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December 11, 2025

Jay Reynolds, Chairman
The Water Works and Sewer Board of the City of Demopolis
P.O. Box 350
Demopolis, AL 36732

RE: Draft Permit
Water Reuse Permit No. ALW000003
Demopolis WWTP (Reuse System)
Marengo County, Alabama

Dear Mr. Reynolds:

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.

Please be aware that Parts I.C.1.c and I.C.2.e of your permit require participation in the Department's Alabama Environmental Permitting and Compliance System (AEPACS) for submittal of DMRs and SSOs upon issuance of this permit unless valid justification as to why you cannot participate is submitted in writing. SSO hotline notifications and hard copy Form 415 SSO reports may be used only with the written approval from the Department. AEPACS allows ADEM to electronically validate and acknowledge receipt of the data. This improves the accuracy of reported compliance data and reduces costs to both the regulated community and ADEM. Please note that all AEPACS users can create the electronic DMRs and SSOs; however, only AEPACS users with certifier permissions will be able to submit the electronic DMRs and SSOs to ADEM.

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 Austin Dansby at austin.dansby@adem.alabama.gov or (334) 271-7812.

Sincerely,

A handwritten signature in black ink that reads "Austin Dansby".

Austin Dansby
Municipal Section
Water Division

Enclosure

cc: Environmental Protection Agency Email
U.S. Fish and Wildlife Service
Alabama Historical Commission
Advisory Council on Historic Preservation
Department of Conservation and Natural Resources



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

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

Coastal Office
1615 South Broad Street
Mobile, AL 36605
(251) 450-3400
(251) 479-2593 (FAX)



RECLAIMED WATER REUSE PERMIT

PERMITTEE: THE WATER WORKS AND SEWER BOARD OF THE CITY OF DEMOPOLIS
P.O. BOX 350
DEMOPOLIS, AL 36732

FACILITY LOCATION: DEMOPOLIS WWTP (REUSE SYSTEM)
2101 WATER AVENUE
DEMOPOLIS, ALABAMA
MARENGO COUNTY

PERMIT NUMBER: ALW000003

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

ISSUANCE DATE:

EFFECTIVE DATE:

EXPIRATION DATE:

Draft

Alabama Department of Environmental Management
Water Division Chief

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PART I. DISCHARGE LIMITATIONS, CONDITIONS, AND REQUIREMENTS

A. DISCHARGE LIMITATIONS AND MONITORING REQUIREMENTS

1. DSN 005-1: Class A Reclaimed Water - Demopolis Country Club

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 **Class A Reclaimed Water** from Outfall 0051, which is described more fully in the Permittee's application. Such discharge shall be limited and monitored by the Permittee as specified below.

Parameter	Quantity or Loading		Units	Quality or Concentration			Units	Sample Freq See note (1)	Sample Type	Seasonal
Turbidity (00070) See note (2) Prior To Disinfect	*****	*****	*****	*****	*****	3.0 Maximum Daily	NTU	Daily	Continuous	Not Seasonal
pH (00400) Effluent Gross Value	*****	*****	*****	6.0 Minimum Daily	*****	8.5 Maximum Daily	S.U.	Daily	Grab	Not Seasonal
Nitrogen, Total (As N) (00600) Effluent Gross Value	*****	*****	*****	*****	(Report) Monthly Average	(Report) Maximum Daily	mg/l	Weekly	24-Hr Composite	Not Seasonal
Nitrite Plus Nitrate Total 1 Det. (As N) (00630) Effluent Gross Value	*****	*****	*****	*****	10.0 Monthly Average	*****	mg/l	Weekly	24-Hr Composite	Not Seasonal
Phosphorus, Total (As P) (00665) Effluent Gross Value	*****	*****	*****	*****	(Report) Monthly Average	(Report) Maximum Daily	mg/l	Weekly	24-Hr Composite	Not Seasonal
Flow, In Conduit or Thru Treatment Plant (50050) Effluent Gross Value	(Report) Monthly Average	(Report) Maximum Daily	MGD	*****	*****	*****	*****	Daily	Continuous	Not Seasonal
Chlorine, Total Residual (50060) See note (3) Effluent Gross Value	*****	*****	*****	1.0 Minimum Daily	*****	*****	mg/l	Daily	Grab	Not Seasonal
Chlorine, Total Residual (50060) See note (4) Prior To Irrigation	*****	*****	*****	0.5 Minimum Daily	*****	*****	mg/l	Monthly	Grab	Not Seasonal
E. Coli (51040) See Note (6) Effluent Gross Value	*****	*****	*****	*****	18 Weekly Average	34 Maximum Daily	col/100mL	Daily	Grab	Not Seasonal
BOD, Carbonaceous 05 Day, 20C (80082) Effluent Gross Value	*****	*****	*****	*****	10.0 Monthly Average	*****	mg/l	Weekly	24-Hr Composite	Not Seasonal

See Part II.C.1. for Bypass and Part II.C.2. for Upset conditions.

- (1) Sample Frequency – See also Part I.B.2
- (2) Turbidity samples are to be collected after filtration and prior disinfection. If reclaimed water must be rejected due to Turbidity >3.0 NTU, the noncompliance notification for submitted as required by Permit Condition I.C.2, must include the date, time, and results of Turbidity sample analysis during the reject water diversion in addition to the start and end dates and times of the reject water diversion as required by ADEM Admin Code R. 335-6-20-.11(4)(b)1.
- (3) Total Residual Chlorine (TRC) samples are to be collected entering the distribution system.
- (4) TRC samples are to be collected in the distribution system prior to being transferred to storage ponds and/or distributed to customers.
- (5) EPA Method 200.8 or other approved EPA method with equal or lower method detection limits shall be used for the monitoring of Barium and Arsenic. If the facility discontinues acceptance of the leachate from the Arrowhead Landfill, monitoring and sampling will no longer be required for these parameters after approval by the Director. If monitoring is not applicable during the monitoring period, enter “*9” on the monthly DMR.
- (6) The weekly average E. Coli is to be calculated as a median, as determined from the bacteriological results of the last seven days for which analyses have been completed.

2. DSN 006-1: Class A Reclaimed Water - Demopolis SportsPlex

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 **Class A Reclaimed Water** from Outfall 0061, which is described more fully in the Permittee’s application. Such discharge shall be limited and monitored by the Permittee as specified below.

Parameter	Quantity or Loading		Units	Quality or Concentration			Units	Sample Freq See note (1)	Sample Type	Seasonal
Turbidity (00070) See note (2) Prior To Disinfect	*****	*****	*****	*****	*****	3.0 Maximum Daily	NTU	Daily	Continuous	Not Seasonal
pH (00400) Effluent Gross Value	*****	*****	*****	6.0 Minimum Daily	*****	8.5 Maximum Daily	S.U.	Daily	Grab	Not Seasonal
Nitrogen, Total (As N) (00600) Effluent Gross Value	*****	*****	*****	*****	(Report) Monthly Average	(Report) Maximum Daily	mg/l	Weekly	24-Hr Composite	Not Seasonal
Nitrite Plus Nitrate Total 1 Det. (As N) (00630) Effluent Gross Value	*****	*****	*****	*****	10.0 Monthly Average	*****	mg/l	Weekly	24-Hr Composite	Not Seasonal
Phosphorus, Total (As P) (00665) Effluent Gross Value	*****	*****	*****	*****	(Report) Monthly Average	(Report) Maximum Daily	mg/l	Weekly	24-Hr Composite	Not Seasonal
Flow, In Conduit or Thru Treatment Plant (50050) Effluent Gross Value	(Report) Monthly Average	(Report) Maximum Daily	MGD	*****	*****	*****	*****	Daily	Continuous	Not Seasonal
Chlorine, Total Residual (50060) See note (3) Effluent Gross Value	*****	*****	*****	1.0 Minimum Daily	*****	*****	mg/l	Daily	Grab	Not Seasonal
Chlorine, Total Residual (50060) See note (4) Prior To Irrigation	*****	*****	*****	0.5 Minimum Daily	*****	*****	mg/l	Monthly	Grab	Not Seasonal
E. Coli (51040) See Note (6) Effluent Gross Value	*****	*****	*****	*****	18 Weekly Average	34 Maximum Daily	col/100mL	Daily	Grab	Not Seasonal
BOD, Carbonaceous 05 Day, 20C (80082) Effluent Gross Value	*****	*****	*****	*****	10.0 Monthly Average	*****	mg/l	Weekly	24-Hr Composite	Not Seasonal

See Part II.C.1. for Bypass and Part II.C.2. for Upset conditions.

- (1) Sample Frequency – See also Part I.B.2
- (2) Turbidity samples are to be collected after filtration and prior disinfection. If reclaimed water must be rejected due to Turbidity >3.0 NTU, the noncompliance notification for submitted as required by Permit Condition I.C.2, must include the date, time, and results of Turbidity sample analysis during the reject water diversion in additional to the start and end dates and times of the reject water diversion as required by ADEM Admin Code R. 335-6-20-.11(4)(b)1.
- (3) Total Residual Chlorine (TRC) samples are to be collected entering the distribution system.
- (4) TRC samples are to be collected in the distribution system prior to being transferred to storage ponds and/or distributed to customers.
- (5) EPA Method 200.8 or other approved EPA method with equal or lower method detection limits shall be used for the monitoring of Barium and Arsenic. If the facility discontinues acceptance of the leachate from the Arrowhead Landfill, monitoring and sampling will no longer be required for these parameters after approval by the Director. If monitoring is not applicable during the monitoring period, enter “*9” on the monthly DMR.
- (6) The weekly average E. Coli is to be calculated as a median, as determined from the bacteriological results of the last seven days for which analyses have been completed.

B. DISCHARGE MONITORING AND RECORD KEEPING REQUIREMENTS

1. Representative Sampling

Sample collection and measurement actions shall be representative of the volume and nature of the monitored discharge and shall be in accordance with the provisions of this permit. The effluent sampling point shall be at the nearest accessible location just prior to discharge and after final treatment, unless otherwise specified in the permit.

2. Measurement Frequency

Measurement frequency requirements found in Provision I.A. shall mean:

- a. Seven days per week shall mean daily.
- b. Five days per week shall mean any five days of discharge during a calendar weekly period of Sunday through Saturday.
- c. Three days per week shall mean any three days of discharge during a calendar week.
- d. Two days per week shall mean any two days of discharge during a calendar week.
- e. One day per week shall mean any day of discharge during a calendar week.
- f. Two days per month shall mean any two days of discharge during the month that are no less than seven days apart. However, if discharges occur only during one seven-day period in a month, then two days per month shall mean any two days of discharge during that seven-day period.
- g. One day per month shall mean any day of discharge during the calendar month.
- h. Quarterly shall mean any day of discharge during a calendar quarter.
- i. The Permittee may increase the frequency of sampling, listed in Provisions I.B.2.a through I.B.2.h; however, all sampling results are to be reported to the Department.

3. 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" or "*B" 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, re-issuance, 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" or "*B" 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. 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.

4. 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.

5. Records Retention and Production

- a. 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 should not be submitted unless requested.
- b. 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.

6. Reduction, Suspension or Termination of Monitoring and/or Reporting

- a. The Director may, with respect to any point source identified in Provision I.A. of this permit, authorize the Permittee to reduce, suspend or terminate the monitoring and/or reporting required by this permit upon the submission of a written request for such reduction, suspension or termination by the Permittee, supported by sufficient data which demonstrates to the satisfaction of the Director that the discharge from such point source will continuously meet the discharge limitations specified in Provision I.A. of this permit.
- b. It remains the responsibility of the Permittee to comply with the monitoring and reporting requirements of this permit until written authorization to reduce suspend or terminate such monitoring and/or reporting is received by the Permittee from the Director.

7. 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. At a minimum, flow measurement devices shall be calibrated at least once every 12 months.

C. DISCHARGE REPORTING REQUIREMENTS

1. Reporting of Monitoring Requirements

- a. The Permittee shall conduct the required monitoring in accordance with the following schedule:
 - (1) 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.
 - (2) 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 should be reported on the last DMR due for the quarter (i.e., March, June, September and December DMRs).

