

## ArborNature C&D Recycling and Transfer Station

*October 15, 2020*

# APPROVED

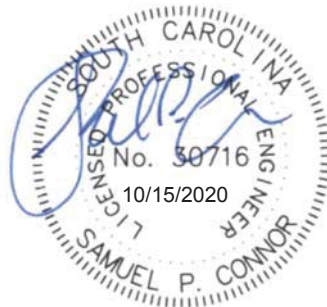
SOLID WASTE PERMITTING & MONITORING SECTION  
DIVISION OF MINING & SOLID WASTE MANAGEMENT  
S.C. DEPARTMENT OF HEALTH & ENVIRONMENTAL CONTROL

BY: 

TITLE: Manager

DATE APPROVED: Mar 4, 2021

PERMIT NUMBER: TRAN-00036



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# Engineering Report

## 1. GENERAL OVERVIEW

The proposed ArborNature C&D Recycling and Transfer Station is located on the site approved as ArborNature Woodchipping Facility. The site is located on Summit Drive on Hilton Head Island, Beaufort County, South Carolina. The location includes appropriate screening, scales, attendants shed, material storage and dumping grounds. The transfer waste holding area is approximately 68' x 116' and is surrounded on 3 sides with stacked 2' x 2' x 8' concrete blocks (stacked 2 blocks high). The blocks surround 3 sides of the transfer area for waste containment and there is no cover. The open side of the transfer area is for access to the dumping area and for the excavator to load the transfer trailers. The operations for the facility have been fine-tuned and are outlined in the report below and attached site plan.

## 2. OPERATIONS PLAN

### Normal Operation Hours

- Normal operating hours of the C&D Transfer Station will be 7:00 am – 5:00 pm; Monday through Friday, except legal holidays.

### Description of Waste Stream

- Construction and demolition debris only in accordance with SCDHEC's list of acceptable waste
- The expected source of C&D waste will be from local contractors operating on the Hilton Head Island as well as local C&D trash haulers operating small hauling Trucks or trailers.

### Description of the Landfills

- The C&D waste will be disposed at Oakwood Landfill (Waste Management) located at 751 Strobhart Rd Ridgeland SCSC 29936.
- In the event unpermitted waste is disposed at the facility, the facility operator will haul away unpermitted waste to landfill accepting the particular waste. The nearest landfill will be Hickory Hill Landfill located at 2621 Lowcountry Dr Ridgeland SC 29936.

### Fire Prevention

- No smoking or burning of any kind is permitted within the facility property
- Approved and certified fire extinguishers will be located on site and in compliance with OSHA's fire prevention requirements

- Combustible waste materials will be properly identified by trained employees and separated from other potentially reactive waste materials if necessary
- Local fire stations phone numbers will be posted in attendant's office
- Local fire station has been notified regarding fire prevention procedures.

#### **Odor Control**

- The frequency of debris removal and type of debris accepted prevents odor from becoming problematic. If an odor does become a problem it will be identified and addressed as soon as possible.

#### **Control of Vectors**

- The frequency of debris removal and type of debris accepted prevents Vectors from becoming problematic. The turnover time will be performed on as needed basis, at minimum once a week. If Vectors are identified they will be addressed as soon as possible, and if Vectors become an issue the pest management company will be contacted to provide treatment.

#### **Control and Inspection of Incoming Waste**

- The drivers and site operators will be trained to look for and identify unacceptable waste. Only C&D waste will be accepted at the site. Neither Municipal Solid Waste nor Hazardous Waste is permitted or allowed to enter the site.
- The signs of acceptable and unacceptable waste will be posted at the entrance of the facility.
- The customers will have to sign a contract/customer agreement outlining acceptable and unacceptable waste. There will be fines and consequences outlined in the agreement if the rules are not followed.
- Each truck will go through the scales for weight measurement and additional screening to identify the waste and employees will turn around unacceptable loads before they reach the tipping floor.
- In the event animal carcasses are disposed of at the facility it will be hauled away within 24 hours to the municipal-waste facility.

