

PERMIT TO CONSTRUCT AND OPERATE

PERMITTEE: Circle of Life, LLC
FACILITY ADDRESS: 158 and 158R Middletown Avenue, New Haven, CT
PERMIT No. 093####-PCO

Pursuant to Section 22a-208a of the Connecticut General Statutes (“CGS”) and Section 22a-209-4 of the Regulations of Connecticut State Agencies (“RCSA”), a PERMIT TO CONSTRUCT AND OPERATE (“Permit”) IS HEREBY ISSUED by the Commissioner of Energy and Environmental Protection (“Commissioner”) to Circle of Life, LLC (“Permittee”) to construct, maintain and operate the solid waste volume reduction plant (“VRP”) and transfer station (“TS”) (collectively “the Facility”) located at 158 and 158R Middletown Avenue, New Haven, Connecticut. Subsequently, Permit to Construct No. 1010316, issued November 20, 1995, Modification of Permit to Construct No. 1010316, issued as permit No. 1010373 on March 27, 1998, Permit to Construct No. 0930544-PC issued May 22, 2003, and Permits to Operate numbered 1010660-PO and 0930671-PO, issued on July 14 and February 1, 2005, respectively, are no longer in effect and are replaced by this Permit.

A. GENERAL TERMS AND CONDITIONS

1. a. This Permit is based on and incorporates by reference pertinent and appropriate sections of documents and specifications submitted as part of Applications numbered 201003390 (Clean Wood VRP and ash transfer station) and 200903750 (construction and demolition waste VRP and transfer station), both to renew the Permits to Operate, including:
 - i. Application No. 201003390 received on May 19, 2010 and amended by submissions dated June 1, 2010 and April 7, 2011; and Application No. 200903750 received on November 6, 2009 and amended by submissions dated January 6, 2010 and April 7, 2011;
 - ii. Operation and Management Plan (O&MP) revised March 1997 (for Clean Wood VRP and ash transfer station);
 - iii. An O&MP, entitled “Facility Plan”, prepared by Mark Robinson Holland of Burnall Facilities Group, Inc., © 2000, reviewed and certified by Norman Ostroff, Ph.D., P.E. on August 26, 2015 (for Construction and Demolition Waste VRP and transfer station);
 - iv. A series of engineering drawings entitled “Circle of Life, LLC Solid Waste Volume Reduction Facility, Connecticut DEP Application No. 200001829”, prepared by Burnall Facilities Group, Inc. and Mark Robinson Holland Associates, © 2000, certified by Robert Mansfield, P.E. and revised November 10, 2001 (as built June 2004); and
 - v. Eight (8) engineering drawings prepared by the MRHA Environmental Division of Burnall Facilities Group, Inc., entitled “Circle of Life, LLC Volume Reduction Facility, New Haven, CT”, dated May 25, 2000.
- b. The Permittee shall maintain at the Facility and have available for reference by Facility staff and inspection by the Commissioner:
 - i. All documents or copies of such documents submitted as Application Nos. 201003390 and 2009003750 and any document submitted in support of said applications for the life of this Permit; and

- ii. A copy of this Permit and the Facility's Facility Plan which consists of the Operation and Management Plans and the engineered drawings which describe the Facility and its operations; and
 - c. The Permittee shall for the life of this Permit, provide to the Department notification within thirty (30) Days of any changes in the information provided as part or in support of the applications on which this Permit was based. Any inaccuracies found in the information submitted by the Permittee may result in revocation, reissuance, or modification of this Permit and civil or criminal enforcement actions.
2. As used in this Permit, the following definitions apply:

"Certified Operator" means the solid waste facility operator or an employee of such operator who is present at the facility and oversees or carries out the daily operations authorized through this Permit, and whose qualifications are currently certified in accordance with Section 22a-209-6 of the RCSA.

"Clean Wood" as defined in Section 22a-208a-1 of the RCSA means any wood which is derived from such products as pallets, skids, spools, packaging materials, bulky wood waste, or scraps from newly built wood products, provided such wood is not Treated Wood as defined in Section 22a-209a(a)(2) or Demolition Wood waste. For the purposes of this Permit, Clean Wood may also include Land Clearing Debris.

"Commissioner" means the Commissioner of Energy and Environmental Protection.

"Construction and Demolition Waste" or "C&D Waste" means waste from construction and demolition activities as defined in Section 22a-208x of the CGS.

"CFR" means the Code of Federal Regulations in effect the date this Permit is issued.

"Day" means calendar day.

"Demolition Wood" for the purposes of this Permit means the wood portion of solid waste generated as a result of demolition activities.

"Department", "DEEP" or "CT DEEP" means the Department of Energy and Environmental Protection.

"Designated Recyclable Item" means an item designated for recycling by the Commissioner in regulations adopted pursuant to subsection (a) of Section 22a-241b or designated for recycling pursuant to Section 22a-256 or 22a-208v of the CGS.

"Land Clearing Debris" as defined in Section 22a-208a-1(19) means trees, stumps, branches or other wood generated from clearing land for commercial or residential development, road construction, routine landscaping, agricultural land clearing, storms, or natural disasters.

