



Facility Permit No: 94-01  
Permit to Construct  
Domtar Paper Co. Landfill Facility  
November 10, 2010  
Revised May 17, 2011  
DIN 11729  
Page 1 of 12

North Carolina Department of Environment and Natural Resources  
Division of Waste Management

Beverly Eaves Perdue  
Governor

Dexter R. Matthews  
Director

Dee Freeman  
Secretary

STATE OF NORTH CAROLINA  
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES  
DIVISION OF WASTE MANAGEMENT  
SOLID WASTE SECTION

**INDUSTRIAL SOLID WASTE LANDFILL FACILITY**  
**Permit No. 94-01**

Domtar Paper Company, LLC  
A Subsidiary of Domtar Corporation  
is hereby issued a

**PERMIT TO OPERATE**

DOMTAR PAPER COMPANY LANDFILL 3 – PHASES 1A, 1B, AND 2

**PERMIT TO CONSTRUCT**

DOMTAR PAPER COMPANY LANDFILL 3 – PHASES 3 AND 4

Located *west of Ken Trowbridge Road and north of Highway 64, west of the Town of Plymouth, Washington County*, North Carolina, in accordance with Article 9, Chapter 130A, of the General Statutes of North Carolina and all rules promulgated thereunder and subject to the conditions set forth in this permit. The legal description of the site is identified on the deeds recorded for this property listed in Attachment No. 1 of this permit.

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Edward F. Mussler, III, P.E.,  
Permitting Branch Supervisor  
Solid Waste Section

## ATTACHMENT 1

### PART I: PERMITTING HISTORY

1. In the 1950s through the 1970s, Weyerhaeuser Company operated Landfill No. 1 on a separate area from this facility, at the northwest corner of the Weyerhaeuser property in Martin County.
2. In 1978, Weyerhaeuser Landfill No. 2 was approved to operate on Tract 4 of this facility property. The landfill was later extended south to be also located on Tract 13 property. The landfill received industrial waste through 2002. See Part III below for a description of the Tracts.
3. In 1991, Weyerhaeuser Company was permitted to operate an asbestos landfill on the facility property. The asbestos landfill is located east of Landfill No. 2 and west of Landfill No. 3.
4. In 2000 and 2003, Permits to Construct and Permits to Operate were issued to Weyerhaeuser Company for Landfill No. 3, Phase 1A, 1B, and 2. The landfill is located on Tract 4 and Track 13 property.
5. In 2006, Weyerhaeuser Company was combined with Domtar Paper Corporation.
6. In 2007, the landfill facility property was sold from Weyerhaeuser Company to Domtar Paper Company, LLC.
7. Subsequent to the purchase of the facility, Domtar has submitted information and documentation to the Solid Waste Section to apply for the permit to operate the facility to be re-issued to Domtar Paper Company, LLC and Domtar Corporation. Prior to the issuance of this permit, Domtar has continued to operate the landfill facility as previously permitted to Weyerhaeuser Company.
8. Permit to Construct Phases 3 and 4 of Landfill No. 3. October 2010. DIN 11729

Permit Type	Date Issued
Site Approval Letter, Landfill No. 2	May 4, 1978
Order of Approval, Landfill No. 2	June 16, 1978
Solid Waste Management Permit, Landfill No. 2	May 2, 1980
Solid Waste Management Permit Amendment, Landfill No. 2	January 19, 1990
Solid Waste Management Permit Amendment – asbestos landfill	January 14, 1991
Permit to Construct Landfill No. 3 Phase 1A	May 16, 2000

Permit to Operate Landfill No. 3 Phase 1A	December 14, 2000
Permit to Operate Modification – alternate daily cover	July 3, 2001
Permit to Construct Landfill No. 3 Phases 1B and 2	November 25, 2002
Permit to Construct Modification – LCID and asbestos units	April 8, 2003
Permit to Operate Landfill No. 3 Phases 1A, 1B, and 2	October 14, 2003
Permit to Operate Landfill No.3, Amended – Ownership/name change. DIN 4518.	May 22, 2008
Permit to Construct, Landfill No. 3 – Phases 3 and 4.	November 10, 2010
<b>Modification to Condition 5, Attachment 3, Part I</b>	May 17, 2011

