

**STATE OF FLORIDA  
INDUSTRIAL WASTEWATER FACILITY PERMIT**

**PERMITTEE:**

Georgia - Pacific Corporation  
Palatka Operations  
Post Office Box 919  
Palatka, Florida 32178-0919

**PERMIT/FACILITY NO.:**

**FL0002763**

**ISSUANCE DATE:**

**August 6, 2002**

**EXPIRATION DATE:**

**August 5, 2007**

**APPLICATION NO.:**

**253578/273954  
(3154P01424)**

**RESPONSIBLE AUTHORITY:**

Mr. Theodore D. Kennedy, Vice-President  
Georgia - Pacific Corporation  
Palatka Operations

**FACILITY:**

Georgia-Pacific Corporation - Palatka Operations  
Palatka, Florida  
Putnam County

Latitude: 29°41'38" N    Longitude: 81°40'20" W

This permit is issued under the provisions of Chapter 403, Florida Statutes, and applicable rules of the Florida Administrative Code and constitutes authorization to discharge to waters of the state under the National Pollutant Discharge Elimination System. The above named Permittee is hereby authorized to operate and construct the facilities shown on the application and other documents attached hereto or on file with the Florida Department of Environmental Protection ("Department") and made a part hereof and specifically described as follows:

**TREATMENT FACILITIES:**

**Existing**

This is a 40 MGD average wastewater treatment facility providing primary clarification followed by secondary treatment consisting of 900 plus acres of facultative and aerobic lagoons. Wastewater treatment solids from the primary clarifier are pumped to sludge lagoons for dewatering. The dewatered wastewater treatment solids are land applied on-site. Treated effluent is discharged through an effluent riffle channel to Outfall D-001 with effluent for sidestream oxygenation discharging at Outfall D-002. A liquid oxygen injection system also injects pure oxygen at Outfall D-001 to offset the BOD of the effluent. This is a fully integrated pulp and paper mill producing both bleached and unbleached pulp and paper utilizing the kraft process. Products include kraft paper and finished tissue products.

In connection with the facility, Permittee operates and maintains the on-site solid waste disposal facility which receives clean construction debris, calcium carbonate, boiler ash, and other solids generated as by-products from the pulping and papermaking operation. Permittee also operates and maintains the surface water management system including in-line retention basins 1, 4, 5 and wet detention basin 2 to receive and treat storm water runoff from the solid waste disposal area.

For a sketch showing the location of the discharge please see Attachment 1.

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The Permittee shall comply with the Cluster Rule discharge requirements for bleached kraft mills as required by Part I.A of the permit (in accordance with the revised title 40, Chapter I of the Code of Federal Regulations (CFR) Part 430, Subpart B, promulgated April 15, 1998). Compliance with the effluent limitations, and monitoring requirements of this permit shall be achieved in accordance with the compliance schedule contained in Part V of this permit.

The proposed modifications include manufacturing process improvements that will improve effluent water quality to the extent that the effluent discharge may remain in Rice Creek, as opposed to construction of a pipeline for a direct discharge to the St. Johns River. The manufacturing process improvements consist of: 1) the construction of a new bleach line; 2) enhanced (i.e. two stage) oxygen delignification system (or like system producing similar or better environmental benefits) 3) new brownstock washing systems to replace four existing brownstock wash lines; 4) green liquor dregs filter; 5) minimize all pulping liquor leaks and spills; 6) handling the chlorine dioxide generator waste (i.e., salt cake), including efforts to find a viable, long term sustainable market for such material and evaluation of alternative technologies for treating such material; and 7) required appurtenances. These improvements are also consistent with the Cluster Rule requirements (Title 40, chapter I of the Code of Federal Regulations (CFR) Part 430, Subpart B, promulgated April 15, 1998). The discharge points at Outfalls D-001 and D-002 may be used for supplemental oxygen addition in Rice Creek and for seasonal supplemental oxygen addition in the event of a direct discharge to the St. Johns River through Outfall D-003. Construction and operation of a pipeline for a direct discharge into the St. Johns River is authorized by the Department, unless the Permittee demonstrates an ability to meet applicable water quality standards in Rice Creek. If the Permittee can comply with applicable water quality standards in Rice Creek, the permit will be automatically re-opened to include proposed modifications and to incorporate appropriate effluent limitations for final discharge in Rice Creek.

The proposed modifications for a discharge to the St. Johns River will consist of the construction of a pump station, 4 mile long 48 inch diameter ductile iron pipe force main, high purity oxygen will be added to the pump station discharge from a liquid oxygen storage tank to provide for the required dissolved oxygen at the discharge and required appurtenances for the conveyance of the effluent from the treatment lagoons to the river through Outfall D-003 via a 1043 foot long diffuser. The discharge points at mile point 2.4 (D-002) and 3.4 (D-001) will be also be used for supplemental oxygen addition in Rice Creek in the event the discharge remains in Rice Creek, and for emergencies and supplemental liquid oxygen addition to offset the tidal impact in the event the discharge is authorized for a direct discharge to the St. Johns River.

**EFFLUENT DISCHARGE:**

**Surface Water Discharge:** This is an existing permitted discharge at Outfall D-001 and D-002, to Rice Creek, a Class III surface water and thence to the St. Johns River a Class III surface water. Under the proposed modifications the permittee will discharge directly to Outfall D-003. Outfall D-003 is the direct discharge to the St. Johns River through a 1043-foot diffuser located approximately 3,300 feet from the western shoreline. Outfall D-001 is located at latitude 29°40'44" N, longitude 81°41'33" W, Outfall D-002 is located at latitude 29°41'14" N, longitude 81°40'58" W, and the proposed diffuser for Outfall D-003 is centered at latitude 29°41'13" N, longitude 81°38'24" W.

**IN ACCORDANCE WITH:** limitations, monitoring requirements and other conditions set forth in Part I, Part II, Part III, Part IV, Part V, Part VI, Part VII, and Part VIII on pages 1 through 30 of this permit.

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- A.** Rice Creek Outfalls D-001 and D-002. During the period beginning upon issuance of this permit and lasting until the effluent conveyance system to the St. Johns River is constructed and placed into operation, the permittee is authorized to discharge treated wastewater from Outfalls D-001 and D-002. The discharge from these two outfall locations shall not result in a violation of applicable water quality standards. The permittee may not be able to immediately comply with this condition and therefore, this permit is issued pursuant to Subsection 403.088(2)(e) of the Florida Statutes.
- B.** The Permittee shall comply with the final limits referenced below, in Part I.B.1. of this permit, upon completion of construction and placing into operation the effluent conveyance system to the St. Johns River in accordance with the compliance plan referenced in Part V of this permit, with the exception of the Cluster Rule limits which will be achieved by no later than April 15, 2001 (as specified in Part I.B.13.). The Permittee is authorized to discharge from Outfall D-003 treated process wastewater, sanitary wastewater, and storm water. Such discharge from Outfall D-003 shall be limited and monitored by the Permittee as specified below:

**1. Effluent limitations, conditions, and monitoring requirements – Final**

Parameters	Effluent Sampling Location	Discharge Limitations			Measure Frequency	Sample Method/Type
		Other	Daily Max.	Daily Average		
Flow, (MGD)	See Part I.B.2.	----	Report	Report	Continuous	Recorder/Total izer
BOD5-day, mg/l	See Part I.B.2.	--	Report	Report	3 Days/Week	*24-hour composite
BOD5-day (lbs/day) Summer (June 1-Nov. 30)	See Part I.B.2.	--	7,000 See Part I.B.7.	3,500 See Part I.B.7.	3 Days/Week	*24-hour composite
BOD5-day (lbs/day) Winter (Dec. 1 – May 31)	See Part I.B.2.	--	14,340 See Part I.B.7.	7,170 See Part I.B.7.	3 Days/Week	*24-hour composite
TSS, mg/l	See Part I.B.2.	--	Report	Report	3 Days/Week	*24-hour composite
TSS (lbs/day) – Summer (June 1 – Nov. 30)	See Part I.B.2.		10,000 see Part I.B.7.	5,000 See Part I.B.7.	3 Days/Week	*24-hour composite
TSS (lbs/day) – Winter (Dec. 1 – May 31)	See Part I.B.2.	--	17,500 See Part I.B.7.	10,000 See Part I.B.7.	3 Days/Week	*24-hour composite
pH (S.U.)	See Part I.B.2.	6.0 Daily Min	8.5	--	5 Days/Week	Grab
Dissolved Oxygen, mg/l	See Part I.B.2.	2.7 Daily Min	--	--	5 Days/Week	Grab or Insitu
Oxygen Injected, lbs/day (Rice Creek)	See Part I.B.3.	See Part I.B.3.	--	--	5 Days/Week	Log
Specific Conductance, umhos/cm	See Part I.B.2.	--	2467, See Part I.B.8.	--	1/Month	Grab
Color, PCU	See Part I.B.2.	--	1202	--	1/Month	Grab
Turbidity, NTU	See Pt I.B.2.	--	Report	--	1/Month	Grab
Turbidity, NTU	Background, Part I.B.6.	--	Report	--	1/Month	Grab

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Turbidity, NTU	Edge of Mixing Zone, See Pt I.B.9.	--	See Part I.B.9.	--	1/Month	Grab
Fecal Coliform, #/100 ml	See Part I.B.2.	200, See Pt I.B.10.	800	--	1/Month	Grab
Total Coliform, #/100 ml	See Part I.B.2.	1000, See Part I.B.10.	2400	--	1/Month	Grab
Total Nitrogen, as N (mg/l)	See Part I.B.2.	--	Report		1/Month	Grab
TKN, as N (mg/L)	See Part I.B.2.	--	Report		1/Month	Grab
Total Ammonia, as N (mg/l)	See Part I.B.2.	--	Report	--	1/Quarter	Grab
Un-ionized Ammonia, as NH <sub>3</sub> (mg/L), Summer (June 1 – Nov. 30)	See Part I.B.2.	--	0.11 See Pt I.B.4 & Pt I.B.8	--	1/Quarter	Calculated See Part I.B.4
Un-ionized Ammonia, as NH <sub>3</sub> (mg/L), Winter (Dec. 1 – May 31)	See Part I.B.2.	--	0.13 See I.B.4 & I.B.8	--	1/Quarter	Calculated See Part I.B.4
Iron, total recoverable (mg/L)	See Part I.B.2.	--	2.91 See Part I.B.8	--	1/Quarter	Grab
Zinc, total recoverable, (ug/l)	See Part I.B.2.	--	See Pt I.B.15	--	1/Quarter	Grab
Cadmium, total recoverable (ug/l)	See Part I.B.2.	--	3.46 See Part I.B.8	--	1/Quarter	Grab
Lead, total recoverable (ug/l)	See Part I.B.2.	--	5.87 See Part I.B.8	--	1/Quarter	Grab
Temperature, degrees F	See Part I.B.2.	--	Report	--	1/Quarter	Grab
Total Hardness, mg/l as CaCO <sub>3</sub>	See Part I.B.2.	--	Report	--	1/Quarter	Grab
Total Hardness, mg/l as CaCO <sub>3</sub>	Background Part I.B.6.	--	Report	--	1/Quarter	Grab
2,3,7,8-TCDD, pg/l	See Part I.B.2.	--	0.014, See Part I.B.11.	--	Quarterly, See Pt I.B.11.	Composite See Part I.B.11.
Biological Integrity	See Pt I.B.12.	-See Part I.B.12.			Annually	See Pt I.B.12.
Settleable Solids, (ml/hr)	See Pt I.B.2.	--	0.1	--	Monthly	Grab
Chronic Whole Effluent Toxicity, (%)	See Part I.B.2.	NOEC <sub>≥</sub> 100%, See Part I.D.1 and I.D.19			Quarterly	*24-hour composite
COD, mg/l	See Part I.B.2.	--	Report	--	Monthly	*24 hour composite