"Municipal Solid Waste" or "MSW" means municipal solid waste as defined in Section 22a-207 of the CGS.

"P.E." means Professional Engineer licensed in the state of Connecticut.

“Processed Wood” means Recycled Wood or Treated Wood or any combination thereof, which has been processed at a facility, authorized to process or generate such materials.

“Processing” means the practice by which either the physical characteristics or the volume of solid waste accepted at the Facility is being altered through separating, sorting, baling, shredding, crushing, grinding, chipping, compacting, consolidation, transfer or reworking as part of recycling and/or volume reduction operations.

“Recovered Materials” means processed solid wastes that are ultimately delivered to a market or other Permitted recycling or reclamation Facility.

“Recyclable Items” are materials which are designated for recycling pursuant to Section 22a-241b of the CGS or Sections 22a-241b-1 to 22a-241b-4 of the RCSA or which may be recovered from the solid waste stream and for which there is a demonstrated market for reuse or that may be beneficially used in the production of other products.

“Recycled Wood” means any wood or wood fuel which is derived from such products or processes as pallets, skids, spools, packaging materials, bulky wood waste or scraps from newly built wood products, provided such wood is not Treated Wood.

“Residue” means all solid waste that remains after the Recovered Materials have been extracted from the solid waste authorized for Processing at the Facility.

“Treated Wood” as defined in Section 22a-209a(a)(2) of the CGS means wood which contains an adhesive, paint, stain, fire retardant, pesticide or preservative.

3. The Permittee shall comply with all terms and conditions of this Permit. This Permit consists of the conditions contained herein and the specifications contained in the application documents, except where such specifications are superseded by the more stringent conditions contained herein. Violation of any provision of this Permit may be subject to enforcement action pursuant, but not limited, to Sections 22a-6, 22a-208, 22a-225 and 22a-226 of the CGS.
4. The Permittee shall make no changes to the specifications and requirements of this Permit, except in accordance with law.
5. To the extent that any term or condition of this Permit is deemed to be inconsistent or in conflict, with any term or condition of any Permit previously issued for this Facility, including any modifications thereto, or with any data or information contained in the application, or any other documents incorporated by reference in this Permit, the term or condition of this Permit shall control and remain enforceable against the Permittee.
6. The Permittee shall submit for the Commissioner’s review and written approval all necessary documentation supporting any proposed physical and/or operational upgrades, improvements and/or minor changes in the Facility design, practices or equipment. The Commissioner may issue a written approval only if, in the Commissioner’s judgment, the proposed physical and/or operational upgrades, improvements and/or minor changes: (a) are deemed necessary for a better and more efficient operation of the Facility; (b) do not significantly change the nature of the Facility, or its impact on the environment; and (c) do not warrant the issuance of a permit or authorization pursuant to Section 22a-208 et seq. of the CGS.

B. AUTHORIZATION TO CONSTRUCT AND MAINTAIN

1. Permit to Construct No. 1010316 issued on November 20, 1995 authorized the construction of a transfer facility at 158 Middletown Avenue, New Haven, for the receipt and transfer of resource recovery facility ash residue. The permit authorized the construction of two warehouses, a truck turn-around area, a container storage area, a rail siding for container cars, a maintenance garage, an office trailer and a truck scale.
2. A modification to Permit to Construct No. 1010316 was issued on March 27, 1998 as Permit No. 1010373 which authorized the construction of a wood Processing area which consists of areas for receiving and storing of Clean Wood; an area for the grinding of Clean Wood; an area to colorize Recycled Wood chips; and areas for the storage, loading and transfer of the Recycled Wood.
3. Permit to Construct No. 0930544-PC issued May 22, 2003, authorized the construction of a VRP at 158R Middletown Avenue, New Haven, for the Processing of Construction and Demolition Waste (C&D Waste). Permit No. 0930544-PC authorized the construction of a tensioned membrane, column-free, 88-foot diameter, fabric building with four large sliding doors; a modified Caterpillar 345 B L Excavator-style Prime Loader capable of 360 degrees of rotation mounted atop a center pedestal; two new truck scales; a rail scale and a scale house/security building with paved roadways; and railcar sidings on the property, including one that enters and exits the on-site building.
4. The existing Facility consists of:
Ash Transfer Station – two warehouses, a truck turn-around area, a container storage area, a rail siding for container cars, a maintenance garage, an office trailer and a truck scale.
Clean Wood VRP – areas for the receiving and storing of Clean Wood waste; a colorization process for the wood; and storage, loading and transfer of the Recycled Wood.
C&D Waste VRP – a tensioned membrane, column-free, 88-foot diameter, fabric building with four large sliding doors; a modified Caterpillar 345 B L Excavator-style Prime Loader capable of 360 degrees of rotation mounted atop a center pedestal; two new truck scales; a rail scale and a scale house/security building with paved roadways; and railcar sidings on the property, including one that enters and exits the on-site building.
5. The Permittee is authorized to maintain the Facility as described in Condition No. B.4. of this Permit.

