. Is this facility a proposed **stationary source** which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an **attainment area**? (FORM 5)		X	
	40	41	42		43	44	45

III. NAME OF FACILITY

C 1 SKIP Timberlands Landfill

15 | 16 – 29 | 30 — 69

IV. FACILITY CONTACT

A. NAME & TITLE *(last, first, & title)*	B. PHONE *(area code & no.)*
C 2 Hinderliter, Darrin; Division Manager	(251) 867-8921
15	16 — 45	46 — 48	49 — 51	52 — 55

V. FACILTY MAILING ADDRESS

A. STREET OR P.O. BOX

C 3 22800 Highway 41

15 | 16 — 45

B. CITY OR TOWN	C. STATE	D. ZIP CODE
C 4 Brewton	AL	36426
15	16 — 40	41 — 42	47 — 51

VI. FACILITY LOCATION

A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER

C 5 22800 Highway 41

15 | 16 — 45

B. COUNTY NAME

Escambia

46 — 70

C. CITY OR TOWN	D. STATE	E. ZIP CODE	F. COUNTY CODE *(if known)*
C 6 Brewton	AL	36426	053
15	16 — 40	41 — 42	47 — 51	52 — 54

RECEIVED OCT 0 0 2018 IND. MUN BRANCH

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

VII. SIC CODES *(4-digit, in order of priority)*

A. FIRST	B. SECOND
7 4953 (specify) REFUSE SYSTEMS	7 (specify)
C. THIRD	**D. FOURTH**
7 (specify)	7 (specify)

VIII. OPERATOR INFORMATION

A. NAME: 8 BFI Waste Systems of Alabama, LLC

B. Is the name listed in Item VIII-A also the owner? ☑ YES ☐ NO

C. STATUS OF OPERATOR *(Enter the appropriate letter into the answer box: if "Other," specify.)*

F = FEDERAL
S = STATE
P = PRIVATE
M = PUBLIC *(other than federal or state)*
O = OTHER *(specify)*

P (specify)

D. PHONE *(area code & no.)*: A (251) 867-8921

E. STREET OR P.O. BOX: 22800 Highway 41

F. CITY OR TOWN: B Brewton

G. STATE: AL

H. ZIP CODE: 36426

IX. INDIAN LAND

Is the facility located on Indian lands? ☐ YES ☑ NO

X. EXISTING ENVIRONMENTAL PERMITS

A. NPDES *(Discharges to Surface Water)*	9 N AL0079171	D. PSD *(Air Emissions from Proposed Sources)*	9 P
B. UIC *(Underground Injection of Fluids)*	9 U	E. OTHER *(specify)*	9 27-08 (specify) SOLID WASTE
C. RCRA *(Hazardous Wastes)*	9 R	E. OTHER *(specify)*	9 IU 33 27 00493 (specify) SID Permit

XI. MAP

Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers, and other surface water bodies in the map area. See instructions for precise requirements.

XII. NATURE OF BUSINESS *(provide a brief description)*

The facility is a sanitary landfill that accepts non-hazardous waste for disposal.

XIII. CERTIFICATION *(see instructions)*

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

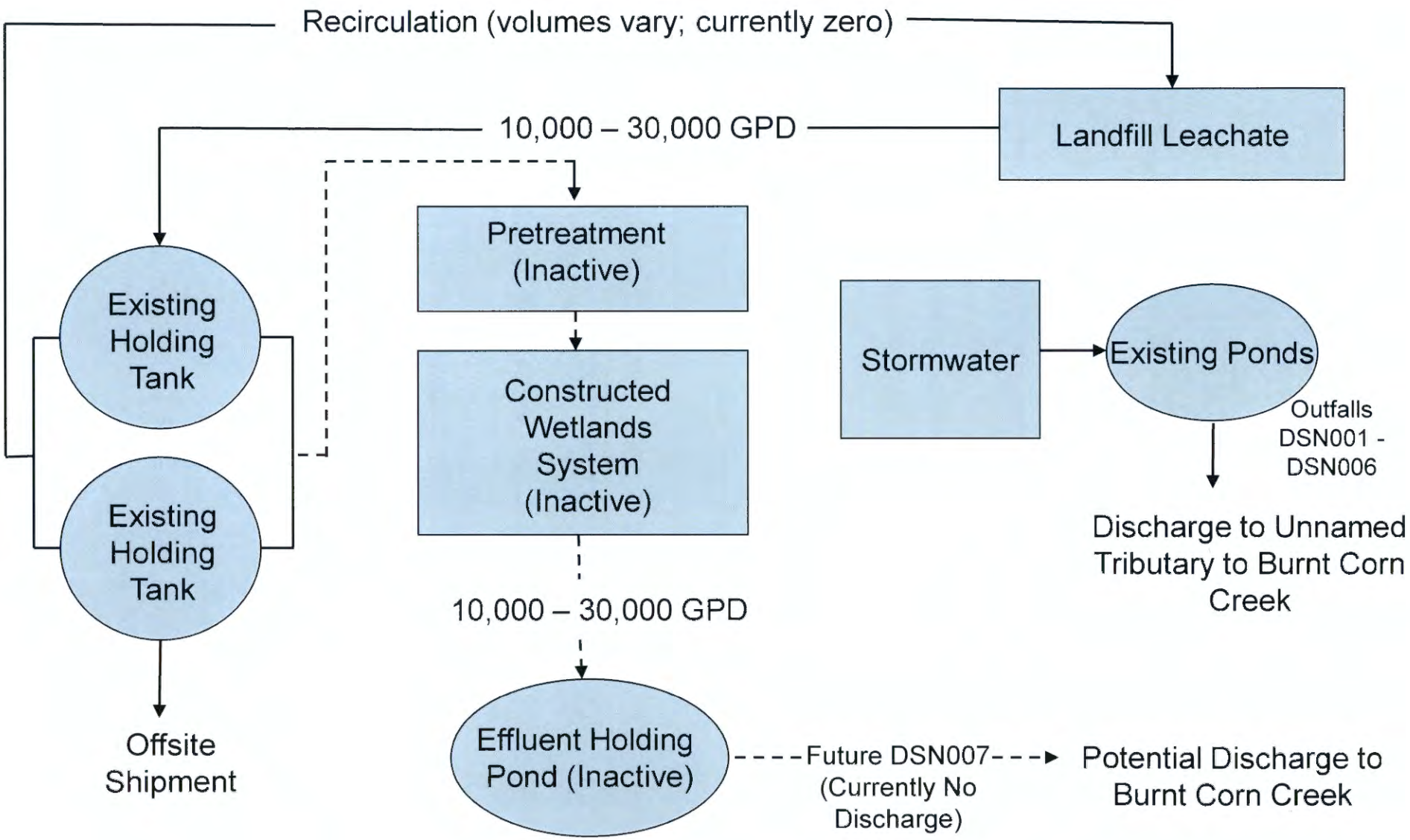
A. NAME & OFFICIAL TITLE *(type or print)*	B. SIGNATURE	C. DATE SIGNED
Andrew Rodgers; General Manager		10/24/18

