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AUTHORIZATION TO DISCHARGE WASTEWATER UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM AND THE ARKANSAS WATER AND AIR POLLUTION CONTROL ACT

In accordance with the provisions of the Arkansas Water and Air Pollution Control Act (Ark. Code Ann. 8-4-101 et seq.), and the Clean Water Act (33 U.S.C. § 1251 et seq.),

City of Arkadelphia Sun Bio Material Linerboard Project

is authorized to discharge treated wastewater from a linerboard mill from a wastewater treatment facility located as follows: US Highway 67 South, Arkadelphia, AR 71923, in Clark County, South of Arkadelphia on US Highway 67 just south and east of the intersection with State Highway 26, located in Clark County Industrial Park.

Facility Coordinates: Latitude: 34° 02' 41.06" N; Longitude: 93° 05' 32.25" W

Discharge is to receiving waters named:

via pipeline to the Ouachita River in Segment 2F of the Ouachita River Basin.

The outfall is located at the following coordinates:

Outfall 001: Latitude: 34° 01' 59" N; Longitude: 93° 00' 07" W

Discharge shall be in accordance with effluent limitations, monitoring requirements, and other conditions set forth in this permit. Per Part III.D.10, the permittee must re-apply 180 days prior to the expiration date below for permit coverage to continue beyond the expiration date.

Effective Date: April 1, 2023 Expiration Date: March 31, 2028

Alan J. York Associate Director, Office of Water Quality Arkansas Department of Energy and Environment Division of Environmental Quality

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PART I PERMIT REQUIREMENTS

SECTION A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS: OUTFALL 001 - treated process wastewater from a linerboard mill.

During the period beginning on the effective date and lasting until the date of expiration, the permittee is authorized to discharge from Outfall 001. Such discharges shall be limited and monitored by the permittee as specified below as well as Parts II and III. See Part IV for all definitions.

Mass Concentration (mg/l, unless otherwise specified) Monthly Daily Monthly Avg. Max. Avg. MGD MGD MGD MGD	e/day totalizing meter
N/A N/A Report, Report, MGD MGD	,
Biochemical Oxygen Demand (BOD ₅) Total Suspended Solids (TSS) (June – October) (November – May) (March - May) (March - May) (March - February) (November – February) Total Oxygen (DO) N/A N/A N/A N/A N/A N/A N/A Report R	,
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Nitrate + Nitrite as Nitrogen $(NO_3 + NO_2 - N)$ Report Repo	/week composite
Temperature N/A N/A 100°F (Inst. Maximum) three/	
Minimum Maximum	
pH N/A N/A $\frac{N/A}{6.0 \text{ s.u.}}$ $\frac{NAMMum}{9.0 \text{ s.u.}}$ once.	e/day grab
Chronic WET Testing ²	
Pimephales promelas (Chronic) ² 7-Day Minimum	
Pass/Fail Lethality (7-day NOEC) TLP6C Report (Pass=0/Fail=1) once/q	quarter composite
Pass/Fail Growth (7-day NOEC) TGP6C Report (Pass=0/Fail=1) once/q	quarter composite
Survival (7-day NOEC) TOP6C Report % once/q	quarter composite
Coefficient of Variation (Growth) TQP6C Report % once/q	quarter composite
Growth (7-day NOEC) TPP6C Report % once/q	
Pass/Fail Retest 1 (7-day NOEC) 22418 Report (Pass=0/Fail=1) once/n	1 -
Pass/Fail Retest 2 (7-day NOEC) 22419 Report (Pass=0/Fail=1) once/n	1 -
Pass/Fail Retest 3 (7-day NOEC) 51444 Report (Pass=0/Fail=1) once/n	month ³ composite
N/A	
Ceriodaphnia dubia (Chronic) ² 7-Day Minimum 7-Day Minimum	
Pass/Fail Lethality (7-day NOEC) TLP3B Report (Pass=0/Fail=1) once/q	
Pass/Fail Reproduction (7-day NOEC) TGP3B Report (Pass=0/Fail=1) once/q	
Survival (7-day NOEC) TOP3B Report % once/q	
Coefficient of Variation (Reproduction) TQP3B Report % once/q Reproduction (7-day NOEC) TPP3B Report % once/q	
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- 1. The permittee must monitor the color of the receiving stream at one location upstream of the outfall (but downstream of any other nearby dischargers) and at one location downstream of the outfall (but upstream of any other nearby dischargers). The difference in color (downstream upstream) between the two samples must be submitted on the DMR. The tests must be conducted using an EPA approved test method. The color must be measured on the platinum-cobalt scale.
- ^{2.} See Part II.5 (WET Testing Requirements).
- 3. CONDITIONAL REPORTING: Use only if conducting retests due to a test failure (demonstration of significant toxic effects at or below the critical dilution). If testing on a quarterly basis, the permittee may substitute one of the retests in lieu of one routine toxicity test. If retests are not required, Report NODI=9 (Conditional Monitoring Not Required This Period) under retest parameters (reported on a quarterly DMR).

Oil, grease, or petrochemical substances shall not be present in receiving waters to the extent that they produce globules or other residue or any visible, colored film on the surface or coat the banks and/or bottoms of the waterbody or adversely affect any of the associated biota. There shall be no visible sheen as defined in Part IV of this permit.

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge during the entire monitoring period. Samples shall be taken after the final treatment unit, prior to the receiving stream.

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SECTION B. PERMIT COMPLIANCE SCHEDULE

1. The permittee must conduct a full priority pollutant scan (PPS) within 90 days of the first discharge from the wastewater treatment plant. The results of the PPS must be submitted to the Division within 30 days of the collection of the samples. The Division reserves the right to reopen this permit to include additional limits based on the results of the PPS.

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PART II OTHER CONDITIONS

- 1. The operator of this wastewater treatment facility shall hold an Advanced Industrial license from the State of Arkansas in accordance with APC&EC Rule 3.
- 2. In accordance with 40 C.F.R. §§ 122.62(a)(2) and 124.5, this permit may be reopened for modification or revocation and/or reissuance to require additional monitoring and/or effluent limitations when new information is received that actual or potential exceedance of State water quality criteria and/or narrative criteria are determined to be the result of the permittee's discharge(s) to a relevant water body or a Total Maximum Daily Load (TMDL) is established or revised for the water body that was not available at the time of the permit issuance that would have justified the application of different permit conditions at the time of permit issuance.

3. Other Specified Monitoring Requirements

The permittee may use alternative appropriate monitoring methods and analytical instruments other than as specified in Part I Section A of the permit without a major permit modification under the following conditions:

- The monitoring and analytical instruments are consistent with accepted scientific practices.
- The requests shall be submitted in writing to the Permits Branch of the Office of Water Quality of the DEQ for use of the alternate method or instrument.
- The method and/or instrument is in compliance with 40 C.F.R. Part 136 or approved in accordance with 40 C.F.R. § 136.5.
- All associated devices are installed, calibrated, and maintained to ensure the accuracy of the measurements and are consistent with the accepted capability of that type of device. The calibration and maintenance shall be performed as part of the permittee's laboratory Quality Assurance/Quality Control (QA/QC) program.

Upon written approval of the alternative monitoring method and/or analytical instruments, these methods or instruments must be consistently utilized throughout the monitoring period. DEQ must be notified in writing and the permittee must receive written approval from DEQ if the permittee decides to return to the original permit monitoring requirements.

4. Best Management Practices (BMPs), as defined in Part IV.7, must be implemented for the facility to prevent or reduce the pollution of waters of the State from stormwater runoff, spills or leaks, and/or waste disposal. The permittee must amend the BMPs whenever there is a change in the facility or a change in the operation of the facility.

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5. Clean Water Act § 316(b) – Cooling Water Intake Structure Requirements

A. The permittee shall operate a closed-cycle recirculating cooling water system by using cooling towers to remove waste heat from process water for reuse within the facility.

- B. The permittee shall maintain records of daily volume of water withdrawn at the CWIS and daily volume of water used for cooling purposes. At the time of the next renewal, the permittee shall report all monthly averages determined from the daily volumes with the permit renewal application, and the Division will review these records for comparison with the 25% threshold stated in 40 C.F.R. § 125.81(c). If any monthly average volume of water used for cooling purposes equals or exceeds 25% of the monthly average of total water withdrawn at the CWIS, the Division will add the applicable monitoring requirements in 40 C.F.R. § 125.87 and applicable recordkeeping requirements in 40 C.F.R. § 125.88, at the next permit renewal.
- C. The CWIS shall employ screen(s) that do not exceed a maximum through-screen velocity of 0.5 feet per second for each screen at the design intake flow. Each screen face shall be oriented parallel to the flow direction in the Ouachita River to maximize the potential sweep velocity of the Ouachita River to overcome the approach velocity. The screens shall be operated at the lowest submerged elevation practical. Calculations demonstrating maximum screen velocity at design intake flow less than or equal to 0.5 feet per second per screen shall be submitted with the construction permit application for this facility after screen design is finalized.
- D. The permittee shall operate an intake pressure and intake flow monitoring device that will indicate reduced open screen area. The intake pumps shall be equipped with an alert system that will notify the operator of inadequate pressure for pump operation. Records of intake pressure shall be checked and logged daily, kept on site, and made available to Division personnel upon request.
- E. The permittee shall operate an air burst system on each intake screen to mitigate screen clogging. The intake pressure monitoring device shall be used to determine necessary frequency of air burst. Air burst operation events shall be logged, kept on site, and made available to Division personnel upon request.
- F. The permittee shall inspect each intake screen at least once per year by a diver or remote operated video unit. Records of the annual screen inspections shall be kept on site and made available to Division personnel upon request.
- 6. The permittee must submit Material Safety Data Sheets (MSDS) for each chemical, including nutrients, add to the wastewater for treatment purposes. The Division reserves the right to reopen the permit to include additional monitoring requirements based on the composition of chemicals, including nutrients added to the wastewater.
- 7. The permittee and linerboard mill being served by the wastewater treatment plan (WWTP) permitted by this NPDES permit must maintain an agreement for the treatment of wastewater from the linerboard mill at the WWTP. The agreement must address notifications that the

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linerboard mill must provide to the City of Arkadelphia regarding upset conditions at the linerboard mill, changes which will affect the characteristics of the wastewater sent to the WWTP, etc.

- 8. The permittee must obtain a State Construction Permit for a wastewater treatment system and install the system in accordance with approved plans and specifications prior to the discharge of any wastewaters under this NPDES permit.
- 9. The permittee has certified that no chlorophenolic biocides will be used. Any anticipated use of chlorophenolic biocides will require notification to ADEQ as specified in 40 C.F.R. § 122.61(a) and will require a major modification of this permit.
- 10. Only wastewater from the linerboard mill may be discharged under this permit. The discharge of any other wastewaters under this NPDES permit will require a major permit modification.

11.WHOLE EFFLUENT TOXICITY TESTING (7-DAY CHRONIC NOEC FRESHWATER)

A. SCOPE AND METHODOLOGY

i. The permittee shall test the effluent for toxicity in accordance with the provisions in this section.