PART II: LIST OF DOCUMENTS FOR THE APPROVED PLAN

1. Groundwater Modeling Data and Results for Weyerhaeuser Paper Company, RMT, Inc. September 1998.
2. Proposed No. 3 Landfill, Alternate Liner Design. Revised Memorandum, RMT, Inc. January 1999.
3. Application for Permit to Construct Landfill No. 3, Weyerhaeuser Company, Plymouth, NC, Volumes I and II, RMT, Inc. October 21, 1999, revised through May 15, 2000.
4. Construction Plan Application Drawings, Landfill No. 3. RMT, Inc. October 1999, revised through May 2000.
5. Construction Documentation Report for New Landfill No. 3, Phase 1A, Module 1 (Sections 1 through 8) and Module 2 (Sections 9 and 10) dated November 2000.
6. Construction Documentation Report for New Landfill No. 3, Phase 1A, Appendices A – U, dated November 2000.
7. Addendum Dated December 1, 2000 containing Report that documents the construction of the leachate collection system and remaining elements (Sections 9 and 10) and Record Drawings.
8. Operation Plan and Documentation of demonstration period for use of process silica as alternate daily cover, submitted October 2000 and May 2001.
9. Letter dated December 12, 2000, Kent Nilsson to Jim Barber, Response to Review Comments.
10. Construction Plan Application, Phase 1B and 2, Landfill No. 3, Volumes 1 and 2, RMT, Inc. July 16, 2002, revised through November 11, 2002.

11. Construction Plan Application Drawings, Phases 1B and 2, Landfill No. 3, RMT, Inc. July 16, 2002, revised through November 11, 2002.
12. Permit Application Land Clearing and Inert Debris Landfill and Asbestos Landfill. Prepared by RMT, Inc. dated August 22, 2002, revised February 14, 2003 and April 4, 2003.
13. LCID Landfill and Asbestos Landfill Permit Application Drawings. Prepared by RMT, Inc. dated August 22, 2002, revised February 14, 2003.
14. Construction Quality Assurance Report for Landfill No. 3, Phase 1B and 2, Volumes 1 and 2. August 8, 2003 revised through October 6, 2003.
15. Letter dated October 11, 2003, Kent Nilsson to Sherri Coghill, Responding to Review Comments and Transmitting Revisions/Addenda to CQA Report.
16. Closure Letter of Unlined Landfill Unit, Landfill No. 2. Issued February 21, 2005.
17. Request for Permit Transfer from Weyerhaeuser Company to Domtar Paper Company, LLC. Letters and additional information dated February 6, 2007, February 15, 2007, March 8, 2007, and May 5, 2008.
18. *Two Design Variances Requested, Domtar Landfill No. 3, Plymouth, North Carolina, Regards to the Closure of Phase 1a and 1b.* Prepared for Domtar. Prepared by RMT. August 2010. DIN 11480.
19. *Domtar Paper Company Landfill No. 3, Permit to Construct (PTC) Phase 3 and Phase 4 – Variance.* Prepared for Domtar. Prepared by RMT. August 2010. DIN 11648.
20. *Phase 3 and Phase 4 Construction Plan Application, On-Site Industrial Waste Landfill No. 3, Domtar Paper Company, LLC (Formerly Weyerhaeuser Company), Plymouth, North Carolina, June 2008, Revised August 2009, August 2010, Revised November 2010.* Prepared for Domtar. Prepared by RMT. November 3, 2010. DIN 12123.

**PART III: PROPERTIES APPROVED FOR THE SOLID WASTE FACILITY**

<b>Washington County, N.C. Register of Deeds</b>					
Book	Page	Grantee	Grantor	Tract	Acres
443	592	Domtar Paper Company, LLC	Weyerhaeuser Company	3	114
443	592	Domtar Paper Company, LLC	Weyerhaeuser Company	4	188.8
443	592	Domtar Paper Company, LLC	Weyerhaeuser Company	13	47.69
<b>Total Site Acreage</b>					<b>350.49</b>