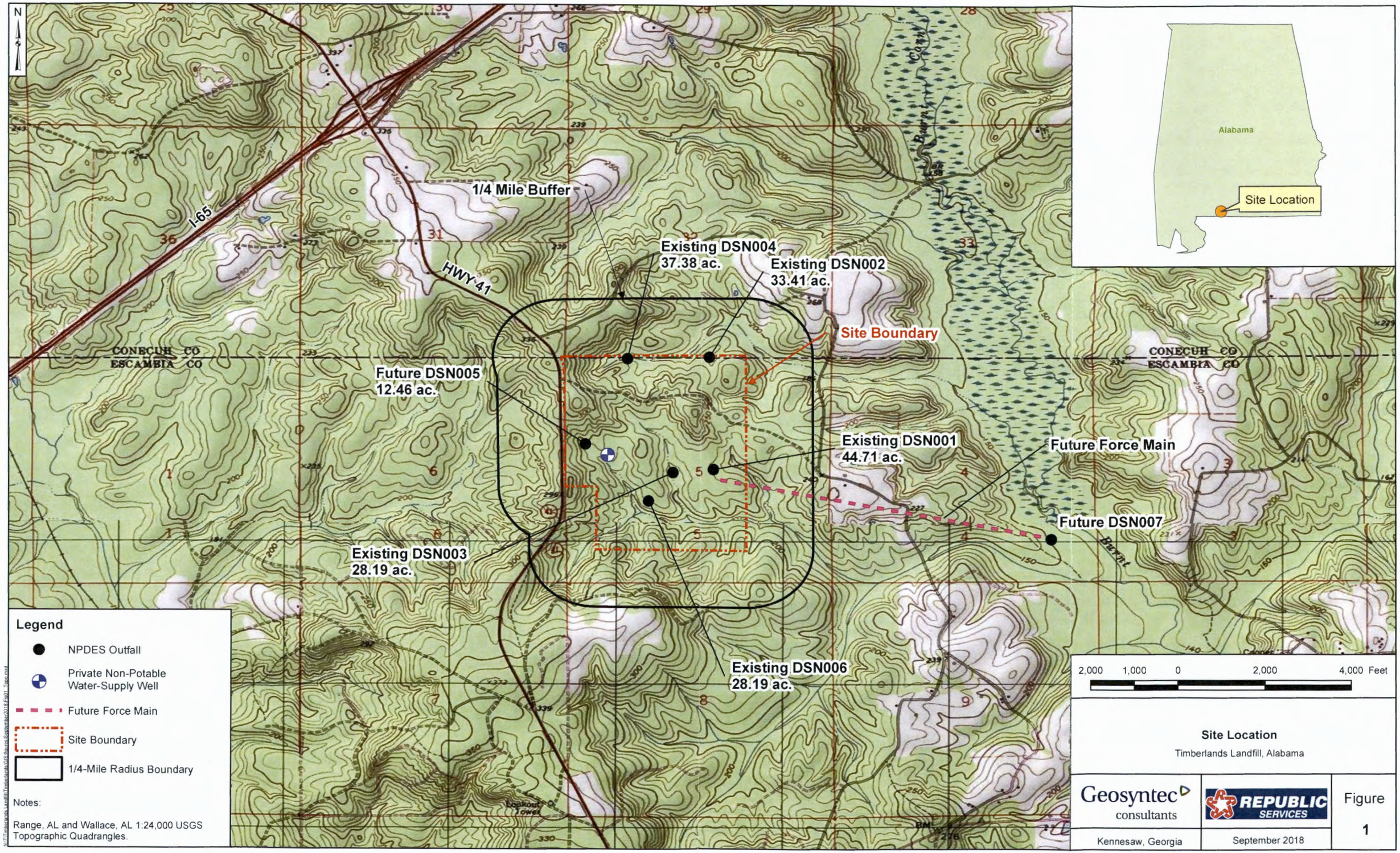
COMMENTS FOR OFFICIAL USE ONLY

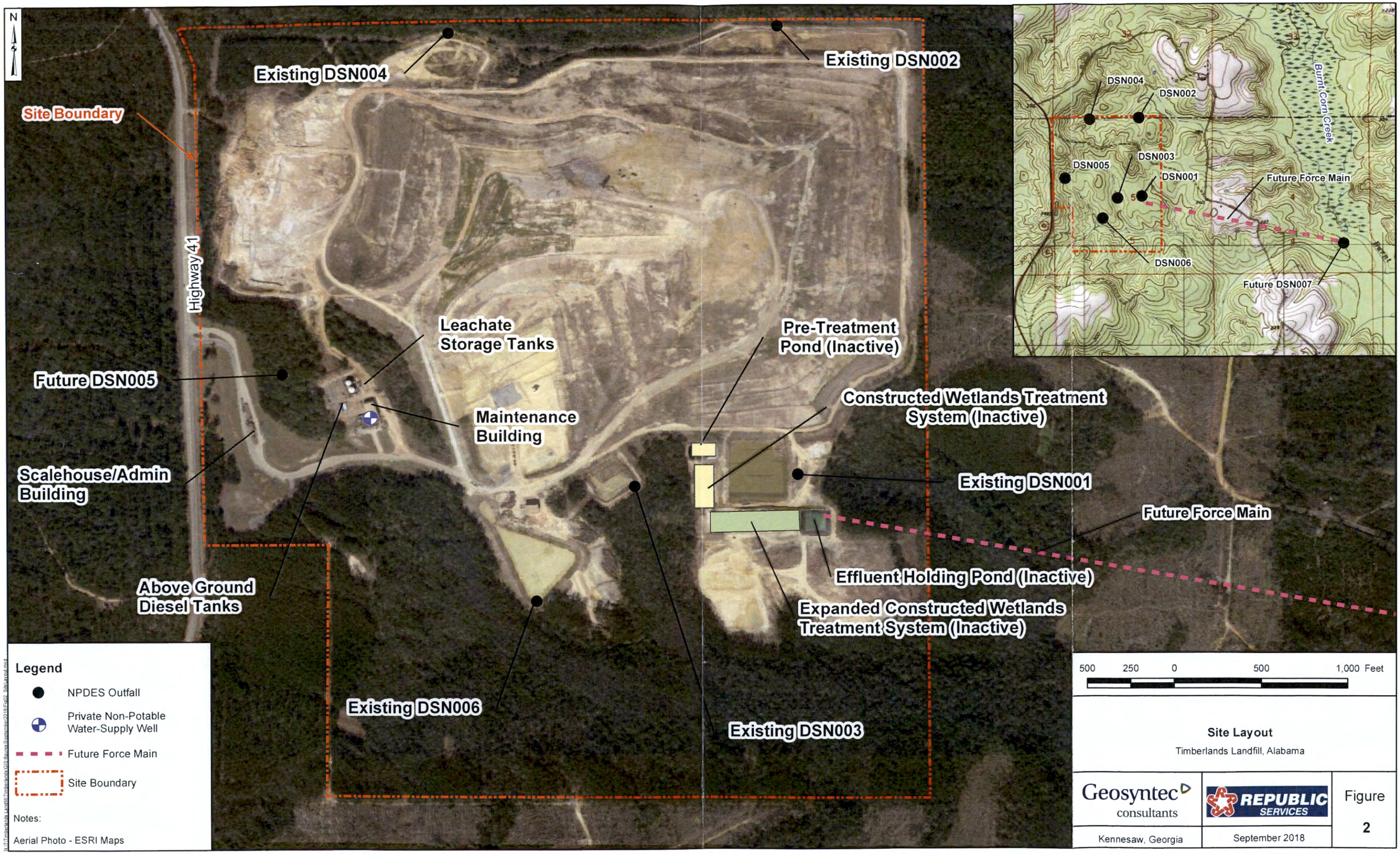
C

Timberlands NPDES Permit Renewal Application

Schematic Figure 2C-1




N
I-65
HWY 41
1/4 Mile Buffer
Existing DSN004
37.38 ac.
Existing DSN002
33.41 ac.
Site Boundary
Future DSN005
12.46 ac.
Existing DSN001
44.71 ac.
Future Force Main
Future DSN007
Existing DSN003
28.19 ac.
Existing DSN006
28.19 ac.
CONECUH CO
ESCAMBIA CO
CONECUH CO
ESCAMBIA CO
Alabama
Site Location
Legend
NPDES Outfall
Private Non-Potable Water-Supply Well
Future Force Main
Site Boundary
1/4-Mile Radius Boundary
Notes:
Range, AL and Wallace, AL 1:24,000 USGS Topographic Quadrangles.
2,000 1,000 0 2,000 4,000 Feet
Site Location
Timberlands Landfill, Alabama
Geosyntec consultants
REPUBLIC SERVICES
Figure
1
Kennesaw, Georgia
September 2018



Site Layout

Timberlands Landfill, Alabama

Geosyntec consultants — Kennesaw, Georgia

REPUBLIC SERVICES — September 2018

Figure 2

Please print or type in the unshaded areas only.

EPA I.D. NUMBER (*copy from Item 1 of Form 1*)
AL0079171

Form Approved.
OMB No. 2040-0086.
Approval expires 3-31-98.

FORM **2C** NPDES

EPA

U.S. ENVIRONMENTAL PROTECTION AGENCY
APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER
EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURE OPERATIONS
Consolidated Permits Program

I. OUTFALL LOCATION

For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

A. OUTFALL NUMBER (*list*)	B. LATITUDE			C. LONGITUDE			D. RECEIVING WATER (*name*)
	1. DEG.	2. MIN.	3. SEC.	1. DEG.	2. MIN.	3. SEC.	
007 (Future	31.00	14.00	56.94	-87.00	9.00	41.44	Burnt Corn Creek
Outfall)							

II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (*e.g., for certain mining activities*), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.

B. For each outfall, provide a description of: (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) The average flow contributed by each operation; and (3) The treatment received by the wastewater. Continue on additional sheets if necessary.

1. OUTFALL NO. (*list*)	2. OPERATION(S) CONTRIBUTING FLOW		3. TREATMENT		
	a. OPERATION (*list*)	b. AVERAGE FLOW (*include units*)	a. DESCRIPTION	b. LIST CODES FROM TABLE 2C-1	
Future 007	Constructed wetlands treatment	Flows vary by month, but the	Landfill leachate stored in on-site holding tanks is routed to a constructed wetlands	1-F	1-R
	system treating landfill leachate	average flow is assumed to	treatment system that includes an aerated pond and three 4-cell subsurface-flow wetlands units	1-U	3-B
	for discharge to Burnt Corn Creek	peak up to 30,000 GPD.		3-D	4-A
	via effluent holding pond.				

CONTINUED FROM THE FRONT

C. Except for storm runoff, leaks, or spills, are any of the discharges described in Items II-A or B intermittent or seasonal?

☑ YES (*complete the following table*) ☐ NO (*go to Section III*)

1. OUTFALL NUMBER (*list*)	2. OPERATION(s) CONTRIBUTING FLOW (*list*)	3. FREQUENCY		4. FLOW				
		a. DAYS PER WEEK (*specify average*)	b. MONTHS PER YEAR (*specify average*)	a. FLOW RATE (*in mgd*)		B. TOTAL VOLUME (*specify with units*)		C. DURATION (*in days*)
				1. LONG TERM AVERAGE	2. MAXIMUM DAILY	1. LONG TERM AVERAGE	2. MAXIMUM DAILY	
Future 007	Leachate generation varies seasonally and generally peaks during the winter; treated effluent is stored in effluent holding pond prior to intermittent discharge to Burnt Corn Creek.	intermit-tent	3-5 days per month for 12 months per year	0.0095	0.20			intermit tent through-out all 365 days per year

III. PRODUCTION

A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility?

☑ YES (*complete Item III-B*) ☐ NO (*go to Section IV*)

B. Are the limitations in the applicable effluent guideline expressed in terms of production (*or other measure of operation*)?

☐ YES (*complete Item III-C*) ☑ NO (*go to Section IV*)

C. If you answered "yes" to Item III-B, list the quantity which represents an actual measurement of your level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls.

1. AVERAGE DAILY PRODUCTION			2. AFFECTED OUTFALLS (*list outfall numbers*)
a. QUANTITY PER DAY	b. UNITS OF MEASURE	c. OPERATION, PRODUCT, MATERIAL, ETC. (*specify*)	

IV. IMPROVEMENTS

A. Are you now required by any Federal, State or local authority to meet any implementation schedule for the construction, upgrading or operations of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.

☐ YES (*complete the following table*) ☑ NO (*go to Item IV-B*)

1. IDENTIFICATION OF CONDITION, AGREEMENT, ETC.	2. AFFECTED OUTFALLS		3. BRIEF DESCRIPTION OF PROJECT	4. FINAL COMPLIANCE DATE	
	a. NO.	b. SOURCE OF DISCHARGE		a. REQUIRED	b. PROJECTED

B. OPTIONAL: You may attach additional sheets describing any additional water pollution control programs (*or other environmental projects which may affect your discharges*) you now have underway or which you plan. Indicate whether each program is now underway or planned, and indicate your actual or planned schedules for construction.

☐ MARK "X" IF DESCRIPTION OF ADDITIONAL CONTROL PROGRAMS IS ATTACHED

 CONTINUE ON PAGE 3

EPA I.D. NUMBER (*copy from Item 1 of Form 1*)
AL0079171

CONTINUED FROM PAGE 2

V. INTAKE AND EFFLUENT CHARACTERISTICS

A, B, & C: See instructions before proceeding – Complete one set of tables for each outfall – Annotate the outfall number in the space provided.
NOTE: Tables V-A, V-B, and V-C are included on separate sheets numbered V-1 through V-9.

D. Use the space below to list any of the pollutants listed in Table 2c-3 of the instructions, which you know or have reason to believe is discharged or may be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your possession.