APPLICABLE TO FINAL OUTFALL(S): 001

REPORTED ON DMR AS FINAL OUTFALL: 001

CRITICAL DILUTION (%): 23%

EFFLUENT DILUTION SERIES (%): 10%, 13%, 17%, 23%, 30%

TESTING FREQUENCY: once/quarter

COMPOSITE SAMPLE TYPE: Defined in Paragraph C.iv.a

TEST SPECIES/METHODS: 40 C.F.R. Part 136

Ceriodaphnia dubia chronic static renewal survival and reproduction test, Method 1002.0, EPA-821-R-02-013, or the most recent update thereof. This test should be terminated when 60% of the surviving females in the control produce three broods or at the end of eight days, whichever comes first.

Pimephales promelas (Fathead minnow) chronic static renewal 7-day larval survival and growth test, Method 1000.0, EPA-821-R-02-013, or the most recent update thereof. A minimum of five (5) replicates with eight (8) organisms per replicate must be used in the control and in each effluent dilution of this test.

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ii. The NOEC (No Observed Effect Concentration) is herein defined as the greatest effluent dilution at and below which toxicity (lethal or sub-lethal) that is statistically different from the control (0% effluent) at the 95% confidence level does not occur. Chronic lethal test failure is defined as a demonstration of a statistically significant lethal effect at test completion to a test species at or below the critical dilution. Chronic sub-lethal test failure is defined as a demonstration of a statistically significant sub-lethal effect (i.e., growth or reproduction) at test completion to a test species at or below the critical dilution.

iii. This permit may be reopened to require whole effluent toxicity limits, chemical specific effluent limits, additional testing, and/or other appropriate actions to address toxicity.

B. PERSISTENT LETHAL and/or SUB-LETHAL EFFECTS

The requirements of this subsection apply only when a toxicity test demonstrates significant lethal and/or sub-lethal effects at or below the critical dilution. The purpose of retests is to determine the duration of a toxic event. A test that meets all test acceptability criteria and demonstrates significant toxic effects does not need additional confirmation. Such testing cannot confirm or disprove a previous test result.

If a frequency reduction, as specified in Item F, has been granted and any valid test demonstrates significant lethal or sub-lethal effects to a test species at or below the critical dilution, the frequency of testing for that species is automatically increased to once per quarter for the life of the permit. In addition:

i. Part I Testing Frequency Other Than Monthly

- a. The permittee shall conduct a total of three (3) retests for any species that demonstrates significant toxic effects at or below the critical dilution. The retests shall be conducted monthly during the next three consecutive months. If testing on a quarterly basis, the permittee may substitute one of the retests in lieu of one scheduled toxicity test. A full report shall be prepared for each test required by this section in accordance with procedures outlined in Item D of this section and submitted with the period discharge monitoring report (DMR) to the permitting authority for review.
- b. IF LETHAL EFFECTS HAVE BEEN DEMONSTRATED If any of the retests demonstrates significant lethal effects at or below the critical dilution, the permittee shall initiate Toxicity Reduction Evaluation (TRE) requirements as specified in Item E of this section. The permittee shall notify DEQ in writing within 5 days of the failure of any retest, and the TRE initiation date will be the test completion date of the first failed retest. A TRE may also be required due to a demonstration of intermittent lethal effects at or below the critical dilution, or for failure to perform the required retests. A TRE required based on lethal effects should consider any sub-lethal effects as well.

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c. IF SUB-LETHAL EFFECTS ONLY HAVE BEEN DEMONSTRATED If any two of the three retests demonstrates significant sub-lethal effects at or below the critical dilution, the permittee shall initiate the Sub-Lethal Toxicity Reduction Evaluation (TRE_{SL}) requirements as specified in Item E of this section. The permittee shall notify DEQ in writing within 5 days of the failure of any retest, and the Sub-Lethal Effects TRE initiation date will be the test completion date of the first failed retest. A TRE may also be required for failure to perform the required retests.

d. The provisions of Item B.i.a are suspended upon submittal of the TRE Action Plan.

C. <u>REQUIRED TOXICITY TESTING CONDITIONS</u>

i. Test Acceptance

The permittee shall repeat a test, including the control and all effluent dilutions, if the procedures and quality assurance requirements defined in the test methods or in this permit are not satisfied, including the following additional criteria:

- a. The toxicity test control (0% effluent) must have survival equal to or greater than 80%.
- b. The mean number of *Ceriodaphnia dubia* neonates produced per surviving female in the control (0% effluent) must be 15 or more.
- c. 60% of the surviving control females must produce three broods.
- d. The mean dry weight of surviving Fathead minnow larvae at the end of the 7 days in the control (0% effluent) must be 0.25 mg per larva or greater.
- e. The percent coefficient of variation between replicates shall be 40% or less in the control (0% effluent) for: the young of surviving females in the *Ceriodaphnia dubia* reproduction test; the growth and survival endpoints of the Fathead minnow test.
- f. The percent coefficient of variation between replicates shall be 40% or less in the critical dilution, <u>unless</u> significant lethal or sub-lethal effects are exhibited for: the young of surviving females in the *Ceriodaphnia dubia* reproduction test; the growth and survival endpoints of the Fathead minnow test.
- g. If a test passes, yet the percent coefficient of variation between replicates is greater than 40% in the control (0% effluent) and/or in the critical dilution for: the young of surviving females in the *Ceriodaphnia dubia* reproduction test; the growth and survival endpoints of the Fathead minnow test, the test is determined to be invalid. A repeat test shall be conducted within the required reporting period of any test determined to be invalid.

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h. If a test fails, test failure may not be construed or reported as invalid due to a coefficient of variation value of greater than 40%.

- i. A Percent Minimum Significant Difference (PMSD) range of 13 47 for *Ceriodaphnia dubia* reproduction;
- j. A PMSD range of 12 30 for Fathead minnow growth.

ii. Statistical Interpretation

- a. For the *Ceriodaphnia dubia* survival test, the statistical analyses used to determine if there is a significant difference between the control and the critical dilution shall be Fisher's Exact Test as described in EPA/821/R-02-013 or the most recent update thereof.
- b. For the *Ceriodaphnia dubia* reproduction test and the Fathead minnow larval survival and growth test, the statistical analyses used to determine if there is a significant difference between the control and the critical dilution shall be in accordance with the methods for determining the No Observed Effect Concentration (NOEC) as described in EPA/821/R-02-013 or the most recent update thereof.
- c. If the conditions of Test Acceptability are met in Item C.i above and the percent survival of the test organism is equal to or greater than 80% in the critical dilution concentration and all lower dilution concentrations, the test shall be considered to be a passing test, and the permittee shall report a survival NOEC of not less than the critical dilution for the DMR reporting requirements found in Item D below.

iii. Dilution Water

- a. Dilution water used in the toxicity tests will be receiving water collected as close to the point of discharge as possible but unaffected by the discharge. The permittee shall substitute synthetic dilution water of similar pH, hardness, and alkalinity to the closest downstream perennial water for;
 - (1) toxicity tests conducted on effluent discharges to receiving water classified as intermittent streams; and
 - (2) toxicity tests conducted on effluent discharges where no receiving water is available due to zero flow conditions.
- b. If the receiving water is unsatisfactory as a result of instream toxicity (fails to fulfill the test acceptance criteria of Item C.i), the permittee may substitute synthetic dilution water for the receiving water in all subsequent tests provided the unacceptable receiving water test met the following stipulations:

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(1) a synthetic dilution water control which fulfills the test acceptance requirements of Item C.i was run concurrently with the receiving water control;

- (2) the test indicating receiving water toxicity has been carried out to completion (i.e., 7 days);
- (3) the permittee includes all test results indicating receiving water toxicity with the full report and information required by Item D below; and
- (4) the synthetic dilution water shall have a pH, hardness, and alkalinity similar to that of the receiving water or closest downstream perennial water not adversely affected by the discharge, provided the magnitude of these parameters will not cause toxicity in the synthetic dilution water.

iv. Samples and Composites

- a. The permittee shall collect a minimum of three flow-weighted composite samples from the outfall(s) listed at Item A.i above. Unless otherwise stated in this section, a composite sample for WET shall consist of a minimum of 12 subsamples gathered at equal time intervals during a 24-hour period.
- b. The permittee shall collect second and third composite samples for use during 24-hour renewals of each dilution concentration for each test. The permittee must collect the composite samples such that the effluent samples, on use, are representative of any periodic episode of chlorination, biocide usage or other potentially toxic substance discharged on a regular or intermittent basis.
- c. The permittee must collect all three flow-weighted composite samples within the monitoring period. Second and/or third composite samples shall not be collected into the next monitoring period; such tests will be determined to not meet either reporting period requirements. Monitoring period definitions are listed in Part IV.
- d. The permittee must collect the composite samples so that the maximum holding time for any effluent sample shall not exceed 72 hours. The permittee must have initiated the toxicity test within 36 hours after the collection of the last portion of the first composite sample. Samples shall be chilled to between 0 and 6 degrees Centigrade during collection, shipping, and/or storage.
- e. If the flow from the outfall(s) being tested ceases during the collection of effluent samples, the requirements for the minimum number of effluent samples, the minimum number of effluent portions and the sample holding time are waived during that sampling period. However, the permittee must have collected an effluent composite sample volume during the period of discharge that is sufficient to complete the required toxicity tests with daily renewal of effluent. When possible, the effluent samples used for the toxicity tests shall be collected on separate days if the discharge occurs over multiple days. The effluent composite

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sample collection duration and the static renewal protocol associated with the abbreviated sample collection must be documented in the full report required in Item D of this section.

- f. <u>MULTIPLE OUTFALLS</u>: If the provisions of this section are applicable to multiple outfalls, the permittee shall combine the composite effluent samples in proportion to the average flow from the outfalls listed in Item A.i. above for the day the sample was collected. The permittee shall perform the toxicity test on the flow-weighted composite of the outfall samples.
- g. If chlorination is part of the treatment process, the permittee shall not allow the sample to be dechlorinated at the laboratory. At the time of sample collection the permittee shall measure the TRC of the effluent. The measured concentration of TRC for each sample shall be included in the lab report submitted by the permittee.