- (3) 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 reported on the last DMR due for the month of the semiannual period (i.e., June and December DMRs).
 - (4) 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 reported on the December DMR.
- b. The Permittee shall submit discharge monitoring reports (DMRs) in accordance with the following schedule:
- (1) 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 the month following the month the permit becomes effective. 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, unless otherwise directed by the Department.
 - (2) REPORTS OF QUARTERLY TESTING shall be submitted on a quarterly basis. The first report is due on the 28th day of the month following the first complete calendar quarter the permit becomes effective. 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, unless otherwise directed by the Department.
 - (3) 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, unless otherwise directed by the Department.
 - (4) REPORTS OF ANNUAL TESTING shall be submitted on an annual basis. Unless specified elsewhere in the permit, 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, unless otherwise directed by the Department.
- c. Except as allowed by Provision I.C.1.c.(1) or (2), the permittee shall submit all Discharge Monitoring Reports (DMRs) required by Provision I.C.1.b. electronically.
- (1) If the permittee is unable to complete the electronic submittal of DMR data due to technical problems originating with the Department's electronic system (this could include entry/submittal issues with an entire set of DMRs or individual parameters), the permittee is not relieved of their obligation to submit DMR data to the Department by the date specified in Provision I.C.1.b., unless otherwise directed by the Department.

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

A permittee 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 and Regulations, 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
Office of Water Services, Water Division
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
Office of Water Services, Water Division
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
Municipal Section, Water Division
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
Municipal Section, Water Division
1400 Coliseum Boulevard**

- 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 Notifications and Reports

- a. The Permittee shall notify the Department if, for any reason, the Permittee's discharge:

- (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) Potentially threatens human health or welfare;
- (3) Threatens fish or aquatic life;
- (4) Causes an in-stream water quality criterion to be exceeded;
- (5) 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);
- (6) Contains a quantity of a hazardous substance that may be harmful to public health or welfare under Section 311(b)(4) of the FWPCA, 33 U.S.C. Section 1321(b)(4);
- (7) Exceeds any discharge limitation for an effluent parameter listed in Part I.A. as a result of an unanticipated bypass or upset; or
- (8) Is an unpermitted direct or indirect discharge of a pollutant to a water of the state. (Note that unpermitted discharges properly reported to the Department under any other requirement are not required to be reported under this provision.)

The Permittee shall orally or electronically provide notification of any of the above occurrences, describing the circumstances and potential effects, to the Director or Designee within 24-hours after the Permittee becomes aware of the occurrence of such discharge. In addition to the oral or electronic notification, the Permittee shall submit a report to the Director or Designee, as provided in Provision I.C.2.c. or I.C.2.e., no later than five days after becoming aware of the occurrence of such discharge or occurrence.

- b. If, for any reason, the Permittee's discharge does not comply with any limitation of this permit, then the Permittee shall submit a written report to the Director or Designee, as provided in Provision I.C.2.c below. This report must be submitted with the next Discharge Monitoring Report required to be submitted by Provision I.C.1 of this permit after becoming aware of the occurrence of such noncompliance.
- c. Except for notifications and reports of notifiable SSOs which shall be submitted in accordance with the applicable Provisions of this permit, the Permittee shall submit the reports required under Provisions I.C.2.a. and b. to the Director or Designee on ADEM Form 421, available on the Department's website (<http://www.adem.state.al.us/DeptForms/Form421.pdf>). The completed Form must document the following information:
 - (1) A description of the discharge and cause of noncompliance;
 - (2) The period of noncompliance, including exact dates, times, and duration of the noncompliance. If the noncompliance is not corrected by the due date of the written report, then the Permittee shall provide an estimated date by which the noncompliance will be corrected; and
 - (3) A description of the steps taken by the Permittee and the steps planned to be taken by the Permittee to reduce or eliminate the noncompliant discharge and to prevent its recurrence.
- d. Immediate notification

The Permittee shall provide notification to the Director, the public, the county health department, and any other affected entity such as public water systems, as soon as possible upon becoming aware of any notifiable sanitary sewer overflow. Notification to the Director shall be completed utilizing the Department's web-based electronic environmental SSO reporting system in accordance with Provision I.C.2.e.
- e. The Department is utilizing an electronic system for notification and submittal of SSO reports. Except as noted below, the Permittee must submit all SSO reports electronically in the Department's electronic system. If requested, waivers from utilization of the electronic system shall be submitted in accordance with ADEM Admin. Code 335-6-1-.04(6). The Department's electronic reporting system shall be utilized unless a written waiver has been granted. A waiver is not effective until receipt of written approval from the Department. Utilization of verbal notifications and hard copy SSO report submittals is allowed only if approved in writing by the Department. The Permittee shall include in the SSO reports the information requested by ADEM Form 415. In addition, the Permittee shall include the latitude and longitude of the SSO in the report except when the SSO is a result of an extreme weather event (e.g., hurricane). To participate in the electronic system for SSO reports, an account may be created at <https://aepacs.adem.alabama.gov/nviro/ncore/external/home>. If the electronic system is down (i.e.,

electronic submittal of SSO data cannot be completed due to technical problems originating with the Department's system), the Permittee is not relieved of its obligation to notify the Department or submit SSO reports to the Department by the required submittal date, and the Permittee shall submit the data in an alternate manner and format acceptable to the Department. Preapproved alternate acceptable methods include verbal reports, reports submitted via the SSO hotline, or reports submitted via fax, e-mail, mail, or hand-delivery such that they are received by the required reporting date. Within five calendar days of the electronic system resuming operation, the Permittee shall enter the data into the electronic system, unless an alternate timeframe is approved by the Department. For any alternate notification, records of the date, time, notification method, and person submitting the notification should be maintained by the Permittee. If a Permittee is allowed to submit SSO reports via an alternate method, the SSO report must be in a format approved by the Department and must be legible.

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 or 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.

E. SCHEDULE OF COMPLIANCE

1. Compliance with discharge limits

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

COMPLIANCE SHALL BE ATTAINED ON THE EFFECTIVE DATE OF THIS PERMIT

2. Schedule

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. Certified Operator

The Permittee shall not operate any wastewater treatment plant unless the competency of the operator to operate such plant has been duly certified by the Director pursuant to AWPCA, and meets the requirements specified in ADEM Administrative Code, Rule 335-10-1.

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 water body as necessary to determine the nature and impact of the non-complying discharge.

2. Right of Entry and Inspection

- a. 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:
 - (1) 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;
 - (2) Have access to and copy, at reasonable times, any records that must be kept under the conditions of the permits.
 - (3) Inspect any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under the permit; and
 - (4) 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) (ii) The Permittee can identify the specific cause(s) of the upset;
 - (iii) (iii) The Permittee's facility was being properly operated at the time of the upset; and
 - (iv) (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 re-issuance, 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 or negate the Permittee's responsibility to apply for, obtain, or comply with other Federal, State, or Local Government permits, certifications, or licenses or to preclude from obtaining other federal, state, or local approvals, including those applicable to other ADEM programs and regulations.

2. Removed Substances

Solids, sludge, 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 Boulevard Montgomery, Alabama 36110-2059.
- 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 re-issuance 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 re-issuance 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

Prior to any facility expansion, process modification or any significant change in the method of operation of the Permittee's treatment works, the Permittee shall provide the Director with information concerning the planned expansion, modification or change. The Permittee shall apply for a permit modification at least 180 days prior to any facility expansion, process modification, any significant change in the method of operation of the Permittee's treatment works or other actions that could result in the discharge of additional pollutants or increase the quantity of a discharged pollutant or could result in an additional discharge point. This condition 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.

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 re-issuance 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 re-issuance is requested by the Permittee and cause exists, the Director may grant the request.
- b. This permit may be modified during its term for cause, including but not limited to, the following:
 - (1) If cause for termination under Provision II.E.5. of this permit exists, the Director may choose to modify this permit instead of terminating this permit;
 - (2) There are material and substantial alterations or additions to the facility or activity generating wastewater which occurred after permit issuance which justify the application of permit conditions that are different or absent in the existing permit;
 - (3) The Director has received new information that was not available at the time of permit issuance and that would have justified the application of different permit conditions at the time of issuance;
 - (4) A new or revised requirement(s) of any applicable standard or limitation is promulgated under Sections 301(b)(2)(C), (D), (E), and (F), and 307(a)(2) of the FWPCA;
 - (5) Errors in calculation of discharge limitations or typographical or clerical errors were made;
 - (6) To the extent allowed by ADEM Administrative Code, Rule 335-6-6-.17, when the standards or regulations on which the permit was based have been changed by promulgation of amended standards or regulations or by judicial decision after the permit was issued;
 - (7) To the extent allowed by ADEM Administrative Code, Rule 335-6-6-.17, permits may be modified to change compliance schedules;
 - (8) To agree with a granted variance under 301(c), 301(g), 301(h), 301(k), or 316(a) of the FWPCA or for fundamentally different factors;
 - (9) To incorporate an applicable 307(a) FWPCA toxic effluent standard or prohibition;
 - (10) When required by the re-opener 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; or

5. 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.
- h. Any other cause allowed by the ADEM Administrative Code, Chapter 335-6-6.

6. Suspension

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

7. Stay

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. NOTICE TO DIRECTOR OF INDUSTRIAL USERS

1. The Permittee shall not allow the introduction of wastewater, other than domestic wastewater, from a new indirect discharger prior to approval and permitting, if applicable, of the discharge by the Department.
2. The Permittee shall not allow an existing indirect discharger to increase the quantity or change the character of its wastewater, other than domestic wastewater, prior to approval and permitting, if applicable, of the increased discharge by the Department.
3. The Permittee shall report to the Department any adverse impact caused or believed to be caused by an indirect discharger on the treatment process, quality of discharged water or quality of sludge. Such report shall be submitted within seven days of the Permittee becoming aware of the adverse impacts.

H. PROHIBITIONS

The Permittee shall not allow, and shall take effective enforcement action to prevent and terminate, the introduction of any of the following into its treatment works by industrial users:

1. Pollutants which may create a fire or explosive hazard, including, but not limited to, waste streams with a closed cup flashpoint of less than 140 degrees Fahrenheit or 60 degrees Centigrade using the test methods specified in 40 CFR 261.21;
2. Pollutants which may cause corrosive structural damage to the treatment works, but in no case discharges with a pH lower than 5.0;

3. Solid or viscous pollutants in amounts which may cause obstruction to the flow in sewers, or other interference in the treatment works;
4. Any pollutant, including oxygen demanding pollutants (BOD, etc.) of such volume or strength as to cause interference in the treatment works;
5. Heat in amounts which may inhibit biological activity in the treatment plant resulting in interference but in no case in such quantities that the temperature of the influent, at the treatment plant, exceeds 40 degrees centigrade or 104 degrees Fahrenheit;
6. Pollutants which may result in the presence of toxic gases, vapors, or fumes within the treatment works in a quantity that may cause acute worker health and safety problems;
7. Unless specifically authorized by this permit, any pollutants not generated at the facility for which this permit was issued; or
8. Petroleum oil, biodegradable cutting oil, or products of mineral oil origin in amounts that will cause pass through or interference.

PART III. ADDITIONAL REQUIREMENTS, CONDITIONS, AND LIMITATIONS

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 re-issuance 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 re-issuance. 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, 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 are 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 this paragraph.
4. Final plans and specifications for a waste treatment facility at a new source or new discharger, or a modification to an existing waste treatment facility must be submitted to and examined by the Department prior to initiating construction of such treatment facility by the Permittee.
5. Upon completion of construction of waste treatment facilities and prior to operation of such facilities, the Permittee shall submit to the Department a certification from a registered professional engineer, licensed to practice in the State of Alabama, that the treatment facilities have been built according to plans and specifications submitted to and examined by the Department.