C. AUTHORIZATION TO OPERATE

1. The Permittee shall not exceed the Processing and storage limits established by this Permit. Solid waste, other than those listed herein, shall not be accepted, processed, treated, stored, transported or disposed on-site, or otherwise managed at the Facility without prior written approval of the Commissioner.

2. The Permittee is authorized to operate the Facility in accordance with all applicable law, including this Permit. Unless otherwise approved in writing by the Commissioner or limited by local authorities, the Permittee is authorized to operate as follows:
Containerized ash residue: 24 hours per Day
Clean Wood: Monday – Saturday 7:00 a.m. – 5:00 p.m.
C&D Waste: Monday 6:00 a.m. – Sunday 12:00 a.m.
 No operation between Sunday 12:00 a.m. and Monday 6:00 a.m.
3. The Permittee is authorized to receive at the Facility no more than a total of 500 tons/Day (TPD) of Clean Wood for Processing and containerized ash residue for transfer. The Permittee is also authorized to receive and process at the Facility no more than a total 2,378 TPD of C&D Waste; utility poles, railroad ties and Land Clearing Debris.
4. The Permittee shall store and manage solid waste at the Facility only in the designated areas as identified in the drawings in the document referenced in Condition No. A.1.a. of this Permit and in accordance with the table below. Fully loaded containers of solid waste shall be transferred from the Facility within two (2) business days.

Storage Table

Material	Maximum Storage Cubic yards (unless otherwise noted)	Location and/or comments
ash residue	528 tons	No more than 24 sealed containers at any time
Clean Wood, unprocessed	5,000	Containers &/or piles (max 25 feet high)
Clean Wood, processed	25,000	Containers &/or piles (max 30 feet high)
C&D Waste, unprocessed	3,700	Confined to storage pit
C&D Waste, processed	8,880	No more than 30 railcars

- a. **Storage of Clean Wood (brush; Land Clearing Debris, pallets)** shall take place in either up to one hundred and twenty-five (125), 40 cubic yard (cy) container(s) and/or in piles located on the ground.

Piles of unprocessed Clean Wood shall: have a minimum of a twenty-five (25) foot emergency access maintained around them; not contain Treated Wood; be processed and transferred on a first-in/first-out basis; not exceed five thousand (5,000) cy; and have a maximum height of twenty-five (25) feet.

Piles of processed Clean Wood chips shall: not exceed twenty-five thousand (25,000) cy; have a maximum height of thirty (30) feet; be stored on base pads constructed of compacted and well drained material that can support heavy equipment during all seasons; minimize dust and prevent ponding of water; be shaped to allow adequate stormwater run-off; be oriented (for elongated piles) perpendicular to the contours of the ground surface; be located in a clearly marked area equipped with stormwater run-on/run-off controls which comply with all existing permits and/or any applicable stormwater management requirements of Sections 22a-430 and 22a-430b of the CGS.

- b. **Wood chipping** activities shall comply with the requirements of Sections 22a-174-18, 22a-174-23 and 22a-174-29 of the RCSA; and shall not generate noise, dust, fumes, smoke, vibrations or odors that exceed background levels thereof at any boundary of the property on which the Facility is located.

- c. **Storage and Processing of Construction and Demolition (C&D) Waste, utility poles, railroad ties and Land Clearing Debris:** Processing shall be conducted only on the tipping floor at the C&D Waste Processing Facility, and processed on a first in/first out basis. The Facility shall be equipped with adequate ventilation, fire protection systems and an impervious floor. Storage of wastes per this Condition No. C.4.c. shall not exceed three thousand, seven hundred (3,700) cy for unprocessed waste and eight thousand, eight hundred (8,880) cy for processed. Outdoor storage of processed and unprocessed waste shall be in containers, which shall be watertight and covered at all times except when material is being actively placed in or removed from the container and shall not be stored on-site for greater than thirty (30) Days from when the waste first entered the Facility. Outdoor storage in railcars shall not exceed 48 hours and shall take place only in railcars that are covered by secure tarpaulins.
- d. **Storage and management of ash residue:** Only ash residue from resource recovery facilities shall be received at the Facility. The storage of ash residue shall be limited to twenty four (24) fully enclosed, sealed containers and shall not exceed 528 tons at any one time. Containers of ash residue shall be received, stored and transloaded for transfer from the Facility. Sealed containers of ash residue shall not be opened at the Facility.

The following condition is provided for unauthorized solid waste inadvertently received at the Facility to ensure proper management of such wastes.

- e. **Storage and management of MSW residue:** MSW residue means any unauthorized putrescible MSW that is inadvertently delivered to the Facility as part of a load. As soon as it is discovered, MSW Residue shall immediately be segregated from other solid waste and placed in a dedicated container with a maximum capacity of twenty (20) cy. The dedicated container shall be located in an area of the Facility that will not interfere with other permitted activities, shall be kept covered at all times except when it is being filled, and shall be removed from the Facility within forty-eight (48) hours of receipt. Such MSW Residue shall be consolidated, stored, and transferred from the Facility to a facility authorized to receive and manage such waste. Details pertaining to each truck which contains MSW Residue in excess of two percent (2%) by volume shall be recorded in the daily log, and reported to the Department in the quarterly reports required by Condition No. C.10. of this Permit.

