Approx Nov 05

ORGANIC

RECYCLING CENTER

WRITTEN REPORT

2095 US 1 Hwy
Franklinton, N.C. 27525
(919) 562-4950

A) Anticipated type, source, and composition of waste to be received.

This facility will accept untreated wood only from various construction clearing and grubbing activities. Processed mulch will be sold immediately or stored within the designated processed mulch stockpile areas as a temporary measure. There will be no composting material received or processed at this facility.

B) Provisions to maintain a clean and orderly operation.

i. Effective barrier to prevent unauthorized entry and dumping.

The facility has a fence and gate that is kept locked when the facility is closed. During operation hours, an attendant will visually observe the incoming loads to prevent the dumping of unauthorized materials. In the event, that non-conforming types of debris are detected, or passes through the inspection point, the inert debris shall be routed to the adjacent inert debris landfill. All other waste shall be properly disposed of at the Franklin County Public Landfill.

ii. Signs posted with name of owner, operator, contact person and number in case of emergency and hours of operation.

Mulch Facility
Hours of Operation:
8:00 a.m. - 6:00 p.m. M-F
8:00 a.m. - 3:00 p.m. Saturday
Closed Sunday

In case of emergency contact:
James Adams, Jr.
(919) 422-8454

iii Dust control measures.

The existing entrance is constructed with concrete roadway at gate following with asphalt material for approximately 800 feet, then stone material to dump site. Dust will be controlled by the watering down of dusty area.

iii. Litter control measures.

Litter will be collected daily by the operator and disposed of off-site at the end of each day. No trash receptacles will be provided in order to discourage truck drivers from emptying trash and litter on the site.

iv. *Fire protection and control measures.*

The Youngsville Volunteer Fire Department will be notified immediately in the case of a fire. The stockpile areas will have proper fire vehicular access on all sided as shown on the Operations Plan. The mulch stockpile area has been designed to accommodate smaller pile sizes, which will minimize any potential for anaerobic conditions, build-up of heat, methane and other gases, and fire due to spontaneous combustion of these gases. The small size of the processed mulch piles will also eliminate the need for turning and aerating the mulch stockpiles. No aeration or turning of the mulch stockpiles will be performed.

v. *Odor control measures and practices.*

The mulch stockpile size will minimize any potential for anaerobic conditions, and the build-up of heat, methane and other gases. Without anaerobic conditions, no odor control will be necessary.

Explanation of Daily Operation and Maintenance

All incoming loads will be inspected prior to unloading or grinding. Only untreated wood will be accepted at this recycling facility. Non-conforming waste will not be accepted. All other waste will be directed to either the adjacent inert debris landfill or to the Franklin County public landfill, depending on the specific type of waste material. The site attendant will conduct visual inspections. After passing the gate attendant, the load will be directed to the windrow storage area by site attendant. The untreated wood will be loaded into the Grinder or appropriate storage windrow by one of the onsite loaders.

After approximately one to two years of drying, wood debris will be ground into mulch and sold or remain on its static pile and pulverized by running over it with a bulldozer. This debris will then be separated in a screener and sold as a soil-like material. The resulting mulch will be piled in the mulch stockpile area for immediate sale or storage until sold. If windrow areas are inaccessible due to inclement weather conditions, incoming trucks will unload within the mulch stockpile area as a temporary measure.

For material pickup, the vehicle will be loaded as requested. The customer will pay the gate attendant per size of truck. If any processed mulch pile remains static for a month, it will be aerated by moving and rotating the pile. A $50 fine will be imposed for anyone littering on the premises.

Interior travel ways (20' wide) and perimeter drive areas (20' wide) have been provided throughout the overall raw wood debits storage areas and mulch stockpile areas. 20' wide travel ways have been provided at an angle perpendicular to the unprocessed, raw wood debris windrows for easier access and overall circulation. The average, overall length of the raw wood debits windrows varies from 90' to 530'. Trucks and loaders will be able to drive forward into the mulch stockpile and wood debris storage areas, load or unload raw or processed wood/mulch materials, and continue driving forward to access the remainder of the site.

The mulch stockpile area has been designed to accommodate smaller pile sizes. Each proposed mulch windrow is approximately 50' wide by 20' maximum height, which will minimize any potential for anaerobic conditions, build-up of heat, methane and other gases, and fire due to spontaneous combustion of the gases.

The customers will be directed by gate attendant for visual inspections of their vehicle. The site attendant will then direct the customer to the loading area.

A) Proposed Equipment.

The facility will be equipped with one (1) wheel loader, two (2) excavators, one (1) grinder, one (1) screener, one (1) bulldozer, and one (1) track hoe.

B) Person responsible for operation, contact phone number and address of facility.

Person Responsible for Operation:	James Adams, Jr.
Contact Phone Number:	(9 1 9) 422-8454
Address of Facility:	2095 US 1 Hwy ~~Wake Forest NC, 27587~~ → FRANKLIN, NC 27525

C) Control and inspection of incoming waste.

A site attendant will be on site during operational hours. The attendant will direct and visually inspect all incoming loads. Only untreated wood will be accepted at this facility. All other wastes will not be accepted. Again, non-conforming waste will be turned away and directed to the Franklin County Landfill. The loader will also visually inspect the load.

D) Method of measuring incoming waste.

All loads will be measured by volume in tons by truck size and these measurements will be recorded by the gate attendant.

E) Vehicle control and unloading.

All vehicles will be controlled by the site attendant and directional signs located within the facility. The untreated wood will be unloaded on the permitted site as directed by site attendant.

F) Method and sequence of processing the waste.