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. **Buffer distance** – means a specified distance between an actual point of reuse of reclaimed water and a land feature or resource use specified in ADEM Administrative Code 335-6-20, such as public/private wells, adjoining property, inhabited dwellings, or other features as specified by the Department.
7. **Bypass** – means the intentional diversion of waste streams from any portion of a treatment facility.
8. **CBOD** – means the five-day measure of the pollutant parameter carbonaceous biochemical oxygen demand.
9. **Class A Reclaimed Water** – secondary treated municipal wastewater that has received additional treatment, including, at a minimum, coagulation, clarification, filtration and disinfection, or an alternate process acceptable to the Department. See rule 335-6-20-.10 for Class A reuses and applications.
10. **Class B Reclaimed Water** - secondary treated municipal wastewater that has received additional treatment including, at a minimum, disinfection. See rule 335-6-20-.10 for Class B reuses and applications.
11. **Customer** - designated User or Users for the purposes specified in ADEM Administrative Code 335-6-20.
12. **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.
13. **Daily maximum** – means the highest value of any individual sample result obtained during a day.
14. **Daily minimum** – means the lowest value of any individual sample result obtained during a day.
15. **Day** – means any consecutive 24-hour period.
16. **Department** – means the Alabama Department of Environmental Management.
17. **Designated User or User** – means any site or facility where reclaimed water is reused under a contract with the permittee. User may also be defined as the person to be supplied with reclaimed water who has a written user agreement with the permittee, or a purveyor who provides reclaimed water to others.
18. **Director** – means the Director of the Department.
19. **Discharge** – means "[t]he addition, introduction, leaking, spilling or emitting of any sewage, industrial waste, pollutant or other waste into waters of the state". Code of Alabama 1975, Section 22-22-1(b)(9).
20. **Discharge Monitoring Report (DMR)** – means the form approved by the Director to accomplish reporting requirements of an NPDES permit.
21. **DO** – means dissolved oxygen.
22. **Domestic Wastewater** – means wastewater from residences and other wastewaters of similar composition and strength and not wastewater generated from industrial processes.

23. **8HC** – means 8-hour composite sample, including any of the following:
 - a. The mixing of at least 8 equal volume samples collected at constant time intervals of not more than 1 hour 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.
24. **EPA** – means the United States Environmental Protection Agency.
25. **FC** – means the pollutant parameter fecal coliform.
26. **Flow** – means the total volume of discharge in a 24-hour period.
27. **FWPCA** – means the Federal Water Pollution Control Act.
28. **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).
29. **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.
30. **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.
31. **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.
32. **Land Application** – means the removal of wastewater and/or waste solids from a treatment facility and distribution to, or incorporation into, the soil mantle at agronomic rates for beneficial purposes which meet or exceed National Resources Conservation Service (NRCS) technical standards and guidelines.
33. **MGD** – means million gallons per day.
34. **Monthly Average** – means the arithmetic mean of all the composite or grab samples taken for the daily discharges collected in one month period. The monthly average for flow is the arithmetic mean of all flow measurements taken in a one-month period.
35. **Municipal Wastewater** – means wastewater discharged to a POTW or a Semi-Public or Private treatment facility containing majority domestic wastewater.
36. **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. From which the discharge of pollutants did not commence 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.
37. **NH3-N** – means the pollutant parameter ammonia, measured as nitrogen.
38. **Non-consumable Agricultural Irrigation** - irrigation of crops not intended for direct human consumption.
39. **Non-Potable Main** – the pipelines that collect and/or convey non-potable discharges from or to multiple service connections. Examples include sewage collection and interceptor mains, non-potable irrigation mains, and reclaimed water mains.
40. **Notifiable sanitary sewer overflow** – means an overflow, spill, release or diversion of wastewater from a sanitary sewer system that:
 - d. Reaches a surface water of the State; or

- e. May imminently and substantially endanger human health based on potential for public exposure including but not limited to close proximity to public or private water supply wells or in areas where human contact would be likely to occur.
- 41. **Permit application** – means forms and additional information that is required by ADEM Administrative Code Rule 335-6-6-.08 and applicable permit fees.
- 42. **Permittee** – means the person to whom a permit has been issued pursuant to 335-6.
- 43. **Point of Compliance** - the point in the reclaimed water reuse facility where the reclaimed water must meet the requirements of the permit. A permit may require more than one point of compliance within the facility depending on the constituents to be monitored.
- 44. **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).
- 45. **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.
- 46. **Potable Water** – water suitable for human consumption.
- 47. **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".
- 48. **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.
- 49. **Receiving Stream** – means the "waters" receiving a "discharge" from a "point source".
- 50. **Reclaimed Water** – wastewater that has received treatment which meets the criteria specified under ADEM Administrative Code 335-6-20.
- 51. **Reclaimed Water Distribution System** – the network of pipes, pumping facilities, storage facilities and appurtenances designed to convey and distribute reclaimed water from one or more domestic wastewater treatment facilities to one or more users of reclaimed water.
- 52. **Reclaimed Water Pond** – any lake, pond or other water holding feature constructed or managed to store reclaimed water where swimming, wading, boating, fishing, and other water-based recreational activities are prohibited. A landscape impoundment is created for storage and may incidentally serve a landscaping or aesthetic purpose.
- 53. **Reclaimed Water Reuse Facility** – a wastewater treatment system consisting of a series of units or treatment processes which produces a highly treated source of wastewater suitable for reuse.
- 54. **Reuse** – the use of reclaimed water as a substitute for other water sources for the beneficial irrigation of areas that may be accessible to the public. This includes areas such as golf courses, residential and commercial landscaping, parks, athletic fields, roadway medians and landscape impoundments.
- 55. **Reuse Facility or Facility** – any structure or system designed or used for reuse of wastewater including, but not limited to, municipal wastewater treatment facilities, pumping and storage facilities, pipeline and distribution facilities, and the property to which the reclaimed water is applied.
- 56. **Secondary Treatment** – means, for the purposes of ADEM Administrative Code 335-6-20, the secondary treatment as defined in 40 CFR Part 133; however the percent removals for CBOD5 and TSS shall not apply.
- 57. **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.
- 58. **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.

59. **TKN** – means the pollutant parameter Total Kjeldahl Nitrogen.
60. **TON** – means the pollutant parameter Total Organic Nitrogen.
61. **TRC** – means Total Residual Chlorine.
62. **TSS** – means the pollutant parameter Total Suspended Solids.
63. **24HC** – means 24-hour composite sample, including any of the following:
 - a. The mixing of at least 8 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.
64. **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.
65. **Wastewater** – means any combination of liquid or water and pollutants from activities and processes occurring in dwellings, commercial buildings, industrial plants, institutions and other establishments, together with any ground water, surface water, and storm water that may be present; liquid or water that is chemically, biologically, physically or rationally identifiable as containing blackwater, gray water or commercial or industrial pollutants; and sewage.
66. **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.
67. **Week** – means the period beginning at twelve midnight Saturday and ending at twelve midnight the following Saturday.
68. **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. OTHER REQUIREMENTS OF RECLAIMED WATER REUSE FACILITY

1. Municipal Reclaimed Water Reuses

- a. Reuses for Class A and Class B reclaimed water include:
 - (1) Land application on fodder, fiber crops, ornamental nursery stock, sod and seed crops not intended for human ingestion, and pasture for animals not producing milk for human consumption.
 - (2) During periods of non-use, irrigation of golf courses, highway medians and roadside vegetation, and cemeteries.
- b. Class A reclaimed water can also be reused for irrigation of parks, ball fields, playgrounds and school yards during periods of non-use, residential landscapes and commercial campuses.
- c. Reuses not listed in paragraphs 'a' and 'b' of this section may be requested on a case-by-case basis for approval by the Department.

2. User Agreement

- a. The permittee must enter into a written user agreement with each customer. Regulation and management of customers will be by the permittee via a binding agreement with each individual customer or by an equivalent local municipal ordinance. The user agreement shall allow the Department or authorized representative to:
 - (1) Enter the user facility, application site(s), or any other location where records are maintained;
 - (2) Have access to and copy, at reasonable times, any record(s) that must be kept under the conditions of the user agreement;
 - (3) Inspect at reasonable times, any facility, equipment (including monitoring and control equipment), practices, or operations regulated or required by the user agreement; and
 - (4) Sample or monitor, at reasonable times for the purpose of assuring permit compliance or otherwise authorized by the AWPCA, any substances or parameters at any location.
- b. The Permittee shall maintain a list of any reuses of the reclaimed water and any agreement(s) between the permittee and any other party who is not the permittee who may distribute or reuse the reclaimed water. This list and any agreement(s) shall be kept onsite and available for review by the Permittee and Department.

3. Access, Exposure, and Signage

- (1) Signage. When reusing reclaimed water, the public and personnel in the general area of reuse must be notified that the water is reclaimed water and is not safe for drinking or human contact. The permittee shall post signs stating "Caution: Reclaimed Water - Do Not Drink" or equivalent signage, in English and Spanish (or other language based on local dialect). If the Department determines the notification signage is insufficient, the Department may require different/additional signage.
- (2) General. All new or replaced buried pipe conveying Reclaimed Water, including service lines, valves, and other appurtenances, shall be colored purple, and the precise color used, e.g., Pantone 512, 522 or equivalent, shall be consistently used throughout the system to ensure the pipes are adequately identifiable and distinguishable. Non-purple pipe purchased or under contract prior to the promulgation of this rule shall not be considered new or replaced pipe. The precise color proposed for use shall be identified in the plans and specifications provided to the Department during the plan and specification review. If fading or discoloration of the purple pipe is experienced during construction or, for any non-purple pipe which was purchased or under contract prior to promulgation of this rule, identification tape or locating wire along the pipe is required. The permittee shall label piping every ten feet with "Caution: Reclaimed Water - Do Not Drink" or equivalent signage in English and Spanish (or other language based on local dialect).
- (3) Identification Tape. If identification tape is installed with the purple pipe, the permittee shall prepare it with white or black printing on a purple color field, having the words "Caution: Reclaimed Water - Do Not Drink" or equivalent signage, in English and Spanish (or other language based on local dialect). The overall

width of the tape shall be at least three inches. Identification tape shall be installed eighteen inches above the transmission pipe longitudinally, shall be centered over the pipe, and shall run continuously along the length of the pipe.

- (4) Valve Boxes and Other Surface Identification. All valves shall have locking valve covers that are non-interchangeable with potable water valve covers, and shall have an inscription cast on the top surface stating "Reclaimed Water." All above ground pipes and pumps shall be consistently color-coded (purple) and marked to clearly differentiate reclaimed water facilities from potable water facilities.
- (5) Reclaimed water pumping facilities identification and signage. The permittee shall paint all exposed and above ground piping, risers, fittings, pumps, valves, etc., purple color (Pantone 512, 522 or other equivalent product acceptable to the Department). The permittee shall identify all piping, using an accepted means of labeling, with "Caution: Reclaimed Water - Do Not Drink" or equivalent signage, in English and Spanish (or other language based on local dialect). In a fenced pump station area, signs shall be posted on all sides of the fence.
- (6) Warning Labels. The permittee shall install warning labels on designated facilities such as, but not limited to, controller panels and wash down or blow-off hydrants on water trucks, hose bibs, and temporary construction services. The labels shall read "Caution: Reclaimed Water - Do Not Drink" or equivalent signage, in English and Spanish (or other language based on local dialect).
- (7) Lagoon Identification and Signage. Where reclaimed water is stored or impounded, or reused for irrigation in public areas, the permittee shall install warning signs containing, at a minimum, one inch purple letters (Pantone 512, 522 or other equivalent product acceptable to the Department) on a white or other high contrast background notifying the public that the water is unsafe to drink. Signs may also have a purple background with white or other high contrast lettering. Warning signs and labels shall read "Caution: Reclaimed Water - Do Not Drink" or equivalent signage, in English and Spanish (or other language based on local dialect).
- (8) Additional Access Requirements. The permittee shall ensure that drinking fountains, picnic tables, food establishments, and other public eating facilities are placed out of any spray irrigation area in which reclaimed water is reused, or are otherwise protected from contact with the reclaimed water. Exterior drinking fountains, picnic tables, food establishments, and other public eating facilities shall be identified in the construction plans. If no exterior drinking fountains, picnic tables, food establishments, or other public eating facilities are present in the design area, then the permittee shall specifically state in the plans that none are to exist.