D. REPORTING

- i. The permittee shall prepare a full report of the results of all tests conducted pursuant to this section in accordance with the Report Preparation Section of EPA/821/R-02-013, or the most current publication, for every valid or invalid toxicity test initiated whether carried to completion or not. The permittee shall retain each full report pursuant to the provisions of PART III.C.7 of this permit. The permittee shall submit full reports. For any test or retest which fails, is considered invalid, or which is terminated early for any reason, the full report must be submitted for agency review.
- ii. A valid test for each species must be reported on the DMR during each reporting period specified in PART I of this permit. The full reports for all valid tests, invalid tests, repeat tests (for invalid tests), and retests (for tests previously failed) performed during the reporting period must be attached to the DMR for Agency review.
- iii. The permittee shall submit the results of each valid toxicity test and retest on the subsequent DMR for that reporting period in accordance with PART III.D.4 of this permit, as follows below. Only results of valid tests are to be reported on the DMR.
 - a. *Pimephales promelas* (Fathead minnow)
 - (1) If the No Observed Effect Concentration (NOEC) for survival is less than the critical dilution, enter a "1"; otherwise, enter a "0" for Parameter No. TLP6C
 - (2) Report the NOEC value for survival, Parameter No. TOP6C
 - (3) Report the NOEC value for growth, Parameter No. TPP6C

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(4) If the NOEC for growth is less than the critical dilution, enter a "1"; otherwise, enter a "0" for Parameter No. TGP6C

- (5) Report the highest (critical dilution or control) Coefficient of Variation for growth, Parameter No. TQP6C
- (6) If conducting retests due to a test failure (demonstration of significant toxic effects at or below the critical dilution):
 - (A) Consecutive Monthly Retest 1: If the NOEC (lowest lethal or sublethal) for *P. promelas* is less than the critical dilution, enter a "1"; otherwise, enter a "0" under Parameter No. 22418 (reported on quarterly DMR);
 - (B) Consecutive Monthly Retest 2: If the NOEC (lowest lethal or sublethal) for *P. promelas* is less than the critical dilution, enter a "1"; otherwise, enter a "0" under Parameter No. 22419 (reported on quarterly DMR);
 - (C) Consecutive Monthly Retest 3: If the NOEC (lowest lethal or sublethal) for *P. promelas* is less than the critical dilution, enter a "1"; otherwise, enter a "0" under Parameter No. 51444 (reported on quarterly DMR);
 - (D) If testing on a quarterly basis, the permittee may substitute one of the retests in lieu of one scheduled toxicity test;
 - (E) If retests are not required, Report NODI=9 (Conditional Monitoring Not Required This Period) under Parameter Nos. 22418, 22419, 51444 (reported on quarterly DMR)

b. Ceriodaphnia dubia

- (1) If the NOEC for survival is less than the critical dilution, enter a "1"; otherwise, enter a "0" for Parameter No. TLP3B
- (2) Report the NOEC value for survival, Parameter No. TOP3B
- (3) Report the NOEC value for reproduction, Parameter No. TPP3B
- (4) If the NOEC for reproduction is less than the critical dilution, enter a "1"; otherwise, enter a "0" for Parameter No. TGP3B
- (5) Report the higher (critical dilution or control) Coefficient of Variation for reproduction, Parameter No. TQP3B
- (6) If conducting retests due to a test failure (demonstration of significant toxic effects at or below the critical dilution):

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(A) Consecutive Monthly Retest 1: If the NOEC (lowest lethal or sublethal) for *C. dubia* is less than the critical dilution, enter a "1"; otherwise, enter a "0" under Parameter No. 22415 (reported on quarterly DMR);

- (B) Consecutive Monthly Retest 2: If the NOEC (lowest lethal or sublethal) for *C. dubia* is less than the critical dilution, enter a "1"; otherwise, enter a "0" under Parameter No. 22416 (reported on quarterly DMR);
- (C) Consecutive Monthly Retest 3: If the NOEC (lowest lethal or sublethal) for *C. dubia* is less than the critical dilution, enter a "1"; otherwise, enter a "0" under Parameter No. 51443 (reported on quarterly DMR);
- (D) If testing on a quarterly basis, the permittee may substitute one of the retests in lieu of one scheduled toxicity test;
- (E) If retests are not required, Report NODI=9 (Conditional Monitoring Not Required This Period) under Parameter Nos. 22415, 22416, and 51443 (reported on quarterly DMR)

iv. DMR parameters

Report the following parameters on the DMR:

(a) Scheduled DMR: TLP6C, TOP6C, TPP6C, TGP6C, TQP6C, 22418, 22419, 51444, TLP3B, TOP3B, TPP3B, TGP3B, TQP3B, 22415, 22416, and 51443.

E. TOXICITY REDUCTION EVALUATIONS (TREs)

TREs for lethal and sub-lethal effects are performed in a very similar manner. EPA Region 6 is currently addressing TREs as follows: a sub-lethal TRE (TREsL) is triggered based on three sub-lethal test failures while a lethal effects TRE (TREL) is triggered based on only two test failures for lethality. In addition, EPA Region 6 will consider the magnitude of toxicity and use flexibility when considering a TREsL where there are no effects at effluent dilutions of 75% or lower.

i. Within ninety (90) days of confirming toxicity, as outlined above, the permittee shall submit a Toxicity Reduction Evaluation (TRE) Action Plan and Schedule for conducting a TRE. The TRE Action Plan shall specify the approach and methodology to be used in performing the TRE. A Toxicity Reduction Evaluation is an investigation intended to determine those actions necessary to achieve compliance with water quality-based effluent limits by reducing an effluent's toxicity to an acceptable level. A TRE is defined as a step-wise process which combines toxicity testing and analyses of the physical and chemical

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characteristics of a toxic effluent to identify the constituents causing effluent toxicity and/or treatment methods which will reduce the effluent toxicity. The goal of the TRE is to maximally reduce the toxic effects of effluent at the critical dilution and includes the following:

a. Specific Activities. The plan shall detail the specific approach the permittee intends to utilize in conducting the TRE. The approach may include toxicity characterizations, identifications and confirmation activities, evaluation, treatability studies, or alternative approaches. When the permittee conducts Toxicity Characterization Procedures, the permittee shall perform multiple characterizations and follow the procedures specified in the documents "Methods for Aquatic Toxicity Identification Evaluations: Phase I Toxicity Characterization Procedures" (EPA-600/6-91/003) and "Toxicity Identification Evaluation: Characterization of Chronically Toxic Effluents, Phase I" (EPA-600/6-91/005F), or alternate procedures. When the permittee conducts Toxicity Identification Evaluations and Confirmations, the permittee shall perform multiple identifications and follow the methods specified in the documents "Methods for Aquatic Toxicity Identification Evaluations, Phase II Toxicity Identification Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/080) and "Methods for Aquatic Toxicity Identification Evaluations, Phase III Toxicity Confirmation Procedures for Samples Exhibiting Acute and Chronic Toxicity" (EPA/600/R-92/081), as appropriate.

The documents referenced above may be obtained through the <u>National</u> <u>Technical Information Service</u> (NTIS) by phone at (703) 487-4650, or by writing:

U.S. Department of Commerce National Technical Information Service 5285 Port Royal Road Springfield, VA 22161

- b. Sampling Plan (e.g., locations, methods, holding times, chain of custody, preservation, etc.). The effluent sample volume collected for all tests shall be adequate to perform the toxicity test, toxicity characterization, identification and confirmation procedures, and conduct chemical specific analyses when a probable toxicant has been identified;
- c. Where the permittee has identified or suspects specific pollutant(s) and/or source(s) of effluent toxicity, the permittee shall conduct concurrent with toxicity testing, chemical specific analyses for the identified and/or suspected pollutant(s) and/or source(s) of effluent toxicity. Where lethality was demonstrated within 48 hours of test initiation, each composite sample shall be analyzed independently. Otherwise, the permittee may substitute a

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composite sample, comprised of equal portions of the individual composite samples, for the chemical specific analysis;

- d. Quality Assurance Plan (e.g., QA/QC implementation, corrective actions, etc.); and
- e. Project Organization (e.g., project staff, project manager, consulting services, etc.).
- ii. The permittee shall initiate the TRE Action Plan within thirty (30) days of plan and schedule submittal. The permittee shall assume all risks for failure to achieve the required toxicity reduction.
- iii. The permittee shall submit a quarterly TRE Activities Report, with the Discharge Monitoring Report in the months of January, April, July and October, containing information on toxicity reduction evaluation activities including:
 - a. any data and/or substantiating documentation which identifies the pollutant(s) and/or source(s) of effluent toxicity;
 - b. any studies/evaluations and results on the treatability of the facility's effluent toxicity; and
 - c. any data which identifies effluent toxicity control mechanisms that will reduce effluent toxicity to the level necessary to meet no significant toxicity at the critical dilution.
- iv. The permittee shall submit a Final Report on Toxicity Reduction Evaluation Activities no later than twenty-eight (28) months from confirming toxicity in the retests, which provides information pertaining to the specific control mechanism selected that will, when implemented, result in reduction of effluent toxicity to no significant toxicity at the critical dilution. The report will also provide a specific corrective action schedule for implementing the selected control mechanism.
- v. Quarterly testing during the TRE is a minimum monitoring requirement. EPA recommends that permittees required to perform a TRE not rely on quarterly testing alone to ensure success in the TRE, and that additional screening tests be performed to capture toxic samples for identification of toxicants. Failure to identify the specific chemical compound causing toxicity test failure will normally result in a permit limit for whole effluent toxicity limits per federal regulations at 40 CFR 122.44(d)(1)(v).

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PART III STANDARD CONDITIONS

SECTION A – GENERAL CONDITIONS

1. **Duty to Comply**

The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the federal Clean Water Act and the Arkansas Water and Air Pollution Control Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; and/or for denial of a permit renewal application. Any values reported in the required Discharge Monitoring Report (DMR) which are in excess of an effluent limitation specified in Part I shall constitute evidence of violation of such effluent limitation and of this permit.

2. Penalties for Violations of Permit Conditions

The Arkansas Water and Air Pollution Control Act provides that any person who violates any provisions of a permit issued under the Act shall be guilty of a misdemeanor and upon conviction thereof shall be subject to imprisonment for not more than one (1) year, or a fine of not more than twenty-five thousand dollars (\$25,000) or by both such fine and imprisonment for each day of such violation. Any person who violates any provision of a permit issued under the Act may also be subject to civil penalty in such amount as the court shall find appropriate, not to exceed ten thousand dollars (\$10,000) for each day of such violation. The fact that any such violation may constitute a misdemeanor shall not be a bar to the maintenance of such civil action.

3. **Permit Actions**

This permit may be modified, revoked and reissued, or terminated for cause including, but not limited to the following:

- A. Violation of any terms or conditions of this permit.
- B. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts.
- C. A change in any conditions that requires either a temporary or permanent reduction or elimination of the authorized discharge.
- D. A determination that the permitted activity endangers human health or the environment and can only be regulated to acceptable levels by permit modification or termination.
- E. Failure of the permittee to comply with the provisions of APC&EC Rule 9 (Permit fees) as required by Part III.A.11 herein.

The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

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4. Toxic Pollutants

Notwithstanding Part III.A.3, if any toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is promulgated under APC&EC Rule 2, as amended, or Section 307(a) of the Clean Water Act for a toxic pollutant which is present in the discharge and that standard or prohibition is more stringent than any limitations on the pollutant in this permit, this permit shall be modified or revoked and reissued to conform to the toxic effluent standards or prohibition and the permittee so notified.

The permittee shall comply with effluent standards, narrative criteria, or prohibitions established under APC&EC Rule 2, as amended, or Section 307(a) of the Clean Water Act for toxic pollutants within the time provided in the regulations that establish those standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.