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Adsorbable Organic Halides (AOX), (lbs/day) (EPA Method 1650)	See Part I.B.2.	449.54 annual average	1002.83	--	Daily	*24 hour composite
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- \* The 24-hour composite sample shall consist of 6 representative separate grab samples taken every 4 hours or continuous sampler.
2. Shall be located after final treatment but prior to actual discharge or mixing with the receiving water.
  3. Shall be located near Little Rice Creek at Outfall D-001 (mile point 3.4 upstream from mouth) and shall measure total pounds of oxygen injected per day and flow for the oxygenated effluent sidestream. The minimum oxygen injected shall not be less than 3,200 lbs/day during the months of April through the end of September.
  4. Shall be calculated based on the effluent pH, temperature, and total ammonia as N at the time of sampling using attachment 2.
  5. There shall be no discharge of floating solids or visible foam in other than trace amounts. The discharge shall not cause a visible sheen on the receiving water.
  6. A natural background station shall be determined in accordance with Part V.2 of this permit.
  7. For BOD<sub>5</sub> and TSS, the total loadings per day (lb/day) shall be determined by measuring the 24 hour composited effluent concentrations (mg/l) at the monitoring point in Part I.A.2. and multiplying these values by the effluent flow (MGD) from Outfall D-003 and by the conversion factor.
  8. The effluent limitations specified in I.B.1. above, for the parameters listed below have been calculated to ensure compliance with the applicable water quality criteria at the boundary of the mixing zone. The Permittee's discharge shall not cause an exceedance of the Chapter 62-302.530, F.A.C., Class III fresh water quality criteria outside the described mixing zones. The length of the mixing zones is centered along either side and ends of the 1,043 foot diffuser structure. The aerial extent of the mixing zones is also specified based on rise of plume with the exception of color:

<u>Parameter</u>	<u>Mixing Zone Area</u>	<u>Mixing Zone Length</u>
**Dissolved Oxygen	11,570.82 sq. meters	16.5 meters*
**Total Recoverable Iron	11,570.82 sq. meters	16.5 meters*
**Total Recoverable Cadmium	11,570.82 sq. meters	16.5 meters*
**Total Recoverable Lead	11,570.82 sq. meters	16.5 meters*
**Ammonia (un-ionized)	11,570.82 sq. meters	16.5 meters*
Turbidity	11,570.82 sq. meters	16.5 meters*
**Specific Conductance	11,570.82 sq. meters	16.5 meters*
**Color	NA	367 meters***

\*- Limited to Rise of Plume

Total Recoverable metal limits are applied based on the total recoverable fraction pursuant to Rule 62-302.500(2)(d) FAC. The Permittee may request department approval for an alternative fraction.

\*\*The mixing zones and effluent limitations for dissolved oxygen, specific conductance, color, un-ionized ammonia, total recoverable iron, total recoverable cadmium, and total recoverable lead, in Parts I.B.1 and 8., are not authorized until the Permittee receives Department approval in accordance with Part I.D.19 of this permit. The Permittee shall comply with the following Daily Max limit: Cadmium shall be calculated in accordance with Rule 62-302.530(16), FAC, and Lead shall be calculated in accordance with Rule 62-302.530(40), FAC.

\*\*\*The mixing zone for color is 367 meters upstream and downstream of the center of the 1,043 ft diffuser for a total of 734 meters and complies with FAC Rule 62-4.244(1)(f).

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9. The turbidity of the effluent shall not cause the natural background turbidity to exceed 29 NTU's outside the mixing zone referenced in Part I.B.8. During the period prior to discharge to Outfall D-003, the Permittee may elect to develop a WQBEL for turbidity in accordance with FAC Rule 62-650, in lieu of the final limit and monitoring requirements as described in Part I.B.1. Upon Department approval, the permit will be reopened (in accordance with Part VI.F of the permit) to include the final WQBEL and monitoring requirement for turbidity which will become effective no later than the date that discharge is authorized to the St. Johns River.
10. If requested by the Department, the Permittee shall conduct a minimum of 10 additional samples over a 30 day period in order to determine compliance with the Class III fresh water quality standard of FAC Rule 62-302.530(6) and (7). The monthly average shall be expressed as the geometric mean.
11. After three consecutive sampling events (including sampling events which occurred in Part I.B.1.) indicating dioxin compliance the sampling analysis frequency shall be reduced to once per year. If the concentration of 2,3,7,8-TCDD is determined to be less than the minimum detection level of 10 pg/l for method 1613, then compliance with the 2,3,7,8 limitation in this permit is demonstrated. The sample shall consist of three 24 hour composite samples. The effluent limitation for 2,3,7,8-TCDD is for that isomer only.
12. The Permittee shall conduct biological integrity monitoring on an annual basis in order to determine compliance with the biological integrity requirement of FAC Rule 62-302.530(11). The Permittee shall obtain approval from the Department for the monitoring locations and sampling requirements in accordance with Part V.3. of this permit.
13. **Internal Bleach Plant Limits - Final - (Cluster Rule)**

Parameters	Effluent Sampling Location	Discharge Limitations			Measure Frequency	Sample Method/Type
		Other	Daily Max.	Monthly Average		
2,3,7,8 TCDD, pg/l (EPA Method 1613)	See Part I.B.14.	--	<10.0	--	Monthly	***24 hour composite
2,3,7,8 TCDF, pg/l (EPA Method 1613)	See Part I.B.14.	--	<31.9	--	Monthly	***24 hour composite
Chloroform, (lbs/day)	See Part I.B.14.	--	11.96	7.16	Weekly	***24 hour composite
Trichlorosyringol, ug/l (EPA Method 1653)	See Part I.B.14.	--	<2.5	--	Monthly	***24 hour composite
3,4,5 - trichlorocatechol, ug/l (EPA Method 1653)	See Part I.B.14.	--	<5.0	--	Monthly	***24 hour composite
3,4,6 - trichlorocatechol, ug/l (EPA Method 1653)	See Part I.B.14.	--	<5.0	--	Monthly	***24 hour composite
3,4,5 - trichloroguaiacol, ug/l (EPA Method 1653)	See Part I.B.14.	--	<2.5	--	Monthly	***24 hour composite
3,4,6 - trichloroguaiacol, ug/l (EPA Method 1653)	See Part I.B.14.	--	<2.5	--	Monthly	***24 hour composite
4,5,6 trichloroguaiacol, ug/l (EPA Method 1653)	See Part I.B.14.	--	<2.5	--	Monthly	***24 hour composite
2,4,5 - trichlorophenol, ug/l (EPA Method 1653)	See Part I.B.14.	--	<2.5	--	Monthly	***24 hour composite
2,4,6 - trichlorophenol, ug/l (EPA Method 1653)	See Part I.B.14.	--	<2.5	--	Monthly	***24 hour composite
Tetrachlorocatechol, ug/l (EPA Method 1653)	See Part I.B.14.	--	<5.0	--	Monthly	***24 hour composite

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Parameters	Effluent Sampling Location	Discharge Limitations			Measure Frequency	Sample Method/Type
		Other	Daily Max.	Monthly Average		
Tetrachloroguaiacol, ug/l (EPA Method 1653)	See Part I.B.14.	--	<5.0	--	Monthly	***24 hour composite
2,3,4,6 tetrachlorophenol, ug/l (EPA Method 1653)	See Part I.B.14.	--	<2.5	--	Monthly	***24 hour composite
Pentachlorophenol, ug/l (EPA Method 1653)	See Part I.B.14.	--	<5.0	--	Monthly	***24 hour composite

\*\*\*The 24-hour composite sample shall consist of 6 representative separate grab samples taken every 4 hours or a continuous sampler, however, this does not apply to Chloroform, which shall be a grab sample, until there is an approved EPA method authorizing such composite sampling.

14. The Permittee shall obtain Department approval for the internal monitoring locations for the parameters in Part I.B.13. of the permit in accordance with the Cluster Rule. Department approval must be obtained no later than the 60 days from the final issue date of this permit. Upon Department review and approval, these internal monitoring locations will become an enforceable part of this permit.
15. A sample for effluent hardness as mg/l CaCO<sub>3</sub> must be taken at the same time of sampling for zinc from the effluent discharge. The hardness value must be used to determine compliance with the standard in rule 62-302.530(71) where the total recoverable zinc concentration in the effluent shall not be  $> e^{(0.8473[\ln H]+0.7614)}$ , where [ln H] is the natural logarithm of total hardness expressed as mg/l of CaCO<sub>3</sub>. The hardness shall be set at 25 mg/l if actual hardness is <25 mg/l and set at 400 mg/l if actual hardness is >400 mg/l.

**C. Other Methods of Disposal or Recycling**

1. There shall be no other method(s) of discharge of industrial wastewater from this facility to ground or surface waters, unless authorized by the Department in this permit or otherwise.
2. The Department has issued permit FLA176494 (effective on April 3, 1998) for the construction and operation of an approximately 18 acre pilot project spray/drip irrigation system and required appurtenances for the disposal of approximately 0.104 MGD (monthly average) of mill effluent. The objectives of the pilot project are to evaluate the feasibility of using slow-rate irrigation of mill effluent and increase tree growth, to develop critical information for development of operational design criteria, and provide the Department with the information necessary to support an operational scale program if that option is selected by the Permittee. The pilot project site is located north of the Georgia-Pacific treatment ponds near the Town of Bardin, Putnam County, Florida.

**D. Other Limitations and Monitoring and Reporting Requirements****1. Final Chronic Whole Effluent Toxicity Monitoring Program**

The Permittee shall initiate the series of tests described below, in accordance with Part I.B.1, of this permit during the final period and within 3 months of the last date of testing during the interim period to evaluate whole effluent toxicity of the discharge. For the purpose of this section, final shall mean testing and monitoring requirements upon effluent discharge through Outfall D-003 to the St. Johns River. All test species, procedures and quality assurance criteria used shall be in accordance with Short-term Methods for Estimating the Chronic Toxicity of Effluents and Receiving Waters to Freshwater Organisms, EPA/600/4-91/002, or the most current edition. The control and dilution water will be moderately hard water as described in EPA/600/4-91/002, Table 3. A standard reference toxicant quality assurance chronic toxicity test shall be conducted concurrently with each species used in the toxicity tests and the results submitted with the bioassay report or if monthly QA/QC reference toxicant tests are conducted, these results must be submitted.