4. Buffer Distances

- (1) The minimum distance from any reclaimed water pipeline to a potable water supply well shall be fifty feet.
- (2) The minimum distance from a nonresidential spray irrigation system to a potable water supply well, water of the State, or drainage to a water of the State or wetland shall be fifty feet.
- (3) The minimum distance for spray application using high trajectory nozzles to a property boundary or inhabited dwelling shall be fifty feet.
- (4) The minimum distance for spray application of Class A reclaimed water to a property boundary or inhabited dwelling shall be zero (0) feet; however, aerosol formation shall be minimized within fifty feet of a property boundary or inhabited dwelling through the use of low trajectory nozzles for spray irrigation or above-ground drip irrigation.
- (5) The minimum distance from a lined impoundment to a potable water supply well shall be 100 feet.
- (6) The minimum distance from an unlined impoundment to a potable water supply well is 500 feet.
- (7) The Department may require a different buffer distance on a case-by-case basis.

5. Preliminary Engineering Reports

Preliminary engineering reports shall comply with chapter 335-6-20 and applicable provisions of chapter 335-6-3. Preliminary engineering reports for new municipal reclaimed water systems or major upgrades to municipal reclaimed water systems shall be submitted to the Department for review.

6. Plan and Specification Review

All plans and specifications for the construction of new reuse facilities or modification or expansion of the same shall be submitted to the Director for review in accordance with chapter 335-6-3.

7. Distribution Pipelines

The design and construction of municipal reclaimed water distribution pipelines shall comply with applicable provisions of chapter 335-6-3. The design and construction of municipal reclaimed water distribution pipelines shall also comply with applicable provisions of rule 335-7-7-.03.

- a. Reclaimed water mains shall be treated as non-potable mains when considering their separation from potable water. Reclaimed water mains shall be treated as potable water mains when considering their separation from sanitary sewers.
- b. For a system that proposes to use an alternative to the distribution pipeline requirements in this chapter, rule 335-7-7-.03, or chapter 335-6-3, the design engineer shall submit to the Department for review data demonstrating that the installation of an alternative will protect public health and the environment.
- c. A reclaimed water distribution system and the continued distribution systems of all its customers shall have specific requirements, including, but not limited to, the following:
 - (1) Maximum obtainable separation of reclaimed water lines and potable water lines shall be practiced. A minimum horizontal separation of three feet (outside of pipe to outside of pipe) shall be maintained between reclaimed water lines and either potable water mains or sewage collection lines. A minimum of eighteen inches shall be provided between the bottom of any potable water supply line and the top of the reclaimed water line.
 - (2) The residential customers shall have installed a permanent underground supply distribution system. Existing distribution systems may be utilized for reuse; however, the system shall be modified so that no reuse water shall enter a potable water system.
 - (3) A public information program is required to inform designated users and the public of what reclaimed water is and to answer questions about connection to the system. All designated users wishing to connect to the system must participate in the public information program and have their participation documented. This public information program may be in the form of a seminar, video, multimedia electronic presentation or other appropriate media.
 - (4) As-built plans of the reclaimed water systems, showing valve locations, tap locations and size of taps shall be available to the permittee at all times.
 - (5) The customer shall not allow the reclaimed water to enter dwellings.
 - (6) The customer shall sign a written agreement with the permittee prior to being connected to the reuse system. Irrigation shall occur only during periods approved in the written user agreement.
 - (7) The customer shall not allow reclaimed water to be reused for consumption (human or animal), interconnecting with another water source, irrigation of edible crops (gardens), body contact recreation, filling of swimming pools, or sharing a common reclaimed service between properties.
 - (8) Operation and maintenance of the reclaimed water system including valves, outlets, couplers and sprinkler heads shall be performed by personnel who have completed the public educational program(s).
 - (9) Precautions shall be taken to ensure that reclaimed water will not be sprayed on any facility or area not designated for application. Low trajectory nozzles, or other means to minimize aerosol formation shall be used within 100 feet of public eating, drinking and bathing facilities and in all residential applications.
 - (10) Malfunctioning irrigation systems and line breaks shall be repaired immediately. Improper operation allowing runoff during operation may be grounds to terminate service to the customer.
 - (11) Reuse through hose bibs or faucets may be allowed by the Department on a case-by-case basis. If allowed, hoses and hose bibs shall be through cam-lock connection assemblies to be provided by the permittee at the location specified by the permittee. Specific provisions must be in any written reuse agreements to ensure that reclaimed water is strictly reused for irrigation purposes and will not be utilized for any of the restricted items identified in these regulations.
 - (12) Application of reclaimed water for non-consumable agricultural irrigation of crops will be considered by the Department on a case-by-case basis.
 - (13) The permittee must coordinate with the purveyor of potable water to advise it of the reuse of reclaimed water in the area.
- d. If either an in-line type or end-of-line type blow-off or drain assembly is installed in the system, a plan for proposed discharge or runoff locations shall be submitted to the Department for review. The release of reclaimed water to a water

of the State is considered an unpermitted discharge and may result in enforcement action if not covered under a Reclaimed Water Reuse permit.

8. Pumping Stations

- (1) Backflow Protection-Seal Water. Any potable water used as seal water for reclaimed water pump seals shall be protected from backflow with an appropriate backflow prevention device or air gap.
- (2) Backflow Protection-Potable and Reclaimed Water. In no case shall a direct connection be made between potable and reclaimed water system. If it is necessary to put potable water into the reclaimed water distribution system, an appropriate reduced pressure principal device or air gap must be provided to protect the potable water system.
- (3) Equipment and Facilities. Any equipment or facilities such as tanks, temporary piping or valves, and portable pumps that have been used with reclaimed water shall not be used with potable water. Any equipment or facilities such as tanks, temporary piping or valves, and portable pumps that have been or may be used with sewage shall not be used with reclaimed water or potable water.

9. Storage Ponds

All new and existing ponds for municipal reclaimed water and reject water shall meet the following requirements:

- a. Reclaimed Water Ponds. Surface water features, such as storage ponds and landscape impoundments used for reclaimed water are not required to be lined but shall be designed to minimize discharge of pollutants to groundwater. Reclaimed water must meet required E. coli criteria before it is transported to such impoundments. Reclaimed ponds shall be designed with a minimum three feet of freeboard and sufficient storage capacity to assure retention of reclaimed water during adverse weather conditions less than ten year, twenty-four hour storm events. In designing the storage and capacity, periods of non-use shall be taken into consideration.
- b. Reject Water Ponds. An off-line system for storage of reject water shall be provided for all reuse facilities. At a minimum, the capacity of this storage shall be equal to three days of flow at the average daily design flow of the treatment system. Provisions for returning this reject water to the facility for further treatment or for sending the reject water to a separate disposal site shall be incorporated into the design. Ponds designed to receive reject water must be lined to prevent seepage from exceeding 1/8 inch per day. Either properly constructed clay or synthetic liners may be used. If a clay liner is used, provisions must be made to prevent drying, cracking and erosion. Reject water ponds may not be required if another discharge option is available. If the facility's alternate discharge option is through a NPDES Permit, the discharge must meet all of the requirements of the NPDES Permit.

10. Reclaimed Water Filtration

- a. The maximum filtration rate shall not exceed the manufacturer's documented performance. Loading rates will be considered based on manufacturer's information, pilot testing and actual records from operating treatment units. The Department may consider alternate filtration technologies other than conventional filtration upon submission of a written request accompanied by all necessary product information.
- b. Reclaimed water filtration facilities must install and operate a filter to waste system that operates each time a filter begins operation. Filter to waste systems shall automatically filter to waste until the effluent meets the required turbidity standard.

11. Reclaimed Water System Operator Requirements

- a. All wastewater treatment systems which operate under this chapter 335-6-20 shall be classified as a Grade III or higher classification and shall conform to the operator requirements listed under rule 335-10-1.
- b. All operators of reclaimed water distribution systems, operators of the distribution system from the reclaimed water treatment plant to the point of compliance or point of reuse or point of sale, as applicable, and those operators that are employed by buyers of the reclaimed water for subsequent reuse, including home occupants, shall be required to sign a utility user agreement provided by the utility providing the reclaimed water. Such user agreement shall state that the user understands the origin of the effluent and the concept of proper application of the reclaimed water for applying the reclaimed water. Contracts for sale of reclaimed water for subsequent reuse shall also include these requirements. Individual homeowners may operate or maintain reclaimed water distribution systems on their property.

12. Reliability and Redundancy

All reclaimed water reuse systems shall meet the following reliability and redundancy requirements for reclaimed water:

- a. Treatment systems shall provide the following back-up systems:
 - (1) Another permitted disposal options, and/or;
 - (2) Diversion to adequately lined reject water storage capable of storing three days of flow at the average daily design flow of the treatment system.
- b. An alternative back-up system must be automatically activated if turbidity exceeds or chlorine residual drops below the instantaneous required value when entering the distribution system for more than five minutes. The maximum number of times a facility may exceed on this basis is twice in one week, and such exceedance(s) shall be immediately reported to the Department. Failure to report and exceeding more than twice in one week are sufficient grounds for the Department to require that the system be shut down for inspection and repair. In lieu of an alternate back-up system, an automated system to stop flow may be implemented.
- c. Redundant monitoring equipment and automatic by-pass equipment to the reject pond must be provided, as applicable.
- d. Standby power sufficient to maintain all treatment and distribution works or to meet the requirements for an alternative back-up system, as applicable, shall be required for the reclaimed water reuse facilities.

13. Temporary Cessation of Operations and Closure

- a. A permittee shall implement any applicable conditions specified in the permit for temporary cessation of operations. When the permit does not specify applicable temporary cessation conditions, the permittee shall notify the Director prior to a temporary cessation of operations at the facility greater than sixty days in duration and any cessation not for regular maintenance or repair. A permittee is not required to notify the Director of cessation of operations necessary for regular maintenance or repair of a duration of sixty days or less. All notifications required under this section shall include a proposed temporary cessation plan that will ensure the cessation of operations will not pose a threat to human health or the environment.
- b. A closure plan shall be required when a facility is permanently closed. A permittee shall implement any applicable conditions specified in the permit for closure of the facility. Unless otherwise directed by the terms of the permit or by the Director, the permittee shall submit a closure plan to the Director at least ninety days prior to ceasing operations. The closure plan shall ensure that the closed facility will not pose a threat to human health and the environment. If the Department determines through its review of the submitted closure plan that the submittal is not sufficient, then the Permittee must modify the closure plan. The Department must receive modifications to the closure plan, if required, no later than thirty days after receipt of the Department's comments unless an alternate schedule is approved by the Department.

B. SLUDGE MANAGEMENT PRACTICES

1. Applicability

- (1) Provisions of Provision IV.B. apply to a sewage sludge generated or treated in treatment works that is applied to agricultural and non-agricultural land, or that is otherwise distributed, marketed, incinerated, or disposed in landfills or surface disposal sites.
- (2) Provisions of Provision IV.B. do not apply to:
 - Sewage sludge generated or treated in a privately owned treatment works operated in conjunction with industrial manufacturing and processing facilities and which receive no domestic wastewater.
 - Sewage sludge that is stored in surface impoundments located at the treatment works prior to ultimate disposal.

2. Submitting Information

- (1) If applicable, the Permittee must submit annually with its Municipal Water Pollution Prevention (MWPP) report the following:
 - Type of sludge stabilization/digestion method;
 - Daily or annual sludge production (dry weight basis);
 - Ultimate sludge disposal practice(s).

- (2) The Permittee shall provide sludge inventory data to the Director as requested. These data may include, but are not limited to, sludge quantity and quality reported in Provision IV.B.2.a as well as other specific analyses required to comply with State and Federal laws regarding solid and hazardous waste disposal.
- (3) The Permittee shall give prior notice to the Director of at least 30 days of any change planned in the Permittee's sludge disposal practices.