5. The Permittee shall:

- a. Store solid waste on-site in conformance with proper fire control measures. Routine maintenance and inspections of all fire control equipment shall be conducted in accordance with manufacturer's specifications;
- b. Ensure that all solid waste accepted at the Facility is properly managed on-site, Processed, stored and transported to markets or other solid waste Processing or disposal facilities authorized to accept such solid waste;
- c. Ensure that any unauthorized solid waste inadvertently received, or solid waste which is unsuitable for Processing at the Facility is: (i) immediately sorted, separated, isolated and temporarily stored in a safe manner prior to off-site transport; (ii) recorded and reported in the quarterly report required by Condition No. C.10. of this Permit; and (iii) disposed at a facility authorized to accept such solid waste. No more than forty (40) cy of unacceptable solid waste shall be stored on-site unless authorized in writing by the

Commissioner. A spare container may be made available for any storage emergency at the Facility;

- d. Provide expeditious notification regarding any emergency incident (explosion, accident, fire, release, or other significant disruptive occurrence) which: (i) significantly damaged equipment or structures; (ii) interrupts the operation of the Facility for greater than twenty-four (24) hours; (iii) results in an unscheduled Facility shutdown or forced diversion of solid waste to other solid waste facilities; (iv) could reasonably create a source of pollution to the waters of the state; or (v) otherwise threatens public health.

Such notification shall be: (i) immediately conveyed to the Commissioner using the 24-hour emergency response number (860) 424-3338 or the alternate number (860) 424-3333 and in no event later than twenty-four (24) hours after the emergency incident; (ii) verified to the Solid Waste Program in the Waste Engineering and Enforcement Division of the Bureau of Materials Management and Compliance Assurance by phone at (860) 424-3366, or at another current publicly published number for the Solid Waste Program, or by facsimile at (860) 424-4059; (iii) followed by a written report no later than the fifth business day after the emergency incident detailing the cause and effect of the incident, remedial steps taken and emergency backup used or proposed to be implemented; and (iv) recorded in a log of emergency incidents. In addition to the notification requirements above, the Permittee shall comply with all other applicable reporting or notification requirements regarding the emergency incident including but not limited to, reporting required by Section 22a-450 of the CGS;

- e. Prevent the spillage of solid waste from transfer containers during on-site management, storage and off-site transfer. Each loaded container shall be covered before transfer off-site and the haulers shall be instructed to keep the containers covered during off-site transportation;
- f. Operate the Facility in a safe manner so as to control fire, odor, noise, spills, vectors, litter and dust emission levels in continuous compliance with all applicable requirements, including OSHA. The Facility's premises shall be maintained and any litter shall be removed on a daily basis;
- g. Ensure that the manufacturer's operation and maintenance manuals for each major piece of fixed or mobile Processing equipment, (which may include, but not be limited to, balers; conveyors; compactors; and storage tanks) installed or used at the Facility are available for review by the Commissioner;
- h. At the end of each growing season, remove and dispose of phragmites vegetation that may be impacted by stormwater discharges from the site in the area of the stormwater treatment swale;
- j. i. Determine through observation that incoming loads of solid waste, other than loads of source separated Recyclable Items, do not contain greater than ten percent (10%) by volume ("threshold contaminant percentages") of Designated Recyclable Items. For any loads identified that exceed the threshold criteria for load contamination specified in this condition the Permittee shall document each load in the daily log and report those to the Department in the quarterly reports required by Condition No. C.10. of this Permit. The Permittee shall also provide notice to the hauler in accordance with Condition No. C.5.1.; and

- ii. Determine through observation that incoming loads of source separated Recyclable Items do not contain greater than two percent (2%) by volume (“threshold contaminant percentages”) of non-recyclable wastes. For any loads identified that exceed the threshold criteria for load contamination specified in this condition the Permittee shall document each load in the daily log and report those to the Department in the quarterly reports required by Condition No. C.10. of this Permit. The Permittee shall also provide notice to the hauler in accordance with Condition No. C.5.1.;
- k. Manage solid wastes in such a manner that all Recyclable Items are segregated so that no other solid waste may cause contamination or degradation of the recyclable product, or result in any negative impact on the recyclability of such material;
- l. Conduct periodic unannounced inspections of truck loads delivered to the Facility, pursuant to Section 22a-220c(b) of the CGS. The inspections shall be performed for a minimum of five percent (5%) of the monthly truck loads received that are representative of the waste types authorized for receipt at the Facility. Records of such inspections shall be maintained at the Facility for the life of the Permit or such other timeframe specified in writing by the Commissioner. The inspections and supporting documentation shall consist of at a minimum:
 - i. Photographs of each load other than loads of source separated Recyclable Items, inspected that exceeds the threshold contaminant percentages as specified in Condition No. C.5.j. and each load of source separated Recyclable Items that exceeds five percent (5%) by volume of non-recyclable wastes;
 - ii. Origin of each load (municipality; regional facility and whether commercial or residential);
 - iii. Waste transporter company name;
 - iv. Estimated percentage of contaminant(s) present in each load and identification of each type; and
 - v. Immediate written notifications to the hauler, municipality in which the solid waste was generated and/or regional facility for each load that exceeds the threshold contaminant percentages specified in Condition No. C.5.j;
- m. Certify that all incoming loads of C&D Waste have been processed by a solid waste facility prior to receipt and that such facility has made best efforts to recover all Recyclable Items from such wastes, or process loads of C&D Waste that are not source separated loads of Recyclable Items. The Processing authorized through this Permit at the Facility shall consist of sorting and segregating for transfer from the Facility to recycling markets, Recyclable Items received (including inadvertently received Designated Recyclable Items) in loads of C&D. The Permittee shall achieve at least a ten percent (10%) rate of recovery of Recyclable Items not designated pursuant to Section 22a-241 of CGS (“non-designated Recyclable Items”), during the first year. For each year the specific recovery rates shall be as follows:

Recovery rate for Non-designated Recyclable Items (by weight)

<u>Year of the Permit</u>	<u>Percent of total waste received</u>
First year	10%
Second year	20%
Third year	30%
Fourth year	35%
Fifth year	40%

As part of the quarterly reports required to be submitted by Condition No. C.10. of this Permit the Permittee shall document the percent recovery rate by weight of non-designated Recyclable Items and of Designated Recyclable Items achieved during the reporting period. Each year on or before sixty (60) Days after the anniversary date of this Permit the Permittee shall submit to the Commissioner a report providing the percent recovery rate, by weight achieved during the previous year (year-end report).

In the event the percent recovery rate of non-designated Recyclable Items achieved is below that which is required, the Permittee shall document in the quarterly report and the year-end report the circumstances which resulted in the Permittee's inability to achieve the specific recovery rates listed in this condition. The year-end report shall also identify the measures the Permittee shall take and the actions the Permittee shall institute to achieve the specified recovery rates.

6. The Permittee shall monitor and control airborne lead and asbestos within the enclosed Processing area(s) of the Facility in accordance with the following:
 - a. **Sampling:** During the first (1st) and second (2nd) year of operation under this Permit, the Permittee shall conduct quarterly air sampling. Unless otherwise determined and notified in writing by the Commissioner, air sampling shall be performed during the second quarter on an annual basis thereafter for the remainder of this Permit. Sampling shall begin no later than thirty (30) Days after the date of issuance of this Permit and the analysis of all samples shall be conducted by a laboratory certified by the State of Connecticut Department of Public Health ("CT DPH") to perform such analyses.

All samples for asbestos shall be:

- i. Collected by a person licensed by the CT DPH as an Asbestos Consultant-Project Monitor;
- ii. Collected indoors at any enclosed Processing area(s) and analyzed using the method specified in 29 CFR 1910.1001 Appendix A or equivalent method approved in writing by the Commissioner. The Permittee shall ensure that the time-weighted average permissible exposure limit of 0.1 fibers per cubic centimeter is not exceeded.

All samples for lead shall be:

- iii. Collected by a person licensed by the CT DPH as a Lead Inspector;
- iv. Collected indoors at any enclosed Processing area(s) and analyzed using a method of monitoring or analysis which has an accuracy (to a confidence level of ninety five percent (95%)) of not less than twenty percent (20%) for airborne concentrations equal to or greater than thirty (30) micrograms per cubic meter.

- b. **Exceedances:** If the analysis determines that the limits for airborne asbestos set forth in 29 CFR 1910.1001(c) or the action level for airborne lead as defined in 29 CFR

1910.1025(b) were exceeded, the Permittee shall, no later than thirty (30) Days after becoming aware of such exceedance, submit for the Commissioner's review and written approval, a plan to address exceedances. The Permittee shall ensure that any such plan is developed by a P.E. for the design and installation of a ventilation, filtration, or capture system or implementation of additional operational procedures to control airborne asbestos and lead. At a minimum, such plan shall include:

- i. The results of all previous quarterly or annual sampling;
- ii. Plans and specifications of any proposed system or new operational procedures;
- iii. A layout drawing for the installation of any such system;
- iv. An operating and preventative maintenance schedule of any such system;
- v. An engineering evaluation demonstrating the effectiveness of the proposed system or proposed operational procedure; and
- vi. A schedule for the design, installation and operation of the system or the implementation of new operating procedures.

The Permittee shall implement the plan as approved by the Commissioner. In approving any such plan, the Commissioner may approve the plan with such conditions or modifications, as the Commissioner deems necessary.