#### PART IV: GENERAL PERMIT CONDITIONS

1. This permit is issued by the North Carolina Department of Environment and Natural Resources, Division of Waste Management, Solid Waste Section (Section). In accordance with North Carolina Solid Waste Management Rule 15A NCAC 13B .0201(d), a solid waste management facility permit shall have two parts: a Permit to Construct and a Permit to Operate. The Permit to Construct must be implemented in accordance with Attachment 2 of this permit. The Permit to Operate must be implemented in accordance with Attachment 3 of this permit.
2. The persons to whom this permit is issued (“permittee”) are the owners and operators of the solid waste management facility.
3. (Intentionally blank)
4. (Intentionally blank)
5. By receiving waste at this facility the permittee shall be considered to have accepted the terms and conditions of this permit.
6. Operation of this solid waste management facility must be in accordance with the Solid Waste Management Rules, 15A NCAC 13B, Article 9 of the Chapter 130A of the North Carolina General Statutes (NCGS 130A-290, et seq.), the conditions contained in this permit; and the approved plan. Should the approved plan and the rules conflict, the Solid Waste Management Rules shall take precedence unless specifically addressed by permit condition.
7. This permit is issued based on the documents submitted in support of the application for permitting the facility including those identified in Attachment 1, “List of Documents for Approved Plan,” and which constitute the approved plan for the facility. Where discrepancies exist, the most recent submittals and the Conditions of Permit shall govern.
8. This permit may be transferred only with the approval of the Section, through the issuance of a new or substantially amended permit in accordance with applicable statutes and rules. In accordance with NCGS 130A-295.2(g) the permittee must notify the Section thirty (30) days prior to any significant change in the identity or business structure of either the owner or the operator, including but not limited to a proposed transfer of ownership of the facility or a change in the parent company of the owner or operator of the facility.
9. The permittee is responsible for obtaining all permits and approvals necessary for the development of this project including approval from appropriate agencies for a General or Individual NPDES Stormwater Discharge Permit. Issuance of this permit does not

remove the permittee's responsibilities for compliance with any other local, state or federal rule, regulation or statute.

*- End of Section -*

## **ATTACHMENT 2**

### **CONDITIONS OF PERMIT TO CONSTRUCT**

1. The Permit to Construct was issued on November 10, 2010 and the permit shall expire November 10, 2015. Pursuant to the NC Solid Waste Management Rules (Rule) 15A NCAC 13B .0201(c) and (d)(1).
2. The initial, substantial, construction authorized by this Permit to Construct must commence within 18 months from the issuance date of this permit. If substantial construction does not begin within 18 months from the issuance date of this permit, then the permit to construct shall expire. Substantial construction includes, but is not limited to, issuance of construction contracts, mobilization of equipment on site, and construction activities including installation of sedimentation and erosion control structures. The permittee may reapply for the permit to construct prior to the expiration date. The re-application will be subject to the statutes and rules in effect on that date and may be subject to additional fees.
3. Construction of all solid waste management units within this facility must be in accordance with the pertinent approved plans and only for those phases of development approved for construction as described in Attachment I, Part II List of Documents for the Approved Plan.
4. The permittee must conduct a preconstruction meeting at the facility prior to initiating construction of any unit/cell and must notify the Section at least 10 days prior to the meeting.
5. Modifications or revisions of the approved documents or changes during construction of any landfill unit/cell require approval by the Section, and may constitute a permit modification and be subject to a permitting fee.
6. The following conditions must be met prior to operation of the Phase 3 or 4:
  - a. The Permittee must obtain a Permit to Operate for Phases 3 or 4 from the Section in accordance with 15A NCAC 13B .0201(d).
  - b. Construction Quality Assurance (CQA) documentation as well as a certification by the project engineer that the landfill was built in accordance with approved plans and the conditions of the permit must be submitted to the Section for review and approval.

- c. The Permittee must contact the appropriate regional environmental specialist and permitting engineer to determine whether the Section chooses to hold a pre-operative meeting with key landfill personnel and representatives of the Section.
- d. The edge of the waste footprint must be identified with permanent physical markers.

#### Geologic, Ground Water and Monitoring Requirements

5. Prior to issuing the Permit to Operate, samples from new ground water monitoring wells and surface water stations shall be sampled for the Appendix I constituent list.
6. Prior to construction of the phase or cell(s) within the phase, all piezometers, borings, and groundwater monitoring wells within the footprint must be properly abandoned in accordance with 15A NCAC 2C .0113 (b)(1), entitled "Abandonment of Wells."
7. In areas where soil is to be undercut, abandoned piezometers, monitoring wells and borings must not be grouted to pre-grade land surface, but to the proposed base grade surface to prevent having to cut excess grout and possibly damage the wells.
8. A Licensed Geologist must report any pertinent geological feature(s) exposed during phase or cell excavation. Prior to placing any landfill liner, the geologist must submit to the Section hydrogeologist a written report that includes an accurate description of the exposed geological feature(s) and effect of the geological feature(s) on the design, construction, and operation of the cell, phase, or unit.
9. A Licensed Geologist must supervise installation of groundwater monitoring wells and surface water sampling stations.
10. Any modification to the approved water quality monitoring, sampling, and analysis plan must be submitted to the Section Hydrogeologist for review.
11. Within 30 days of completed construction of each new groundwater monitoring well, a well construction record (GW-1 form), typical well schematic, boring log, field log and notes, and description of well development activities must be submitted to the Section.
12. The permittee must provide a plan sheet-sized, scaled topographical map, showing the location and identification of new, existing, and abandoned wells and piezometers after installation of groundwater monitoring wells.
13. Within thirty (30) days of the completed permanent abandonment of a ground-water monitoring well, the well abandonment record (GW-30 form) and any additional information included in the abandonment record) must be submitted to the Section. The well abandonment records must be submitted to the Solid Waste Section in accordance with 15A NCAC 2C .0114(b) and be certified by a Licensed Geologist.