3. Reopener or Modification

- (1) Upon review of information provided by the Permittee as required by Provision IV.B.2. or, based on the results of an on-site inspection, the permit shall be subject to modification to incorporate appropriate requirements.
- (2) If an applicable "acceptable management practice" or if a numerical limitation for a pollutant in sewage sludge promulgated under Section 405 of FWPCA is more stringent than the sludge pollutant limit or acceptable management practice in this permit. This permit shall be modified or revoked or reissued to conform to requirements promulgated under Section 405. The Permittee shall comply with the limitations no later than the compliance deadline specified in applicable regulations as required by Section 405 of FWPCA.

C. TOTAL RESIDUAL CHLORINE (TRC) REQUIREMENTS

1. Testing for TRC shall be conducted according to either the amperometric titration method or the DPD colorimetric method as specified in Section 408(C) or (E), Standards Methods for the Examination of Water and Wastewater, 18th edition. If chlorine is not detected prior to entering the distribution system using one of these methods (i.e., the analytical result is less than the detection level), the Permittee shall report on the DMR form "0".
2. This permit contains minimum allowable TRC levels in the effluent and entering the distribution system. The Permittee is responsible for determining the minimum TRC level needed in the chlorine contact chamber to comply with E.coli and TRC limits.
3. The sample collection point for effluent TRC shall be at a point downstream of the chlorine contact chamber. The sample collection point for TRC entering the distribution system shall be at a point prior to being transferred to storage ponds and/or distributed to customers. The exact locations are to be approved by the Director.

D. PLANT CLASSIFICATION

The Permittee shall report to the Director within 30 days of the effective date of this permit, the name, address and operator number of the certified wastewater operator in responsible charge of the facility. Unless specified elsewhere in this permit, this facility shall be classified in accordance with ADEM Admin. Code R. 335-6-20-21.

NPDES PERMIT RATIONALE

NPDES Permit No: **ALW000003** Date: August 26, 2025

Permit Applicant: The Water Works and Sewer Board of the City of Demopolis
P.O. Box 350
Demopolis, AL 36732

Location: **Demopolis WWTP (Reuse System)**
2101 Water Avenue
Demopolis, AL 36732

Draft Permit is: Initial Issuance: X
Reissuance due to expiration:
Modification of existing permit:
Revocation and Reissuance:

Basis for Limitations: Water Quality Model: N/A
Reissuance with no modification: N/A
Instream calculation at 7Q10: N/A
Toxicity based: N/A
Secondary Treatment Levels: N/A
Other (described below): Turbidity, pH, NO₂+NO₃, TRC, E. Coli, and CBOD₅

Major: No

Description of Discharge:

Feature ID	Description	Receiving Water	Waterbody Use Classification	303(d)	TMDL
005	Reclaimed Water Reuse - Demopolis Country Club	Land Application	N/A	N/A	N/A
006	Reclaimed Water Reuse - Demopolis SportsPlex	Land Application	N/A	N/A	N/A

Discussion:

This permit is an initial issuance for Reclaimed Water Reuse. Demopolis WWTP will maintain its current NPDES (National Pollutant Discharge Elimination System) Permit No. AL0043168 for discharge of wastewater to the Tombigbee River (Coffeeville Lake) in addition to this Reclaimed Water Reuse Permit.

The facility diagram submitted with the application indicates that a portion of the effluent flow from the Demopolis WWTP will be pumped through redundant filtration units, chlorinated, and then be pumped to the existing storage ponds at the Demopolis Country Club and the Demopolis Sportsplex. Demopolis WWTP (Reuse System) will reuse Class A Reclaimed Water for irrigation at the reuse sites. Permit Condition IV.A.7(7) and ADEM Administrative Code 335-6-20-.17(3)(g) prohibit the use of the reclaimed water to be used for consumption (human or animal), irrigation of edible crops (gardens), and body contact recreation.

The daily maximum pH limit is 8.5 s.u. and the daily minimum pH limit is 6.0 s.u. based on ADEM Administrative Code 335-6-20. The monitoring frequency is daily. Flow will be monitored continuously, seven days per week.

The limits for Carbonaceous Biochemical Oxygen Demand (CBOD₅) and Nitrite Plus Nitrate (NO₂+NO₃) are established based upon ADEM Administrative Code 335-6-20 and secondary treatment levels for reclaimed waters. CBOD₅ and NO₂+NO₃ will be limited in the permit with monthly average limitations of 10 mg/L. The monitoring frequencies will be weekly.

The Turbidity limitation is based upon secondary treatment levels for Class A reclaimed water and ADEM Administrative Code 335-6-20. Turbidity will be limited in the permit with a daily maximum of 3.0 NTUs. Turbidity will be monitored continuously, prior to disinfection.

This permit imposes weekly monitoring for the following nutrient-related parameters: Total Nitrogen and Total Phosphorous. Monitoring for these nutrient-related parameters is imposed so that sufficient information will be available regarding the nutrient contribution from the reclaimed water, should it be necessary at some later time to impose nutrient limits on the reclaimed water.

Total Residual Chlorine (TRC) shall be monitored daily after chlorination and upon entry to the distribution system. The limitations are based on ADEM Administrative Code 335-6-20. The TRC entering the distribution system shall have a daily minimum of 1.0 mg/L. The TRC in the distribution system shall have a daily minimum of 0.5 mg/L. Monitoring in the distribution system shall be monthly.

E. Coli limitations are based on secondary treatment levels for reclaimed waters and ADEM Administrative Code 335-6-20. E. Coli will be limited in the permit with weekly average and daily maximum limitations of 18 col/100mL and 34 col/100mL, respectively. The monitoring frequency will be daily.

No toxicity testing is required because these discharges are for water reuse.

Development and implementation of a Sanitary Sewer Overflow Response Plan (SSORP) is not included in this reuse permit because development and implantation of a SSORP being included in Part IV.H of the facility's NPDES permit. This reuse permit will also not require submittal of a Municipal Water Pollution Prevention (MWPP) Annual Report because submittal of an annual MWPP is required by Part I.C.2.f. of the facility's NPDES permit.

Prepared by: Austin Dansby

PERMIT APPLICATION FOR RECLAIMED WATER REUSE (RWR)

RECEIVED

ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
WATER DIVISION-MUNICIPAL SECTION
PO BOX 301463
MONTGOMERY, ALABAMA 36130-1463

NOV 04 2025

MUNICIPAL SECTION

INSTRUCTIONS: APPLICATIONS SHOULD BE TYPED OR PRINTED IN INK AND SUBMITTED TO ADEM AT THE ADDRESS ABOVE. PLEASE CONTINUE ON AN ATTACHED SHEET OF PAPER IF INSUFFICIENT SPACE IS NOT AVAILABLE TO ADDRESS ANY ITEM BELOW. PLEASE MARK N/A IN THE APPROPRIATE BOX WHEN AN ITEM IS NOT APPLICABLE TO THE APPLICANT.

PURPOSE OF THIS APPLICATION

- INITIAL PERMIT APPLICATION FOR NEW FACILITY
MODIFICATION OF EXISTING PERMIT
REVOCAION & REISSUANCE OF EXISTING PERMIT
INITIAL PERMIT APPLICATION FOR EXISTING FACILITY
REISSUANCE OF EXISTING PERMIT

SECTION A - GENERAL INFORMATION

- 1. Reclaimed Water Reuse Facility Name: Demopolis WWTP (Reuse System)
a. Operator Name: The Water Works and Sewer Board of the City of Demopolis
b. Is the operator identified in 1. a, the owner of the Reclaimed Water Reuse Facility? Yes [X] No []

If no, provide name and address of the operator and submit information indicating the operator's scope of responsibility for the Reclaimed Water Reuse Facility.

- c. Name of Permittee* (if different than Operator): N/A
*Permittee will be responsible for compliance with the conditions of the permit

- 2. Reclaimed Water Reuse Permit Number: ALW N/A - initial application (Not applicable if initial permit application)

- 3. Reclaimed Water Reuse Facility Location: (Topographic maps shall be attached in accordance with SECTION G of this application.)

2101 Water Avenue Demopolis Marengo AL 36732
Location Street Address Location City Location County State Location Zip Code
Latitude (Deg Min Sec): 32° 30' 48.4" Longitude (Deg Min Sec): -87° 53' 17.5"

- 4. Reclaimed Water Reuse Facility Mailing Address (Street or Post Office Box):

P.O. Box 350 Demopolis Marengo AL 36732
Mailing Street Address or PO Box Mailing City Mailing County State Mailing Zip Code

- 5. What is the Applicant's business entity type?

- Sole Proprietorship
Partnership
Limited Liability Company
Corporation
Government
Other (Specify)

Identify the Responsible Official or Responsible Officer (as described on page 5 of this application):

Name: Jay Reynolds Title: Board Chairman
P.O. Box 350 Demopolis AL 36732
Mailing Street Address or PO Box Mailing City State Mailing Zip Code
Phone Number: 334-289-3328 Email Address (Required): jay@marengoins.com

SECTION B – RECLAIMED WATER REUSE INFORMATION

1. Attach a process flow schematic of the treatment process, including the size of each unit operation.
2. Do you have, or plan to have, automatic sampling equipment or continuous water flow metering equipment at this facility?

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

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

Previously submitted

3. Are any collection or treatment modifications or expansions planned during the next three years that could alter volumes or characteristics of the reclaimed water? (Note: Permit Modification may be required) Yes No

Briefly describe these changes and any potential or anticipated effects on the reclaimed water quality and quantity: (Attach additional sheets if needed.)

Construction of filter transfer pumps, cloth media filtration system, turbidity meter, additional chlorination system, distribution pumping system with bladder tank, composite sampling equipment, SCADA, and distribution piping

4. **Reclaimed Water Testing Information.** All applicants must provide reclaimed water testing data for the following parameters. All information reported must be based on data collected through analysis conducted using 40 CFR Part 136 methods. In addition, this data must comply with QA/QC requirements of 40 CFR Part 136 and other appropriate QA/QC requirements for standard methods for analyses not addressed by 40 CFR Part 136. Results shall be reported based on any representative laboratory analysis or expected discharge levels.

PARAMETER	MAXIMUM DAILY VALUE		AVERAGE DAILY VALUE		
	Value	Units	Value	Units	# of Samples
pH (Minimum)	6.0	S.U.			
pH (Maximum)	8.5	S.U.			
Flow Rate	0.5	MGD	0.2	MGD	
CBOD ₅	10	mg/L	Monthly Average		Class A
TSS	N/A				(335-6-20-. 11)
E. Coli	34	col/100 mL	18	col/100 mL	Parameters
Nitrates + Nitrites	10	mg/L	Monthly Average		- system
Turbidity	3	NTU			under
Total Phosphorus	Monitoring only				construction
Total Nitrogen	Monitoring only				

5. If sources holding a State Indirect Discharge (SID) permit contribute discharge to the treatment system, attach a completed Part D of EPA Form 2A, which can be found on the Department's website at <http://adem.alabama.gov/programs/water/waterforms.cnt>.

SECTION C – WASTE STORAGE AND DISPOSAL INFORMATION

1. If not reported under a NPDES permit application, describe the location of all sites used for the storage of solids or liquids that have any potential for accidental discharge to a water of the state, either directly or indirectly via storm sewer, municipal sewer, municipal wastewater treatment plants, or other collection or distribution systems that are located at or operated by the subject existing or proposed RWR-permitted facility. Indicate the location of any potential release areas and provide a map or detailed narrative description of the areas of concern as an attachment to this application:

<u>Description of Waste</u>	<u>Description of Storage Location</u>
Backwash	Existing lagoon cell
_____	_____
_____	_____

2. Describe the location of any sites used for the ultimate disposal of solid or liquid waste materials or residuals (e.g. sludges) generated by any wastewater treatment system located at the facility.