5. Civil and Criminal Liability

Except as provided in permit conditions for "Bypass of Treatment Facilities" (Part III.B.4), and "Upset" (Part III.B.5), nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance. Any false or materially misleading representation or concealment of information required to be reported by the provisions of this permit or applicable state and federal statues or regulations which defeats the regulatory purposes of the permit may subject the permittee to criminal enforcement pursuant to the Arkansas Water and Air Pollution Control Act (Ark. Code Ann. § 8-4-101 et seq.).

6. 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 to under Section 311 of the Clean Water Act.

7. State Laws

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 established pursuant to any applicable State law or regulation under authority preserved by Section 510 of the Clean Water Act.

8. Property Rights

The issuance of this permit does not convey any property rights of any sort, or any exclusive privileges, nor does it authorize any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State, or local laws or regulations.

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9. Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provisions 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.

10. Applicable Federal, State or Local Requirements

Permittees are responsible for compliance with all applicable terms and conditions of this permit. Receipt of this permit does not relieve any operator of the responsibility to comply with any other applicable federal requirements such as endangered species, state or local statute, ordinance or regulation.

11. Permit Fees

The permittee shall comply with all applicable permit fee requirements (i.e., including annual permit fees following the initial permit fee that will be invoiced every year the permit is active) for wastewater discharge permits as described in APC&EC Rule 9 (Rule for the Fee System for Environmental Permits). Failure to promptly remit all required fees shall be grounds for the Director to initiate action to terminate this permit under the provisions of 40 C.F.R. §§ 122.64 and 124.5(d), as adopted in APC&EC Rule 6 and the provisions of APC&EC Rule 8.

SECTION B – OPERATION AND MAINTENANCE OF POLLUTION CONTROLS

1. Proper Operation and Maintenance

- A. 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 this permit. Proper operation and maintenance also includes adequate laboratory controls and appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of the permit.
- B. The permittee shall provide an adequate operating staff which is duly qualified to carryout operation, maintenance, and testing functions required to ensure compliance with the conditions of this permit.

2. Need to Halt or Reduce not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit. Upon reduction, loss, or failure of the treatment facility, the permittee shall, to the extent necessary to maintain compliance with its permit, control

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production or discharges or both until the facility is restored or an alternative method of treatment is provided. This requirement applies, for example, when the primary source of power for the treatment facility is reduced, is lost, or alternate power supply fails.

3. **Duty to Mitigate**

The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment or the water receiving the discharge.

4. **Bypass of Treatment Facilities**

"Bypass" means the intentional diversion of waste streams from any portion of a treatment facility, as defined at 40 C.F.R. § 122.41(m)(1)(i).

A. Bypass not exceeding limitation

The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Parts III.B.4.B and 4.C.

B. Notice

- 1. Anticipated bypass. If the permittee knows in advance of the need for a bypass, it shall submit prior notice, if possible at least ten days before the date of the bypass.
- 2. Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in Part III.D.6 (24-hour notice).

C. Prohibition of bypass

- 1. Bypass is prohibited and the Director may take enforcement action against a permittee for bypass, unless:
 - (a) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
 - (b) There were 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 the permittee could have installed adequate backup equipment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
 - (c) The permittee submitted notices as required by Part III.B.4.B.
- 2. The Director may approve an anticipated bypass, after considering its adverse effects, if the Director determines that it will meet the three conditions listed above in Part III.B.4.C(1).

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5. Upset Conditions

A. Effect of an upset. An upset constitutes an affirmative defense to an action brought for noncompliance with such technology based permit effluent limitations if the requirements of Part III.B.5.B of this section are met. No determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is final administrative action subject to judicial review.

- B. Conditions necessary for demonstration of upset. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
 - 1. An upset occurred and that the permittee can identify the specific cause(s) of the upset.
 - 2. The permitted facility was at the time being properly operated.
 - 3. The permittee submitted notice of the upset as required by Part III.D.6.
 - 4. The permittee complied with any remedial measures required by Part III.B.3.
- C. Burden of proof. In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.

6. Removed Substances

- A. Solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of wastewaters shall be disposed of in a manner such as to prevent any pollutant from such materials from entering waters of the State. The Permittee must comply with all applicable state and Federal regulations governing the disposal of sludge, including but not limited to 40 C.F.R. Parts 257, 258, and 503.
- B. Any changes to the permittee's disposal practices described in the Fact Sheet, as derived from the permit application, will require at least 180 days prior notice to the Director to allow time for additional permitting. Please note that the 180 day notification requirement may be waived if additional permitting is not required for the change.

7. Power Failure

The permittee is responsible for maintaining adequate safeguards to prevent the discharge of untreated or inadequately treated wastes during electrical power failure either by means of alternate power sources, standby generators, or retention of inadequately treated effluent.

SECTION C – MONITORING AND RECORDS

1. Representative Sampling

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge during the entire monitoring period. All samples shall be taken at the monitoring points specified in this permit and, unless otherwise specified,

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before the effluent joins or is diluted by any other waste stream, body of water, or substance. Monitoring points shall not be changed without notification to and the approval of the Director. Intermittent discharge shall be monitored.

2. Flow Measurement

Appropriate flow measurement devices and methods consistent with accepted scientific practices shall be selected and used to ensure the accuracy and reliability of measurements of the volume of monitored discharges. The devices shall be installed, calibrated, and maintained to ensure the accuracy of the measurements are consistent with the accepted capability of that type of device. Devices selected shall be capable of measuring flows with a maximum deviation of less than +/- 10% from true discharge rates throughout the range of expected discharge volumes and shall be installed at the monitoring point of the discharge.

Calculated Flow Measurement

For calculated flow measurements that are performed in accordance with either the permit requirements or a Division approved method (i.e., as allowed in the *Other Specified Monitoring Requirements* condition under Part II), the +/- 10% accuracy requirement described above is waived. This waiver is only applicable when the method used for calculation of the flow has been reviewed and approved by the Division.

3. **Monitoring Procedures**

Monitoring must be conducted according to test procedures approved under 40 C.F.R. Part 136, unless other test procedures have been specified in this permit. The permittee shall calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals frequent enough to ensure accuracy of measurements and shall ensure that both calibration and maintenance activities will be conducted. An adequate analytical quality control program, including the analysis of sufficient standards, spikes, and duplicate samples to ensure the accuracy of all required analytical results shall be maintained by the permittee or designated commercial laboratory. At a minimum, spikes and duplicate samples are to be analyzed on 10% of the samples.

4. Penalties for Tampering

The Arkansas Water and Air Pollution Control Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate, any monitoring device or method required to be maintained under the Act shall be guilty of a misdemeanor and upon conviction thereof shall be subject to imprisonment for not more than one (1) year or a fine of not more than ten thousand dollars (\$10,000) or by both such fine and imprisonment.

5. Reporting of Monitoring Results

40 C.F.R. § 127.11(a)(1) and 40 C.F.R. § 127.16(a) require that monitoring reports must be reported on a Discharge Monitoring Reports (DMR) and filed electronically. Signatory

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Authorities must initially request access for a NetDMR account. Once a NetDMR account is established, access to electronic filing should use the following link https://cdx.epa.gov. Permittees who are unable to file electronically may request a waiver from the Director in accordance with 40 C.F.R. § 127.15. Monitoring results obtained during the previous monitoring period shall be summarized and reported on a DMR dated and submitted no later than the 25th day of the month, following the completed reporting period beginning on the effective date of the permit.

6. Additional Monitoring by the Permittee

If the permittee monitors any pollutant more frequently than required by this permit, using test procedures approved under 40 C.F.R. Part 136 or as specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR. Such increased frequency shall also be indicated on the DMR.

7. Retention of Records

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 this permit, and records of all data used to complete the application for this permit for a period of at least 3 years from the date of the sample, measurement, report, or application. This period may be extended by request of the Director at any time.

8. Record Contents

Records and monitoring information shall include:

- A. The date, exact place, time and methods of sampling or measurements, and preservatives used, if any.
- B. The individual(s) who performed the sampling or measurements.
- C. The date(s) and time analyses were performed.
- D. The individual(s) who performed the analyses.
- E. The analytical techniques or methods used.
- F. The measurements and results of such analyses.

9. **Inspection and Entry**

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

- A. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit.
- B. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit.

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C. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit.

D. Sample, inspect, or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act, any substances or parameters at any location.

SECTION D – REPORTING REQUIREMENTS

1. Planned Changes

The Permittee shall give notice to the Director as soon as possible but no later than 180 days prior to any planned physical alterations or additions to the permitted facility [40 C.F.R. § 122.41(1)]. Notice is required only when:

- A. The alteration or addition to a permitted facility may meet one of the criteria for new sources at 40 C.F.R. § 122.29(b).
- B. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations in the permit, nor to the notification requirements under 40 C.F.R. § 122.42(b).

2. Anticipated Noncompliance

The permittee shall give advance notice to the Director of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

3. Transfers

The permit is nontransferable to any person except after notice to the Director. The Director may require modification or revocation and reissuance of the permit to change the name of the permittee and incorporate such other requirements as may be necessary under the Act.

4. **Monitoring Reports**

Monitoring results shall be reported at the intervals and in the form specified in Part III.C.5. Discharge Monitoring Reports must be submitted even when no discharge occurs during the reporting period.

5. Compliance Schedule

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date. Any reports of noncompliance shall include the cause of noncompliance, any remedial actions taken, and the probability of meeting the next scheduled requirement.

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6. Twenty-four Hour Report

Please be aware that the notifications can be sent by email to <u>water-enforcement-report@adeq.state.ar.us</u> or at 501-682-0624 for immediate reporting:

- A. The permittee shall report any noncompliance which may endanger health or the environment within 24 hours from the time the permittee becomes aware of the circumstances to the Enforcement Branch of the Office of Water Quality of DEQ. A written submission shall also be provided within 5 days of the time the permittee becomes aware of the circumstances. The written submission shall contain the following information:
 - 1. A description of the noncompliance and its cause.
 - 2. The period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue.
 - 3. Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.
- B. The following must be reported within 24 hours:
 - 1. Any unanticipated bypass which exceeds any effluent limitation in the permit.
 - 2. Any upset which exceeds any effluent limitation in the permit.
 - 3. Violation of a maximum daily discharge limitation for any of the pollutants listed by the Director in Part I of the permit.
- C. The Director may waive the written report on a case-by-case basis if the notification has been received within 24 hours to the Enforcement Branch of the Office of Water Quality of the DEQ.

7. Other Noncompliance

The permittee shall report all instances of noncompliance not reported under Parts III.D.4, 5, and 6, at the time monitoring reports are submitted. The reports shall contain the information listed at Part III.D.6.

8. <u>Changes in Discharge of Toxic Substances for Industrial Dischargers including Existing</u> Manufacturing, Commercial, Mining, and Silvicultural Dischargers

The Director shall be notified as soon as the permittee knows or has reason to believe:

A. That any activity has occurred or will occur which would result in the discharge on a routine or frequent basis of any toxic pollutant including those listed in 40 C.F.R. § 401.15 which is not limited in the permit, if that discharge will exceed the highest of the "notification levels" described in 40 C.F.R. § 122.42(a)(1).