#### **Life Expectancy of Facility**

- A life expectancy of at least 20 years is anticipated for this facility.

#### **Measuring Incoming Waste**

- The site has a 11' x 70' drive on, SC certified scale. Trucks will be weighed in and out to determine the exact amount of debris dumped. Weight will be measured in tons. County origin of waste will be documented.

#### **Leachate collection**

- Not applicable – only C&D debris will be accepted.

## **Maintenance and Operation (O&M) Manual**

### *Tipping Floor Load-Out Area Maintenance and Inspection*

- Site operator will be required to fill out a monthly report stating the condition of the site. All repairs will be addressed immediately.

### *Cleaning the Tipping Floor and Load-Out Area Floor Drains and Drainage System*

- Site operator will continuously monitor the condition of the gravel/dirt tipping floor and maintain positive slope as to prevent holes or mounds of debris. The tipping floor will be maintained daily to keep debris confined to proper areas and maintain proper vehicle flow.

## **3. CONTINGENCY PLAN**

### **Inoperable Periods**

- During inoperable periods, no debris will be brought to or removed from the site. All access gates to the site will be secured and locked when site is not in service.

### **Fire Plan**

- Employees will be properly trained on the use of fire extinguishers provided onsite if any fire should occur. The local fire department contact information will be readily available and posted throughout the facility. Employees will be trained to evacuate the area of an out of control fire immediately and contact the local fire department as soon as possible.

### **Hazardous/Infectious Waste**

- Hazardous and infectious waste is not allowed to enter the site. If an employee encounters unacceptable waste material they have been trained to isolate the waste and immediately contact the fire department and Department of Health and Environmental Control (DHEC) for proper disposal.

### **Power Failure**

- In the event of a power failure, the facility will close to all incoming and outgoing waste until the failure is resolved.

### **Unavailability of transfer vehicles**

- If transfer vehicles become unavailable, all incoming waste will be halted based upon the capacity of the remaining storage. The site will only accept C&D materials and therefore odor and vector control will not be an issue.

### **Unavailability of Scales**

- If scales become inoperable or unable to accurately measure waste, the facility will be closed until the scales are properly working.

### **Spill Containment**

- Employees will be trained to handle spill containment and provided spill containment kits in the attendant's office.

### **Loading equipment**

- A 210 size and 300 size excavators will be used to load the transfer truck. A front-end loader will assist in debris containment.

### **Maximum Amount of Waste that can be Received during inoperable periods**

- No debris will be accepted during inoperable periods.

### **Hurricane Evacuation Plan**

- In the event a hurricane watch is issued for Hilton Head Island by the National Weather Service the facility will be on the standby to evaluate the conditions. The equipment will be prepared to start the hauling of the debris.
- In the event a hurricane warning is issued for Hilton Head Island by the National Weather Service the facility will start preparations for evacuation and removal of C&D debris. The company will make all required arrangements to make sure there is enough equipment to remove the debris from the facility. Additional equipment might be leased if necessary.
- In the event mandatory evacuation is ordered by local officials the facility will remove all C&D waste from the site and will close the operations. The owner will monitor the progress of hauling the waste and will secure the facility.

## **4. CLOSURE PLAN**

### **Procedure of waste residues removal**

- Recyclables will be recovered from the material and the remaining debris will be transferred to a permitted landfill.

### **Procedure of cleaning and disinfection of waste handling area**

- There will be no putrescible waste allowed on site. The handling area will be cleaned and inspected daily.

### **Procedure for removal of leachate**

- Not applicable – only C&D debris will be accepted.