7. The Permittee shall have an operator, certified pursuant to Section 22a-209-6 of the RCSA, present at all times during Facility operation. All individuals under the supervision of such Certified Operator shall have sufficient training to identify solid waste received at the Facility which is not permitted to be received, or is unsuitable for Processing, and shall take proper action in managing such solid waste.
8. The Permittee shall prominently post and maintain a sign at the Facility entrance pursuant to Section 22a-209-9(c) and 22a-209-10(3) of the RCSA that includes the Facility's name and the Department Permit number (Permit to Construct and Operate No. [insert Permit No.](#)) issuance date and expiration date. Such sign shall also include a phone number that provides the general public the ability to register questions or complaints twenty-four (24) hours per Day. The Permittee shall maintain a log of all calls received and how such calls were addressed or resolved. The Permittee shall also post a sign in accordance with Section 22a-636 of the CGS.
9. The Permittee shall: (a) control all traffic related to the operation of the Facility in such a way as to mitigate queuing of vehicles off-site and any excessive or unsafe traffic impact in the area where the Facility is located. Specifically, the Permittee shall ensure that (1) maximum queuing of vehicles is limited to fifteen (15) vehicles on the entrance roadway, (2) the acceptance of waste is limited to four (4) trucks per hour during Facility operation, and (3) Facility-bound trucks are scheduled in no less than fifteen (15)-minute intervals, in accordance with the Facility Plan referenced in Condition No. A.1.a.iii.; (b) unless otherwise exempted, ensure that vehicles are not left idling for more than three (3) consecutive minutes pursuant to Section 22a-174-18(b)(3) of the RCSA; and (c) prominently post and maintain signs limiting such vehicle idling time within the Facility.
10. The Permittee shall maintain daily records as required by Section 22a-209-9(p) and Section 22a-209-10(13) of the RCSA and Sections 22a-208e and 22a-220 of the CGS. Based on such records, the Permittee shall prepare monthly summaries including, but not limited to, the following information as it pertains to solid waste:

- a. Type and quantity of solid waste received, including all Recyclable Items, unauthorized solid waste and/or universal waste;
- b. Origin of waste load (municipality name; regional facility name) and waste hauler name;
- c. Destination to which solid wastes, including all Recyclable Items, unauthorized solid waste and/or universal waste from the Facility were delivered for disposal or recycling, including quantities delivered to each destination; and
- d. All daily logs (including documentation related to the unannounced inspections of truck loads) shall be maintained for the life of this Permit or such other timeframe specified in writing by the Commissioner.

The monthly summaries required pursuant this condition shall be submitted quarterly no later than January 31, April 30, July 31, October 31, of each year on up-to-date forms prescribed by the Commissioner directly to the Solid Waste Program, Waste Engineering and Enforcement Division, Bureau of Materials Management and Compliance Assurance, Department of Energy and Environmental Protection, 79 Elm Street, Hartford, CT 06106-5127.

11. The Permittee shall ensure that all Clean Wood received at the Facility is inspected for signs of the presence of the Asian Longhorn Beetle and the Emerald Ash Borer. Signs indicating possible Asian Longhorn Beetle infestation can be found at the CT DEEP webpage: <http://www.ct.gov/deep/alb>
Signs indicating possible Emerald Ash Borer infestation can be found at the CT DEEP webpage: <http://www.ct.gov/deep/eab>
 - a. The Permittee shall ensure each load of Clean Wood is visually assessed for possible pest infestation as part of the on-site routine inspections.
 - b. Any Clean Wood suspected of being infested by either the Asian Longhorn Beetle or the Emerald Ash Borer should be identified at the source of generation and managed in accordance with existing quarantine agreements.
 - c. If signs of infestation are observed:
Digital photos and careful identification notes must be provided to the [Connecticut Agricultural Experiment Station](#) (Deputy State Entomologist direct phone line: (203) 974-8474; and e-mail CAES.StateEntomologist@ct.gov).
 - i. The infested Clean Wood shall be: segregated from other Clean Wood; marked as segregated; securely stored and kept reasonably intact.
 - ii. Any handling activities (e.g. chipping and moving) shall be postponed until an investigator from, or designated by, the Connecticut Agricultural Experiment Station, has examined the potentially infested Clean Wood.
 - iii. Any truck load tickets and other documentation of deliveries shall note whether a pest infestation assessment has been conducted.
12. Nothing herein authorizes any person, municipality or authority to hinder municipal or regional solid waste recycling efforts. All activities conducted by the Permittee at the Facility shall be in accordance with this Permit and consistent with the state-wide solid waste management plan, also known as Connecticut's 2016 *Comprehensive Materials Management Strategy*, pursuant to Sections 22a-228 and 229 of the CGS.
13. The Permittee shall, no later than sixty (60) Days after the effective date of this Permit establish for the Commissioner's benefit an acceptable initial financial assurance instrument

and post the financial assurance with the Department in the amount of **\$548,534**, as required by Section 22a-6(a)(7) of the CGS in conjunction with the general requirements of Section 22a-209-4(i) of the RCSA.