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Any deviation from the bioassay procedures outlined herein shall be submitted in writing to the Department for review and approval prior to use.

- a. The Permittee shall conduct a daphnid, Ceriodaphnia dubia, Survival and Reproduction test and a fathead minnow, Pimephales promelas, Larval Survival and Growth Test. These tests shall be conducted using a control (0% effluent) and one test concentration of 100%. All test results shall be statistically analyzed according to the Appendix H. in EPA/600/4-91-002, or the most current edition.
- b. For each set of tests conducted, a 24-hour composite sample of final effluent shall be collected and used per the sampling schedule discussed in EPA/600/4-91/002, Section 8 (or the most current edition). All test solutions shall be renewed daily. Two additional composite samples collected on day two and day four of the test, used as renewal solutions, shall be collected according to the protocol.
- c. If control mortality exceeds 20% for either species in any test, the test(s) for that species (including the control) shall be repeated. A test will be considered valid only if control mortality does not exceed 20% for either species. If, in any separate test, 100% mortality occurs prior to the end of the test, and control mortality is less than 20% at that time, that test (including the control) shall be terminated with the conclusion that the sample demonstrates unacceptable toxicity. Additionally, all tests must meet the acceptability criteria for each species as defined in EPA/600/4-91/002 Section 13.11 and Section 11.11, respectively.
- d. The toxicity tests specified above shall be conducted once every three months. These tests are referred to as "routine" tests. Upon the completion of four valid tests during the final period which demonstrate that no chronic toxicity has occurred, the Permittee may petition the Department for a reduction in monitoring frequency.
- e. Results from "routine" tests shall be reported according to EPA/600/4-91/002, Section 10, Report Preparation (or the most current edition), and shall be submitted to:

FL Department of Environmental Protection  
7825 Baymeadows Way, Suite C-200  
Jacksonville, Florida 32256  
Attn: Industrial Waste Section

Additionally, all results shall be recorded and submitted as instructed on the Discharge Monitoring Report (DMR) and as described in item f and g below.

- f. If an observable effect <100% is found in any "routine" chronic test, the Permittee shall:
  1. Conduct three additional chronic tests on the species(s) indicating the toxicity.
  2. The dilution series shall include at least two dilutions above and two dilutions below the target toxicity and a control (0% effluent).
  3. The sample collection requirements and the test acceptability criteria specified in Section 1.c. above must be met for the test to be considered valid. The first test shall begin within two weeks of the end of the "routine" tests, and shall be conducted weekly thereafter until three additional, valid tests are completed. The additional tests will be used to determine if the toxicity found in the "routine" test is still present.
  4. Results from additional tests, required due to the presence of chronic unacceptable toxicity in the "routine" tests, shall be submitted in a single report prepared according to EPA/600/4-91-002, Section 10, or the most current edition and submitted within 45 days of completion of the additional, valid tests. If any of the three additional tests demonstrate unacceptable toxicity, the Permittee will meet with the Department within 30 days of the report submittal to identify corrective actions.

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- g. During the final period for the chronic test results, if the NOEC of a test species is less than 100% effluent, “<100%” should be entered on the DMR for that species. If the NOEC of a test species is greater than or equal to 100% effluent, “>100%” should be entered.

**2. Fish Tissue - Final**

- a. The Permittee shall develop a Dioxin Fish Tissue Plan of Study (POS) to annually assess the levels of TCDD/TCDF in ambient fish and shellfish tissue in the receiving waters of the St. Johns River and Rice Creek. The following table of isomers shall be assessed in the Dioxin Fish Tissue POS:

DIOXIN Isomer	DIBENZOFURAN Isomer
2,3,7,8-TCDD	2,3,7,8-TCDF
2,3,4,6,7,8-HxCDF	2,3,4,7,8-PeCDF
1,2,3,7,8-PeCDD	1,2,3,7,8-PeCDF
1,2,3,4,7,8-HxCDD	1,2,3,4,7,8-HxCDF
1,2,3,7,8,9-HxCDD	1,2,3,7,8,9-HxCDF
1,2,3,6,7,8-HxCDD	1,2,3,6,7,8-HxCDF
1,2,3,4,6,7,8-HpCDD	1,2,3,4,6,7,8-HpCDF
	1,2,3,4,7,8,9-HpCDF
1,2,3,4,6,7,8,9-OcDD	1,2,3,4,6,7,8,9-OcDF

- b. The Permittee shall submit the Dioxin Fish Tissue POS to DEP within sixty (60) days prior to discharge to Outfall D-003. The DEP will review the Plan of Study within thirty (30) days of its receipt to determine if modifications are warranted. The Permittee shall either make such corrections and re-submit the POS within 60 days of DEP’s notification or request an administrative hearing as provided in item VI. E. of this permit. The POS shall be implemented no later than one year from the date effluent is first discharged to the St. Johns River from Outfall D-003. Upon approval, the Plan of Study will become an enforceable part of this permit.
- c. After three consecutive non-detection results, for TCDD/TCDF and all isomers, in either the fish or shellfish category, sampling and analysis can be discontinued for the category.

**3. Potential Masculinization Effects POS**

- a. The Permittee shall, within 6 months prior to discharge to Outfall D-003, submit a plan of study (POS), including a schedule for such study, designed to evaluate the need for further studies to determine if the effects of the discharge causes significant masculinization effects in species of fish native to Rice Creek and the St. Johns River.
- b. The POS shall, if such effects described in a. above are observed, determine the minimum effluent concentration in which such effects may be detected.
- c. The Permittee shall, if a significant masculinization effect is identified, meet with the Department within 60 days following discovery of such effects to discuss potential follow-up actions including an assessment of any significant resulting environmental affect.
- d. The POS shall be reviewed by DEP within 60 days of its receipt. The Department will, in writing, either approve the POS or notify the Permittee of deficiencies that must be corrected. The Permittee shall either make such corrections and re-submit the POS within 60 days of the Department’s notification or request an administrative hearing as provided for in Item VI. E., of this permit. The POS shall become an enforceable condition of this permit upon approval.

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- a. Sampling for the parameters dissolved oxygen, pH, temperature, color, turbidity, BOD5, and specific conductance shall be performed at the sampling locations as specified in the HydroQual Inc. report, "Evaluation of 1992 Dissolved Oxygen Conditions in Rice Creek at Palatka, Florida" dated September 24, 1992: Figure 2 with the exception of M1-3 and E2 locations. A semi-annual survey report on the results shall be submitted to the Department in accordance with Part V.14. of this permit.
- b. For verification of the oxygen injection rates the Permittee shall perform quarterly instream surveys of Etonia and Rice Creeks. Surveys shall include the ambient conditions at the time of the survey of Etonia and Rice Creeks. These conditions shall include the tide, flow at a USGS gage (cfs), air temperature, climate conditions, along with discharge and oxygen injection rate conditions at monitoring locations B, and C (see Attachment 3) which include oxygen injection rate (#/day), BOD5 (#/day), pH, D.O. (mg/l), and temperature.

The oxygen transfer efficiency (lb/day oxygen actually transferred to Little Rice Creek and Rice Creek divided by lb/day oxygen injected) at Monitoring Location C, shall be calculated once per quarter and reported with the quarterly instream survey. The oxygen injection requirements shall be adjusted to ensure that sufficient oxygen is actually transferred to Little Rice Creek and Rice Creek to satisfy applicable dissolved oxygen levels and offset the dissolved oxygen deficit attributable to the Permittee's discharge at Monitoring Location R3 as described in Part I.B.8.

The Permittee shall conduct quarterly instream surveys of Rice Creek, Etonia Creek and the St. Johns River. These surveys shall be conducted at R7 (Rice Creek at Bardin Bridge – MP 5.7), E2 (Etonia Creek at Power Station Spillway – MP 3.75), and at Buffalo Bluff (St. Johns River MP 88.7). The surveys shall include sampling for color at R7 and E2 and sampling for color and secchi depth at Buffalo Bluff.

**5. Dissolved Oxygen Maintenance POS (Final)**

- a. Within 18 months prior to discharge to Outfall D-003 the Permittee shall submit a dissolved oxygen plan of study (DO POS) designed to determine operating conditions and protocols for the oxygen injection system to offset the dissolved oxygen deficit in Rice Creek that is due to the tidal influence of the St. Johns River and effluent discharge from Outfall D-003. The Permittee shall evaluate the necessity of extending or modifying the time period for the oxygen injection to Rice Creek to offset any dissolved oxygen deficit from the St. Johns River effluent discharge that is found to occur at times other than between the months of April through September. The Department will review the DO POS within 60 days of its receipt and will either approve the plan or notify the Permittee of deficiencies that must be corrected. The Permittee shall make such corrections and resubmit the DO POS within 60 days of the Department's notification or request an administrative hearing as provided in Part VI. E. of this permit. The DO POS and implementation schedule shall become a enforceable condition of this permit upon approval.
- b. The DO POS must address the elements necessary to develop an appropriate operating protocol (i.e. variables that affect oxygen usage rates, transfer efficiencies, such as effluent and receiving water characteristics), and include a schedule of implementation and preparation of a final report that includes a proposed operating protocol for the oxygen injection system.
- c. The DO POS implementation progress shall be included in the semi-annual reports of progress. The DO POS shall be implemented within 12 months prior to discharge to Outfall D-003. The final report shall be submitted to the Department within 6 months prior to discharge to Outfall D-003. The Department will review the final report and operating protocol within 30 days of its receipt and will either approve the report and operating protocol or notify the Permittee of deficiencies that must be corrected. The Permittee shall make such corrections and re-submit the report and operating protocol within 30 days of the Department's notification or request an administrative hearing as provided for in item VI. E., of this permit. The oxygen injection system operating protocol shall be incorporated into the Best Management Practices Plan within 90 days of the Department approval of the final report.

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Within 9 months prior to certification of construction of the last of the manufacturing process improvements, the Permittee shall submit a plan of study (POS), including a proposed implementation schedule, designed to monitor for any potential effects on water quality from the proposed effluent discharge to the St. Johns River. Water quality monitoring shall at a minimum include those parameters for which a mixing zone has been established in order to verify compliance with the established water quality standards of Chapter 62-302 FAC. A natural background sampling station in the St. Johns River and one appropriate for Rice Creek shall also be established as Part of the POS as a means for determining compliance and for monitoring purposes.

The Department, and other agencies it deems appropriate (e.g. National Marine Fisheries Service, Florida Game & Fresh Water Fish Commission, Florida Marine Research Institute, U.S. Fish and Wildlife Service, and the Environmental Protection Agency), will review the POS within 60 days of its receipt and will, in writing, either approve the POS or notify the Permittee of deficiencies that must be corrected. The Permittee shall either make such corrections and re-submit the POS within 60 days of the Department's notification or request an administrative hearing as provided for in item VI.E., of this permit. The POS shall become an enforceable condition of this permit upon approval.