1. POLLUTANT	2. SOURCE	1. POLLUTANT	2. SOURCE
Not applicable			

VI. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS

Is any pollutant listed in Item V-C a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct?

☐ YES (*list all such pollutants below*) ☑ NO (*go to Item VI-B*)

CONTINUED FROM THE FRONT

VII. BIOLOGICAL TOXICITY TESTING DATA

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 3 years?

☑ YES (*identify the test(s) and describe their purposes below*) ☐ NO (*go to Section VIII*)

Existing NPDES Permit AL0079171 stipulates quarterly sampling requirements for acute toxicity testing for Ceriodaphnia and Pimephales at Outfall 007. Since Outfall 007 is a future outfall that is not yet contructed, no data exist for that outfall. However, during a previous iteration of this permit, Outfall 001 discharged treated effluent mixed with stormwater and acute toxicity tests were conducted at that outfall. All tests conducted at Outfall 001 showed that there was no acute toxicity for the effluent.

VIII. CONTRACT ANALYSIS INFORMATION

Were any of the analyses reported in Item V performed by a contract laboratory or consulting firm?

☑ YES (*list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below*) ☐ NO (*go to Section IX*)

A. NAME	B. ADDRESS	C. TELEPHONE (*area code & no.*)	D. POLLUTANTS ANALYZED (*list*)
TestAmerica Laboratories, Inc.	3355 McLemore Drive Pensacola, FL 32501	(850) 474-1001	All analytical data presented in Form 2C; subcontracted laboratories may have been used for analytes and/or tests that are not performed in-house by TestAmerica Pensacola All data presented in this form were collected between May 2015 and February 2016 during the last permit modification effort. Since leachate has been shipped offsite and no treated effluent has been discharged since that time, no updated analytical data exist.

IX. 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 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.

A. NAME & OFFICIAL TITLE (*type or print*)	B. PHONE NO. (*area code & no.*)
Andrew Rodgers; General Manager	(251) 554-5337
C. SIGNATURE	D. DATE SIGNED
	10/24/18

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets (*use the same format*) instead of completing these pages. SEE INSTRUCTIONS.

EPA I.D. NUMBER (*copy from Item 1 of Form 1*): AL0079171

V. INTAKE AND EFFLUENT CHARACTERISTICS *(continued from page 3 of Form 2-C)*

OUTFALL NO.: 007 (Future)

PART A –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.

1. POLLUTANT	2. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	2. EFFLUENT a. MAXIMUM DAILY VALUE (2) MASS	2. EFFLUENT b. MAXIMUM 30 DAY VALUE (*if available*) (1) CONCENTRATION	2. EFFLUENT b. MAXIMUM 30 DAY VALUE (*if available*) (2) MASS	2. EFFLUENT c. LONG TERM AVRG. VALUE (*if available*) (1) CONCENTRATION	2. EFFLUENT c. LONG TERM AVRG. VALUE (*if available*) (2) MASS	2. EFFLUENT d. NO. OF ANALYSES	3. UNITS (*specify if blank*) a. CONCENTRATION	3. UNITS (*specify if blank*) b. MASS	4. INTAKE (*optional*) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	4. INTAKE (*optional*) a. LONG TERM AVERAGE VALUE (2) MASS	4. INTAKE (*optional*) b. NO. OF ANALYSES
a. Biochemical Oxygen Demand (*BOD*)	18	4.50	N/A	N/A	8.6	0.690	7	mg/L	lbs/d	N/A	N/A	N/A
b. Chemical Oxygen Demand (*COD*)	400	99.9	N/A	N/A	N/A	N/A	1	mg/L	lbs/d	N/A	N/A	N/A
c. Total Organic Carbon (*TOC*)	160	40.0	N/A	N/A	N/A	N/A	1	mg/L	lbs/d	N/A	N/A	N/A
d. Total Suspended Solids (*TSS*)	51	12.7	N/A	N/A	21.3	1.70	7	mg/L	lbs/d	N/A	N/A	N/A
e. Ammonia (*as N*)	4.5	1.00	N/A	N/A	1.00	0.080	7	mg/L	lbs/d	N/A	N/A	N/A
f. Flow	VALUE 30,000		VALUE		VALUE 9,600			GPD		VALUE N/A		N/A
g. Temperature (*winter*)	VALUE 15		VALUE		VALUE 12		est.	°C		VALUE N/A		N/A
h. Temperature (*summer*)	VALUE 30		VALUE		VALUE 25		est.	°C		VALUE N/A		N/A
i. pH	MINIMUM 7.1	MAXIMUM 9.0	MINIMUM	MAXIMUM			7	STANDARD UNITS				

PART B – Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in your discharge. Complete one table for each outfall. See the instructions for additional details and requirements.

1. POLLUTANT AND CAS NO. (*if available*)	2. MARK "X" a. BELIEVED PRESENT	2. MARK "X" b. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	3. EFFLUENT a. MAXIMUM DAILY VALUE (2) MASS	3. EFFLUENT b. MAXIMUM 30 DAY VALUE (*if available*) (1) CONCENTRATION	3. EFFLUENT b. MAXIMUM 30 DAY VALUE (*if available*) (2) MASS	3. EFFLUENT c. LONG TERM AVRG. VALUE (*if available*) (1) CONCENTRATION	3. EFFLUENT c. LONG TERM AVRG. VALUE (*if available*) (2) MASS	3. EFFLUENT d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (*optional*) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE (*optional*) a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE (*optional*) b. NO. OF ANALYSES
a. Bromide (24959-67-9)	X		5.30	1.32	N/A	N/A	N/A	N/A	1	mg/L	lbs/d			
b. Chlorine, Total Residual		X	<1.0	N/A	N/A	N/A	N/A	N/A	1	mg/L	N/A			
c. Color	X		880	N/A	N/A	N/A	N/A	N/A	1	Color	N/A			
d. Fecal Coliform		X	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A			
e. Fluoride (16984-48-8)	X		0.300	0.075	N/A	N/A	N/A	N/A	1	mg/L	lbs/d			
f. Nitrate-Nitrite (*as N*)	X		4.10	1.02	N/A	N/A	N/A	N/A	1	mg/L	lbs/d			

CONTINUE ON REVERSE

ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (*if available*)	2. MARK "X"		3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. BELIEVED PRESENT	b. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
g. Nitrogen, Total Organic (*as N*)	X		18.0	4.50	N/A	N/A	N/A	N/A	1	mg/L	lbs/d			
h. Oil and Grease		X	<1.4	N/A	N/A	N/A	N/A	N/A	1	mg/L	N/A			
i. Phosphorus (as P), Total (7723-14-0)	X		0.720	0.180	N/A	N/A	N/A	N/A	1	mg/L	lbs/d			
j. Radioactivity														
(1) Alpha, Total	X		2.00	0.227	N/A	N/A	N/A	N/A	1	pCi/L	mCi/d			
(2) Beta, Total	X		205	23.2	N/A	N/A	N/A	N/A	1	pCi/L	mCi/d			
(3) Radium, Total	X		1.10	0.125	N/A	N/A	N/A	N/A	1	pCi/L	mCi/d			
(4) Radium 226, Total	X		0.400	0.045	N/A	N/A	N/A	N/A	1	pCi/L	mCi/d			
k. Sulfate (*as* SO_4) (14808-79-8)		X	<1.4	N/A	N/A	N/A	N/A	N/A	1	mg/L	N/A			
l. Sulfide (*as S*)	X		1.8	0.450	N/A	N/A	N/A	N/A	1	mg/L	lbs/d			
m. Sulfite (*as* SO_3) (14265-45-3)		X	<5.0	N/A	N/A	N/A	N/A	N/A	1	mg/L	N/A			
n. Surfactants	X		0.29	0.072	N/A	N/A	N/A	N/A	1	mg/L	lbs/d			
o. Aluminum, Total (7429-90-5)	X		0.068	0.017	N/A	N/A	N/A	N/A	1	mg/L	lbs/d			
p. Barium, Total (7440-39-3)	X		0.071	0.018	N/A	N/A	N/A	N/A	1	mg/L	lbs/d			
q. Boron, Total (7440-42-8)	X		8.3	2.07	N/A	N/A	N/A	N/A	1	mg/L	lbs/d			
r. Cobalt, Total (7440-48-4)	X		0.014	0.003	N/A	N/A	N/A	N/A	1	mg/L	lbs/d			
s. Iron, Total (7439-89-6)	X		0.84	0.210	N/A	N/A	N/A	N/A	1	mg/L	lbs/d			
t. Magnesium, Total (7439-95-4)	X		31	7.74	N/A	N/A	N/A	N/A	1	mg/L	lbs/d			
u. Molybdenum, Total (7439-98-7)		X	<0.015	N/A	N/A	N/A	N/A	N/A	1	mg/L	N/A			
v. Manganese, Total (7439-96-5)	X		0.056	0.014	N/A	N/A	N/A	N/A	1	mg/L	lbs/d			
w. Tin, Total (7440-31-5)		X	<0.0025	N/A	N/A	N/A	N/A	N/A	1	mg/L	N/A			
x. Titanium, Total (7440-32-6)	X		0.0051	0.001	N/A	N/A	N/A	N/A	1	mg/L	lbs/d			

CONTINUE ON PAGE V-3

EPA I.D. NUMBER (*copy from Item 1 of Form 1*)	OUTFALL NUMBER
AL0079171	007 (Future)

CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (*secondary industries, nonprocess wastewater outfalls, and nonrequired GC/MS fractions*), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the rasults of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb or greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4, 6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are 7 pages to this part; please review each carefully. Complete one table (*all 7 pages*) for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
METALS, CYANIDE, AND TOTAL PHENOLS															
1M. Antimony, Total (7440-36-0)		X		0.020	0.005	N/A	N/A	N/A	N/A	1	mg/L	lbs/d			
2M. Arsenic, Total (7440-38-2)		X		0.045	0.011	N/A	N/A	N/A	N/A	1	mg/L	lbs/d			
3M. Beryllium, Total (7440-41-7)			X	<0.000060	N/A	N/A	N/A	N/A	N/A	1	mg/L	N/A			
4M. Cadmium, Total (7440-43-9)			X	<0.000085	N/A	N/A	N/A	N/A	N/A	1	mg/L	N/A			
5M. Chromium, Total (7440-47-3)		X		0.032	0.008	N/A	N/A	N/A	N/A	1	mg/L	lbs/d			
6M. Copper, Total (7440-50-8)		X		0.0032	0.001	N/A	N/A	N/A	N/A	1	mg/L	lbs/d			
7M. Lead, Total (7439-92-1)			X	<0.0013	N/A	N/A	N/A	N/A	N/A	1	mg/L	N/A			
8M. Mercury, Total (7439-97-6)			X	<0.000070	N/A	N/A	N/A	N/A	N/A	1	mg/L	N/A			
9M. Nickel, Total (7440-02-0)		X		0.084	0.021	N/A	N/A	N/A	N/A	1	mg/L	lbs/d			
10M. Selenium, Total (7782-49-2)			X	<0.0013	N/A	N/A	N/A	N/A	N/A	1	mg/L	N/A			
11M. Silver, Total (7440-22-4)			X	<0.00011	N/A	N/A	N/A	N/A	N/A	1	mg/L	N/A			
12M. Thallium, Total (7440-28-0)			X	<0.000026	N/A	N/A	N/A	N/A	N/A	1	mg/L	N/A			
13M. Zinc, Total (7440-66-6)		X		0.066	0.016	N/A	N/A	0.020	0.002	7	mg/L	lbs/d			
14M. Cyanide, Total (57-12-5)		X		0.0082	0.002	N/A	N/A	N/A	N/A	1	mg/L	lbs/d			
15M. Phenols, Total		X		0.011	0.003	N/A	N/A	N/A	N/A	1	mg/L	lbs/d			
DIOXIN															
2,3,7,8-Tetra-chlorodibenzo-P-Dioxin (1764-01-6)			X	DESCRIBE RESULTS <0.47 pg/L											

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – VOLATILE COMPOUNDS															
1V. Accrolein (107-02-8)			X	<10	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
2V. Acrylonitrile (107-13-1)			X	<2.8	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
3V. Benzene (71-43-2)			X	<0.38	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
4V. Bis (*Chloro-methyl*) Ether (542-88-1)			X	<5.0	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
5V. Bromoform (75-25-2)			X	<0.71	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
6V. Carbon Tetrachloride (56-23-5)			X	<0.50	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
7V. Chlorobenzene (108-90-7)			X	<0.50	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
8V. Chlorodi-bromomethane (124-48-1)			X	<0.50	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
9V. Chloroethane (75-00-3)			X	<0.76	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
10V. 2-Chloro-ethylvinyl Ether (110-75-8)			X	<2.0	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
11V. Chloroform (67-66-3)			X	<0.60	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
12V. Dichloro-bromomethane (75-27-4)			X	<0.50	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
13V. Dichloro-difluoromethane (75-71-8)			X	<0.85	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
14V. 1,1-Dichloro-ethane (75-34-3)			X	<0.50	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
15V. 1,2-Dichloro-ethane (107-06-2)			X	<0.50	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
16V. 1,1-Dichloro-ethylene (75-35-4)			X	<0.50	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
17V. 1,2-Dichloro-propane (78-87-5)			X	<0.50	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
18V. 1,3-Dichloro-propylene (542-75-6)			X	<1.0	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
19V. Ethylbenzene (100-41-4)			X	<0.50	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
20V. Methyl Bromide (74-83-9)			X	<0.98	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
21V. Methyl Chloride (74-87-3)			X	<0.83	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			

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CONTINUED FROM PAGE V-4

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – VOLATILE COMPOUNDS (*continued*)															
22V. Methylene Chloride (75-09-2)			X	<3.0	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
23V. 1,1,2,2-Tetrachloroethane (79-34-5)			X	<0.50	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
24V. Tetrachloro-ethylene (127-18-4)			X	<0.58	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
25V. Toluene (108-88-3)			X	<0.70	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
26V. 1,2-Trans-Dichloroethylene (156-60-5)			X	<0.50	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
27V. 1,1,1-Trichloro-ethane (71-55-6)			X	<0.50	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
28V. 1,1,2-Trichloro-ethane (79-00-5)			X	<0.50	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
29V Trichloro-ethylene (79-01-6)			X	<0.50	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
30V. Trichloro-fluoromethane (75-69-4)			X	<0.52	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
31V. Vinyl Chloride (75-01-4)			X	<0.50	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
GC/MS FRACTION – ACID COMPOUNDS															
1A. 2-Chlorophenol (95-57-8)			X	<2.2	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
2A. 2,4-Dichloro-phenol (120-83-2)			X	<3.4	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
3A. 2,4-Dimethyl-phenol (105-67-9)			X	<3.5	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
4A. 4,6-Dinitro-O-Cresol (534-52-1)			X	<2.0	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
5A. 2,4-Dinitro-phenol (51-28-5)			X	<3.4	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
6A. 2-Nitrophenol (88-75-5)			X	<0.65	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
7A. 4-Nitrophenol (100-02-7)			X	<2.1	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
8A. P-Chloro-M-Cresol (59-50-7)			X	<3.8	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
9A. Pentachloro-phenol (87-86-5)			X	<1.8	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
10A. Phenol (108-95-2)			X	<2.6	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
11A. 2,4,6-Trichloro-phenol (88-05-2)			X	<3.5	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-9)			X	<0.46	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
2B. Acenaphtylene (208-96-8)			X	<0.56	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
3B. Anthracene (120-12-7)			X	<0.42	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
4B. Benzidine (92-87-5)			X	<20	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
5B. Benzo (*a*) Anthracene (56-55-3)			X	<0.34	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
6B. Benzo (*a*) Pyrene (50-32-8)			X	<0.43	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
7B. 3,4-Benzo-fluoranthene (205-99-2)			X	<0.38	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
8B. Benzo (*ghi*) Perylene (191-24-2)			X	<1.1	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
9B. Benzo (*k*) Fluoranthene (207-08-9)			X	<0.54	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
10B. Bis (*2-Chloro-ethoxy*) Methane (111-91-1)			X	<0.69	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
11B. Bis (*2-Chloro-ethyl*) Ether (111-44-4)			X	<0.74	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
12B. Bis (*2-Chloroisopropyl*) Ether (102-80-1)			X	<0.81	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
13B. Bis (*2-Ethyl-hexyl*) Phthalate (117-81-7)			X	<2.3	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
14B. 4-Bromophenyl Phenyl Ether (101-55-3)			X	<.032	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
15B. Butyl Benzyl Phthalate (85-68-7)			X	<0.69	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
16B. 2-Chloro-naphthalene (91-58-7)			X	<0.52	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3)			X	<2.0	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
18B. Chrysene (218-01-9)			X	<0.49	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
19B. Dibenzo (*a,h*) Anthracene (53-70-3)			X	<1.2	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
20B. 1,2-Dichloro-benzene (95-50-1)			X	<0.57	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
21B. 1,3-Di-chloro-benzene (541-73-1)			X	<0.47	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			

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CONTINUED FROM PAGE V-6

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (*continued*)															
22B. 1,4-Dichloro-benzene (106-46-7)			X	<0.52	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
23B. 3,3-Dichloro-benzidine (91-94-1)			X	<2.6	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
24B. Diethyl Phthalate (84-66-2)			X	<0.70	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
25B. Dimethyl Phthalate (131 -11-3)			X	<0.60	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
26B. Di-N-Butyl Phthalate (84-74-2)			X	<2.7	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
27B. 2,4-Dinitro-toluene (121-14-2)			X	<1.9	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
28B. 2,6-Dinitro-toluene (606-20-2)			X	<1.9	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
29B. Di-N-Octyl Phthalate (117-84-0)			X	<0.44	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
30B. 1,2-Diphenyl-hydrazine (*as Azo-benzene*) (122-66-7)			X	<1.0	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
31B. Fluoranthene (206-44-0)			X	<0.77	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
32B. Fluorene (86-73-7)			X	<0.56	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
33B. Hexachloro-benzene (118-74-1)			X	<0.25	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
34B. Hexachloro-butadiene (87-68-3)			X	<3.6	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
35B. Hexachloro-cyclopentadiene (77-47-4)			X	<2.6	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
36B Hexachloro-ethane (67-72-1)			X	<4.2	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
37B. Indeno (*1,2,3-cd*) Pyrene (193-39-5)			X	<1.0	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
38B. Isophorone (78-59-1)			X	<0.57	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
39B. Naphthalene (91-20-3)			X	<0.63	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
40B. Nitrobenzene (98-95-3)			X	<0.55	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
41B. N-Nitro-sodimethylamine (62-75-9)			X	<3.5	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
42B. N-Nitrosodi-N-Propylamine (621-64-7)			X	<3.3	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS (*continued*)															
43B. N-Nitro-sodiphenylamine (86-30-6)			X	<0.47	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
44B. Phenanthrene (85-01-8)			X	<0.41	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
45B. Pyrene (129-00-0)			X	<1.1	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
46B. 1,2,4-Tri-chlorobenzene (120-82-1)			X	<0.53	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
GC/MS FRACTION – PESTICIDES															
1P. Aldrin (309-00-2)			X	<0.0030	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
2P. α-BHC (319-84-6)			X	<0.0036	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
3P. β-BHC (319-85-7)			X	<0.0030	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
4P. γ-BHC (58-89-9)			X	<0.025	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
5P. δ-BHC (319-86-8)			X	<0.0027	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
6P. Chlordane (57-74-9)			X	<0.13	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
7P. 4,4'-DDT (50-29-3)			X	<0.0039	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
8P. 4,4'-DDE (72-55-9)			X	<0.0040	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
9P. 4,4'-DDD (72-54-8)			X	<0.0030	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
10P. Dieldrin (60-57-1)			X	<0.0059	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
11P. α-Enosulfan (115-29-7)			X	<0.0030	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
12P. β-Endosulfan (115-29-7)			X	<0.0074	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
13P. Endosulfan Sulfate (1031-07-8)			X	<0.0021	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
14P. Endrin (72-20-8)			X	<0.0030	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
15P. Endrin Aldehyde (7421-93-4)			X	<0.0028	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
16P. Heptachlor (76-44-8)			X	<0.0031	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			

CONTINUE ON PAGE V-9

EPA I.D. NUMBER (*copy from Item I of Form 1*)	OUTFALL NUMBER
AL0079171	007 (Future)

CONTINUED FROM PAGE V-8

1. POLLUTANT AND CAS NUMBER (*if available*)	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE (*optional*)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (*if available*)		c. LONG TERM AVRG. VALUE (*if available*)		d. NO. OF ANALYSES	a. CONCEN-TRATION	b. MASS	a. LONG TERM AVERAGE VALUE		b. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION – PESTICIDES (*continued*)															
17P. Heptachlor Epoxide (1024-57-3)			X	<0.0032	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
18P. PCB-1242 (53469-21-9)			X	<0.18	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
19P. PCB-1254 (11097-69-1)			X	<0.31	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
20P. PCB-1221 (11104-28-2)			X	<0.22	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
21P. PCB-1232 (11141-16-5)			X	<0.41	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
22P. PCB-1248 (12672-29-6)			X	<0.020	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
23P. PCB-1260 (11096-82-5)			X	<0.034	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
24P. PCB-1016 (12674-11-2)			X	<0.048	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			
25P. Toxaphene (8001-35-2)			X	<0.40	N/A	N/A	N/A	N/A	N/A	1	ug/L	N/A			

Please print or type in the unshaded areas only.