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B. That any activity has occurred or will occur which would result in any discharge on a non-routine or infrequent basis of a toxic pollutant including those listed in 40 C.F.R. § 401.15 which is not limited in the permit, if that discharge will exceed the highest of the "notification levels" described in 40 C.F.R. § 122.42(a)(2).

9. **Duty to Provide Information**

The permittee shall furnish to the Director, within a reasonable time, any information which the Director may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to the Director, upon request, copies of records required to be kept by this permit. Information shall be submitted in the form, manner and time frame requested by the Director.

10. Duty to Reapply

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit. The complete application shall be submitted at least 180 days before the expiration date of this permit. The Director may grant permission to submit an application less than 180 days in advance but no later than the permit expiration date. Continuation of expiring permits shall be implemented through procedures outlined by APC&EC Rule 6.

11. Signatory Requirements

All applications, reports, or information submitted to the Director shall be signed and certified as follows:

A. All **permit applications** shall be signed as follows:

- 1. For a corporation: by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means:
 - (a) A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation.
 - (b) The manager of one or more manufacturing, production, or operation facilities, provided: the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

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2. For a partnership or sole proprietorship: by a general partner or proprietor, respectively.

- 3. For a municipality, State, Federal, or other public agency, by either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a Federal agency includes:
 - (a) The chief executive officer of the agency.
 - (b) A senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.
- B. All **reports** required by the permit and **other information** requested by the Director shall be signed by a person described above or by a duly authorized representative of that person. A person is a duly authorized representative only if:
 - 1. The authorization is made in writing by a person described above.
 - 2. The authorization specified either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of plant manager, operator of a well or a well field, superintendent, or position of equivalent responsibility. (A duly authorized representative may thus be either a named individual or any individual occupying a named position).
 - 3. The written authorization is submitted to the Director.
- C. Certification. Any person signing a document under this section shall make 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 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."

12. Availability of Reports

Except for data determined to be confidential under 40 C.F.R. Part 2 and APC&EC Rule 6, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Division of Environmental Quality. As required by the Rules, the name and address of any permit applicant or permittee, permit applications, permits, and effluent data shall not be considered confidential.

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13. Penalties for Falsification of Reports

The Arkansas Air and Water Pollution Control Act provides that any person who knowingly makes any false statement, representation, or certification in any application, record, report, plan, or other document filed or required to be maintained under this permit shall be subject to civil penalties specified in Part III.A.2 and/or criminal penalties under the authority of the Arkansas Water and Air Pollution Control Act (Ark. Code Ann. § 8-4-101 et seq.).

14. Other Information

Where 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.

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PART IV DEFINITIONS

All definitions contained in Section 502 of the Clean Water Act and 40 C.F.R. § 122.2 shall apply to this permit and are incorporated herein by reference. Additional definitions of words or phrases used in this permit are as follows:

- 1. **"7-Day Average"** also known as "average weekly," 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. The 7-Day Average for Fecal Coliform Bacteria (FCB) or *E. coli* is the geometric mean of the "daily discharges" of all effluent samples collected during a calendar week in colonies per 100 ml.
- 2. "Act" means the Clean Water Act, Public Law 95-217 (33.U.S.C. 1251 et seq.) as amended.
- 3. "Administrator" means the Administrator of the U.S. Environmental Protection Agency.
- 4. "APC&EC" means the Arkansas Pollution Control and Ecology Commission.
- 5. "Applicable effluent standards and limitations" means all State and Federal effluent standards and limitations to which a discharge is subject under the Act, including, but not limited to, effluent limitations, standards of performance, toxic effluent standards and prohibitions, and pretreatment standards.
- 6. "Applicable water quality standards" means all water quality standards to which a discharge is subject under the federal Clean Water Act and which has been (a) approved or permitted to remain in effect by the Administrator following submission to the Administrator pursuant to Section 303(a) of the Act, or (b) promulgated by the Director pursuant to Section 303(b) or 303(c) of the Act, and standards promulgated under (APC&EC) Rule 2, as amended.
- 7. "Best Management Practices (BMPs)" are activities, practices, maintenance procedures, and other management practices designed to prevent or reduce the pollution of waters of the State. BMPs also include treatment technologies, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw sewage. BMPs may include structural devices or nonstructural practices.
- 8. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility, as defined at 40 C.F.R. § 122.41(m)(1)(i).
- 9. "Composite sample" is a mixture of grab samples collected at the same sampling point at different times, formed either by continuous sampling or by mixing a minimum of 4 effluent portions collected at equal time intervals (but not closer than one hour apart) during operational hours, within the 24-hour period, and combined proportional to flow or a sample collected at more frequent intervals proportional to flow over the 24-hour period.
- 10. "CV" means coefficient of variation.
- 11. "Daily Discharge" means the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling.
 - A. **Mass Calculations:** For pollutants with limitations expressed in terms of mass, the "daily discharge" is calculated as the total mass of pollutant discharged over the sampling day.
 - B. Concentration Calculations: For pollutants with limitations expressed in other units of measurement, the "daily discharge" is calculated as the average measurement of the pollutant over the day.

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12. "Daily Maximum" discharge limitation means the highest allowable "daily discharge" during the calendar month.

- 13. "Director" means the Director of the Division of Environmental Quality.
- 14. "Dissolved oxygen limit" shall be defined as follows:
 - A. When limited in the permit as a minimum monthly average, shall mean the lowest acceptable monthly average value, determined by averaging all samples taken during the calendar month.
 - B. When limited in the permit as an instantaneous minimum value, shall mean that no value measured during the reporting period may fall below the stated value.
- 15. "*E. coli*" a sample consists of one effluent grab portion collected during a 24-hour period at peak loads. For *E. coli*, report the Daily Maximum as the highest "daily discharge" during the calendar month and the Monthly Average as the geometric mean of all "daily discharges" within a calendar month, in colonies per 100 ml.
- 16. "Division" means the Division of Environmental Quality (DEQ).
- 17. "Fecal Coliform Bacteria (FCB)" a sample consists of one effluent grab portion collected during a 24-hour period at peak loads. For FCB, report the Daily Maximum as the highest "daily discharge" during the calendar month and the Monthly Average as the geometric mean of all "daily discharges" within a calendar month, in colonies per 100 ml.
- 18. "Grab sample" means an individual sample collected in less than 15 minutes in conjunction with an instantaneous flow measurement.
- 19. "Industrial User" means a nondomestic discharger, as identified in 40 C.F.R. Part 403, introducing pollutants to a publicly owned treatment works (POTW).
- 20. "Instantaneous flow measurement" means the flow measured during the minimum time required for the flow-measuring device or method to produce a result in that instance. To the extent practical, instantaneous flow measurements coincide with the collection of any grab samples required for the same sampling period so that together the samples and flow are representative of the discharge during that sampling period.
- 21. "Instantaneous Maximum" when limited in the permit as an instantaneous maximum value, shall mean that no value measured during the reporting period may fall above the stated value.
- 22. "Instantaneous Minimum" an instantaneous minimum value, shall mean that no value measured during the reporting period may fall below the stated value.
- 23. "Monitoring and Reporting"

When a permit becomes effective, monitoring requirements are of the immediate period of the permit effective date. Where the monitoring requirement for an effluent characteristic is monthly or more frequently, the Discharge Monitoring Report (DMR) shall be submitted by the 25th of the month following the sampling. Where the monitoring requirement for an effluent characteristic is Quarterly, Semi-Annual, Annual, or Yearly, the DMR shall be submitted by the 25th of the month following the monitoring period end date.

A. MONTHLY:

is defined as a calendar month or any portion of a calendar month for monitoring requirement frequency of once/month or more frequently.

B. BI-MONTHLY:

is defined as two (2) calendar months or any portion of 2 calendar months for monitoring requirement frequency of once/2 months or more frequently.

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C. QUARTERLY:

1. is defined as a **fixed calendar quarter** or any part of the fixed calendar quarter for a non-seasonal effluent characteristic with a measurement frequency of once/quarter. Fixed calendar quarters are: January through March, April through June, July through September, and October through December.

2. is defined as a **fixed three month period** (or any part of the fixed three month period) of or dependent upon the seasons specified in the permit for a seasonal effluent characteristic with a monitoring requirement frequency of once/quarter that does not coincide with the fixed calendar quarter. Seasonal calendar quarters are: May through July, August through October, November through January, and February through April.

D. SEMI-ANNUAL:

is defined as the fixed time periods January through June, and July through December (or any portion thereof) for an effluent characteristic with a measurement frequency of once/6 months.

E. ANNUAL or YEARLY:

is defined as a fixed calendar year or any portion of the fixed calendar year for an effluent characteristic or parameter with a measurement frequency of once/year. A calendar year is January through December, or any portion thereof.

- 24. "Monthly Average" 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. For Fecal Coliform Bacteria (FCB) or *E. coli*, report the Monthly Average as the geometric mean of all "daily discharges" within a calendar month.
- 25. "National Pollutant Discharge Elimination System" means the national program for issuing, modifying, revoking and reissuing, terminating, monitoring and enforcing permits, and imposing and enforcing pretreatment requirements under Sections 307, 402, 318, and 405 of the Clean Water Act.
- 26. "NOEC" means No Observed Effect Concentration.
- 27. "PMSD" means Percent Minimum Significant Difference.
- 28. "POTW" means Publicly Owned Treatment Works;
- 29. "Reduction of CBOD₅/BOD₅ and TSS in mg/l Formula" [(Influent Effluent) / Influent] × 100
- 30. "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 products.
- 31. "Sewage sludge" means the solids, residues, and precipitate separated from or created in sewage by the unit processes at a POTW. Sewage as used in this definition means any wastes, including wastes from humans, households, commercial establishments, industries, and stormwater runoff that are discharged to or otherwise enter a POTW.
- 32. "Treatment works" means any devices and systems used in storage, treatment, recycling, and reclamation of municipal sewage and industrial wastes, of a liquid nature to implement section 201 of the Act, or necessary to recycle reuse water at the most economic cost over the estimated life of the works, including intercepting sewers, sewage collection systems, pumping, power and other equipment, and alterations thereof; elements essential to provide a

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reliable recycled supply such as standby treatment units and clear well facilities, and any works, including site acquisition of the land that will be an integral part of the treatment process or is used for ultimate disposal of residues resulting from such treatment.

33. Units of Measure:

"MGD" shall mean million gallons per day.

"mg/l" shall mean milligrams per liter or parts per million (ppm).

"μg/l" shall mean micrograms per liter or parts per billion (ppb).

"cfs" shall mean cubic feet per second.

"ppm" shall mean parts per million.

"s.u." shall mean standard units.