<u>Description of Waste</u>	<u>Quantity (lbs/day)</u>	<u>Disposal Method*</u>
Backwash	TBD (not constructed)	Existing lagoon cell
_____	_____	_____
_____	_____	_____

*Indicate any wastes disposed at an off-site treatment facility and any wastes that are disposed on-site
None

SECTION D – INDUSTRIAL INDIRECT DISCHARGE CONTRIBUTORS

1. List the existing and proposed industrial source wastewater contributions to the municipal wastewater treatment system (Attach other sheets if necessary)

Company Name	Description of Industrial Wastewater	Existing or Proposed?	Flow (MGD)	Subject to SID Permit?
Foster Farms	Meat Packing Plant	Existing	0.1240	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Howling Coyote	Landfill Leachate	Existing	0.0500	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Dana Transport	Tanker Wash Out Facility	Existing	0.0090	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

2. Are industrial wastewater contributions regulated via a locally approved sewer use ordinance? Yes No
If so, please attach a copy of the ordinance.

SECTION E – STORAGE PONDS

1. Attach a copy of the specifications of the Reclaimed Water Pond required by ADEM 335-6-20-.19(2).

2. Reject Water Ponds:

a. Does the facility have a Reject Water Pond? Yes No Not Required

If not required, what alternate discharge option is available?

Existing NPDES discharge

b. What type of liner is used? Synthetic Clay

c. What is the storage capacity of the reject water pond? _____

SECTION F – ENGINEERING REPORT/PLAN AND SPECIFICATION REQUIREMENTS

Any Engineering Report or Plans and Specifications required to be submitted to ADEM by the applicant must be in accordance with ADEM 335-6-20-.07(7)(b), 335-6-20-.15, and 335-6-20-.16.

SECTION G – TOPOGRAPHIC MAPS

Any topographic map(s) required to be submitted to ADEM by the applicant must be in accordance with ADEM 335-6-20-.07(7)(c).

SECTION H – NUTRIENT MANAGEMENT PLANS

Any Nutrient Management Plan required to be submitted to ADEM by the applicant must be in accordance with ADEM 335-6-20-.08(6).

SECTION I – 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 "Signatory Requirements for Permit Applications" (see below).

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



(Signature of Responsible Official)

Jay Reynolds

(Name of Responsible Official-Please type or print)

11/4/25

(Date Signed)

Board Chairman

(Official Title of Responsible Official-Please type or print)

If a Responsible Official other than the person listed in Section A, Item 5 is signing this form, provide the following:

103 East Capitol Street	Demopolis	Alabama	36732
_____ Mailing Street Address or PO Box	_____ Mailing City	_____ State	_____ Mailing Zip Code
Phone Number: 251-583-9878	Email Address (Required): wpate@demopoliswaterworks.com		
_____	_____		

SIGNATORY REQUIREMENTS FOR PERMIT APPLICATIONS

Responsible official is defined as follows:

1. 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
2. In the case of a partnership, by a general partner
3. In the case of a sole proprietorship, by the proprietor, or
4. In the case of a municipal, state, federal, or other public facility, by either a principal executive officer, or a ranking elected official.

Figure 3A - Existing WWTP Process Schematic

AL0043168

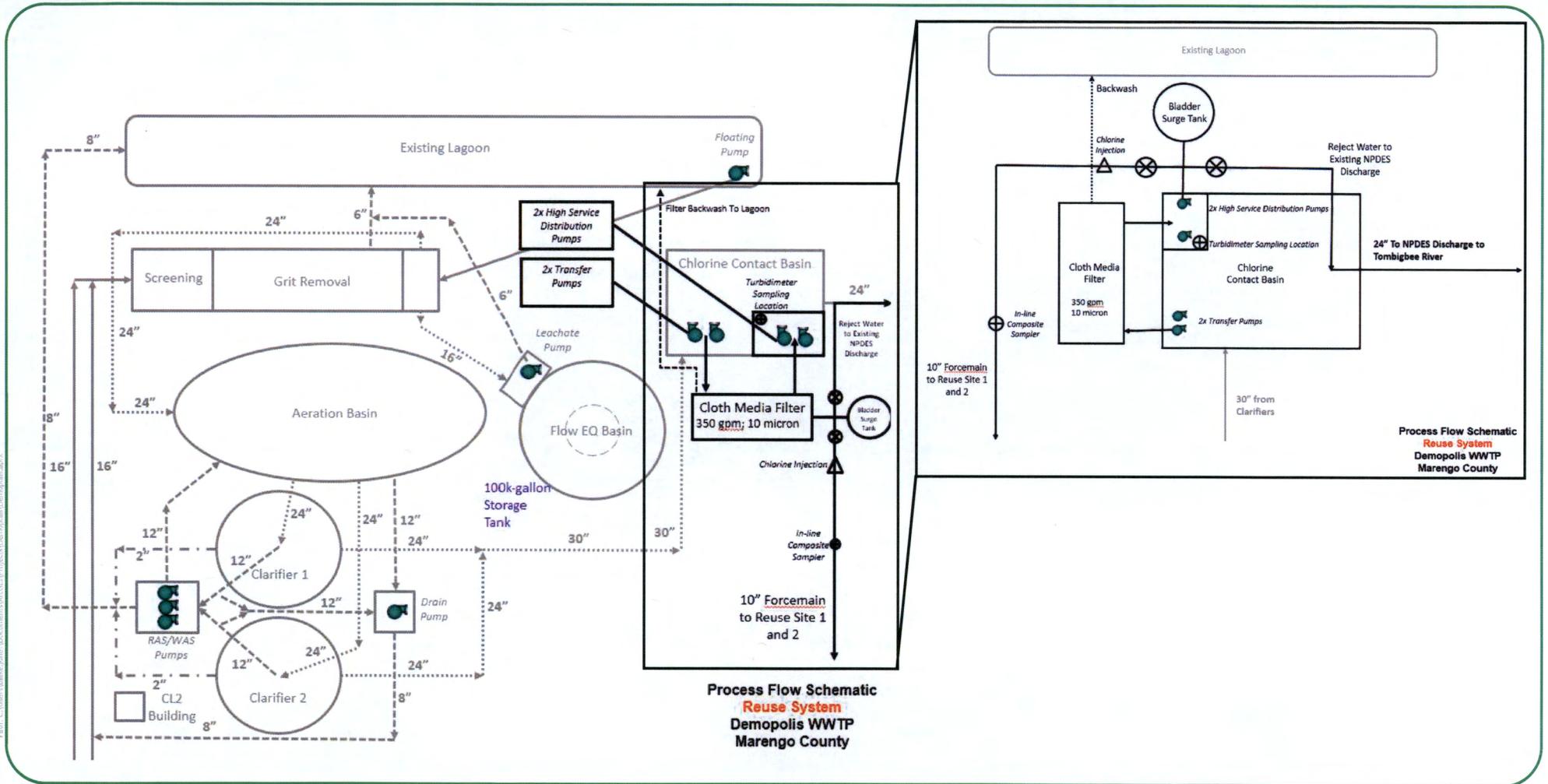
Demopolis, Alabama

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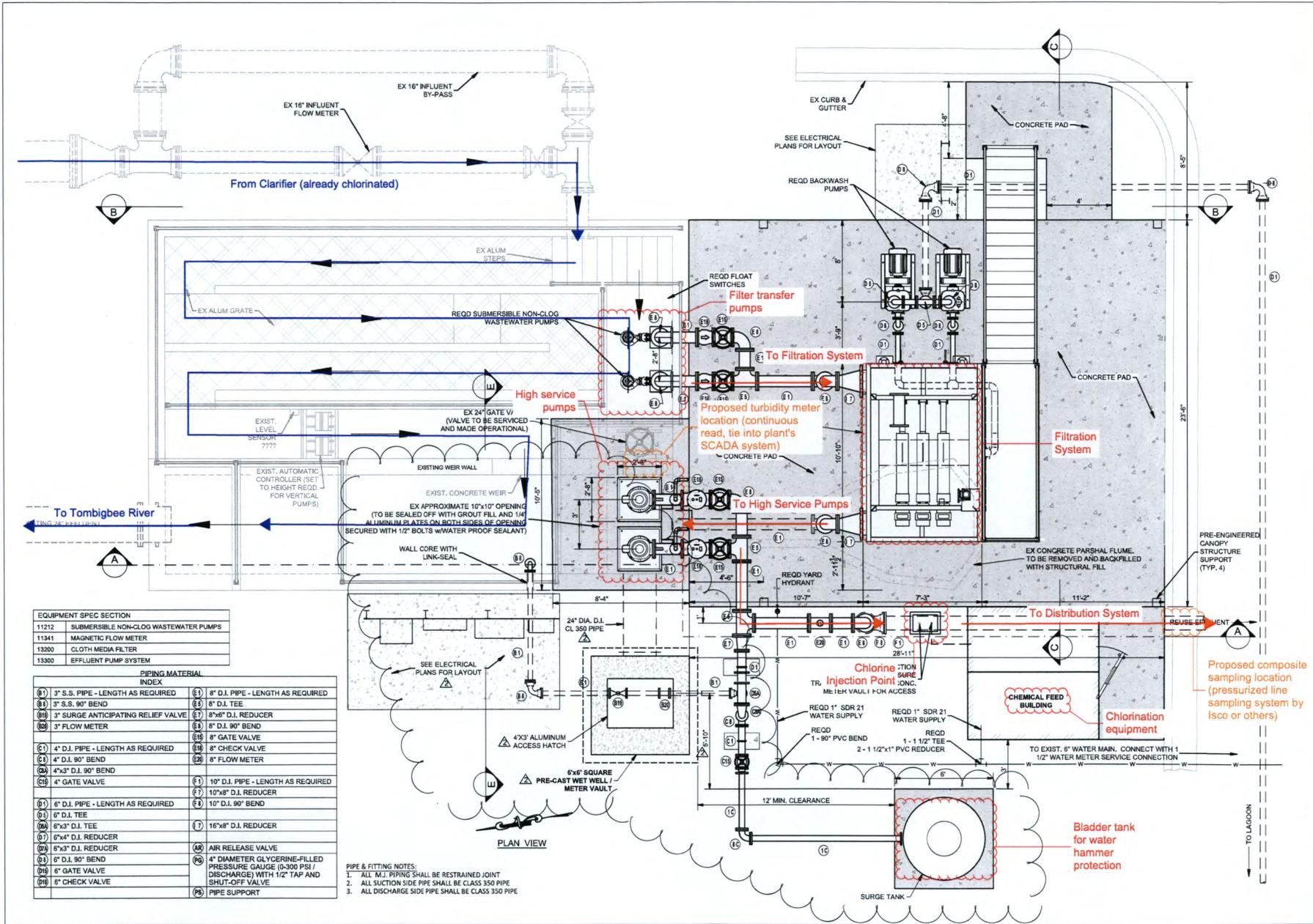
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MUNICIPAL SECTION

OCTOBER 2025



1962 West Main Street
Dothan, AL 36301
(334) 677-9431
www.3notch.com



EQUIPMENT SPEC SECTION	
11212	SUBMERSIBLE NON-CLOG WASTEWATER PUMPS
11241	MAGNETIC FLOW METER
13300	CLOTH MEDIA FILTER
13300	EFFLUENT PUMP SYSTEM