EPA ID Number (*copy from Item 1 of Form 1*)
AL0079171

Form Approved. OMB No. 2040-0086
Approval expires 5-31-92

FORM **2F** NPDES

U.S. Environmental Protection Agency
Washington, DC 20460

Application for Permit to Discharge Storm Water Discharges Associated with Industrial Activity

Paperwork Reduction Act Notice

Public reporting burden for this application is estimated to average 28.6 hours per application, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate, any other aspect of this collection of information, or suggestions for improving this form, including suggestions which may increase or reduce this burden to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 1200 Pennsylvania Avenue, NW, Washington, DC 20460, or Director, Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

I. Outfall Location

For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

A. Outfall Number (*list*)	B. Latitude			C. Longitude			D. Receiving Water (*name*)
001	31.00	15.00	12.68	-87.00	10.00	58.18	Unnamed Tributary to Burnt Corn Creek
002	31.00	15.00	38.29	-87.00	10.00	59.29	Unnamed Tributary to Burnt Corn Creek
003	31.00	15.00	12.01	-87.00	11.00	7.45	Unnamed Tributary to Burnt Corn Creek
004	31.00	15.00	38.00	-87.00	11.00	17.96	Unnamed Tributary to Burnt Corn Creek
005 (future)	31.00	15.00	18.43	-87.00	11.00	27.42	Unnamed Tributary to Burnt Corn Creek
006	31.00	15.00	10.07	-87.00	11.00	5.49	Unnamed Tributary to Burnt Corn Creek

II. Improvements

A. Are you now required by any Federal, State, or local authority to meet any implementation schedule for the construction, upgrading or operation of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.

1. Identification of Conditions, Agreements, Etc.	2. Affected Outfalls		3. Brief Description of Project	4. Final Compliance Date	
	number	source of discharge		a. req.	b. proj.
N/A	N/A	N/A	N/A		

B: You may attach additional sheets describing any additional water pollution (or other environmental projects which may affect your discharges) you now have under way or which you plan. Indicate whether each program is now under way or planned, and indicate your actual or planned schedules for construction.

III. Site Drainage Map *

Attach a site map showing topography (or indicating the outline of drainage areas served by the outfalls(s) covered in the application if a topographic map is unavailable) depicting the facility including: each of its intake and discharge structures; the drainage area of each storm water outfall; paved areas and buildings within the drainage area of each storm water outfall, each known past or present areas used for outdoor storage of disposal of significant materials, each existing structural control measure to reduce pollutants in storm water runoff, materials loading and access areas, areas where pesticides, herbicides, soil conditioners and fertilizers are applied; each of its hazardous waste treatment, storage or disposal units (including each area not required to have a RCRA permit which is used for accumulating hazardous waste under 40 CFR 262.34); each well where fluids from the facility are injected underground; springs, and other surface water bodies which received storm water discharges from the facility.

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 Continue on Page 2

*Two site drainage maps are provided: Drawing 2, "Existing Site Conditions", shows current conditions with approximate drainage boundaries (used for current flow calculations) and Drawing 8, "Stormwater Drainage Plan", shows the proposed built-out conditions.

Continued from the Front

IV. Narrative Description of Pollutant Sources

A. For each outfall, provide an estimate of the area (include units) of imperious surfaces (including paved areas and building roofs) drained to the outfall, and an estimate of the total surface area drained by the outfall.

Outfall Number	Area of Impervious Surface *(provide units)*	Total Area Drained *(provide units)*	Outfall Number	Area of Impervious Surface *(provide units)*	Total Area Drained *(provide units)*
001	0 acres	C:28.5, F: 44.7	006	0 acres	C:28.8, F: 28.2
002	0 acres	C:27.7, F: 33.4			
003	0 acres	C:25.9, F: 8.11		C = Current drainage area	
004	0 acres	C:32.3, F: 37.4		F = Future (Built-Out) drainage area	
005	0 acres	C:0.0, F: 12.5		Units = acres	

B. Provide a narrative description of significant materials that are currently or in the past three years have been treated, stored or disposed in a manner to allow exposure to storm water; method of treatment, storage, or disposal; past and present materials management practices employed to minimize contact by these materials with storm water runoff; materials loading and access areas, and the location, manner, and frequency in which pesticides, herbicides, soil conditioners, and fertilizers are applied.

Above-ground storage tanks for diesel fuel within secondary containment near maintenance building (see attached drawings) - SPCC Plan is located and available onsite.

Above-ground storage tanks for untreated leachate within secondary containment near maintenance building (see attached drawings)- SPCC Plan is located and available onsite.

Landfilled waste in the active working phase exposed to rain generates leachate, which gets collected in the onsite storage tanks. The leachate is currently trucked offsite for treatment and disposal. Surface water is diverted away from waste to minimize leachate generation, and capped landfill areas drain towards outfalls DSN001, DSN002, DSN003, DSN004, and DSN006.

C. For each outfall, provide the location and a description of existing structural and nonstructural control measures to reduce pollutants in storm water runoff; and a description of the treatment the storm water receives, including the schedule and type of maintenance for control and treatment measures and the ultimate disposal of any solid or fluid wastes other than by discharge.

Outfall Number	Treatment	List Codes from Table 2F-1
001	Sedimentation in storm water pond#1-occassional sediment dredging, as needed, and onsite disposal.	1-F,1-U, 3-G, 4-A
002	Sedimentation in storm water pond#2-occassional sediment dredging, as needed, and onsite disposal.	1-F,1-U, 3-G, 4-A
003	Sedimentation in storm water pond#3-occassional sediment dredging, as needed, and onsite disposal.	1-F,1-U, 3-G, 4-A
004	Sedimentation in storm water Pond#4-occassional sediment dredging, as needed, and onsite disposal.	1-F,1-U, 3-G, 4-A
006	Sedimentation in storm water Pond#6-occassional sediment dredging, as needed, and onsite disposal. Maintenance areas are covered and fuel and leachate storage areas are located within secondary containment and managed according to the existing SPCC Plan.	1-F,1-U, 3-G, 4-A

V. Nonstormwater Discharges

A. I certify under penalty of law hat the outfall(s) covered by this application have been tested or evaluated for the presence of nonstormwater discharges, and that all nonstormwater discharged from these outfall(s) are identified in either an accompanying Form 2C or From 2E application for the outfall.

Name and Official Title *(type or print)*	Signature	Date Signed
Andrew Rodgers, General Manager		10/24/18

B. Provide a description of the method used, the date of any testing, and the onsite drainage points that were directly observed during a test.

Storm water discharges from outfalls DSN001, DSN002, DSN003, DSN004, and DSN006 are monitored on a quarterly basis in accordance with the existing NPDES Permit AL0079171. These outfalls flow intermittently after large rain events.

VI. Significant Leaks or Spills

Provide existing information regarding the history of significant leaks or spills of toxic or hazardous pollutants at the facility in the last three years, including the approximate date and location of the spill or leak, and the type and amount of material released.

There have been no known significant leaks or spills of toxic or hazardous pollutants at this facility within the last 3 years.

 Continue on Page 3

Continued from Page 2

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VII. Discharge Information

A, B, C, & D: See instructions before proceeding. Complete one set of tables for each outfall. Annotate the outfall number in the space provided. Table VII-A, VII-B, VII-C are included on separate sheets numbers VII-1 and VII-2.

E. Potential discharges not covered by analysis – is any toxic pollutant listed in table 2F-2, 2F-3, or 2F-4, a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct?

☐ Yes (*list all such pollutants below*) ☑ No (*go to Section IX*)

VIII. Biological Toxicity Testing Data

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 3 years?

☑ Yes (*list all such pollutants below*) ☐ No (*go to Section IX*)

Until approximately April 2016, Outfall DSN001 discharged treated effluent commingled with storm water. During that time, the facility was required to test for acute toxicity for Ceriodaphnia and Pimephales at this outfall on a quarterly basis. None of the tests conducted indicated any acute toxicity of the effluent. The permit has since been modified and Outfall DSN001 has been converted to a storm water-only outfall, which does not require toxicity testing anymore. All other outfalls (i.e., DSN002, DSN003, DSN004, and DSN006) have always been storm water-only outfalls and have no biological toxicity testing requirements.

IX. Contract Analysis Information

Were any of the analyses reported in Item VII performed by a contract laboratory or consulting firm?

☑ Yes (*list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below*) ☐ No (*go to Section X*)

A. Name	B. Address	C. Area Code & Phone No.	D. Pollutants Analyzed
Test America	3355 McLemore Drive, Pensacola, FL 32514	(850) 474-1001	As listed on the following pages/tables for each outfall.

X. 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 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.

A. Name & Official Title (*Type Or Print*)	B. Area Code and Phone No.
Andrew Rodgers, General Manager	(251) 554-5337
C. Signature	D. Date Signed
	10/24/18

EPA ID Number (*copy from Item 1 of Form 1*)
AL0079171

Form Approved. OMB No. 2040-0086
Approval expires 5-31-92

VII. Discharge information *(Continued from page 3 of Form 2F)* Outfall 001

Part A – 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.