- 34. "Upset" means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limitations because of factors beyond the reasonable control of the permittee. Any upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, lack of preventive maintenance, or careless or improper operations.
- 35. "Visible sheen" means the presence of a film or sheen upon or a discoloration of the surface of the discharge. A sheen can also be from a thin glistening layer of oil on the surface of the discharge.
- 36. "Week" means a calendar week, consisting of the 7-day period of Sunday through Saturday
- 37. "Weekday" means Monday Friday.

Fact Sheet

This Fact Sheet is for information and justification of the permit requirements only. Please note that it is not enforceable. This final permitting decision is for the issuance of discharge Permit Number AR0052761 with Arkansas Department of Energy and Environment – Division of Environmental Quality (DEQ) Arkansas Facility Identification Number (AFIN) 10-00498 to discharge to Waters of the State.

1. **PERMITTING AUTHORITY**

The issuing office is:

Division of Environmental Quality 5301 Northshore Drive North Little Rock, Arkansas 72118-5317

2. APPLICANT

The applicant's mailing address is:

City of Arkadelphia - Sun Bio Material Linerboard Project 700 Clay Street Arkadelphia, AR 71923

The facility address is:

City of Arkadelphia - Sun Bio Material Linerboard Project US Highway 67 South Arkadelphia, AR 71923

3. PREPARED BY

The permit was prepared by:

Shane Byrum Carrie McWilliams, P.E. Staff Engineer Engineer Supervisor

NPDES Discharge Permits Section NPDES Discharge Permits Section

Office of Water Quality

Office of Water Quality

(501) 682-0618 (501) 682-0915

Email: byrum@adeq.state.ar.us Email: mcwilliamsc2@adeq.state.ar.us

4. PERMIT ACTIVITY

Previous Permit Effective Date: June 1, 2017
Previous Permit Modification Date: September 1, 2019
Previous Permit Expiration Date: May 31, 2022

The permittee submitted a permit renewal application on December 2, 2021. The previous discharge permit is reissued for a 5-year term in accordance with regulations promulgated at 40 C.F.R. § 122.46(a).

The City of Arkadelphia will own and operate the wastewater treatment plant authorized to

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discharge under this NPDES permit. No sanitary wastewater or wastewater from other industrial sources will be allowed to be treated at this wastewater treatment plant without modification of the permit.

DOCUMENT ABBREVIATIONS

In the document that follows, various abbreviations are used. They are as follows:

APC&EC - Arkansas Pollution Control and Ecology Commission

BAT - best available technology economically achievable

BCT - best conventional pollutant control technology

BMP - best management practice

BOD₅ - five-day biochemical oxygen demand

BPJ - best professional judgment

BPT - best practicable control technology currently available

CBOD₅ - carbonaceous biochemical oxygen demand

CD - critical dilution

C.F.R. - Code of Federal Regulations

cfs - cubic feet per second

COD - chemical oxygen demand

COE - United States Corp of Engineers

CPP - continuing planning process

CWA - Clean Water Act

DMR - discharge monitoring report

DO - dissolved oxygen

ELG - effluent limitation guidelines

EPA - United States Environmental Protection Agency

ESA - Endangered Species Act

FCB - fecal coliform bacteria

gpm - gallons per minute

MGD - million gallons per day

MQL - minimum quantification level

NAICS - North American Industry Classification System

NH₃-N - ammonia nitrogen

NO₃ + NO₂-N - nitrate + nitrite nitrogen

NPDES - National Pollutant Discharge Elimination System

O&G - oil and grease

Rule 2 - APC&EC Rule 2

Rule 6 - APC&EC Rule 6

Rule 8 - APC&EC Rule 8

Rule 9 - APC&EC Rule 9

RP - reasonable potential

SIC - standard industrial classification

TDS - total dissolved solids

TMDL - total maximum daily load

TP - total phosphorus

TRC - total residual chlorine

TSS - total suspended solids

UAA - use attainability analysis

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USF&WS - United States Fish and Wildlife Service USGS - United States Geological Survey WET - whole effluent toxicity WQMP - water quality management plan WQS - Water Quality standards WWTP - wastewater treatment plant

Compliance and Enforcement History:

The compliance and enforcement history for this facility can be reviewed by using the following web link:

https://www.adeq.state.ar.us/downloads/WebDatabases/PermitsOnline/NPDES/PermitInformation/AR0052761_Compliance%20Review_20220124.pdf

5. SIGNIFICANT CHANGES FROM THE PREVIOUSLY ISSUED PERMIT

The permittee is responsible for carefully reading the permit in detail and becoming familiar with all of the changes therein:

- 1. The permittee mailing address has been removed from the cover page of permit.
- 2. Part III.B.6.B was corrected to reference the sludge practices stated in the Fact Sheet rather than the sludge practices stated in Part II of permit.
- 3. The hyperlink for NetDMR was revised in Part III.C.5 of permit.
- 4. The Twenty-four Hour Report condition has been revised in Part III.D.6 of permit.
- 5. The Changes in Discharge of Toxic Substances for Industrial Dischargers condition has been revised in Part III.D.8 of permit.
- 6. The definition of "Applicable water quality standards" has been revised in Part IV of permit.
- 7. The definition of "CV" was added in Part IV of permit.
- 8. The definition of "NOEC" was added in Part IV of permit.
- 9. The definition of "PMSD" was added in Part IV of permit.
- 10. "Department" was changed to "Division" throughout Parts III and IV of permit.
- 11. DMR parameters required to be reported for WET testing were added in Part II.11 of permit.
- 12. Item number 2 of the permit compliance schedule (submittal of proposed locations of receiving stream color monitoring) has been removed because this item was submitted on August 22, 2017.

6. RECEIVING STREAM SEGMENT AND DISCHARGE LOCATION

The outfall is located at the following coordinates based on the application, and confirmed with Google Earth using WGS84 map datum:

Latitude: 34° 01' 59" N; Longitude: 93° 00' 07" W

The receiving waters named:

via pipeline to the Ouachita River in Segment 2F of the Ouachita River Basin. The receiving stream with Assessment Unit AR_08040102_002 is a Water of the State classified for

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primary and secondary contact recreation, raw water source for domestic (public and private), industrial, and agricultural water supplies; propagation of desirable species of fish and other aquatic life; and other compatible uses.

7. 303(d) LIST, TOTAL MAXIMUM DAILY LOADS, ENDANGERED SPECIES, AND ANTI-DEGRADATION CONSIDERATIONS

A. 303(d) List

Assessment Unit AR_08040201_005 of the Ouachita River is listed on the 2018 303d list as impaired for Lead. The beginning of the impaired segment is located over 50 stream miles downstream of the permitted outfall location. Therefore, no further permitting action for Lead is deemed necessary at this time.

B. Applicable Total Maximum Daily Load (TMDL) Reports

There are no applicable TMDLs for this facility.

C. Endangered Species

No comments on the application were received from the USF&WS. The draft permit and Fact Sheet will be sent to the USF&WS for their review.

During the previous permit renewal process, the Department of Arkansas Heritage stated that the following species of conservation concern are known to occur in the Ouachita River at or within five miles downstream of the nearby City of Arkadelphia's POTW permitted discharge (AR0020605) which is located at Latitude: 34° 05' 10" N; Longitude: 93° 02' 07" W:

Cyprogenia aberti, western fanshell – state concern Lampsilis abrupta, pink mucket – federal concern (endangered) Ligumia recta, black sandshell - state concern Pleurobema rubrum, pyramid pigtoe – state concern Quadrula metanevra, monkeyface – state concern

The permit terms, limits, and conditions are protective of the designated uses of the receiving stream, which includes propagation of desirable species of fish and other aquatic life. Therefore, no additional permitting action is necessary regarding the presence of these species.

D. Anti-Degradation

The limitations and requirements set forth in this permit for discharge into waters of the State are consistent with the Anti-degradation Policy and all other applicable water quality standards found in APC&EC Rule 2.

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8. OUTFALL, TREATMENT PROCESS DESCRIPTION, AND FACILITY CONSTRUCTION

The following is a description of the facility described in the application:

- A. Design Flow: 11.2 MGD (The Division reserves the right to adjust the flow to be equal to the highest monthly average flow from the two years prior to permit renewal as required by Appendix D of the CPP.)
- B. Type of Treatment: screening, equalization, primary clarification, neutralization, cooling towers, nutrient addition, activated sludge, secondary clarification, second stage activated sludge, tertiary clarification, sludge thickening, sludge mixing, and sludge dewatering.
- C. Discharge Description: treated wastewater from a linerboard mill
- D. Facility Status: This facility was evaluated using the NPDES Permit Rating Worksheet (MRAT) to determine the correct permitting status. Since the facility's MRAT score of 185 is greater than 80, this facility is classified as a major industrial.
- E. Facility Construction: This permit does not authorize or approve the construction or modification of any part of the treatment system or facilities. Approval for such construction must be by permit issued under Rule 6.202.

9. ACTIVITY

Under the Standard Industrial Classification (SIC) code of 2631 or North American Industry Classification System (NAICS) code of 322130, the applicant's activities are the operation of a wastewater treatment plant for a linerboard mill.

10. SLUDGE PRACTICES

Dewatered sludge will be burned in a boiler or disposed of in a landfill permitted to accept this waste. The resulting ash will be disposed of in a landfill permitted to accept this waste.

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11. DEVELOPMENT AND BASIS FOR PERMIT CONDITIONS

The Division of Environmental Quality has determined to issue a final permit for the discharge described in the application. Permit requirements are based on federal regulations (40 C.F.R. Parts 122, 124, and Subchapter N), and regulations promulgated pursuant to the Arkansas Water and Air Pollution Control Act (Ark. Code Ann. 8-4-101 et seq.). All of the information contained in the application, including all of the submitted effluent testing data, was reviewed to determine the need for effluent limits and other permit requirements.

The following is an explanation of the derivation of the conditions of the final permit and the reasons for them or, in the case of notices of intent to deny or terminate, reasons suggesting the decisions as required under 40 C.F.R. § 124.7.