**7. St. Johns River Biological Community Monitoring POS**

Within 12 months prior to certification of completion of construction of all of the process improvements, the Permittee shall submit a plan of study (POS), including a proposed implementation schedule, designed to monitor any potential effects on biological communities, in accordance with the biological integrity requirement of FAC Rule 62-302.530(11), from the proposed effluent discharge to the St. Johns River. Biological community monitoring shall at a minimum include submerged grasses, aquatic macroinvertebrates, and fish.

The Department, and other agencies it deems appropriate (e.g. National Marine Fisheries Service, Florida Game & Fresh Water Fish Commission, Florida Marine Research Institute, U.S. Fish and Wildlife Service, and the Environmental Protection Agency), will review the POS within 60 days of its receipt and will, in writing, either approve the POS or notify the Permittee of deficiencies that must be corrected. The Permittee shall either make such corrections and re-submit the POS within 60 days of the Department's notification or request an administrative hearing as provided for in item VI.E. of this permit. The POS shall become an enforceable condition of this permit upon approval.

**8. Plan for Phase in of Effluent Discharge to the St. Johns River at Outfall D-003**

The Permittee shall submit a plan for phasing in the effluent discharge to the St. Johns River at Outfall D-003 no later than 48 months from the issue date of this permit. The plan shall include a strategy for transferring the effluent discharge from Rice Creek to the St. Johns River so as to minimize dissolved oxygen impacts to Rice Creek. The Department will review the plan within 60 days of its receipt and will either approve the plan or notify the Permittee of deficiencies that must be corrected. The Permittee shall make such corrections and re-submit the plan within 60 days of the Department's notification or request an administrative hearing as provided in Part VI. E. of this permit. The plan and implementation schedule shall become an enforceable condition of this permit upon approval.

**9. Cadmium and Lead POS**

The Permittee shall submit a Plan of Study (POS), within 60 days of the effective date of this permit, including a proposed implementation schedule, utilizing clean sampling techniques, designed to monitor and report the ambient levels of Cadmium and Lead in the vicinity of the discharge to the St. John's River through Outfall D-003. The Department, and other agencies it deems appropriate (e.g. Environmental Protection Agency), will review the POS within 60 days of its receipt and will, in writing, either approve the POS or notify the Permittee of deficiencies that must be corrected. The Permittee shall either make such corrections and re-submit the POS within 60 days of the Department's notification or request an administrative hearing as provided for in item VI.E., of this permit. The POS shall become an enforceable condition of this permit upon approval.

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10. The sample collection, analytical test methods and method detection limits (MDLs) applicable to this permit shall be in accordance with Rule 62-4.246, Chapters 62-160 and 62-601, F.A.C., and 40 CFR 136, as appropriate. The list of Department established analytical methods, and corresponding MDLs (method detection limits) and PQLs (practical quantification limits), which is titled "Florida Department of Environmental Protection Table as Required By Rule 62-4.246(4) Testing Methods for Discharges to Surface Water" dated June 21, 1996, is available from the Department on request. The MDLs and PQLs as described in this list shall constitute the minimum acceptable MDL/PQL values and the Department shall not accept results for which the laboratory's MDLs or PQLs are greater than those described above unless alternate MDLs and/or PQLs have been specifically approved by the Department for this permit. Any method included in the list may be used for reporting as long as it meets the following requirements:
- The laboratory's reported MDL and PQL values for the particular method must be equal or less than the corresponding method values specified in the Department's approved MDL and PQL list;
  - The laboratory reported PQL for the specific parameter is less than or equal to the permit limit or the applicable water quality criteria, if any, stated in Chapter 62-302, F.A.C. Parameters that are listed as "report only" in the permit shall use methods that provide a PQL, which is equal to or less than the applicable water quality criteria stated in 62-302 FAC; and
  - If the PQLs for all methods available in the approved list are above the stated permit limit or applicable water quality criteria for that parameter, then the method with the lowest stated PQL shall be used.

Where the analytical results are below method detection or practical quantification limits, the permittee shall report the actual laboratory MDL and/or PQL values for the analyses that were performed following the instructions on the applicable discharge monitoring report. Approval of alternate laboratory MDLs or PQLs are not necessary if the laboratory reported MDLs and PQLs are less than or equal to the permit limit or the applicable water quality criteria, if any, stated in Chapter 62-302, F.A.C. However, where necessary, the permittee may request approval for alternative methods or for alternative MDLs and PQLs for any approved analytical method, in accordance with the criteria of Rules 62-160.520 and 62-160.530, F.A.C.

11. Monitoring results obtained for each calendar month shall be summarized for that month and reported on a Discharge Monitoring Report (DMR), Form 62-620.910(10), postmarked no later than the 28th day of the month following the completed calendar month. For example, data for January shall be submitted by February 28. Signed copies of the DMR shall be submitted to the address specified below:

Florida Department of Environmental Protection  
Wastewater Facilities Regulation Section, Mail Station 3551  
Twin Towers Office Building  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

If no discharge occurs during the reporting period, sampling requirements of this permit do not apply. The statement "No discharge" shall be written on the DMR form. If, during the term period of this permit, the facility ceases to discharge, the Department shall be notified immediately upon cessation of discharge. Such notification shall be in writing.

12. Unless specified otherwise in this permit, all other reports and notifications required by this permit, including twenty-four hour notifications, shall be submitted to or reported to, as appropriate, the Northeast District Office of the Department at the address specified below:

Florida Department of Environmental Protection  
Northeast District Office  
7825 Baymeadows Way, Suite 200 C  
Jacksonville, FL 32256-7590

13. The Permittee shall provide safe access points for obtaining representative samples which are required by this permit.

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14. The Permittee shall ensure that all laboratory analytical data submitted to the department as required by this permit is from a laboratory which has a currently valid and Department-approved Comprehensive Quality Assurance Plan (ComQAP) [or a ComQAP pending approval] for all parameters being reported as required by Chapter 62-160, Florida Administrative Code.
15. If there is no discharge from the facility on a day scheduled for sampling, the sample shall be collected on the day of the next discharge.
16. Any bypass of the treatment facility which is not included in the monitoring specified in Part I.A. and B. is to be monitored for flow and all other required parameters. For parameters other than flow, at least one grab sample per day shall be monitored. Daily flow shall be monitored or estimated, as appropriate, to obtain reasonable data. All monitoring results shall be reported on the appropriate DMR.
17. The Permittee has been granted authorization to operate a permanent wetdeck system for the storage and preserving of wood prior to processing. The wetdeck is located in the diked area that was previously used for black liquor storage prior to installation of the black liquor storage tanks. The diked containment system where the logs are stored operates as a closed loop system with water loss occurring only due to evaporation and percolation. Water from the wetdeck may be discharged to the wastewater treatment system following extreme storm events. Logs are sprayed with reclaimed water from various sources including water from existing storm water ponds located at the solid waste disposal area, water from the ash sluice pond, and other source water upon obtaining written Department approval. The Permittee shall maintain a written record of the water usage, including make up water source and volume, and any water discharged to the wastewater treatment system resulting from extreme storm events. A quarterly summary report shall be submitted to the address referenced in Part I.D.8, describing the water flows through the wetdeck system.
18. **Solid Waste Disposal Area and Storm Water Management System**

In connection with the facility, Permittee operates and maintains an on-site solid waste disposal facility which receives clean construction debris, calcium carbonate, boiler ash, and other solids generated as by-products from the papermaking operation. Ground water monitoring of the solid waste disposal area shall be performed in accordance with Part III of this permit. Permittee also operates and maintains the surface water management system including in-line retention basins 1, 4, 5 and wet detention basin 2 to receive and treat storm water runoff from the solid waste disposal area.

  - a. A copy of the Department approved surface water management system engineering drawings, plans, reports, groundwater monitoring plan, and supporting information shall be kept at the facility at all times for reference and inspections.
  - b. Deficiencies discovered at the solid waste disposal site and storm water management system that may compromise groundwater, surface water, or other environmental standards shall be repaired immediately. Other deficiencies shall be corrected within one month of the time of discovery. If operational maintenance measures are insufficient to enable the system to meet the design standards, the Permittee must either replace the system or construct an alternative design. The Permittee must submit a permit modification application within sixty (60) days of the date the system was determined to be design deficient.
  - c. The solid waste disposal site shall be supervised and inspected by qualified individuals(s) two times a week at a minimum. These inspections shall consist of checks to determine that the waste is being discharged at the correct location, and that the solid waste disposal site is being operated properly and in a manner that will not compromise environmental standards as a minimum. If problems or evidence of less than satisfactory operations are observed, then the frequency of inspections shall be increased to daily until otherwise authorized by the Department.
  - d. The Permittee shall provide the Department with a waste quantity report for the solid waste disposal site. This report shall include the amount of waste in cubic yards that is received as well as removed from the site. This information shall be compiled monthly and submitted as part of the quarterly groundwater monitoring report.

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- e. The storm water management system shall be inspected monthly. Any breach of storm water system integrity shall be immediately repaired. Inlets and outlets shall be inspected for signs of erosion. Whenever erosion is detected, measures shall be taken to stabilize and protect the affected area. Clean broken concrete or other material approved by the Department may also be used for erosion control. Debris, trash, etc., shall be removed from basins and control structures. Sediment removal will be undertaken when storage volume or conveyance capacity falls below design capacity. Mowing and management of grass clippings shall be conducted on a regular basis. Aeration; tilling or replacement of topsoil will be conducted as needed to restore percolation capability of the system. All disturbed areas, swales, and retention basin side slopes must be sodded or seeded and mulched within 30 days following maintenance or repair, and a substantial vegetation cover must be established within 60 days of seeding.
- f. All construction, operation, and maintenance of the storm water system shall be as set forth in the plans, specification, and performance criteria contained in the Department file and approved by this permit.
- g. If any other regulatory agency should require revisions or modification to the permitted project, the Department is to be notified of the revisions so that a determination can be made whenever a permit modification is required.
- h. The Permittee is responsible for the operation of all erosion and sediment controls for the surface water management system and solid waste disposal site. The Permittee is encouraged to use the appropriate Best Management Practices described in the Florida Land Development Manual: A Guide to Sound Land and Water Management (DEP, 1988).
- i. Pursuant to FAC Rules 62-522.600(3)(k) and 62-620.320(6), surface water monitoring is required on a quarterly basis in conjunction with the groundwater monitoring schedule for the solid waste disposal site. The following Surface Water Monitoring Program shall be implemented and sampling, analysis, and reporting shall be conducted and submitted to the Department at the same time as the groundwater samples are taken, analyzed, and submitted.
  - (1) The surface water sample shall be located in the approximate location indicated in Attachment 4 and as follows:

<u>Site Number</u>	<u>Location</u>
SW-1	Background – the existing tide gauge at the Rice Creek Fuel Slip
SW-2	Basin 2
SW-3	the USGS Rice Creek gauging station located on SR 100
SW-4	Basin 4
SW-5	Basin 5

- (2) Surface water sampling sites SW-1 and SW-3 shall be sampled for water level, pH and turbidity. Surface water sampling site SW-2 shall be analyzed quarterly upon discharge only for the parameters listed in Attachment 5. After two (2) consecutive non-detection results have occurred for any parameter referenced in Attachment 5, sampling and analysis for that parameter may be discontinued. Surface water sampling sites SW-4 and SW-5 shall be monitored and limited upon discharge only as follows:

<b>Parameters</b>	<b>Daily Min.</b>	<b>Daily Max</b>	<b>Measure Frequency</b>	<b>Sample Method/Type</b>
BOD5-day		30 mg/l	Quarterly	Grab
TSS		30 mg/l	Quarterly	Grab
pH (Note 1)	6.0	8.5	Quarterly	Grab
Oil & Grease		5 mg/l	Quarterly	Grab
Turbidity		(Note 2)	Quarterly	Grab

Note (1) In accordance with 62-302.530(52)c.