#### Erosion and Sedimentation Control Requirements

14. All required sedimentation and erosion control measures must be installed and operable to mitigate excessive on-site erosion and to prevent silt from leaving the area of the landfill unit during the service life of the facility.
15. All earth disturbing activities must be conducted in accordance with the Sedimentation Pollution Control Act of 1973 (15 NCAC 4) and consistent with any other local, state or federal requirements.
16. Facility construction, operations or practices must not cause or result in a discharge of pollution, dredged material, and/or fill material into waters of the state in violation of the requirements under Sections 401 and 404 of the Clean Water Act, as amended.
17. Modifications to the approved sedimentation and erosion control activities require approval by the North Carolina Land Quality Section. The Section must be notified of any sedimentation and erosion control plan modifications.

#### PART II: INDUSTRIAL SOLID WASTE LANDFILL UNIT SPECIFIC CONDITIONS

18. Pursuant to the NC Solid Waste Management Rules (Rule) 15A NCAC 13B .0201(c) and (d)(1), this permit approves construction for the Landfill No. 3 – Phases 3 and 4 consisting of a projected operating capacity of 1,461,000 cubic yards of airspace.

#### PART III: MISCELLANEOUS SOLID WASTE MANAGEMENT SPECIFIC CONDITIONS

*Not Applicable*

*- End of Section -*

### **ATTACHMENT 3**

#### CONDITIONS OF OPERATING PERMIT

##### PART I: GENERAL FACILITY CONDITIONS

1. The Permit to Operate shall expire May 22, 2013. Pursuant to 15A NCAC 13B .0201(e), no later than November 22, 2012, the owner or operator must submit a request to the Section for permit review and must update pertinent facility plans including, but not limited to, the facility operation and waste screening plans.
2. All sedimentation and erosion control activities must be conducted in accordance with the Sedimentation Control Act N.C.G.S. 113A-50, et seq., and rules promulgated under 15A NCAC 4.
3. The edge of the waste footprint for all disposal units must be identified and maintained with permanent physical markers.

Operational Requirements

4. This facility is permitted to receive solid waste generated by Domtar Paper Company, LLC. as described in Attachment 1, Part II; List of Documents for the Approved Plan and as defined in G.S. 130-290 (a)(2b), except where prohibited by the N. C. General Statutes Article 9 of Chapter 130A, and the rules adopted by the Commission for Health Services.
5. The facility operator must complete an approved operator training course in compliance with G.S. 130A-309.25.
  - a. A responsible individual certified in landfill operations must be available to the landfill-operating personnel, either on-site or by phone, during all operating hours of the facility to ensure compliance with operational requirements.
  - b. All pertinent landfill-operating personnel must receive training and supervision necessary to properly operate the landfill units in accordance with G.S. 130A-309.25 and addressed by memorandum dated November 29, 2000. This may be accomplished through regular (daily) communication with those performing the landfill operations concerning: landfill plans and specifications, locations for waste deposition, cover and slope criteria expected waste streams and special projects.
6. The use of different alternative cover materials requires approval, prior to implementation, by the Solid Waste Section. Requests for alternative cover material approval must include a plan detailing the comprehensive use and a demonstration of the effectiveness of the alternative cover material. The plan must be developed according to Section guidelines. Plans which are approved by the Section will be incorporated into, and made a part of, the approved documents listed in Attachment 1, Part II; List of Documents for the Approved Plan.
7. (Intentionally blank)

#### Monitoring and Reporting Requirements

8. Groundwater locations must be established and monitored as identified in Attachment 1, Part II; List of Documents for the Approved Plan.
9. A licensed geologist must be present to supervise the installation of groundwater monitoring wells. The exact locations, screened intervals, and nesting of the wells must be established after consultation with the SWS Hydrogeologist at the time of well installation.
10. Groundwater monitoring wells must be sampled for the constituents in the approved monitoring plan, at least semi-annually, according to the specifications outlined in the approved water quality monitoring plan and the current policies and guidelines of the Section in effect at the time of sampling.