Pollutant and CAS Number *(if available)*	Maximum Values *(include units)*		Average Values *(include units)*		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 20 Minutes *	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes *	Flow-Weighted Composite		
Oil and Grease	<4.2 mg/L	N/A	<2.8 mg/L	N/A	6.00	Storm water runoff
Biological Oxygen Demand (BOD5)	14 mg/L	N/A	5.8 mg/L	N/A	6.00	Storm water runoff
Chemical Oxygen Demand (COD)	38 mg/L	N/A	26.2 mg/L	N/A	6.00	Storm water runoff
Total Suspended Solids (TSS)	1,500 mg/L	N/A	623 mg/L	N/A	6.00	Storm water runoff
Total Nitrogen	0.39J mg/L	N/A	0.39J mg/L	N/A	1.00	Storm water runoff
Total Phosphorus	<0.032 mg/L	N/A	<0.032 mg/L	N/A	1.00	Storm water runoff
pH	Minimum 5.30	Maximum 8.00	Minimum	Maximum	6.00	Storm water runoff

Part B – List each pollutant that is limited in an effluent guideline which 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 Values *(include units)*		Average Values *(include units)*		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite		
Total Cadmium	<0.0025 mg/L	N/A	<0.0007 mg/	N/A	6.00	Storm water runoff
Total Chromium	0.057 mg/L	N/A	0.032 mg/L	N/A	6.00	Storm water runoff
Total Copper	0.035 mg/L	N/A	0.021 mg/L	N/A	6.00	Storm water runoff
**SS (mg/L/hr)	<0.50	N/A	<0.50	N/A	6.00	Storm water runoff

 Continue on Reverse

* Maximum and average values were calculated from 2017 and 2018 quarterly analytical results (i.e. since the last permit modification in 2016).

**SS = Settleable Solids (mg/L/hr)

Continued from the Front

Outfall 001

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

Pollutant and CAS Number *(if available)*	Maximum Values *(include units)*		Average Values *(include units)*		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite		
N/A	N/A	N/A	N/A	N/A		N/A

Part D – Provide data for the storm event(s) which resulted in the maximum values for the flow weighted composite sample.

1. Date of Storm Event	2. Duration of Storm Event *(in minutes)*	3. Total rainfall during storm event *(in inches)*	4. Number of hours between beginning of storm measured and end of previous measurable rain event	5. Maximum flow rate during rain event *(gallons/minute or specify units)*	6. Total flow from rain event *(gallons or specify units)*
N/A	N/A	N/A	N/A	N/A	N/A

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

According to Part IV.B of NPDES Permit AL0079171, the volume of storm water discharged can be estimated based on a modification of the Rational Method using total depth of rainfall, the size of the drainage area serving a storm water outfall, and an estimate of the runoff coefficient of the drainage area.

The Rational Method was developed to estimate peak flow rates based on the intensity of the rain event, the drainage area, and the runoff coefficient using the following equation: Qp = C*i*A; where Qp is peak discharge in cfs, C is the runoff coefficient (assumed at 0.35 based on grassed areas with clay soils and steep slopes), i is the average rainfall intensity (in/hr), and A is the drainage area contributing to each outfall. The approximate drainage areas depicted on Drawing 2 and summarized on this form were delineated based on a topographic survey for the Site.

EPA ID Number (*copy from Item 1 of Form 1*)
AL0079171

Form Approved. OMB No. 2040-0086
Approval expires 5-31-92

VII. Discharge information *(Continued from page 3 of Form 2F)* Outfall 002

Part A – 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.

Pollutant and CAS Number *(if available)*	Maximum Values *(include units)*		Average Values *(include units)*		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 20 Minutes *	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes *	Flow-Weighted Composite		
Oil and Grease	<4.2 mg/L	N/A	<2.8 mg/L	N/A	6.00	Storm water runoff
Biological Oxygen Demand (BOD5)	13 mg/L	N/A	3.95 mg/L	N/A	6.00	Storm water runoff
Chemical Oxygen Demand (COD)	48 mg/L	N/A	31.9 mg/L	N/A	6.00	Storm water runoff
Total Suspended Solids (TSS)	3,000 mg/L	N/A	1,212 mg/L	N/A	6.00	Storm water runoff
Total Nitrogen	<0.26 mg/L	N/A	<0.26 mg/L	N/A	1.00	Storm water runoff
Total Phosphorus	0.092J mg/L	N/A	0.092J mg/L	N/A	1.00	Storm water runoff
pH	Minimum 5.20	Maximum 8.10	Minimum 5.20	Maximum 8.10	6.00	Storm water runoff

Part B – List each pollutant that is limited in an effluent guideline which 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 Values *(include units)*		Average Values *(include units)*		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite		
Total Cadmium	<0.0025 mg/L	N/A	<0.0011mg/L	N/A	6.00	Storm water runoff
Total Chromium	0.094 mg/L	N/A	0.042 mg/L	N/A	6.00	Storm water runoff
Total Copper	0.068 mg/L	N/A	0.029 mg/L	N/A	6.00	Storm water runoff
**SS (mg/L/hr)	<0.50	N/A	<0.50	N/A	6.00	Storm water runoff

 Continue on Reverse

* Maximum and average values were calculated from 2017 and 2018 quarterly analytical results (i.e. since the last permit modification in 2016).
**SS = Settleable Solids (mg/L/hr)

Continued from the Front

Outfall 002

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

Pollutant and CAS Number *(if available)*	Maximum Values *(include units)*		Average Values *(include units)*		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite		
N/A	N/A	N/A	N/A	N/A	0.00	N/A

Part D – Provide data for the storm event(s) which resulted in the maximum values for the flow weighted composite sample.

1. Date of Storm Event	2. Duration of Storm Event *(in minutes)*	3. Total rainfall during storm event *(in inches)*	4. Number of hours between beginning of storm measured and end of previous measurable rain event	5. Maximum flow rate during rain event *(gallons/minute or specify units)*	6. Total flow from rain event *(gallons or specify units)*
N/A	N/A	N/A	N/A	N/A	N/A

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

According to Part IV.B of NPDES Permit AL0079171, the volume of storm water discharged can be estimated based on a modification of the Rational Method using total depth of rainfall, the size of the drainage area serving a storm water outfall, and an estimate of the runoff coefficient of the drainage area.

The Rational Method was developed to estimate peak flow rates based on the intensity of the rain event, the drainage area, and the runoff coefficient using the following equation: Qp = C*i*A; where Qp is peak discharge in cfs, C is the runoff coefficient (assumed at 0.35 based on grassed areas with clay soils and steep slopes), i is the average rainfall intensity (in/hr), and A is the drainage area contributing to each outfall. The approximate drainage areas depicted on Drawing 2 and summarized on this form were delineated based on a topographic survey for the Site.

EPA ID Number (*copy from Item 1 of Form 1*)
AL0079171

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VII. Discharge information *(Continued from page 3 of Form 2F)* Outfall 003

Part A – 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.

Pollutant and CAS Number *(if available)*	Maximum Values *(include units)*		Average Values *(include units)*		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 20 Minutes *	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes *	Flow-Weighted Composite		
Oil and Grease	<4.2 mg/L	N/A	<2.8 mg/L	N/A	6.00	Storm water runoff
Biological Oxygen Demand (BOD5)	5.9 mg/L	N/A	3.92 mg/L	N/A	6.00	Storm water runoff
Chemical Oxygen Demand (COD)	35 mg/L	N/A	27.7 mg/L	N/A	6.00	Storm water runoff
Total Suspended Solids (TSS)	1,700 mg/L	N/A	802 mg/L	N/A	6.00	Storm water runoff
Total Nitrogen	0.37J mg/L	N/A	0.37J mg/L	N/A	1.00	Storm water runoff
Total Phosphorus	<0.032 mg/L	N/A	<0.032 mg/L	N/A	1.00	Storm water runoff
pH	Minimum 5.10	Maximum 8.00	Minimum 5.10	Maximum 8.00	6.00	Storm water runoff

Part B – List each pollutant that is limited in an effluent guideline which 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 Values *(include units)*		Average Values *(include units)*		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite		
Total Cadmium	<0.0025 mg/L	N/A	<0.0007mg/L	N/A	6.00	Storm water runoff
Total Chromium	0.052 mg/L	N/A	0.033 mg/L	N/A	6.00	Storm water runoff
Total Copper	0.037 mg/L	N/A	0.022 mg/L	N/A	6.00	Storm water runoff
**SS (mg/L/hr)	0.50	N/A	<0.50	N/A	6.00	Storm water runoff

 Continue on Reverse

* Maximum and average values were calculated from 2017 and 2018 quarterly analytical results (i.e. since the last permit modification in 2016).
**SS = Settleable Solids (mg/L/hr)

Continued from the Front

Outfall 003

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

Pollutant and CAS Number *(if available)*	Maximum Values *(include units)*		Average Values *(include units)*		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite		
N/A	N/A	N/A	N/A	N/A	0.00	N/A

Part D – Provide data for the storm event(s) which resulted in the maximum values for the flow weighted composite sample.

1. Date of Storm Event	2. Duration of Storm Event *(in minutes)*	3. Total rainfall during storm event *(in inches)*	4. Number of hours between beginning of storm measured and end of previous measurable rain event	5. Maximum flow rate during rain event *(gallons/minute or specify units)*	6. Total flow from rain event *(gallons or specify units)*
N/A	N/A	N/A	N/A	N/A	N/A

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

According to Part IV.B of NPDES Permit AL0079171, the volume of storm water discharged can be estimated based on a modification of the Rational Method using total depth of rainfall, the size of the drainage area serving a storm water outfall, and an estimate of the runoff coefficient of the drainage area.

The Rational Method was developed to estimate peak flow rates based on the intensity of the rain event, the drainage area, and the runoff coefficient using the following equation: Qp = C*i*A; where Qp is peak discharge in cfs, C is the runoff coefficient (assumed at 0.35 based on grassed areas with clay soils and steep slopes), i is the average rainfall intensity (in/hr), and A is the drainage area contributing to each outfall. The approximate drainage areas depicted on Drawing 2 and summarized on this form were delineated based on a topographic survey for the Site.

EPA ID Number (*copy from Item 1 of Form 1*)
AL0079171

Form Approved. OMB No. 2040-0086
Approval expires 5-31-92

VII. Discharge information *(Continued from page 3 of Form 2F)* Outfall 004

Part A – 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.