Since only untreated wood will be accepted at this facility, the entire permitted area will be used for processing and recycling of wood debris and the resulting mulch. Initially, only 6 to 10 acres will be used for wood debris/mulch grinding, processing and recycling operations. After this point, approximately 1 acre/year will be utilized until full. The untreated wood will be inspected at arrival; re-inspected during unloading into windrow storage areas, grinded and stored into piles. If debris deteriorates before grinding into mulch product, it will be pulverized in its static windrow using a track hoe and sheer. The resulting material will then be placed in a screener separating the soil-like material from the un-deteriorated debris. The resulting mulch and soil-like material will be sold. The exiting mulch volume will be measured and recorded.

G) Leachate and run-off control measures.

Only untreated wood will be accepted at this facility. Since no solid waste will be accepted, there will be no leachate generated. The active area of operation will be maintained with the appropriate silt fence and appropriate silt basins to control runoff. Erosion control measures shall be maintained as required to guarantee proper functioning of these measures.

H) Description of ultimate use for finished compost.

This facility will be used for wood debris processing and recycling and the sale or disposal of the resulting mulch to the general public. The ultimate use of the mulch is for sale to the general public. There will be no composting at this site.

I) Plan for back-up system if poor quality product is produced, inclement weather conditions arise, changes in market conditions develop, equipment failure is realized, or in the event of a fire or medical emergency.

If the design capacity of the facility is reached or if any of the above-mentioned limitations occur, the incoming loads of untreated wood will temporarily not be accepted at this facility. Equipment will be repaired as quickly as possible, and fire/emergency officials will be notified immediately. If inclement weather conditions prevent access to windrows, incoming trucks loaded with wood debris will be directed to the mulch stockpile area for temporary storage. As stated previously, the mulch stockpile area has been designed to accommodate smaller pile sizes, which will minimize any potential for anaerobic conditions, build-up of heat, methane and other gases, and fire due to spontaneous combustion of the gases. The small size of the processed mulch piles will also eliminate the need for turning and aerating the mulch stockpiles. No aeration or turning of the mulch stockpiles will be performed. Roadway maintenance will be performed regularly to provide easy access to all areas.

J) Design capacity of the facility.

The facility is designed for a maximum capacity of 500 tons/day (1000-2000 cy/day) to be received and processed. The average capacity is considered approximately 80 tons/day (320 cy/day). In accordance with the Solid waste Section, Policy Memorandum #14, the typical conversion rates are as follows:

Land Waste:	500 lbs/cy
Mulch:	750 lbs/cy
Dirt:	1000 lbs/cy

There are no available records to substantiate the inflow and outflow of tons of materials. Tonnage amounts will be dependent upon variable market conditions. Annual reports will be submitted at the end of each fiscal year, dated from July 1 to June 30, as required.

K) Recycling time duration, time from initiation of the recycling/mulching process to completion.

Wood debris will be stored in windrows for approximately 1-2 years to allow for drying. The untreated wood will be chipped into mulch piles to be stored and be ready for immediate sale. After approximately

1-2 years, some deteriorated wood will be pulverized in its static windrow using a track hoe, then placed in a screener to separate soil-like material from dried debris to be chipped or ground into mulch. Both resulting materials will then be sold. There will be no composting at this site.

L) Typical windrow construction and aeration configurations.

Unprocessed wood debris will be stored in windrows of 50' maximum base 20' maximum height including 20' travel ways between and around each windrow. A perimeter drive around the entire recycling facility will be 20' wide. Processed mulch piles will be stored in windrows of 50' maximum base at 20' maximum height, allowing for storage and distribution. Travel ways between processed mulch stockpiles will be 20' wide. There will be a 50' buffer or travel way between the Wood Debris and inert Debris Landfill facilities. The resulting mulch will be sold in a timely manner or stored within the processed mulch stockpile area. There will be no composting material received or processed at this facility. The processed mulch stockpiles will not be aerated due to the small size of each mulch stockpile.

M) Method of aeration, including turning frequency or mechanical aeration equipment and aeration capacity.

The processed mulch stockpiles will not be aerated. The final mulch material will be predominately for landscaping purposes. The mulch stockpile area has been designed to accommodate smaller pile sizes, which will minimize any potential for anaerobic conditions, build-up of heat, methane and other gases, and fire due to spontaneous combustion of the gases. The small size of the processed mulch piles will also eliminate the need for turning and aerating the mulch stockpiles.

N) Personnel required and their responsibilities.

There will be a gate attendant responsible for visual operations. There will be a site attendant directing incoming loads. The site attendant will be responsible for visual inspections of incoming untreated wood products, litter control and grinder operations. There will be two loader operators responsible for loading final mulch product and visually inspecting and unloading untreated wood. They will also be responsible for aeration of mulch piles.

O) A description and an identification of the surface for proposed site, areas, and depth to season high ground water.

The site has approximately 50' relief draining mostly towards the north. The permitted area is approximately 28 acres. From on-site soil inspections, ground water was lower than the upper 24 inches of the surface at all tested locations within the Organic Recycling Center.

P) A description of the recycling pad.

There will be approximately 28 acres reserved for wood debris storage, processing and recycling. There will be no composting at this site.

Q) A description of any monitoring that will occur involving the composting process or the site.

The site will be monitored. Only untreated wood will be accepted at the site. The site attendant will be responsible for visual inspection of incoming untreated wood products. Incoming materials will be inspected for non-conforming waste materials. Debris piles will be inspected by the site attendant for overall drying and fire conditions. All litter will be picked up off the site daily, there will be no compost processing at the site.

R) Source of waste input.

Wastes will come from construction clearing and grubbing activities.