Note (2) Turbidity shall no exceed 29 NTU above natural background.

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- (3) Sampling results shall be reported on the Parameter Monitoring Report (DEP Form 62-522.900(2)). The original forms should be retained so that the necessary information is available to properly complete future reports. The analytical laboratory reports must be submitted along with the Parameter Monitoring Report Forms.

In addition to the information provided on the Parameter Monitoring Report Form, the following shall be generated:

- a. The laboratory report shall indicate the analytical method on each data sheet, the detection limits, and the dilution factor.
  - b. The report shall show, in columnar form, the analytical results and, where applicable, the corresponding Florida Groundwater Standards and/or criteria.
  - c. All peaks greater than the EPA specified detection limit for the analytical method shall be identified.
- (4) The Permittee shall ensure that the surface water discharged from the in-line retention basins shall not exceed the water quality standards of Chapter 62-302 F.A.C for Class III fresh waters. If at any time water quality standards and/or criteria are exceeded, the Permittee shall immediately notify the Department. During regular business hours notification shall be made to the Northeast District Office at (904) 448-4320. If an emergency occurs outside regular business hours, the Permittee shall telephone the 24-hour emergency phone number (904) 448-1320. This number is for emergencies only. Within 7 days of telephone notification, the Permittee shall submit to the Department a written report explaining the extent of the problem, its cause, and what actions have been or will be taken to correct the problem.
- j. Water from the stormwater management system has been authorized for use in the Wetdeck System referenced in Part I.D.17. Pumps installed in Ponds 2, 4 and 5 may pump water from these ponds to the Wetdeck system or treated in the industrial wastewater treatment system.

19. By no later than 12 months after certification of completion of construction of the manufacturing process improvements described in Part III. 3. of the Administrative Order, the Permittee shall submit a written report to the Department substantiating the need for the Part I.B.2 effluent limits and mixing zones for total recoverable lead, total recoverable cadmium, total recoverable iron, color, specific conductance, dissolved oxygen, and un-ionized ammonia for the proposed discharge from outfall D-003. The Permittee shall re-evaluate the need for the established mixing zones and effluent limitations based on effluent data from required monitoring, ambient water quality in the St. Johns River, river dynamics and any necessary modeling. This re-evaluation is necessary after the process improvements have been optimized since the effluent quality may change based on the process improvements. This is also consistent with FAC Rule 62-4.244(1)(f). Upon Department approval, the permit will be reopened (in accordance with Part VI.F of the permit) to include the applicable final mixing zones, effluent limitations and monitoring requirements which will become effective no later than the date that discharge is authorized to the St. Johns River.

By no later than 12 months after certification of completion of construction of the manufacturing process improvements described in Part III. 3. of the Administrative Order, the Permittee shall submit a written report to the Department in the event a mixing zone is determined to be required for chronic whole effluent toxicity. The Permittee shall evaluate the need for mixing zone for chronic whole effluent toxicity based on effluent data from required monitoring, ambient water quality in the St. Johns River, river dynamics and any necessary modeling. This evaluation is necessary after the process improvements have been optimized since the effluent quality may change based on the process improvements. This is also consistent with FAC Rule 62-4.244(1)(f). Upon Department approval, the permit will be reopened (in accordance with Part VI.F of the permit) to include the applicable final mixing zone which will become effective no later than the date that discharge is authorized to the St. Johns River.

20. The Permittee is authorized to conduct discharges of man produced ground water from construction activities to surface and ground waters of the state. Such discharges shall be in accordance with the applicable generic permit (FAC Rules

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62-621.300(1),(2) and (5). Such discharges shall comply with applicable ground or surface water quality standards of the state pursuant to Chapter 62-302 (surface water), and Chapters 62-520 and 62-550 (ground water). The Permittee shall notify the Department of compliance with the applicable regulations prior to initiating such discharge.

**II. Industrial Sludge Management Requirements**

1. Wastewater treatment solids from the primary clarifier are pumped to sludge lagoons for dewatering. The dewatered wastewater treatment solids are land applied on-site. Ground water monitoring of the sludge lagoons shall be performed in accordance with Part III of this permit.
2. The Permittee shall give prior notice to the Department of any change planned in the Permittee's sludge disposal practice. If the Permittee land applies primary clarifier sludge's off the mill site, the Permittee shall keep records of the amount of sludge disposed, transported, or incinerated in dry tons/day. If a person other than the Permittee is responsible for sludge transporting, disposal, or incineration, the Permittee shall also keep the following records:
  - (a) name, address, and telephone number of any transporter, and any manifests or bill of lading used.
  - (b) name and location of the site of disposal, treatment, or incineration.
  - (c) name, address, and telephone number of the entity responsible for the disposal, treatment, or incineration site.
3. The Department has approved the beneficial reuse of mill by-products on a trial basis as detailed in separate correspondence on file with the Department. Any future beneficial reuse projects will have to be approved by separate correspondence with the Department.

**III. Groundwater Monitoring Requirements**

1. During the period of operation authorized by this permit, the Permittee shall sample ground water in accordance with this permit and the approved ground water monitoring plan prepared under Rule 62-522.600, F.A.C.
2. The following monitoring wells are included in the ground water monitoring plan.

**TABLE 1: SLUDGE and MILL SITE MONITORING**

<i>Well Name</i>	<i>Monitoring Location Site Number</i>	<i>Depth (Feet)</i>	<i>Approximate Well Location</i>	<i>Well Type</i>	<i>New or Existing</i>
GP-8	3154A13280	17	300' northwest of chip pile	Intermediate	Existing
GP-9	3154A13281	17	Approx. 50' northeast of entrance to G-P Technology Center	Background	Existing
GP-11	3154A14814	9	NE corner of sludge ponds.	Intermediate	Existing
GP-16	3154A14815	13.5	Along northern margin of sludge ponds.	Intermediate	Existing
GP-17	3154A14816	50	NE corner of sludge ponds.	Intermediate	Existing
GP-18	3154A14817	12	Approx. 400' east of sludge ponds.	Intermediate	Existing

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<i>Well Name</i>	<i>Monitoring Location Site Number</i>	<i>Depth (Feet)</i>	<i>Approximate Well Location</i>	<i>Well Type</i>	<i>New or Existing</i>
GP-1	3154A13273	30	NW corner of oxidation ponds.	Compliance	Existing
GP-4	3154A13276	15	SE corner of oxidation ponds.	Intermediate	Existing
GP-5R		Aprx 20	Along SW margin of oxidation ponds.	Compliance	New
GP-12	3154A14255	15	Approx. 1 mile WSW of well GP-1.	Background	Existing
GP-13	3154A14256	12	Along north margin of oxidation ponds.	Compliance	Existing
GP-14	3154A14257	50	Along north margin of oxidation ponds.	Compliance	Existing
GP-15	3154A14258	13	SE corner of oxidation ponds.	Compliance	Existing

**TABLE 3: SOLID WASTE DISPOSAL AREA MONITORING**

<i>Well Name</i>	<i>Monitoring Location Site Number</i>	<i>Depth (Feet)</i>	<i>Approximate Well Location</i>	<i>Well Type</i>	<i>New or Existing</i>
GP-6	N/A	28	Along NW margin of solid waste disposal unit.	Compliance	Existing
GP-9	315A13281	17	Approximately 1,800' ESE of black liquor pond on south side of John Campbell Hwy.	Background	Existing
GP-10R	N/A	15	Along SE margin of solid waste disposal unit.	Intermediate	Existing
GP-12	3154A142555	15	Approximately 1 mile WSW of well GP-1.	Background	Existing
GP-19	N/A	12	Along SE margin of solid waste disposal unit.	Intermediate	Existing
GP-20	N/A	12	Along SE margin of solid waste disposal unit.	Intermediate	Existing
GP-21	N/A	12	Along southern margin of solid waste disposal unit.	Intermediate	Existing
GP-22	N/A	50	Along southern margin of solid waste disposal unit.	Intermediate	Existing
GP-23	N/A	13	Along SW margin of solid waste disposal unit.	Intermediate	Existing
GP-24	N/A	13	Along western margin of solid waste disposal unit.	Intermediate	Existing
GP-25	N/A	50	Along NW margin of solid waste disposal unit.	Intermediate	Existing
GP-26	N/A	12	Along northern margin of solid waste disposal unit.	Intermediate	Existing
GP-27	N/A	12	North of solid waste disposal unit at bridge over Rice Creek	Compliance	Existing
GP-28	N/A	12	West of solid waste disposal unit, 250 feet west of GP-24.	Compliance	New

Well locations for the monitor wells listed in Table 3 shall be in accordance with the submittal from Georgia Pacific dated February 9, 1998, Plate 1 - ***“Proposed Compliance Well and Ground Water Elevation Contour Map January 29, 1998 Palatka Mill”***.

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3. All new monitor wells shall be installed by a Florida licensed water well contractor. Well design, installation and development shall be in accordance with ASTM standard D-5092. All monitor wells are to be permanently labeled as to identity and top-of-casing elevation.
4. Within 30 days of installation of a new monitoring well, the Permittee shall submit detailed information on the well's location and construction on DEP Form 62-522.900(3). [62-522.600, 8/21/00]. In addition, the following information shall be included as part of that submittal.

Well identification	Driller's Lithologic Log	Elevation at top of pipe
Latitude/Longitude	Total well depth	Elevation at land surface
Aquifer monitored	Casing diameter	SJRWMD well construction
Screen type and slot size	Casing type and length	Permit Number

A surveyed drawing shall also be submitted within fifteen (15) days of the completion of well construction, showing the location of all new monitoring wells which will be horizontally located by metes and bounds or equivalent surveying techniques. The surveyed drawing shall include the monitor well identification number as well as location and elevation of all permanent benchmark(s) and/or corner monument marker(s) at the site. The survey shall be conducted by a Florida Registered Surveyor.

5. All new monitor wells shall have a baseline analysis for the following parameters made within 90 days of construction:  
 Primary Inorganics (62-550.310, FAC)  
 Secondary Standards (62-550.320, FAC)  
 Organic Analytes of EPA Methods 601 and 602
6. All monitor wells included in Tables 1 and 2 above, shall be sampled for the parameters, and at the frequencies described below. Additional monitoring wells, sample events, and parameters may be specified if warranted by subsequent monitoring data.