PIPING MATERIAL INDEX			
(B1)	3" S.S. PIPE - LENGTH AS REQUIRED	(E1)	8" D.I. PIPE - LENGTH AS REQUIRED
(B2)	3" S.S. 90° BEND	(E2)	8" D.I. TEE
(B3)	3" SURGE ANTICIPATING RELIEF VALVE	(E3)	8"x6" D.I. REDUCER
(B4)	3" FLOW METER	(E4)	8" D.I. 90° BEND
(C1)	4" D.I. PIPE - LENGTH AS REQUIRED	(E5)	8" GATE VALVE
(C2)	4" D.I. 90° BEND	(E6)	8" CHECK VALVE
(C3)	4"x3" D.I. 90° BEND	(E7)	10"x8" D.I. REDUCER
(C4)	4" GATE VALVE	(E8)	10" D.I. PIPE - LENGTH AS REQUIRED
(D1)	6" D.I. PIPE - LENGTH AS REQUIRED	(E9)	10" D.I. 90° BEND
(D2)	6" D.I. TEE	(F1)	16"x8" D.I. REDUCER
(D3)	6"x3" D.I. TEE	(G1)	16"x4" D.I. REDUCER
(D4)	6"x4" D.I. REDUCER	(G2)	6"x3" D.I. REDUCER
(D5)	6"x3" D.I. REDUCER	(G3)	6" D.I. 90° BEND
(D6)	6" D.I. 90° BEND	(G4)	4" DIAMETER GLYCERINE-FILLED PRESSURE GAUGE (0-300 PSI / DISCHARGE) WITH 1/2" TAP AND SHUT-OFF VALVE
(D7)	6" GATE VALVE	(G5)	6" CHECK VALVE
(D8)	6" CHECK VALVE	(G6)	PIPE SUPPORT

PIPE & FITTING NOTES:
 1. ALL M.J. PIPING SHALL BE RESTRAINED JOINT
 2. ALL SUCTION SIDE PIPE SHALL BE CLASS 350 PIPE
 3. ALL DISCHARGE SIDE PIPE SHALL BE CLASS 350 PIPE



170 E. MAIN ST.
 DOTHAN, AL 36501
 PH: (334) 877-9431

REUSE PUMP STATION PLAN VIEW
 REUSE TREATMENT, PUMPING, AND TRANSMISSION INFRASTRUCTURE
 DEMOPOLIS WATER WORKS AND SEWER BOARD
 MARENGO COUNTY, ALABAMA

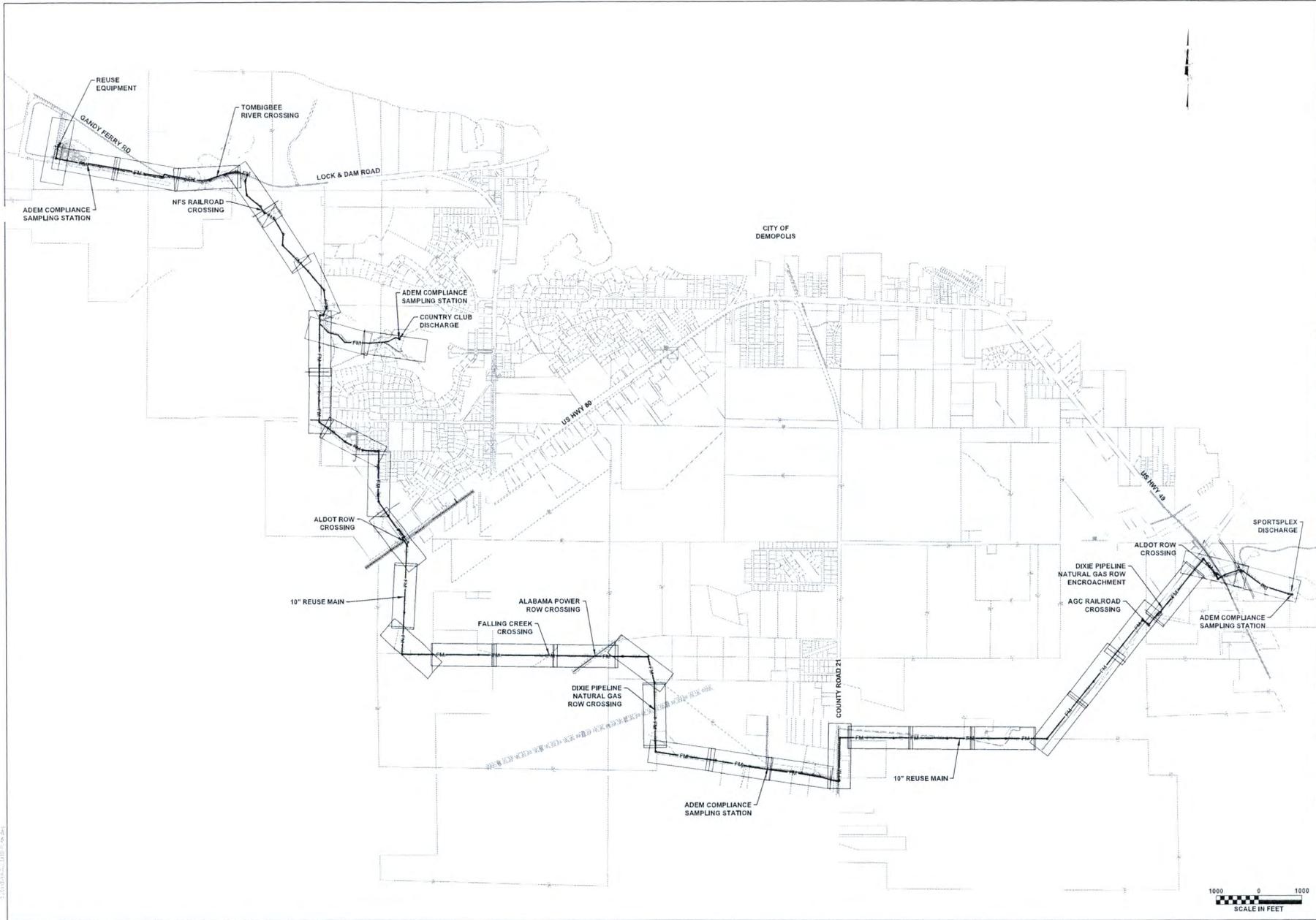


THIS SEAL IS VALID ONLY ON THE ORIGINAL.
 IF NOT ONE INCH ADJUST SIZES ACCORDINGLY.
 SCALE: 3/8"=1'-0"
 DATE: November 2024
 REVISION DATE
 ADD. NO. 2 11.13.24

PROJECT NO. R00162002

SHEET NO. C-401

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170 E. MAIN ST.
DOTHAN, AL 36501
PH: (334) 677-8431

OVERALL REUSE MAIN SITE PLAN
REUSE TREATMENT, PUMPING, AND TRANSMISSION INFRASTRUCTURE
DEMOPOLIS WATER WORKS AND SEWER BOARD
MARENGO COUNTY, ALABAMA



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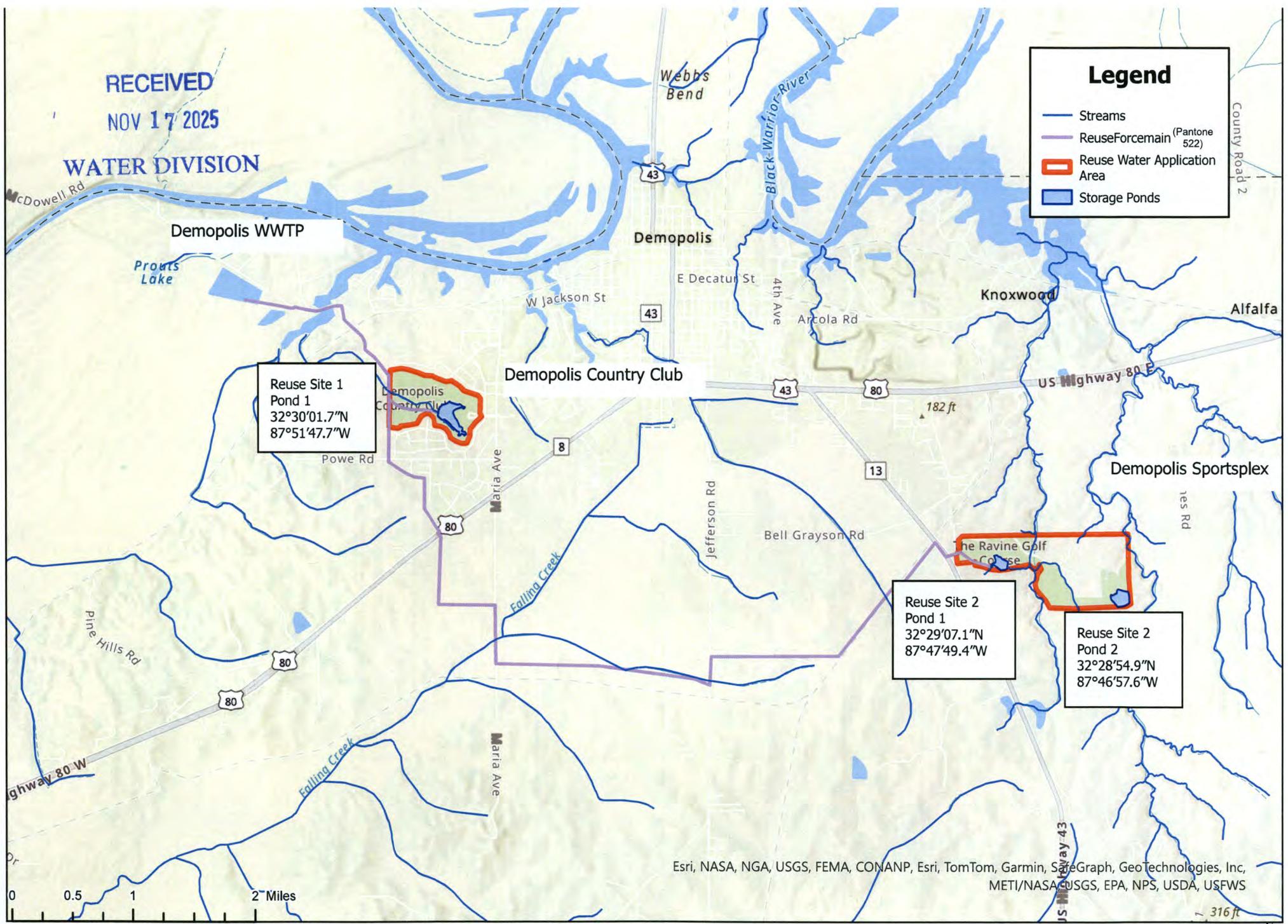
SCALE:	AS SHOWN
DATE:	October 2, 2024
REVISION	DATE
PROJECT NO:	R02162922
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WATER DIVISION



Legend

- Streams
- Reuse Force Main (Pantone 522)
- Reuse Water Application Area
- Storage Ponds