Technology-Based Versus Water Quality-Based Effluent Limitations and Conditions

Following regulations promulgated at 40 C.F.R. § 122.44, the final permit limits are based on either technology-based effluent limits pursuant to 40 C.F.R. § 122.44(a) or on State water quality standards and requirements pursuant to 40 C.F.R. § 122.44(d), whichever are more stringent as follows:

Dogogodon	Water Quality- Based		Technology- Based		Previous Permit		Final Permit	
Parameter	Monthly	Daily	Monthly	Daily	Monthly	Daily	Monthly	Daily
	Avg.	Max.	Avg.	Max.	Avg.	Max.	Avg.	Max.
BOD ₅	7,006	10,508	$15,840^{1}$	$29,920^{1}$	7,006	10,508	7,006	10,508
ВОД5	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day
TSS								
(June – October)	9,827	14,740	$26,400^{1}$	51,040 ¹	9,827	14,740	9,827	14,740
	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day
(November – May)	16,318	24,478	$26,400^{1}$	$51,040^1$	16,318	24,478	16,318	24,478
	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day	lbs/day
NH ₃ -N								
(March May)	1,149	3,017	N/A	N/A	1,149	3,017	1,149	3,017
(March - May)	lbs/day	lbs/day			lbs/day	lbs/day	lbs/day	lbs/day
(June – October)	374	560	N/A	N/A	374	560	374	560
	lbs/day	lbs/day			lbs/day	lbs/day	lbs/day	lbs/day
(November February)	3,344	7,006	N/A	N/A	3,344	7,006	3,344	7,006
(November – February)	lbs/day	lbs/day			lbs/day	lbs/day	lbs/day	lbs/day
DO	2.0 mg/l		N/A		2.0 mg/l		2.0 mg/l	
ВО	(Inst. Min.)				(Inst. Min.)		(Inst. Min.)	
Chlorides	N/A	N/A	Report	Report	Report	Report	Report	Report
			mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Sulfates	N/A	N/A	Report	Report	Report	Report	Report	Report
			mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Total Dissolved Solids	443,688	665,532	N/A	N/A	443,688	665,532	443,688	665,532
	lbs/day	lbs/day			lbs/day	lbs/day	lbs/day	lbs/day
Change in Receiving Stream Color	N/A	N/A	Report ²	Report ²	Report ²	Report ²	Report ²	Report ²

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Parameter	Water Quality- Based		Technology- Based		Previous Permit		Final Permit	
	Monthly	Daily	Monthly	Daily	Monthly	Daily	Monthly	Daily
	Avg.	Max.	Avg.	Max.	Avg.	Max.	Avg.	Max.
Total Phosphorus	N/A	N/A	Report	Report	Report	Report	Report	Report
			mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Nitrate+Nitrite-Nitrogen	N/A	N/A	Report	Report	Report	Report	Report	Report
			mg/l	mg/l	mg/l	mg/l	mg/l	mg/l
Temperature	100° F, Inst. Max.		N/A		100° F, Inst. Max.		100° F, Inst. Max.	
рН	6.0-9.0 s.u.		5.0-9.0 s.u.		6.0-9.0 s.u.		6.0-9.0 s.u.	

Based on 40 C.F.R. Part 430, Subpart C.

A. Justification for Limitations and Conditions of the Final Permit

Parameter	Water Quality or Technology	Justification
BOD ₅	Water Quality	Water Quality Model dated April 22, 2019, Rule 2.505, CWA § 402(o), and previous permit
TSS	Water Quality	Rule 2.503, Water Quality-Based TSS limit calculations shown on pages 11-16 of WQMP Summary Report dated July 21, 2022, CWA § 402(o), and previous permit.
NH ₃ -N	Water Quality	Rule 2.512, Water Quality Model dated April 22, 2019, CWA § 402(o), and previous permit
DO	Water Quality	Rule 2.505, Water Quality Model dated April 22, 2019, CWA § 402(o), and previous permit
Chlorides	Technology	Rule 2.511(B), 40 C.F.R. § 122.44(l), and previous permit
Sulfates	Technology	Rule 2.511(B), 40 C.F.R. § 122.44(l), and previous permit
TDS	Water Quality	Rule 2.511(B), CWA § 402(o), and previous permit
Change in Receiving Stream Color	Technology	Rule 2.406, 40 C.F.R. § 122.44(l), and previous permit
TP	Technology	Nutrients will be used to treat wastewater, 40 C.F.R. § 122.44(1), and previous permit
$NO_3 + NO_2 - N^*$	Technology	Nutrients will be used to treat wastewater, 40 C.F.R. § 122.44(1), and previous permit
Temperature	Water Quality	Rule 2.502, CWA § 402(o), and previous permit
pН	Water Quality	Rule 2.504, CWA § 402(o), and previous permit

No new information was received to warrant adding, removing, or revising any limitations in the permit. Therefore, the limitations in the permit are consistent with the limitations in the previous permit. The justifications for the limits are discussed below.

BOD₅, TSS, and pH limits have been included in the permit due to the applicable ELG for this facility (40 C.F.R. Part 430, Subpart C). The water quality based limits for these

The permittee must monitor the color of the receiving stream at one location upstream of the outfall (but downstream of any other nearby dischargers) and at one location downstream of the outfall (but upstream of any other nearby dischargers). The difference in color (downstream – upstream) between the two samples must be submitted on the DMR. The tests must be conducted using an EPA approved test method and color should be measured on the platinum-cobalt scale.

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parameters are more stringent than the technology-based limits (ELG limits), therefore water quality-based limits for BOD₅, TSS, and pH have been included in the permit.

The BOD₅ limit is based on a dissolved oxygen modeling analysis, which shows that a minimum effluent DO level of 2.0 mg/l and a monthly average BOD₅ limit of 75 mg/l are necessary to maintain the water quality in the receiving stream. The modeling analysis in the WQMP Summary report can be viewed at the following link:

https://www.adeq.state.ar.us/downloads/WebDatabases/PermitsOnline/NPDES/PermitInformation/AR0052761_WQMP%20Summary_20220721.pdf

The TSS limit is based on Rule 2.503 and the use of historical TSS to turbidity ratios. The TSS evaluation can be viewed on pages 11-16 in the WQMP Summary report viewable at the link above. NH₃-N limits have been included in the permit due to the proposed use of nutrients to treat the wastewater. Also, data from paper mills show that NH₃-N will be present in the wastewater. NH₃-N limits for June – October are based on the dissolved oxygen modeling analysis. NH₃-N limits for November – May are based on toxicity standards in Rule 2.512.

Minimum required DO levels have been included in the permit based on the dissolved oxygen modeling analysis. The minimum required levels, in conjunction with the water quality based limits for NH₃-N, TSS, and BOD₅, are necessary to protect the designated uses of the receiving stream.

TDS limits are based on the estimated levels expected to be present in the untreated wastewater from the linerboard mill which were provided by the permittee. Comparison of these levels to the standards in Rule 2.511(A) show that there is reasonable potential for water quality violations if not treated (reduced).

Monitoring and reporting for Chlorides and Sulfates have been included in the permit based on the presence of these parameters in wastewater from other paper mills in the state. The Division will use the data collected to determine if continued monitoring and reporting or limits are necessary.

See the minerals calculations at the following link:

https://www.adeq.state.ar.us/downloads/WebDatabases/PermitsOnline/NPDES/PermitInformation/AR0052761_Updated%20Minerals%20evaluation_20190425.pdf

Temperature limit has been included based on the proximity of the outfall to an Ecologically Sensitive Waterbody. The limit was evaluated to ensure compliance with water quality standards. The temperature evaluation can be seen at the following link:

https://www.adeq.state.ar.us/downloads/WebDatabases/PermitsOnline/NPDES/PermitInformation/AR0052761_Updated%20Temperature%20Evaluation_20190425.pdf

The permittee will be required to monitor the change in color of the receiving stream. This requirement has been included in the permit due to the effluent color common in paper mill effluent as well as due to the use of treatment to reduce color in the effluent.

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Monitoring and reporting requirements for TP and NO₃+NO₂-N have been included in the permit since the permittee has indicated that nutrients will be used to treat the wastewater. The Division will use the data collected during the term of the permit at the time of renewal to determine if limits are necessary.

B. Anti-backsliding

The permit is consistent with the requirements to meet Anti-backsliding provisions of the Clean Water Act (CWA), Section 402(o) [40 C.F.R. § 122.44(l)]. The final effluent limitations for reissuance permits must be as stringent as those in the previous permit, unless the less stringent limitations can be justified using exceptions listed in CWA 402(o)(2), CWA 303(d)(4), or 40 C.F.R. § 122.44(l)(2)(i).

The final permit meets or exceeds the requirements of the previous permit.

C. <u>Limits Calculations</u>

1. Mass Limits:

In accordance with 40 C.F.R. § 122.45(f)(1), all pollutants limited in permits shall have limitations expressed in terms of mass if feasible. 40 C.F.R. § 122.45(f)(2) allows for pollutants which are limited in terms of mass to also be limited in terms of other units of measurement.

The calculation of the loadings (lbs per day) uses a design flow of 11.2 MGD and the following equation:

Mass (lbs/day) = Concentration (mg/l) \times Flow (MGD) \times 8.34

2. Daily Maximum Limits:

The daily maximum limits for NH₃-N (June through October), TDS, BOD₅, and TSS are based on Section 5.4.2 of the Technical Support Document for Water Quality-based Toxics Control:

daily maximum limits = monthly average limits \times 1.5

The daily maximum NH₃-N limits for the months of November through May are based on the requirements of Rule 2.512.

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D. Clean Water Act § 316(b) Requirements for Cooling Water Intake Structure

40 C.F.R. Part 125, Subpart I establishes requirements that apply to CWIS for new facilities under Section 316(b) of the Clean Water Act. The purpose of these requirements is to establish the best technology available for minimizing adverse environmental impact (AEI) associated with the use of CWIS. These requirements are implemented through NPDES permits. This subpart applies to a new facility if it:

- (1) Is a point source that uses or proposes to use a CWIS; and
- (2) Has at least one CWIS that uses at least 25% of the water it withdraws for cooling purposes; and
- (3) Has a design intake flow greater than two (2) million gallons per day (MGD).

This facility is a point source that proposes to use a new CWIS on the Ouachita River. The CWIS has a design intake flow of 13,800,000 gallons per day. The amount of water to be used for cooling purposes is 2,102,000 gallons per day, which is 15.2% of the design intake flow. The facility does not exceed the 25% threshold. 40 C.F.R. § 125.80(c) states that new facilities that do not meet the threshold requirement regarding the amount of water withdrawn or percentage of water withdrawn for cooling purposes, must meet requirements determined on a case-by-case best professional judgement (BPJ) basis. The following BPJ requirements are being established in this NPDES permit and represent BTA for the purpose of minimizing AEI associated with the use of the CWIS:

- i. The permittee shall operate a closed-cycle recirculating cooling water system by using cooling towers to remove waste heat from process water for reuse within the facility.
- ii. The permittee shall maintain records of daily volume of water withdrawn at the CWIS and daily volume of water used for cooling purposes. At the time of the next renewal, the permittee shall report all monthly averages determined from the daily volumes with the permit renewal application, and the Division will review these records for comparison with the 25% threshold stated in 40 C.F.R. § 125.81(c). If any monthly average volume of water used for cooling purposes equals or exceeds 25% of the monthly average of total water withdrawn at the CWIS, the Division will add the applicable monitoring requirements in 40 C.F.R. § 125.87 and applicable recordkeeping requirements in 40 C.F.R. § 125.88, at the next permit renewal.
- iii. The CWIS shall employ screen(s) that do not exceed a maximum through-screen velocity of 0.5 feet per second for each screen at the design intake flow. Each screen face shall be oriented parallel to the flow direction in the Ouachita River to maximize the potential sweep velocity of the Ouachita River to overcome the approach velocity. The screens shall be operated at the lowest submerged elevation practical. Calculations demonstrating maximum screen velocity at design intake flow less than or equal to 0.5 feet per second per screen shall be submitted with the construction permit application for this facility after screen design is finalized.
- iv. The permittee shall operate an intake pressure and intake flow monitoring device that will indicate reduced open screen area. The intake pumps shall be equipped with an alert system that will notify the operator of inadequate pressure for pump operation.