<i>PARAMETER</i>	<i>STORET</i>	<i>FREQUENCY</i>	<i>SAMPLE TYPE</i>
Water elevation (feet)	82545	Semi-annual	in-situ
Specific Conductance (µmhos/cm)	00094	Semi-annual	in-situ
pH (standard units)	00406	Semi-annual	in-situ
Chloride (mg/l)	00940	Semi-annual	grab
Sulfate (mg/l)	00945	Semi-annual	grab
Turbidity (NTU)	82078	Semi-annual	grab
Chromium (ug/l)	01034	Semi-annual	grab
Lead (ug/l)	01051	Semi-annual	grab
Iron (ug/l)	01045	Semi-annual	grab
Sodium (mg/l)	00929	Semi-annual	grab

Following a minimum of one (1) year of quarterly sampling, data may be reviewed by the Permittee to evaluate changes in parameters and sampling frequencies that may be appropriate. Any changes to the monitoring program shall be proposed in a request for a permit modification.

7. All intermediate and compliance monitor wells included in Table 3 above, shall be sampled for the parameters, and at the frequencies described below. Additional monitoring wells, sample events, and parameters may be specified if warranted by subsequent monitoring data.

<i>PARAMETER</i>	<i>STORET</i>	<i>FREQUENCY</i>	<i>SAMPLE TYPE</i>
Water elevation (feet)	82545	Semi-annual	field
Specific Conductance (µmhos/cm)	00094	Semi-annual	field
PH (standard units)	00406	Semi-annual	field

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Dissolved Oxygen (mg/l)	00300	Semi-annual	field
Water Temperature (degree C)	00010	Semi-annual	field
Colors & Sheens	N/A	Semi-annual	field
Total Dissolved Solids (mg/l)	70304	Semi-annual	laboratory
Total Organic Carbon	00680	Semi-annual	laboratory
Chloride (mg/l)	00940	Semi-annual	laboratory
Sulfate (mg/l)	00945	Semi-annual	laboratory
Turbidity (NTU)	82078	Semi-annual	laboratory
Arsenic (ug/l)	01002	Semi-annual	laboratory
Cadmium (ug/l)	01027	Semi-annual	laboratory
Chromium (ug/l)	01034	Semi-annual	laboratory
Copper (ug/l)	01042	Semi-annual	laboratory
Iron (ug/l)	01045	Semi-annual	laboratory
Lead (ug/l)	01051	Semi-annual	laboratory
Manganese (ug/l)	01055	Semi-annual	laboratory
Mercury (ug/l)	71900	Semi-annual	laboratory
Sodium (mg/l)	00929	Semi-annual	laboratory
Zinc (ug/l)	01092	Semi-annual	laboratory
Analytes of EPA Method 601	N/A	Annual	laboratory
Analytes of EPA Method 602	N/A	Annual	laboratory

Following a minimum of one (1) year of quarterly sampling, data may be reviewed by the Permittee to evaluate changes in parameters and sampling frequencies that may be appropriate. Any changes to the monitoring program shall be proposed in a request for a permit modification.

8. Ground water sampling and reporting shall conform to the schedule set forth below, with monitoring results to be submitted in duplicate on DEP Form 62-620.910(10), or such other format as approved by the Department. [62-522.600 (11)(b), 8/21/00]

<b>SAMPLE PERIOD</b>	<b>Quarterly</b>	<b>Semi-annual</b>	<b>REPORT DEADLINE</b>
(January-March)	X		April 28 <sup>th</sup>
(April-June)	X	X	July 28 <sup>th</sup>
(July-September)	X		October 28 <sup>th</sup>
(October-December)	X	X	January 28 <sup>th</sup>

9. All sample collection and laboratory analysis shall be performed in accordance with FAC Chapter 62-160 and FAC Rule 62-522.600. Minimum detection limits shall be at or below the groundwater or surface water standards and/or criteria
10. A zone of discharge has been established. It extends horizontally along the ground surface to the property line and vertically to the top of the uppermost confining unit. [62-520.200(23), 62-522.400, and 62-522.410]. Pursuant to FAC Rule 62-522.410, the zone of discharge for the facility shall be limited horizontally to the property boundary, or to the shortest distance between the location of the compliance monitoring well and the solid waste management unit, whichever is less. The Permittee may replace an existing compliance well with a new compliance well upon department approval for any compliance well that is substantially interior to the property line. All compliance monitoring wells in the solid waste management unit portion of the groundwater monitoring program shall be used to determine compliance with state groundwater standards and criteria and shall exist outside and beyond the zone of discharge. This zone of discharge shall remain in effect unless it becomes necessary to seek a change, in accordance with FAC Rule 62-522.410.
11. Water levels shall be recorded prior to evacuating the well for sample collection. Measurements, referenced to NGVD, shall include the top of the well casing, depth to ground water, and the calculated ground water elevation at a precision of  $\pm 0.01$  feet. Groundwater levels for new wells shall be recorded no less than forty-eight (48) hours after well installation

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and prior to evacuating the well for sample collection. This information shall be submitted to the Department with the groundwater analytical results. A map shall be constructed depicting locations of wells and piezometers, surface water staff gage locations and the corresponding water level measurements. In the event that the data indicates a variation in the horizontal or vertical flow directions such that existing wells are not adequate to intercept potential contaminants generated from the facility, the Permittee shall propose additional wells to correct that deficiency or the Department shall require wells to be installed to correct that deficiency.

12. The Permittee shall monitor the data obtained from the ground and surface water monitoring system and the site specific conditions. A biennial report shall be submitted to the Department by the Permittee analyzing the appropriateness of the groundwater monitoring well and surface water sampling locations to intercept any potential contaminant plume that may generate from the solid waste management area; including the groundwater surface maps, an analysis of seasonal variation in groundwater levels, flow directions and quality, and a graphic plot of analytical laboratory data over time for the quarterly sampling parameters. The Permittee shall prepare and submit this information by 24 months from the effective date of this permit and 48 months from the effective date of this permit.
13. Ground water monitoring wells shall be evacuated or purged prior to sampling to obtain a representative sample. All sample collection and analytical procedures shall be in accordance with the approved ground water monitoring plan and the requirements of FAC Chapter 62-160 and FAC Rule 62-522.600.
14. Analyses shall be conducted on un-filtered samples, unless filtered samples have been approved by the Department as being more representative of ground water conditions.
15. If a monitoring well becomes damaged or cannot be sampled for some reason, the Permittee shall notify the Department with a written report within seven days detailing the circumstances and remedial measures taken or proposed. Replacement of monitoring wells shall be approved in advance by the Department.
16. A summary report shall be prepared and submitted within the 180 days preceding the permit expiration date. The report shall include water table contour maps for the 8 most recent sample events, along with a complete tabulated record and graphical plot for each parameter. It shall also incorporate an evaluation of the analytical data with respect to the water quality standards, ground water elevations and temporal variability. The report shall be signed and sealed by a ground water professional.
17. All correspondence, reports, plans and summaries pertaining to ground water monitoring shall be sent to the attention of the Ground Water Section at the DEP Northeast District Office.
18. The Permittee's discharge to ground water shall not cause a violation of water quality standards for Class G-II ground waters at the boundary of the zone of discharge in accordance with rules 62-520.400 and 62-520.420, F.A.C.
19. The Permittee's discharge to ground water shall not cause a violation of the minimum criteria for ground water specified in rule 62-520.400, F.A.C., within the zone of discharge.
20. Based on any information or data obtained after the effective date of this permit, the Department reserves the right to modify the conditions set forth herein pursuant to the latest state Rules and regulations (before or after the effective date of this permit); and may modify the permit conditions to address additional groundwater assessment, additional monitoring wells and/or analytical parameters and compliance monitoring.

#### **IV. Operation and Maintenance Requirements**

##### **A. Operation of Treatment and Disposal Facilities**

1. The Permittee shall ensure that the operation of this facility is as described in the application and supporting documents.

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2. The operation of the pollution control facilities described in this permit shall be under the full time supervision of a person who is qualified by formal training and/or practical experience in the field of water pollution control.

**B. Record Keeping Requirements:**

The Permittee shall maintain the following records on the site of the permitted facility and make them available for inspection:

1. Records of all compliance monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, including, if applicable, a copy of the laboratory certification showing the certification number of the laboratory, for at least three years from the date the sample or measurement was taken;
2. Copies of all reports, other than those required in items 1. and 6. of this section, required by the permit for at least three years from the date the report was prepared, unless otherwise specified by Department rule;
3. Records of all data, including reports and documents used to complete the application for the permit for at least three years from the date the application was filed, unless otherwise specified by Department rule;
4. A copy of the current permit;
5. A copy of any required record drawings;
6. Copies of the logs and schedules showing plant operations and equipment maintenance for three years from the date on the logs or schedule

**V. Compliance Schedules and Self-imposed Improvement Schedules**

The Permittee shall achieve compliance with the conditions of this permit in accordance with the following schedule:

1. **Operational level attained - effective date of permit**
2. **St. Johns River Water Quality Monitoring POS - Part I.D.6** Within 9 months prior to certification of construction of the last of the manufacturing process improvements, the Permittee shall submit the St. Johns River Water Quality Monitoring (POS) referenced in part I.D.6.
3. **St. Johns River Biological Community Monitoring POS - Part I.D.7** Within 12 months prior to certification of completion of construction of all of the process improvements, the Permittee shall submit the St. Johns River Biological Community Monitoring POS referenced in Part I.D.7.
4. **Notification of Completion Construction** Within 30 days from completion of construction of the pipeline, the Permittee shall submit DEP Form 62-620.910(12), Notification of Completion of Construction for Wastewater Facilities.
5. **Availability of Record Drawings** Within 6 months from completion of construction of the pipeline -The notification of the availability of record drawings shall be filed with the Department within six months of completion of construction. Notification shall be made on DEP Form 62-620.910(13).
6. **Final Dioxin Fish Tissue POS - Part I.D.2.** The Permittee shall submit the Dioxin Fish Tissue POS to DEP within sixty (60) days prior to discharge from Outfall D-003. . The POS shall be implemented no later than one year from the date effluent is first discharged to the St. Johns River from Outfall D-003.
7. **Final DO POS - Part I.D.5.** The DO POS shall be implemented within 12 months prior to discharge to Outfall D-003.
8. **Masculinization Effects POS - Part I.D.3.** The Permittee shall, within 6 months prior to discharge to Outfall D-003, submit a plan of study (POS), including a schedule for such study, designed to evaluate the need for further studies to determine if the effects of the discharge causes significant masculinization effects in species of fish native to Rice Creek and the St. Johns River.
9. **Plan for Phase in of Effluent Discharge to the St. Johns River at Outfall D-003 – Part I.D.8** within 12 months from the issue date of this permit.