Pollutant and CAS Number *(if available)*	Maximum Values *(include units)*		Average Values *(include units)*		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 20 Minutes *	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes *	Flow-Weighted Composite		
Oil and Grease	<4.3 mg/L	N/A	<3.2 mg/L	N/A	6.00	Storm water runoff
Biological Oxygen Demand (BOD5)	26 mg/L	N/A	8.95 mg/L	N/A	6.00	Storm water runoff
Chemical Oxygen Demand (COD)	80 mg/L	N/A	39.5 mg/L	N/A	6.00	Storm water runoff
Total Suspended Solids (TSS)	2,600 mg/L	N/A	1,575 mg/L	N/A	6.00	Storm water runoff
Total Nitrogen	1.1 mg/L	N/A	1.1 mg/L	N/A	1.00	Storm water runoff
Total Phosphorus	0.11 mg/L	N/A	0.11 mg/L	N/A	1.00	Storm water runoff
pH	Minimum 5.30	Maximum 7.90	Minimum 5.30	Maximum 7.90	6.00	Storm water runoff

Part B – List each pollutant that is limited in an effluent guideline which 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 Values *(include units)*		Average Values *(include units)*		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite		
Total Cadmium	<0.0025 mg/L	N/A	<0.0011mg/L	N/A	6.00	Storm water runoff
Total Chromium	0.074 mg/L	N/A	0.040 mg/L	N/A	6.00	Storm water runoff
Total Copper	0.040 mg/L	N/A	0.027 mg/L	N/A	6.00	Storm water runoff
**SS (mg/L/hr)	<0.50	N/A	<0.50	N/A	6.00	Storm water runoff

 Continue on Reverse

* Maximum and average values were calculated from 2017 and 2018 quarterly analytical results (i.e. since the last permit modification in 2016).
**SS = Settleable Solids (mg/L/hr)

Continued from the Front

Outfall 004

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

Pollutant and CAS Number *(if available)*	Maximum Values *(include units)*		Average Values *(include units)*		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite		
N/A	N/A	N/A	N/A	N/A	0.00	N/A

Part D – Provide data for the storm event(s) which resulted in the maximum values for the flow weighted composite sample.

1. Date of Storm Event	2. Duration of Storm Event *(in minutes)*	3. Total rainfall during storm event *(in inches)*	4. Number of hours between beginning of storm measured and end of previous measurable rain event	5. Maximum flow rate during rain event *(gallons/minute or specify units)*	6. Total flow from rain event *(gallons or specify units)*
N/A	N/A	N/A	N/A	N/A	N/A

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

According to Part IV.B of NPDES Permit AL0079171, the volume of storm water discharged can be estimated based on a modification of the Rational Method using total depth of rainfall, the size of the drainage area serving a storm water outfall, and an estimate of the runoff coefficient of the drainage area.

The Rational Method was developed to estimate peak flow rates based on the intensity of the rain event, the drainage area, and the runoff coefficient using the following equation: Qp = C*i*A; where Qp is peak discharge in cfs, C is the runoff coefficient (assumed at 0.35 based on grassed areas with clay soils and steep slopes), i is the average rainfall intensity (in/hr), and A is the drainage area contributing to each outfall. The approximate drainage areas depicted on Drawing 2 and summarized on this form were delineated based on a topographic survey for the Site.

EPA ID Number (*copy from Item 1 of Form 1*)
AL0079171

Form Approved. OMB No. 2040-0086
Approval expires 5-31-92

VII. Discharge information *(Continued from page 3 of Form 2F)* Outfall 006

Part A – 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.

Pollutant and CAS Number *(if available)*	Maximum Values *(include units)*		Average Values *(include units)*		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 20 Minutes *	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes *	Flow-Weighted Composite		
Oil and Grease	<4.1 mg/L	N/A	<2.3 mg/L	N/A	6.00	Storm water runoff
Biological Oxygen Demand (BOD5)	56 mg/L	N/A	15 mg/L	N/A	6.00	Storm water runoff
Chemical Oxygen Demand (COD)	100 mg/L	N/A	52.5 mg/L	N/A	6.00	Storm water runoff
Total Suspended Solids (TSS)	2,100 mg/L	N/A	1,297 mg/L	N/A	6.00	Storm water runoff
Total Nitrogen	<0.26 mg/L	N/A	<0.26 mg/L	N/A	1.00	Storm water runoff
Total Phosphorus	<0.032 mg/L	N/A	<0.032 mg/L	N/A	1.00	Storm water runoff
pH	Minimum 5.00	Maximum 8.40	Minimum 5.00	Maximum 8.40	6.00	Storm water runoff

Part B – List each pollutant that is limited in an effluent guideline which 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 Values *(include units)*		Average Values *(include units)*		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite		
Total Cadmium	<0.0025 mg/L	N/A	<0.0011mg/L	N/A	6.00	Storm water runoff
Total Chromium	0.069 mg/L	N/A	0.035 mg/L	N/A	6.00	Storm water runoff
Total Copper	0.048 mg/L	N/A	0.024 mg/L	N/A	6.00	Storm water runoff
**SS (mg/L/hr)	<0.50	N/A	<0.50	N/A	6.00	Storm water runoff

* Maximum and average values were calculated from 2017 and 2018 quarterly analytical results (i.e. since the last permit modification in 2016).
**SS = Settleable Solids (mg/L/hr)

Continued from the Front

Outfall 006

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

Pollutant and CAS Number *(if available)*	Maximum Values *(include units)*		Average Values *(include units)*		Number of Storm Events Sampled	Sources of Pollutants
	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite		
N/A	N/A	N/A	N/A	N/A	0.00	N/A

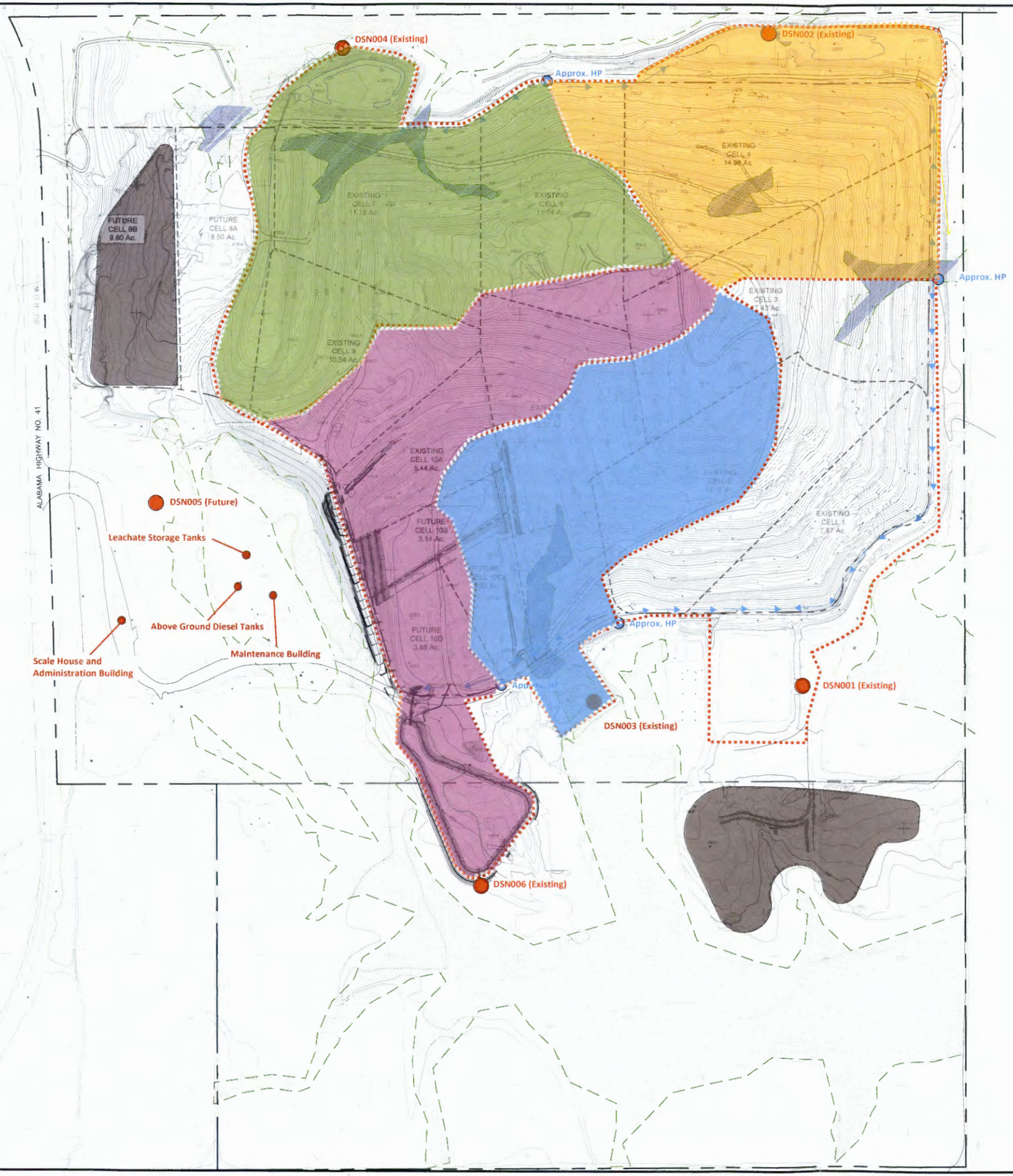
Part D – Provide data for the storm event(s) which resulted in the maximum values for the flow weighted composite sample.

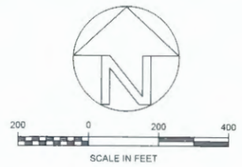
1. Date of Storm Event	2. Duration of Storm Event *(in minutes)*	3. Total rainfall during storm event *(in inches)*	4. Number of hours between beginning of storm measured and end of previous measurable rain event	5. Maximum flow rate during rain event *(gallons/minute or specify units)*	6. Total flow from rain event *(gallons or specify units)*
N/A	N/A	N/A	N/A	N/A	N/A

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

According to Part IV.B of NPDES Permit AL0079171, the volume of storm water discharged can be estimated based on a modification of the Rational Method using total depth of rainfall, the size of the drainage area serving a storm water outfall, and an estimate of the runoff coefficient of the drainage area.

The Rational Method was developed to estimate peak flow rates based on the intensity of the rain event, the drainage area, and the runoff coefficient using the following equation: Qp = C*i*A; where Qp is peak discharge in cfs, C is the runoff coefficient (assumed at 0.35 based on grassed areas with clay soils and steep slopes), i is the average rainfall intensity (in/hr), and A is the drainage area contributing to each outfall. The approximate drainage areas depicted on Drawing 2 and summarized on this form were delineated based on a topographic survey for the Site.