14. The Permittee shall acknowledge and accept the following:
 - a. The purpose of the financial assurance is to cover the third party costs for handling, removing, transporting and disposing the maximum Permitted amount of unprocessed and processed solid waste at the Facility, and any additional cost(s) to ensure the proper closure of storage areas including, but not limited to, equipment rental, site clean-up, the decontamination and disposal of all equipment and Processing and storage areas, and a fifteen percent (15%) contingency to cover unforeseen events or activities that may increase the overall cost to close the Facility.
 - b. The financial assurance instruments shall follow the requirements of Section 22a-209-4(i) of the RCSA, and 40 CFR 264.141 to 264.143 inclusive and 40 CFR 264.151, as referenced therein. The Permittee shall ensure that the financial assurance instrument is established in a format specified by the Commissioner for closure or post-closure maintenance and care, as appropriate.
 - c. The Department accepts five (5) types of financial assurance instruments, they are: (a) Trust Fund; (b) Irrevocable Standby Letter of Credit; (c) Financial Guarantee "Payment" Bond; (d) Performance Bond; and (e) Certificate of Insurance. The following documents are also required to be submitted:
 - i. A cover letter signed by the Permittee shall be submitted along with the Irrevocable Standby Letter of Credit, in accordance with Section 40 CFR 264.143(d)(4).
 - ii. A "Standby Trust Agreement" shall be submitted along with either a Irrevocable Standby Letter of Credit; Financial Guarantee "Payment" Bond; or Performance Bond; and
 - iii. A "Certification of Acknowledgement" shall be submitted along with the Trust Fund instrument.
 - d. The financial assurance shall:
 - i. Be valid for and appropriately maintained during the term of this Permit;
 - ii. Specify the Permittee's name, the Facility's address, the number and issuance date of this Permit; and
 - iii. Be established in one or more of, the instrument formats found on the Department's website [www.ct.gov/DEEP/financialassurance].
 - e. The financial assurance instrument shall be adjusted annually for inflation within the sixty (60) Days prior to the anniversary date of the financial assurance instrument, and whenever there is a change in operations that affects the cost of closing the Facility in accordance with the requirements of 40 CFR 264.142(b) as incorporated in Section 22a-449(c)-104 of the RCSA.
15. The Permittee shall, no later than sixty (60) Days from the issuance date of this Permit perform quarterly compliance audits for the life of this Permit.

- a. The compliance audits required by this condition shall consist of a thorough and complete assessment of the Permittee's compliance with Sections 22a-209-1 through 22a-209-17 of the RCSA and with the terms and conditions of this Permit.

b. Compliance Auditor

The compliance audits required by this condition shall be performed by an engineer licensed to practice in Connecticut ("P.E.") or consultant. Such P.E. or consultant shall be approved in writing by the Commissioner and will be required to prepare and submit to the Commissioner quarterly compliance audit reports.

The Permittee shall, prior to the Commissioner's approval of the P.E. or consultant: (a) submit for the Commissioner's evaluation a detailed description of the P.E. or consultant's credentials (education; experience; training) which are relevant to the work required under this condition; and (b) certify to the Commissioner that such P.E. or consultant:

- i. Is not a subsidiary of or affiliated corporation to the Permittee or Permitted Facility;
- ii. Does not own stock in the Permittee or any parent, subsidiary, or affiliated corporation;
- iii. Has no other direct financial stake in the outcome of the compliance audit(s) outlined in this Permit;
- iv. Has expertise and competence in environmental auditing and the regulatory programs being addressed through this Permit, including evaluation of compliance with requirements specified in Sections 22a-209-1 through 22a-209-17 of the RCSA and with the terms and conditions of this Permit; and
- v. Within ten (10) Days after retaining any P.E. or consultant other than the one originally identified pursuant to this condition, notify the Commissioner in writing of the identity of such other P.E. or consultant by submitting the information and documentation specified in this condition. Nothing in this condition shall preclude the Commissioner from finding a previously acceptable P.E. or consultant unacceptable.

c. Scope of Compliance Audits

Compliance audits shall:

- i. Detail the Permittee's compliance with the requirements of this Permit and all applicable provisions of Sections 22a-209-1 through 22a-209-17 of the RCSA.
- ii. Describe the Compliance Auditor's participation in and the results of compliance audits conducted at the Facility on the loads of solid waste received at the Facility during the compliance audit. The purpose of such inspections is to determine whether such loads are being received that contain greater than ten percent (10%) by volume Designated Recyclable Items; whether loads of source separated Recyclable Items contain greater than two percent (2%) by volume of non-recyclable wastes; and to detect patterns associated with such loads. Unless otherwise approved by the Commissioner, the compliance auditor shall inspect solid wastes unloaded from a minimum of ten (10) trucks received during the Day of the compliance audit. The Compliance Auditor shall document the actual number of truck loads inspected and the findings of such inspections.

d. Compliance Audit Report

The results of each compliance audit shall be summarized in a Compliance Audit report. At a minimum such report shall include:

- i. The names of those individuals who conducted the compliance audit;
 - ii. The areas of the Facility inspected;
 - iii. The records reviewed to determine compliance;
 - iv. A detailed description of the Permittee's compliance with this Permit and applicable regulations;
 - v. The identification of all violations of this Permit and applicable regulations;
 - vi. A description of the actions taken by the Permittee to correct patterns of loads received that exceed the threshold contaminant percentages specified in Condition No. C.5.j. for loads that are representative of the waste types authorized for receipt at the Facility;
 - vii. The findings regarding the inspections conducted in accordance with this condition during the Day of the compliance audit;
 - viii. A description of the actions taken by the Permittee to correct the violation(s) identified in each compliance audit; and
 - ix. The Permittee's certification of compliance with the regulations and documentation demonstrating such compliance pursuant to this Permit. In cases where multiple counts of the same violation are discovered, the report shall include a listing of each count.
- e. **Permittee's Responses to Compliance Audit**
The Permittee and P.E. or consultant shall comply with the following:
- i. The inspection frequency shall be quarterly for the remaining life of the Permit;
 - ii. All violations shall immediately be brought to the attention of the Permittee by the P.E. or consultant. The P.E. or consultant shall also notify the Department within five (5) Days of the inspection of all violations noted during the inspection;
 - iii. The Permittee shall correct all violations immediately. Should the Permittee be unable to immediately correct the violation, the Permittee within seven (7) Days of the notification date, shall submit for the review and written approval of the Commissioner, a detailed plan to correct all violations noted. Such plan shall also include a schedule for implementation of the corrective actions required or recommended; and
 - iv. Within fifteen (15) Days from the inspection date the P.E. or consultant shall submit, to the Department and the Permittee, the compliance audit report. A copy of the compliance audit report shall be maintained at the Facility for the life of the Permit or for such other timeframe specified by the Commissioner.
- f. The Permittee shall cease accepting solid waste at the Facility in the event that the Permittee fails to submit in a timely manner the plan and schedule required by Condition No. C.15.e. of this Permit or fails to correct the violations noted by the inspection(s) in accordance with the approved plan and schedule.
- g. **Documentation Submittal Deadlines**
The documents required to be submitted pursuant to this condition shall be submitted quarterly no later than January 31, April 30, July 31, October 31, directly to the Solid Waste Enforcement Program, Waste Engineering and Enforcement Division, Bureau of Materials Management and Compliance Assurance, Department of Energy and Environmental Protection, 79 Elm Street, Hartford, CT 06106-5127.
16. Unless otherwise specified in writing by the Commissioner, any documents required to be submitted under this Permit shall be directed to:

Solid Waste Program
Waste Engineering and Enforcement Division
Bureau of Materials Management and Compliance Assurance
Department of Energy and Environmental Protection
79 Elm Street, Hartford, CT 06106-5127
Or via email to
DEEP.Solid&HazWasteReports@ct.gov

17. Any document, including, but not limited to any notice, which is required to be submitted to the Commissioner under this Permit shall be signed by a duly authorized representative of the Permittee, as defined in Section 22a-430-3(b)(2) of the RCSA, and by the individual or individuals responsible for actually preparing such documents, each of whom shall certify in writing as follows:

“I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief, and I understand that any false statement in the submitted information may be punishable as a criminal offense.”

Any false statement in any document submitted pursuant to this Permit may be punishable as a criminal offense in accordance with Section 22a-6 of the CGS, pursuant to Section 53a-157 of the CGS, and in accordance with any other applicable statute.

18. The date of submission to the Commissioner of any document required by this Permit shall be the date such document is received by the Commissioner. The date of any notice by the Commissioner under this Permit, including but not limited to, notice of approval or disapproval of any document or other action shall be the date such notice is personally delivered or the date three (3) Days after it is mailed by the Commissioner, whichever is earlier. Any document or action which is due or required on a weekend or a legal state or federal holiday shall be submitted or performed by the next business day thereafter.
19. This Permit is subject to and in no way derogates from any present or future property rights or other rights or powers of the State of Connecticut and conveys no property rights in real estate or material nor any exclusive privileges, and is further subject to, any and all public and private rights and to any federal, state or local laws or regulations pertinent to the Facility or activity affected thereby.
20. Nothing in this Permit shall affect the Commissioner’s authority to institute any proceeding or to take any actions to prevent violations of law, prevent or abate pollution, recover costs and natural resource damages, and to impose penalties for violations of law.
21. Nothing in this Permit shall relieve the Permittee of other obligations under applicable federal, state and local laws.
22. Permit to Construct No. 1010316, issued November 20, 1995, Modification of Permit to Construct No. 1010316, issued as Permit No. 1010373 on March 27, 1998, Permit to Construct No. 0930544-PC issued May 22, 2003, and Permits to Operate numbered 1010660-

PO and 0930671-PO, issued on July 14 and February 1, 2005, respectively, are no longer in effect and are replaced by this Permit.

This Permit shall expire ten (10) years from the date of issuance and may be revoked, suspended, modified, renewed, or transferred in accordance with applicable laws.

Issued on this _____ day of _____, 2016.

By _____
Yvonne Bolton, Chief
Bureau of Materials Management and
Compliance Assurance

Application Nos. 201003390 and 200903750.
Permit to Construct and Operate No. [insert Permit No.](#)
Permittee – Certified # [or](#) e-Certified

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