Reuse Site 1
Pond 1
32°30'01.7"N
87°51'47.7"W

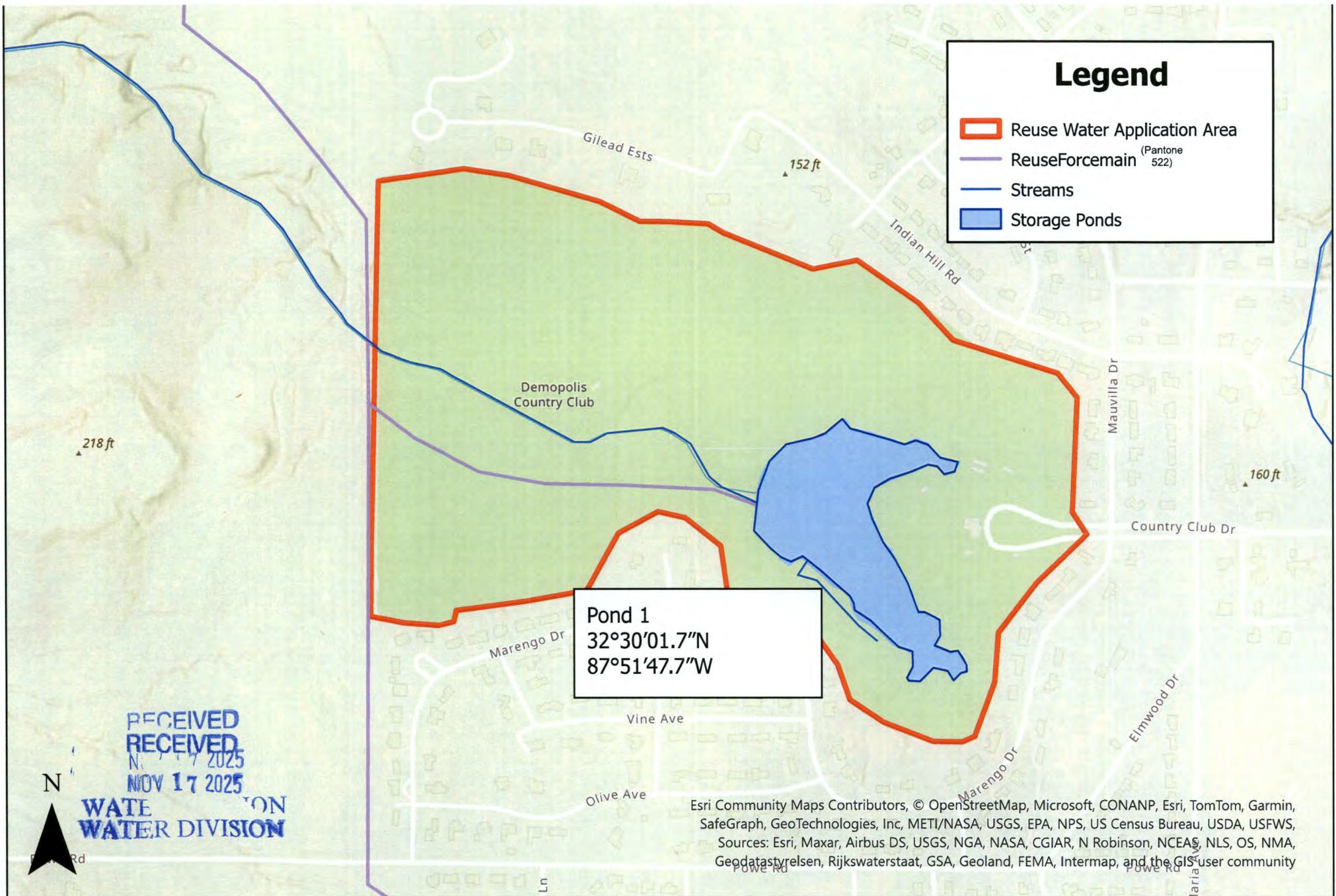
Reuse Site 2
Pond 1
32°29'07.1"N
87°47'49.4"W

Reuse Site 2
Pond 2
32°28'54.9"N
87°46'57.6"W

Esri, NASA, NGA, USGS, FEMA, CONANP, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA, USFWS

Proposed Reuse Force Main Route





Reuse Site 1 - Demopolis Country Club

Reuse main will discharge directly into Pond 1. Reuse water from Pond 1 can be manually pumped Pond 2 by operational staff, as needed.

Legend

- Reuse Water Application Area
- ReuseForcemain (Pantone 522)
- Streams
- Storage Ponds

162 ft

124 ft

The Ravine Golf Course

Sportsplex Rd

Russell Dr

Pond 1
32°29'07.1"N
87°47'49.4"W

Pond 2
32°28'54.9"N
87°46'57.6"W

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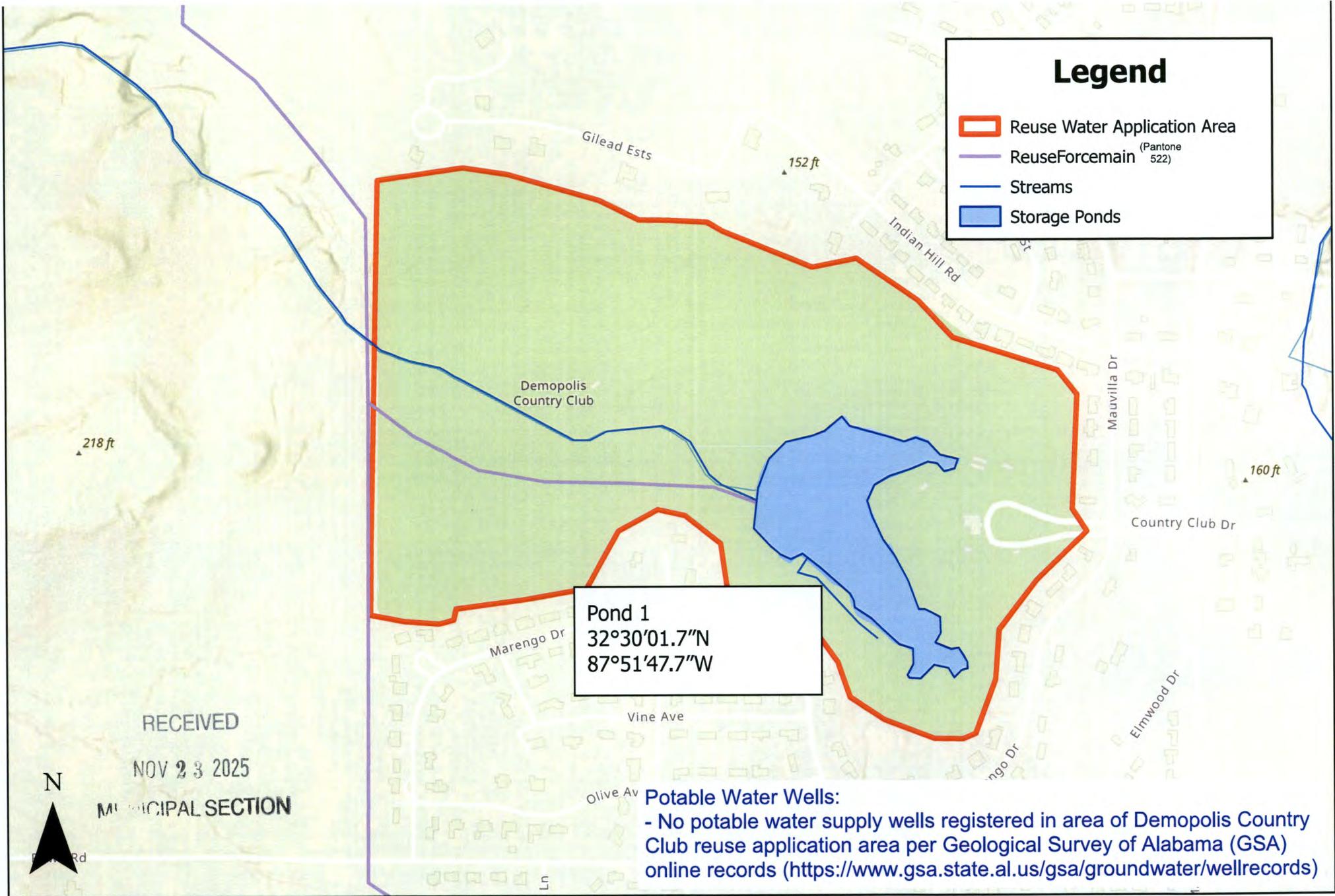
WATER DIVISION



Esri Community Maps Contributors, CONANP
METI/NASA, USGS, EPA, NPS, US Census Bureau,
NGA, NASA, CGIAR, N Robinson, NCEA

GeoTechnologies, Inc,
Kar, Airbus DS, USGS,
Rijkswaterstaat, GSA,
GIS user community

Reuse Site 2 - Demopolis Sportsplex



Reuse Site 1 - Demopolis Country Club

Potable Water Wells:

- One (1) potable water supply well registered in area of Ravine reuse application area per Geological Survey of Alabama (GSA) online records (<https://www.gsa.state.al.us/gsa/groundwater/wellrecords>)

Legend

- Reuse Water Application Area
- ReuseForcemain (Pantone 522)
- Streams
- Storage Ponds

Well Name: N/A
Well No: 091A33002
Type: Domestic
Depth: 890 feet
Status: No longer in use

Pond 1
32°29'07.1"N
87°47'49.4"W

Well Name: Demopolis Water Works and Sewer Board - Well No. 5
Well No: 091A33002
Type: Public
Depth: 980 feet
Status: Inactive

Pond 2
32°28'54.9"N
87°46'57.6"W

GeoTechnologies, Inc,
ar, Airbus DS, USGS,
Rijkswaterstaat, GSA,
GIS user community

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Reuse Site 2 - Demopolis Sportsplex

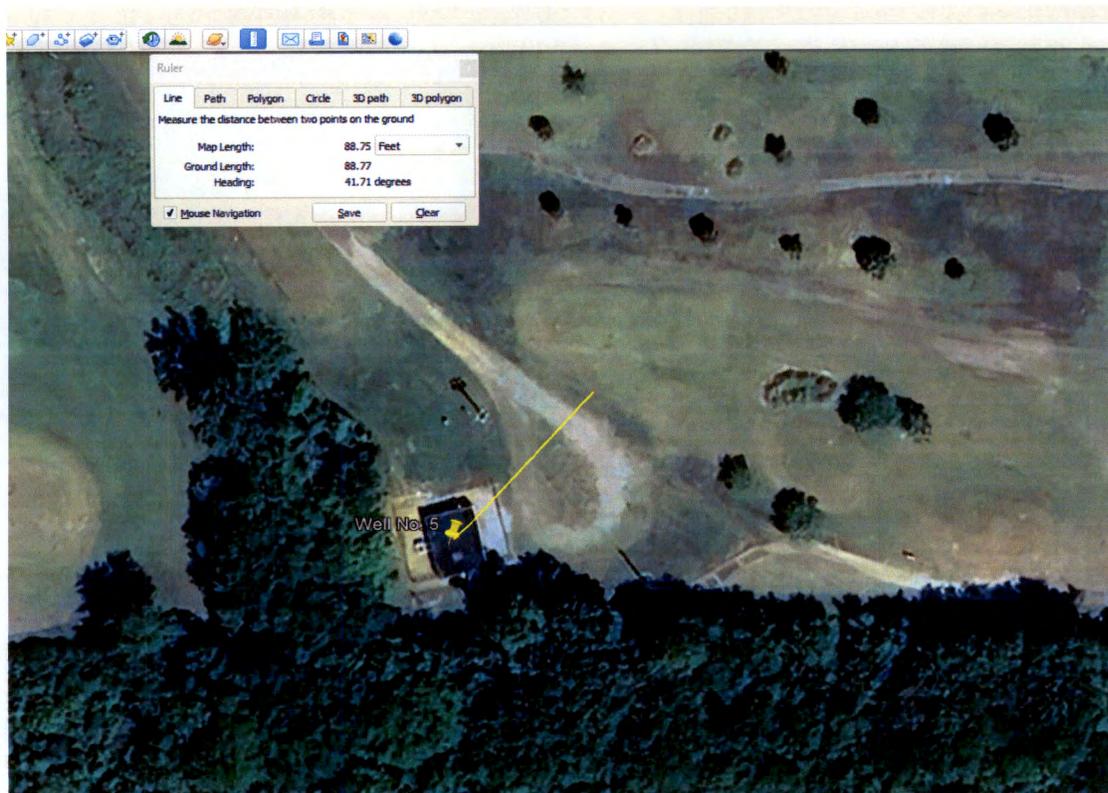
Dansby, Austin

From: Dansby, Austin
Sent: Tuesday, November 25, 2025 9:11 AM
To: Dansby, Austin
Subject: FW: Demopolis Reuse

From: Carmen Chosie <carmen.chosie@3notch.com>
Sent: Monday, November 24, 2025 1:02 PM
To: Dansby, Austin <austin.dansby@adem.alabama.gov>
Subject: RE: Demopolis Reuse

Good afternoon!

Irrigation will not occur within 50 feet of the well – the closest area that will be irrigated is over 85 feet from the well as shown below.



None of the ponds are lined, and Pond 2 is approximately 1,250 feet from the supply well as shown below.



Please let me know if any additional information is needed to finalize the draft permit for review.

Thank you,

Carmen Chosie, PE
Team Leader - Utility



Office 334.677.9431 | Cell 334.423.9852
E-mail carmen.chosie@3notch.com

CDG has changed its name.
[Learn More](#)

JAY REYNOLDS, CHAIRMAN
WATER WORKS & SEWER BOARD
CITY OF DEMOPOLIS
P O BOX 350
DEMOPOLIS AL 36732-0350