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**10. BMP Compliance Deadlines - Part VI.D.2**

- a. Within 30 days of effective date of the permit - Part VI.D.2a
- b. effective date of the permit - Part VI.D.2b
- c. effective date of the permit - Part VI.D.2c
- d. effective date of the permit - Part VI.D.2d
- e. April 15, 2001 - Part VI.D.2e
- f. effective no later than January 15, 2002 - Part VI.D.2f

**11. Cluster Rule Effluent Limitations and Monitoring Requirements Part I.B.13 and 15 - April 15, 2001**

**12. Cadmium and Lead POS Part I.B.9** Within 60 days of the effective date of this permit

**13. Re-evaluation of mixing zones and chronic toxicity evaluation pursuant to Part I.D.19 (outfall D-003 scenario) –**  
Within 12 months after certification of completion of construction of the manufacturing process improvements described in Part III. 3. of the Administrative Order.

14. The Permittee shall submit either a report of progress or, in the case of specific actions being required by an identified date, a written notice of compliance or non-compliance within 14 calendar days following a date identified in the above schedule of compliance, unless otherwise specified in this permit. In the latter case, the notice shall include the cause of noncompliance, any remedial actions taken, and the probability of meeting the next scheduled requirement.

15. The Permittee shall, within 30 days of the issue date of this permit, and at semi-annual intervals thereafter until fulfillment of all the requirements of the compliance schedules in Part V of the permit, submit to DEP concise progress reports on the Permittee’s actions and efforts to comply with the requirements of the permit and compliance schedules contained in Part V.

**VI. Other Specific Conditions**

**A. Specific Conditions Applicable to all permits**

- 1. Drawings, plans, documents or specifications submitted by the Permittee, not attached hereto, but retained on file at FDEP, Northeast District, are made a part hereof.
- 2. If significant historical or archaeological artifacts are discovered at any time within the project site, the Permittee shall immediately notify the District Office and the Bureau of Historic Preservation, Division of Archives, History and Records Management, R.A. Gray Building, Tallahassee, Florida 32301.
- 3. Where required by Chapter 471 (P.E.) or Chapter 492 (P.G.) Florida Statutes, applicable portions of reports to be submitted under this permit, shall be signed and sealed by the professional(s) who prepared them.
- 4. This permit satisfies Industrial Wastewater program permitting requirements only and does not authorize operation of this facility prior to obtaining any other permits required by local, state or federal agencies.

**B. Duty to Reapply**

- 1. The Permittee shall submit an application to renew this permit at least 180 days before the expiration date of this permit.
- 2. The Permittee shall apply on the appropriate form listed in Rule 62-620.910, F.A.C., and in the manner established in Rules 62-620.400 through 62-620.460, F.A.C., including submittal of the appropriate processing fee set forth in Rule 62-4.050, F.A.C.
- 3. An application filed in accordance with subsections 1. and 2. of this part shall be considered timely and sufficient. When an application for renewal of a permit is timely and sufficient, the existing permit shall not expire until the Department has taken final action on the application for renewal or until the last day for seeking judicial review of the agency order or a later date fixed by order of the reviewing court.

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4. The late submittal of a renewal application shall be considered timely and sufficient for the purpose of extending the effectiveness of the expiring permit only if it is submitted and made complete before the expiration date.

**C. Specific Conditions Related to Existing Manufacturing, Commercial, Mining, and Silviculture Wastewater Facilities or Activities**

1. Existing manufacturing, commercial, mining, and silvicultural wastewater facilities or activities that discharge into surface waters shall notify the Department as soon as they know or have 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 which is not limited in the permit, if that discharge will exceed the highest of the following levels:
    - (1) One hundred micrograms per liter,
    - (2) Two hundred micrograms per liter for acrolein and acrylonitrile; five hundred micrograms per liter for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter for antimony,
    - (3) Five times the maximum concentration value reported for that pollutant in the permit application, or
    - (4) The level established in the permit by the Department that exceeds the levels in subparagraphs (a)1., 2., and 3. of this section. The level established in the permit shall not exceed the technology-based treatment requirements appropriate to the Permittee established in chapter 62-660, F.A.C.
  - 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 which is not limited in the permit, if that discharge will exceed the highest of the following levels:
    - (1) Five hundred micrograms per liter,
    - (2) One milligram per liter for antimony,
    - (3) Ten times the maximum concentration value reported for that pollutant in the permit application, or
    - (4) The level established in the permit by the Department that exceeds the levels in subparagraphs (b)1., 2., and 3. of this section. The level established in the permit shall not exceed the technology-based treatment requirements appropriate to the Permittee established in chapter 62-660, F.A.C.

**D. Specific Conditions Related to Best Management Practices Conditions**

1. The Permittee shall continue to implement the Best Management Practices plan which was developed in accordance with the previously issued NPDES permit. The Permittee shall comply with applicable specific conditions related to Best Management Practices as follows:
- a. BMP Plan :  
For purposes of this part, the terms "pollutant" or "pollutants" refer to any substance listed as toxic under Section 307(a)(1) of the Clean Water Act (the "Act"), oil, as defined in Section 311(a)(1) of the Act, and any substance listed as hazardous under Section 311 of the act. the Permittee shall develop and implement a best Management Practices ( BMP) plan which prevents, or minimizes the potential for, the release of pollutants from ancillary activities, including material storage areas; plant site runoff; in-plant transfer, process and material handling areas; loading and unloading operations; and sludge and waste disposal areas, to the waters of the State through plant site runoff; spillage or leaks; sludge or waste disposal; or drainage from raw material storage.
  - b. General Requirements:  
The BMP plan shall:
    - (1) Be documented in narrative form, and shall include any necessary plot plans, drawings or maps.
    - (2) Establish specific objectives for the control of pollutants.
      - (a) Each facility component or system shall be examined for its potential for causing a release of significant amounts of pollutants to waters of the State due to equipment failure, improper operation, natural phenomena such as rain or snowfall, etc.

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

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

(4) Include any special conditions established in Section G of this part.

(5) Be reviewed by plant engineering staff and plant manager.

c. Documentation:

The Permittee shall maintain the BMP plan at the facility and shall make the plan available to the Department upon request.

d. BMP Plan Modification:

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

e. Modification for Ineffectiveness:

If the BMP plan proves to be ineffective in achieving the general objective of preventing the release of significant amounts of pollutants to surface waters and the specific objectives and requirements under paragraphs 2 and 3 of item b., the permit shall be subject to modification pursuant to rule 62-620.325, F.A.C., to incorporate revised BMP requirements.

2. Best Management Practices (BMPs) Plan for spent pulping liquor, soap, and turpentine management, spill prevention, and control pursuant to 40 CFR 430.03.

The Permittee, in addition to the requirements stated in VI.D.1.a-e, shall prepare a BMP Plan in accordance with 40 CFR 430.03 and comply with the requirements of 40 CFR 430.03 as it applies to direct discharging pulp, paper, and paperboard mills with pulp production in Subpart C of 40 CFR 430 (promulgated April 15, 1998). The Permittee shall achieve compliance with the requirements of 40 CFR 430.03 in accordance with the following schedule:

a) Prepare BMP Plans in accordance with 40 CFR 430.03 and submit a letter certifying that the BMP Plan has been prepared in accordance with the requirements of 40 CFR 430.03.

b) Implement all BMPs specified in 40 CFR 430.03(c) that do not require the construction of containment or diversion structures, or the installation of monitoring and alarm systems.

c) Establish initial action levels required by 40 CFR 430.03(h)(3).

d) Commence operation of any new or upgraded continuous, automatic monitoring systems that the mill determines to be necessary under 40 CFR 430.03(c)(3) (other than those associated with construction of containment or diversion structures).

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- e) Complete construction and commence operation of any spent pulping liquor, collection, containment, diversion, or other facilities, including any associated continuous monitoring systems, necessary to fully implement BMPs specified in 40 CFR 430.03(c) not later than April 16, 2001.
- f) Establish revised action levels required by 40 CFR 430(h)(4) as soon as possible after fully implementing the BMPs specified in 40 CFR 430.03(c), but not later than January 15, 2002.

**E. Administrative Proceeding**

With regard to any determination by the Department of any POS, report, and in reopening the permit, the Permittee, may file a petition for formal or informal administrative proceeding, pursuant to sections 120.569 and 120.57, Florida Statutes, and chapter 62-103, Florida Administrative Code, if it disagrees with or otherwise disputes the Department's determination. The petition must conform with the requirement of rule 62-103.155, Florida Administrative Code, and must be received by the Department's Office of General Counsel, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000, within twenty-one (21) days after receipt of written notice from the Department of any determination that Georgia-Pacific wishes to challenge. Failure to file a petition within this time period shall constitute a waiver by Georgia-Pacific of its right to request an administrative proceeding under section 120.57, Florida Statutes. The Department's determination, upon expiration of the 21-day time period if no petition is filed, or the Department's final order as a result of the filing of the petition, shall be incorporated by reference into this permit and made a part thereof. Notwithstanding other terms of the permit, Georgia-Pacific shall have the right to judicial review of the Department's final order entered after any administrative hearing held pursuant to this paragraph, as provided by section 120.68, Florida Statutes.

**F. Reopener Clause**

1. This permit may be modified, or alternatively, revoked and reissued, to comply with any applicable effluent standards or limitations issued or approved by EPA under Sections 301(b)(2)(A), (C) and (D), 304 (b)(2) and 307(a)(2) of the Clean Water Act, as amended, if the effluent standards or limitation so issued or approved:
  - a. Contains different conditions or is otherwise more stringent than a condition in the permit; or
  - b. Controls any pollutant not addressed in the permit.

The permit as modified or reissued under this paragraph shall contain any other requirement of the Act then applicable.
2. This permit will be reopened to adjust the effluent limitation or associated monitoring requirements for 2,3,7,8-TCDD if:
  - a. The DEP adopts water quality standards which contain a numeric criterion for dioxin which differs from the value used to derive the effluent limitation in this permit.; or
  - b. additional data or facts related to the criterion for dioxin become available; or
  - c. site specific ambient environmental data or any other relevant information becomes available.
3. This permit may also be reopened to adjust any effluent limitation or monitoring requirement should future wasteload allocation determinations, water quality studies, DEP approved changes in water quality standards, Site Specific Alternative Criteria, or TMDL show a need for a different limitation or monitoring requirement such as:
  - a. Results from dissolved oxygen maintenance in Rice Creek; or
  - b. Results of Whole Effluent Toxicity testing; or
  - c. Results of surface water of biological community monitoring; or
  - d. Results of POS for Potential Masculinization Effects.
4. This permit will be automatically reopened to adjust any effluent limitation or monitoring requirement should the Permittee demonstrate an ability to comply with applicable water quality standards in Rice Creek.

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1. Within thirty days of completion of construction of the pipeline to D-003, the Permittee shall submit to DEP a completed "Certification of Completion of Construction" (DEP form 62-620.910(12)) signed and sealed by the engineer of record.
2. Record drawings shall be prepared and made available in accordance with 62-620.410(10) F.A.C. within six months of placing the facilities into operation.