NOTES:

1. WETLAND DELINEATION WITHIN THE NORTH (LANDFILL) PARCEL IS FROM THE PREVIOUS PERMIT DRAWINGS, DATED JUNE 20, 2003. WETLAND DELINEATION WITHIN THE SOUTH PARCEL WAS PERFORMED BY GEOSYNTEC CONSULTANTS ON JANUARY 23, 2007.
2. EXISTING TOPOGRAPHY IS FROM AN AERIAL SURVEY BY BASE MAPPING, DATED FEBRUARY 24, 2009.
3. ORIGINAL BOUNDARY SURVEY WAS PERFORMED BY McCRORY AND WILLIAMS, INC., AND WAS VERIFIED BY BARGE, WAGGONER, SUMNER, AND CANNON, INC. IN SEPTEMBER 1995.
4. THE COORDINATE SYSTEM SHOWN IN THESE PLANS IS BASED ON ALABAMA STATE PLANE COORDINATE SYSTEM. ELEVATIONS ARE SHOWN IN FEET ABOVE MEAN SEA LEVEL.
5. THESE PLANS ARE BASED ON PERMIT DRAWINGS BY JORDAN, JONES, & GOULDING DATED JUNE 2003. CELL 10A GRADES ARE BASED ON A MODIFICATION SUBMITTED BY AQUATERRA ENGINEERING, LLC, DATED MAY 2009.

LEGEND

- PROPERTY LINE
- LIMIT OF WASTE
- CELL LIMITS
- EXISTING ACCESS ROAD
- EXISTING SEDIMENT POND
- UNDISTURBED WETLANDS
- IMPACTED WETLANDS
- CELL 10B CONSTRUCTION AREA

REV (R) SUB (S)	DATE	BY	DESCRIPTION
(S) A	01/10/14	JEA	SUBMIT FOR CLIENT REVIEW
(S) B	04/16/14	CRW	SUBMIT FOR CLIENT REVIEW
(S) C	05/16/14	CRW	ISSUED FOR BID
(R) 0	07/10/14	CRW	ISSUED FOR BID
(R) 1	07/30/14	CRW	REVISED POND AND ROAD GRADING
(R) 2	08/08/14	CRW	REALIGNED FORCEMAIN

Terracon
Consulting Engineers and Scientists
4040 ROYAL DRIVE, SUITE 100 KENNESAW, GA 30144
PH. (770) 924-9799 FAX. (770) 924-7866

REPUBLIC SERVICES, INC.™
22800 HIGHWAY 41 BREWTON, ALABAMA 36426

EXISTING SITE CONDITIONS

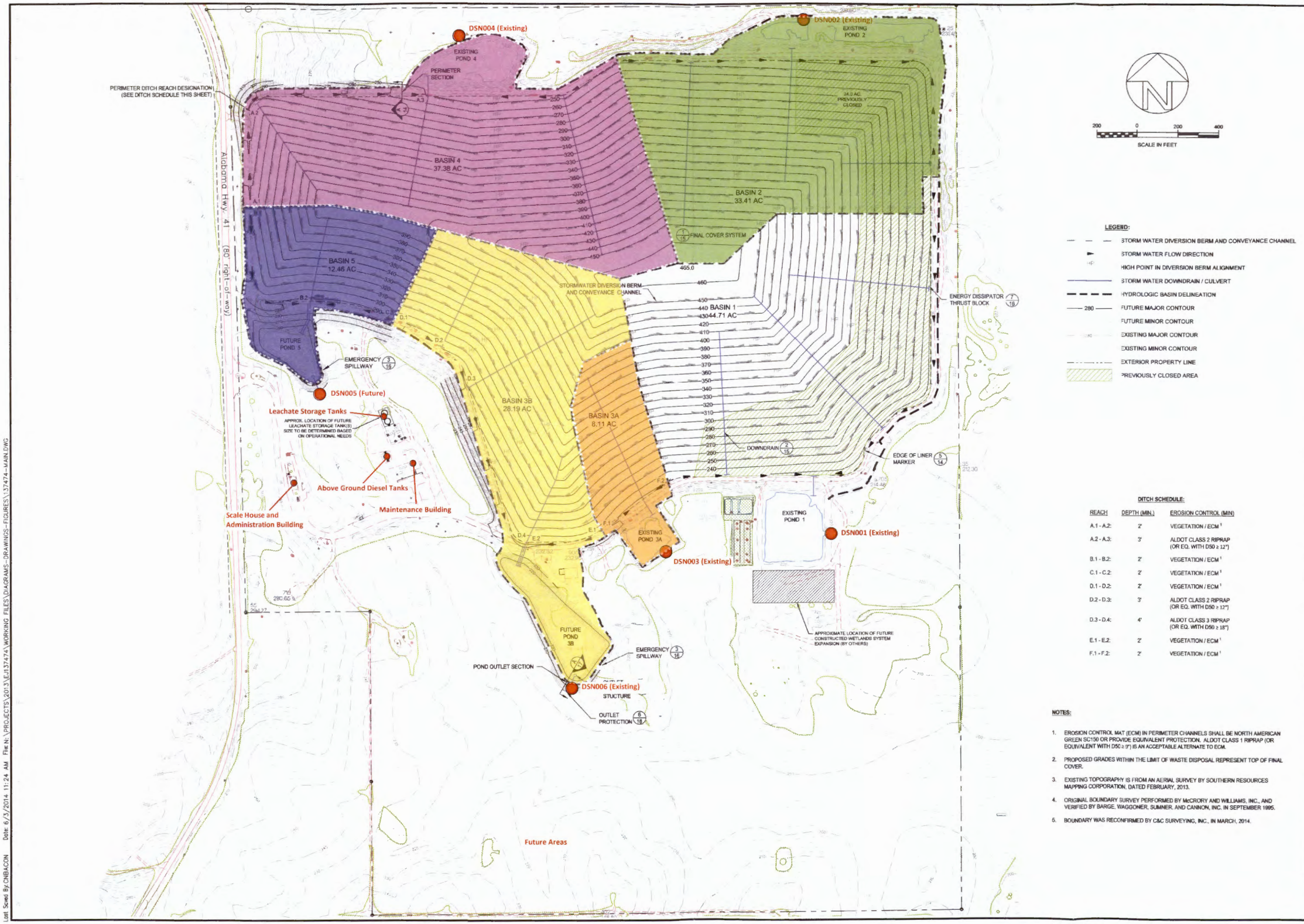
CONTRACT DRAWINGS FOR CELL 10B
ADEM SOILD WASTE PERMIT #27-08
TIMBERLANDS SANITARY LANDFILL
ESCAMBIA COUNTY, ALABAMA

DESIGNED BY:	JEA
DRAWN BY:	JEA
APPVD. BY:	CRW
JOB NO.	EJ137472

DRAWING

2

Last Saved By: ROB WITCHER Date: 9/2/2014 11:42 AM File Path: C:\USERS\ROB.WITCHER\DROPBOX (PROMUS ENGINEERING)\PROJECTS-ACTIVE\140006-TIMBERLANDS-CELL-10B\DRAWINGS\EJ137472-MAIN.DWG



LEGEND:

- STORM WATER DIVERSION BERM AND CONVEYANCE CHANNEL
- STORM WATER FLOW DIRECTION
- HIGH POINT IN DIVERSION BERM ALIGNMENT
- STORM WATER DOWNDRAIN / CULVERT
- HYDROLOGIC BASIN DELINEATION
- 280 — FUTURE MAJOR CONTOUR
- FUTURE MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXTERIOR PROPERTY LINE
- PREVIOUSLY CLOSED AREA

DITCH SCHEDULE:

REACH	DEPTH (MIN.)	EROSION CONTROL (MIN)
A.1 - A.2:	2'	VEGETATION / ECM [1]
A.2 - A.3:	3'	ALDOT CLASS 2 RIPRAP (OR EQ. WITH D50 ≥ 12")
B.1 - B.2:	2'	VEGETATION / ECM [1]
C.1 - C.2:	2'	VEGETATION / ECM [1]
D.1 - D.2:	2'	VEGETATION / ECM [1]
D.2 - D.3:	3'	ALDOT CLASS 2 RIPRAP (OR EQ. WITH D50 ≥ 12")
D.3 - D.4:	4'	ALDOT CLASS 3 RIPRAP (OR EQ. WITH D50 ≥ 18")
E.1 - E.2:	2'	VEGETATION / ECM [1]
F.1 - F.2:	2'	VEGETATION / ECM [1]

NOTES:

1. EROSION CONTROL MAT (ECM) IN PERIMETER CHANNELS SHALL BE NORTH AMERICAN GREEN SC150 OR PROVIDE EQUIVALENT PROTECTION. ALDOT CLASS 1 RIPRAP (OR EQUIVALENT WITH D50 ≥ 9") IS AN ACCEPTABLE ALTERNATE TO ECM.
2. PROPOSED GRADES WITHIN THE LIMIT OF WASTE DISPOSAL REPRESENT TOP OF FINAL COVER.
3. EXISTING TOPOGRAPHY IS FROM AN AERIAL SURVEY BY SOUTHERN RESOURCES MAPPING CORPORATION, DATED FEBRUARY, 2013.
4. ORIGINAL BOUNDARY SURVEY PERFORMED BY McCRORY AND WILLIAMS, INC., AND VERIFIED BY BARGE, WAGGONER, SUMNER, AND CANNON, INC. IN SEPTEMBER 1995.
5. BOUNDARY WAS RECONFIRMED BY C&C SURVEYING, INC., IN MARCH, 2014.

REV (R) SUB (S)	DATE	BY	DESCRIPTION
0	3/20/09	EJW	DRAFT REVIEW
1	8/14/09	EJW	SUBMITTAL TO ADEM
2	8/19/09	EJW	REVISED CELL LINER DETAIL
3	2/09/10	CRW	MINOR MOD. s/o ALT. CAP
4	8/04/11	TSR	REMOVED FINAL COVER ALT.
5	8/19/11	TSR	SUBMITTAL TO ADEM
6	2/4/14	CNB	PERMIT RENEWAL w/ MINOR MODS
7	6/3/14	CNB	REVISIONS PER CLIENT COMMENTS

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Consulting Engineers and Scientists
4040 ROYAL DR., SUITE 100 KENNESAW, GA 30144
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REPUBLIC SERVICES, INC.™
22800 HIGHWAY 41 BREWTON, AL 36426

ALABAMA LICENSED PROFESSIONAL ENGINEER No. 34105-E CLAIRE N. BACON

STORMWATER DRAINAGE PLAN

PERMIT RENEWAL PLANS WITH MINOR MODS
SOLID WASTE PERMIT #27-08
TIMBERLANDS SANITARY LANDFILL
ESCAMBIA COUNTY, ALABAMA

DRAWN BY:	CNB
APPVD. BY:	CWM
JOB NO.	EJ137474

DRAWING 8

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