11. Reports of the analytical data for each monitoring event must be submitted to the Section within 120 days of the respective sampling event. Analytical data must be submitted in a manner prescribed by the Section. Records of all groundwater and leachate analytical data must be kept as part of the permanent facility record.
12. One sample which will comprise the initial baseline sampling event must be collected from each groundwater monitoring well. Each sample must be analyzed for Appendix I constituents, the report must be submitted to the Section within six months after issuance of the Permit to Operate.
13. Untreated leachate must be sampled and analyzed at least semi-annually concurrently with the groundwater water sampling, one sample per event. The leachate must be analyzed for the same constituents that the groundwater monitoring wells are the constituents in the approved monitoring plan. Test results must be submitted to the Section along with groundwater test results. In the event leachate is recirculated, additional leachate sampling may be required.
14. A readily accessible unobstructed path must be cleared and maintained so that four-wheel vehicles may access monitoring well locations at all times.
15. A log which details all development, sampling, repair, and all other pertinent activities associated with each monitoring well and all sampling activities associated with each surface water and leachate sampling location must be kept as part of the permanent facility record.
16. All well construction records and soil boring logs for new wells must be submitted to the Solid Waste Section Hydrogeologist for review within 30 days of completion.
17. Copies of this permit, the approved plans, and all records required to be maintained by the permittee must be maintained at the facility and made available to the Section upon request during normal business hours.
18. The owner or operator must maintain a record of the amount of solid waste received at the landfill unit, compiled on a monthly basis. Scales must be used to establish and record an average weight of waste per truck load, once the average weight is established the Facility shall maintain a record of truck loads received.
19. On or before August 1 annually, the Permittee must submit an annual facility report to the Solid Waste Section, on forms prescribed by the Section.
  - a. The reporting period shall be for the previous year beginning July 1 and ending June 30.
  - b. The annual facility report must list the amount of waste received and landfilled in tons and be compiled:
    - i) On a monthly basis.

- ii) By specific waste type.
  - iii) By disposal location within the facility.
  - c. A measurement of volume utilized in the landfill cells must be performed once during the calendar year. The date and volumes, in cubic yards, must be included in the report.
  - d. The amount of waste, in tons from records, disposed in landfill cells from December 14, 2000 through the date of the annual volume survey must be included in the report.
  - e. The completed report must be forwarded to the Regional Waste Management Environmental Senior Specialist for the facility by the date due on the prescribed annual facility report form.
  - f. A copy of the completed report must be forwarded to each county manager for each county from which waste was received at the facility. Documentation that a copy of the report has been forwarded to the county managers must be sent to the Regional Waste Management Specialist by the date due on the prescribed annual facility report form.
20. The following, at a minimum, must not be accepted for disposal at the facility: hazardous waste, yard trash, liquid wastes, regulated medical waste, sharps not properly packaged, PCB waste as defined in 40 CFR 761, and wastes banned from disposal in North Carolina by G.S. 130A-309.10(f).
21. Closure or partial closure of any landfill unit must be in accordance with the Closure Plans described in the approved plans. Final Closure Plans must be submitted to the Division at least 90 days prior to implementation.
22. Financial assurance as required by state rules and statutes must be continuously maintained for the duration of the facility in accordance with applicable rules and statutes. Closure and Post-Closure cost estimates and financial instruments must be updated annually.

## PART II: INDUSTRIAL SOLID WASTE LANDFILL UNIT SPECIFIC CONDITIONS

23. This permit approves the continued operation of Landfill No. 3 – Phases 1A, 1B and 2, as well as the onsite environmental management and protection facilities as described in the approved plans.
24. The following table lists the estimated gross capacity and status details for the landfill phases. Gross capacity is defined as the calculated volume from the elevation of initial waste placement to the top of the final cover.

Phase	Capacity (cubic yards)	Anticipated Life (years)	Status
1A, 1B	548,103	4.4	Constructed
2	682,960	3.9	Constructed
3	597,000	3.4	Proposed
4	864,000	7.1	Proposed
5	782,000	7.8	Proposed
6	810,000	8.1	Proposed
7	757,000	7.6	Proposed
8	773,000	7.7	Proposed
9	618,000	6.2	Proposed
10	499,000	5.0	Proposed
11	589,000	5.9	Proposed
12	368,000	3.7	Proposed
13	432,000	4.3	Proposed
14	458,000	4.6	Proposed
15	514,000	5.1	Proposed
16	562,000	5.6	Proposed
17	367,000	3.7	Proposed
18	528,000	5.3	Proposed
			Proposed

*-End of Conditions-*