**VII. General Conditions**

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit are binding and enforceable pursuant to Chapter 403, Florida Statutes. Any permit noncompliance constitutes a violation of Chapter 403, Florida Statutes, and is grounds for enforcement action, permit termination, permit revocation and reissuance, or permit revision. [62-620.610(1), F.A.C.]
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviations from the approved drawings, exhibits, specifications or conditions of this permit constitutes grounds for revocation and enforcement action by the Department. [62-620.610(2), F.A.C.]
3. As provided in Subsection 403.087(6), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of personal rights, nor authorize any infringement of federal, state, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit or authorization that may be required for other aspects of the total project which are not addressed in this permit. [62-620.610(3), F.A.C.]
4. This permit conveys no title to land or water, does not constitute state recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title. [62-620.610(4), F.A.C.]
5. This permit does not relieve the Permittee from liability and penalties for harm or injury to human health or welfare, animal or plant life, or property caused by the construction or operation of this permitted source; nor does it allow the Permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department. The Permittee shall take all reasonable steps to minimize or prevent any discharge, reuse of reclaimed water, or residuals use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment. 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. [62-620.610(5), F.A.C.]
6. If the Permittee wishes to continue an activity regulated by this permit after its expiration date, the Permittee shall apply for and obtain a new permit. [62-620.610(6), F.A.C.]
7. The Permittee shall at all times properly operate and maintain the facility and systems of treatment and control, and related appurtenances, that are installed and used by the Permittee to achieve compliance with the conditions of this permit. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to maintain or achieve compliance with the conditions of the permit. [62-620.610(7), F.A.C.]
8. This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the Permittee for a permit revision, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition. [62-620.610(8), F.A.C.]
9. The Permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, including an authorized representative of the Department and authorized EPA personnel, when applicable, upon presentation of

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credentials or other documents as may be required by law, and at reasonable times, depending upon the nature of the concern being investigated, to

- a. Enter upon the Permittee's premises where a regulated facility, system, or activity is located or conducted, or where records shall be kept under the conditions of this permit;
- b. Have access to and copy any records that shall be kept under the conditions of this permit;
- c. Inspect the facilities, equipment, practices, or operations regulated or required under this permit; and
- d. Sample or monitor any substances or parameters at any location necessary to assure compliance with this permit or Department rules.

*[62-620.610(9) (a), (b), (c), and (d), F.A.C.]*

10. In accepting this permit, the Permittee understands and agrees that all records, notes, monitoring data, and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except as such use is proscribed by Section 403.111, Florida Statutes, or Rule 62-620.302, Florida Administrative Code. Such evidence shall only be used to the extent that it is consistent with the Florida Rules of Civil Procedure and applicable evidentiary rules. *[62-620.610(10), F.A.C.]*
11. When requested by the Department, the Permittee shall within a reasonable time provide any information required by law which is needed to determine whether there is cause for revising, revoking and reissuing, or terminating this permit, or to determine compliance with the permit. The Permittee shall also provide to the Department upon request copies of records required by this permit to be kept. If the Permittee becomes aware of relevant facts that were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be promptly submitted or corrections promptly reported to the Department. *[62-620.610(11), F.A.C.]*
12. Unless specifically stated otherwise in Department rules, the Permittee, in accepting this permit, agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the Permittee does not waive any other rights granted by Florida Statutes or Department rules. A reasonable time for compliance with a new or amended surface water quality standard, other than those standards addressed in Rule 62-302.500, F.A.C., shall include a reasonable time to obtain or be denied a mixing zone for the new or amended standard. *[62-620.610(12), F.A.C.]*
13. The Permittee, in accepting this permit, agrees to pay the applicable regulatory program and surveillance fee in accordance with Rule 62-5.052, F.A.C. *[62-620.610(13), F.A.C.]*
14. This permit is transferable only upon Department approval in accordance with Rule 62-620.340, F.A.C. The Permittee shall be liable for any noncompliance of the permitted activity until the transfer is approved by the Department. *[62-620.610(14), F.A.C.]*
15. The Permittee shall give the Department written notice at least 60 days before inactivation or abandonment of a wastewater facility and shall specify what steps will be taken to safeguard public health and safety during and following inactivation or abandonment. *[62-620.610(15), F.A.C.]*
16. The Permittee shall apply for a revision to the Department permit in accordance with Rules 62-620.300, 62.420 or 62.620.450, F.A.C., as applicable, at least 90 days before construction of any planned substantial modifications to the permitted facility is to commence or with Rule 62-620.300 for minor modifications to the permitted facility. A revised permit shall be obtained before construction begins except as provided in Rule 62-620.300, F.A.C. *[62-620.610(16), F.A.C.]*
17. The Permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements. The Permittee shall be responsible for any and all damages which may result from the changes and may be subject to enforcement action by the Department for penalties or revocation of this permit. The notice shall include the following information:
  - a. A description of the anticipated noncompliance;

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- b. The period of the anticipated noncompliance, including dates and times; and  
c. Steps being taken to prevent future occurrence of the noncompliance.  
*[62-620.610(17) (a), (b), and (c), F.A.C.]*
18. Sampling and monitoring data shall be collected and analyzed in accordance with Rule 62-4.246, Chapter 62-160 and 62-601, F.A.C., and 40 CFR 136, as appropriate.
- a. Monitoring results shall be reported at the intervals specified elsewhere in this permit and shall be reported on a Discharge Monitoring Report (DMR), DEP Form 62-620.910(10).
- b. If the Permittee monitors any contaminate more frequently than required by the permit, using Department approved test procedures, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR.
- c. Calculations for all limitations which require averaging of measurements shall use an arithmetic mean unless otherwise specified in this permit.
- d. Any laboratory test required by this permit for domestic wastewater facilities shall be performed by a laboratory that has been certified by the Department of Health and Rehabilitative Services (DHRS) under Chapter 10D41, F.A.C., to perform the test. In domestic wastewater facilities, on-site tests for dissolved oxygen, pH, and total chlorine residual shall be performed by a laboratory certified to test for those parameters or under the direction of an operator certified under Chapter 61E12-41, F.A.C.
- e. Under Chapter 62-160, F.A.C., sample collection shall be performed by following the protocols outlined in "DER Standard Operating Procedures for Laboratory Operations and Sample Collection Activities" (DER-QA-001/92). Alternatively, sample collection may be performed by an organization who has an approved Comprehensive Quality Assurance Plan (CompQAP) on file with the Department. The CompQAP shall be approved for collection of samples from the required matrices and for the required tests.  
*[62-620.610(18) (a), (b), (c), (d), and (e), F.A.C.]*
19. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule detailed elsewhere in this permit shall be submitted no later than 14 days following each schedule date.  
*[62-620.610(19), F.A.C.]*
20. The Permittee shall report to the Northeast District of the Department any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the Permittee becomes aware of the circumstances. A written submission shall also be provided within five days of the time the Permittee becomes aware of the circumstances. The written submission shall contain: a description of the noncompliance and its cause; the period of noncompliance including exact dates and time, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.
- a. The following shall be included as information which must be reported within 24 hours under this condition:
1. Any unanticipated bypass which causes any reclaimed water or the effluent to exceed any permit limitation or results in an unpermitted discharge,
  2. Any upset which causes any reclaimed water or the effluent to exceed any limitation in the permit,
  3. Violation of a maximum daily discharge limitation for any of the pollutants specifically listed in the permit for such notice, and
  4. Any unauthorized discharge to surface or ground waters, not otherwise authorized in accordance with b. below.
- b. The Permittee shall report all unauthorized releases or spills of untreated or treated wastewater in excess of 1,000 gallons per incident, or where public health or the environment may be endangered, to the STATE WARNING POINT TOLL FREE NUMBER (800) 320-0519, as soon as practical, but no later than 24 hours from the time the Permittee becomes aware of the discharge. The Permittee, to the extent known, shall provide the following information to the State Warning Point:
1. Name, address, and telephone number of person reporting.
  2. Name, address, and telephone number of Permittee or responsible person for the discharge.
  3. Date and time of the discharge and status of discharge (ongoing or ceased).
  4. Characteristics of the wastewater spilled or released (untreated or treated, industrial or domestic wastewater).

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5. Estimated amount of the discharge.
  6. Location or address of the discharge.
  7. Source and cause of the discharge.
  8. Whether the discharge was contained on-site, and cleanup actions taken to date.
  9. Description of area affected by the discharge, including name of water body affected, if any.
  10. Other persons or agencies contacted.
- c. For unauthorized releases or spills of 1,000 gallons or less, per incident, oral reports, or facsimiles when used in lieu thereof, shall be provided to the Department's Northeast District Office within 24 hours from the time the permittee becomes aware of the discharge.
- d. If the oral report has been received within 24 hours, the noncompliance has been corrected, and the noncompliance did not endanger health or the environment, the Department's Northeast District Office shall waive the written report. The written report, where required, shall be submitted to the Department's Northeast District Office. *[62-620.610(20), 10-23-00]*
21. The Permittee shall report all instances of noncompliance not reported under Conditions VII. 18. and 19. of this permit at the time monitoring reports are submitted. This report shall contain the same information required by Condition VII. 20. of this permit. *[62-620.610(21), F.A.C.]*
22. Bypass Provisions.
- a. Bypass is prohibited, and the Department may take enforcement action against a Permittee for bypass, unless the Permittee affirmatively demonstrates that:
    - (1). Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage; and
    - (2). 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 adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
    - (3). The Permittee submitted notices as required under Condition VII. 22. b. of this permit.
  - b. If the Permittee knows in advance of the need for a bypass, it shall submit prior notice to the Department, if possible at least 10 days before the date of the bypass. The Permittee shall submit notice of an unanticipated bypass within 24 hours of learning about the bypass as required in Condition VII. 20. of this permit. A notice shall include a description of the bypass and its cause; the period of the bypass, including exact dates and times; if the bypass has not been corrected, the anticipated time it is expected to continue; and the steps taken or planned to reduce, eliminate, and prevent recurrence of the bypass.
  - c. The Department shall approve an anticipated bypass, after considering its adverse effect, if the Permittee demonstrates that it will meet the three conditions listed in Condition VII. 22. a. through 3. of this permit.
  - d. A Permittee may allow any bypass to occur which does not cause reclaimed water or effluent limitations to be exceeded if it is for essential maintenance to assure efficient operation. These bypasses are not subject to the provision of Condition VII. 22. a. through c. of this permit.  
*[62-620.610(22) (a), (b), (c), and (d), F.A.C.]*
23. Upset Provisions
- a. 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 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 in Condition VII. 20. of this permit; and
    - (4). The Permittee complied with any remedial measures required under Condition VII. 5. of this permit.

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- b. In any enforcement proceeding, the Permittee seeking to establish the occurrence of an upset has the burden of proof.
- c. Before an enforcement proceeding is instituted, no representation made during the Department review of a claim that noncompliance was caused by an upset is final agency action subject to judicial review.

*[62-620.610(23) (a), (b), and (c), F.A.C.]*

Executed in Jacksonville, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

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