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Records of intake pressure shall be checked and logged daily, kept on site, and made available to Division personnel upon request.

- v. The permittee shall operate an air burst system on each intake screen to mitigate screen clogging. The intake pressure monitoring device shall be used to determine necessary frequency of air burst. Air burst operation events shall be logged, kept on site, and made available to Division personnel upon request.
- vi. The permittee shall inspect each intake screen at least once per year by a diver or remote operated video unit. Records of the annual screen inspections shall be kept on site and made available to Division personnel upon request.

E. 208 Plan (Water Quality Management Plan)

The 208 Plan, developed by the DEQ under provisions of Section 208 of the federal Clean Water Act, is a comprehensive program to work toward achieving federal water goals in Arkansas. The initial 208 Plan, adopted in 1979, provides for annual updates, but can be revised more often if necessary.

There are no updates to the 208 Plan occurring with this permit renewal.

F. Applicable Effluent Limitations Guidelines

Discharges from facilities of this type are covered by Federal effluent limitations guidelines promulgated under 40 C.F.R. § 430.35, Subpart C – The Pulp, Paper, and Paperboard Point Source Category, Unbleached Kraft Subcategory. Since the permittee has certified that chlorophenolic biocides will not be used, only the ELGs for BOD₅, TSS, and pH are applicable to this facility.

The Division has determined that the water quality based limits for BOD₅, TSS, and pH are more stringent than the technology based limits. Therefore, the water quality based limits are included in the permit.

G. Priority Pollutant Scan (PPS)

The permittee is required to conduct a full PPS within 90 days of the first discharge from this facility and submit the results to the Division. The Division reserves the right to reopen the permit to include additional limits or permitting requirements based on the results of the PPS.

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12. WHOLE EFFLUENT TOXICITY

Section 101(a)(3) of the Clean Water Act states that "...it is the national policy that the discharge of toxic pollutants in toxic amounts be prohibited." In addition, DEQ is required under 40 C.F.R. §122.44(d)(1), adopted by reference in Rule 6, to include conditions as necessary to achieve water quality standards as established under Section 303 of the Clean Water Act. Arkansas has established a narrative criteria which states "toxic materials shall not be present in receiving waters in such quantities as to be toxic to human, animal, plant or aquatic life or to interfere with the normal propagation, growth and survival of aquatic biota."

Whole effluent toxicity (WET) testing is the most direct measure of potential toxicity which incorporates the effects of synergism of effluent components and receiving stream water quality characteristics. It is the national policy of EPA to use bioassays as a measure of toxicity to allow evaluation of the effects of a discharge upon a receiving water (49 Federal Register 9016-9019, March 9, 1984). EPA Region 6 and the State of Arkansas are now implementing the Post Third Round Policy and Strategy established on September 9, 1992, and EPA Region 6 Post-Third Round Whole Effluent Toxicity Testing Frequencies, revised March 13, 2000.

Whole effluent toxicity testing of the effluent is thereby required as a condition of this permit to assess potential toxicity. The whole effluent toxicity testing procedures stipulated as a condition of this permit are as follows:

TOXICITY TESTS

FREQUENCY

Chronic WET

Once/quarter

Requirements for measurement frequency are based on the CPP.

The calculations for critical dilution used for chronic WET testing are as follows:

Critical dilution (CD) = $(Qd/(Qd + Qb)) \times 100$

Qd = Design flow = 11.2 MGD = 17.36 cfs

7Q10 = 255 cfs

Adjusted 7Q10 = 255 cfs - 21.39 cfs = 233.61 cfs (the 7Q10 was adjusted because the intake is upstream of the outfall but below the flow monitoring station)

Qb = Background flow = $0.25 \times 233.61 = 58.40$ cfs

 $CD = (17.36) / (17.36 + 58.40) \times 100 = 23\%$

The dilution ratio (DR) is calculated:

$$DR = (Adjusted 7Q10 + Qd) / Qd = (233.61 + 17.36) / (17.36) = 14.46:1$$

Since 7Q10 is greater than 100 cfs (ft³/sec), and the dilution ratio (DR) is less than 100:1, chronic WET testing requirements will be included in the permit.

Toxicity tests shall be performed in accordance with protocols described in "Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to

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Freshwater Organisms", EPA/600/4-91/002, July 1994. A minimum of five effluent dilutions in addition to an appropriate control (0%) are to be used in the toxicity tests. These additional effluent concentrations are 10%, 13%, 17%, 23%, and 30% (See the CPP). The low-flow effluent concentration (critical dilution) is defined as 23% effluent. The requirement for chronic WET tests is based on the magnitude of the facility's discharge with respect to receiving stream flow. The stipulated test species, *Ceriodaphnia dubia* and the Fathead minnow (*Pimephales promelas*) are representative of organisms indigenous to the geographic area of the facility; the use of these is consistent with the requirements of the State water quality standards. The WET testing frequency has been established to provide data representative of the toxic potential of the facility's discharge, in accordance with the regulations promulgated at 40 C.F.R. §122.48.

Results of all dilutions as well as the associated chemical monitoring of pH, temperature, hardness, dissolved oxygen conductivity, and alkalinity shall be reported according to EPA-821-R-02-013, October 2002 and shall be submitted as an attachment to the Discharge Monitoring Report (DMR).

This permit may be reopened to require further WET testing studies, Toxicity Reduction Evaluation (TRE) and/or effluent limits if WET testing data submitted to the Division shows toxicity in the permittee's discharge. Modification or revocation of this permit is subject to the provisions of 40 C.F.R. §122.62, as adopted by reference in APC&EC Rule 6. Increased or intensified toxicity testing may also be required in accordance with Section 308 of the Clean Water Act and Section 8-4-201 of the Arkansas Water and Air Pollution Control Act (Act 472 of 1949, as amended).

Administrative Records

No administrative records exist for this facility since a discharge has not occurred.

13. STORMWATER REQUIREMENTS

The federal regulations at 40 C.F.R. § 122.26(b)(14) require certain industrial sectors to have NPDES permit coverage for stormwater discharges from the facility. These requirements include the development and implementation of a Stormwater Pollution Prevention Plan (SWPPP) to control the quality of stormwater discharges from the facility. The permittee will be required to have permit coverage for stormwater runoff at this site prior to the start of operation.

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14. SAMPLE TYPE AND FREQUENCY

Regulations require permits to establish monitoring requirements to yield data representative of the monitored activity [40 C.F.R. § 122.48(b)] and to ensure compliance with permit limitations [40 C.F.R. § 122.44(i)(l)].

Requirements for sample type and sampling frequency have been based on the previous discharge permit.

	Previou	s Permit	Final Permit		
Parameter	Frequency of Sample	Sample Type	Frequency of Sample	Sample Type	
Flow	once/day	totalizing meter	once/day	totalizing meter	
BOD ₅	three/week	composite	three/week	composite	
TSS	three/week	composite	three/week	composite	
NH ₃ -N	three/week	composite	three/week	composite	
DO	three/week	grab	three/week	grab	
Chlorides	three/week	composite	three/week	composite	
Sulfates	three/week	composite	three/week	composite	
TDS	three/week	composite	three/week	composite	
Change in Receiving Stream Color	once/quarter	grab	once/quarter	grab	
TP	three/week	composite	three/week	composite	
$NO_3 + NO_2 - N$	three/week	composite	three/week	composite	
Temperature	three/week	grab	three/week	grab	
рН	once/day	grab	once/day	grab	

15. PERMIT COMPLIANCE SCHEDULE

The Permit Compliance Schedule portion of the permit requires the facility to conduct a full PPS within 90 days of the first discharge from the facility. This requirement has been included in the permit since this type of facility is required by 40 CFR Part 122 to conduct a PPS as part of the permit application. Since this is a new facility which has not yet been constructed, it is appropriate to include this requirement in the permit. The Division reserves the right to reopen the permit to include additional limits or monitoring requirements based on the results of the PPS.

16. MONITORING AND REPORTING

The applicant is at all times required to monitor the discharge on a regular basis and report the results monthly. The monitoring results will be available to the public.

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17. SOURCES

The following sources were used to draft the permit:

- A. Application No. AR0052761 received December 2, 2021.
- B. Arkansas Water Quality Management Plan (WQMP).
- C. APC&EC Rule 2.
- D. APC&EC Rule 3.
- E. APC&EC Rule 6, which incorporates by reference certain federal regulations included in Title 40 of the Code of Federal Regulations at Rule 6.104.
- F. 40 C.F.R. Parts 122 and 125.
- G. 40 C.F.R. Part 430, Subpart C.
- H. Discharge permit file AR0052761.
- I. "2018 Integrated Water Quality Monitoring and Assessment Report," DEQ.
- J. "2018 List of Impaired Waterbodies (303(d) List)," DEQ, May 2020.
- K. "Low-Flow Characteristics and Regionalization of Low-Flow Characteristics for Selected Streams in Arkansas," U.S. Dept. of the Interior, U.S. Geological Survey, Scientific Investigations Report 2008-5065.
- L. Continuing Planning Process (CPP).
- M. Technical Support Document for Water Quality-based Toxic Control.
- N. Modeling Analysis dated April 22, 2019 and reviewed on July 18, 2022.
- O. Ammonia toxicity calculations dated April 22, 2019 and reviewed on July 18, 2022.
- P. TSS calculations dated April 22, 2019 and reviewed on July 18, 2022.
- O. Mineral evaluation dated April 25, 2019 and reviewed on July 18, 2022.
- R. Temperature calculations dated April 25, 2019 and reviewed on July 18, 2022.
- S. Compliance Review Memo from Christina McCutcheon to Shane Byrum dated January 24, 2022.
- T. Planning Branch Review dated January 7, 2022.
- U. NPDES Permit Rating Spreadsheet (MRAT) dated July 14, 2022.
- V. EPA letter dated November 4, 2022 stating no comments on draft permit.

18. PUBLIC NOTICE

The public notice of the draft permit was published for public comment on December 11, 2022. The last day of the comment period was thirty (30) days after the publication date. No public comments were received on the draft permit.

Copies of the draft permit and public notice were sent via email to the Corps of Engineers, the Regional Director of the U.S. Fish and Wildlife Service, the Department of Parks, Heritage, and Tourism, the EPA, and the Arkansas Department of Health.

19. **PERMIT FEE**

In accordance with Rule 9.403(A), the initial fee for the permit was \$15,000, which was paid on April 24, 2017. In a <u>letter dated June 22, 2017</u>, the permittee submitted a request to the Division to waive the annual fee for this permit until the date of operation commences. In a <u>letter dated July 28, 2017</u>, the Division granted a waiver of annual fees for this permit until construction of the linerboard mill has neared completion. This permit was modified on September 1, 2019 and the modification fee of \$5,000 was invoiced and paid. To date, this project has not started construction, therefore no annual fees have been invoiced at this time.

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20. POINT OF CONTACT

For additional information, contact:

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