**Financial assurance**

<b>1.</b>	General Conditions/Mobilization/Demobilization (Backhoe and Bulldozer)	<b>\$5,000</b>
<b>2.</b>	Transfer Station Cleaning: – 70 man hours at \$13 per hour = \$910 – Cleaning material cost \$200	<b>\$1,110</b>
<b>3.</b>	Abandon wastewater collection stumps	<b>N/A</b>
<b>4.</b>	Signage: 2 metal signs fixed to fence	<b>\$200</b>
<b>5.</b>	Waste disposal: – Mobilization/Demobilization of Front End Loader \$2,000 – 60 man hours at \$13.00 per hour for Cost of Loading = \$780 – 500 tons at 20 tons per load at \$200.00 per load for cost of Hauling = \$5,000 – 500 tons at \$35.00 per ton for cost of Disposal = \$17,500	<b>\$25,280</b>
<b>6.</b>	Lechate disposal	<b>N/A</b>
<b>7.</b>	Removal of Contaminated soils	<b>N/A</b>
<b>8.</b>	Contingency cost of closure	<b>\$2,000</b>
<b>9.</b>	Administrative cost of closure	<b>\$1,000</b>
<b>ESTIMATED TOTAL</b>		<b>\$34,590</b>

**5. TRANSPORTATION PLAN**

**The number and type transportation vehicles to be used**

- All waste will be loaded into a 115 CY walking floor trailer pulled by a tractor truck. Under standard operation two trailers will be used.

**The number and type of equipment to be used to load waste**

- Two excavators (size 210 & 300) will be used to load the trailer. A front-end loader will be used to assist in the waste containment.

**Design calculation showing maximum capacity of operations**

- 240 tons per day of three 115 cubic yard trailers dumping 4 loads per day at 20 tons per load

**Transportation Plan**

- See Appendix F: Overall Site Plan for reference distance and their location.

- There is 100 feet available for on-site stacking space for incoming vehicles, and additional 190 feet on-site stacking space for vehicle scale queue. This allows allowing 5 vehicles each 55 ft. on hold in this area.
- There is approx. 500 ft. available for truck unloading queue.
- Peak Hourly Traffic Volume = 10 Vehicles Per Hour

## **6. FACILITY DESIGN INFORMATION**

### **Average and maximum collection vehicle payloads**

- 5 tons average and 15 tons maximum

### **Time to unload each collection vehicle**

- Roll-off dump trucks only, avg. 6 minutes per dump

### **Required unloading space**

- Roll-off dump trucks require an area 30' long and 10' wide to dump

### **Total hours per day waste is delivered**

- 7:00 a.m. to 5:00 p.m. or 10 hours per day

### **Peaking factor for facility**

- Average one vehicle per 30 minutes and 5 vehicles per 30 minutes maximum.
- 10 vehicles per hour maximum

### **Peak Hourly Traffic Volume by Collection Type**

- 10 vehicles per hour all of C&D waste material. No other waste allowed on site.

**Total Length of Dumping Space:** 116 ft.

**Total Width of Dumping Space:** 68 ft.

### **Total Height of Dumping Space**

- No building or cover will be installed, therefore no height restrictions for equipment or machinery is necessary.
- The expected height, on average, of the C&D waste holding area will be 3 feet, with maximum height reaching up to 6 feet in some condensed areas.

**Total Area Required for Solid Waste Storage:** 116' x 68' = 7,888 sf

### **Stored Solid Waste Density**

- Average 200 tons



**Maximum tonnage that can be stored in dumping space area of the tipping floor**

- 500 tons

**Total Building Area**

- The open waste holding area has an area of 7,888 sf.
- The only accepted material to be received by the facility is C&D waste. This holding area is not a building and we request a variance to have uncovered area for C&D temporary waste storage.
- The facility will have an asphalt pad for the waste handling area.

**Water Supply**

- Water well will be constructed on the site

**Average and maximum transfer trailer capacity in cubic yards and tonnage**

- Average Capacity – 19 tons or 100 cubic yards
- Maximum Capacity – 20 tons or 115 cubic yards

**Front End Loader Bucket Capacity Cubic Yards (loose)**

- 5 cubic yards

**Estimated Time Available for Loading Transfer Trailers**

- 115 yard trailer / tow yards per load = 40 loads per trailer, approximately 30 minute load time
- 30 min per load x 8 trailers per day = 4 hrs per day

**Density of compacted waste in a trailer load**

- 535 pounds per cubic foot

**Rate at which the front end loader will load and compact the waste**

- 23 scoops every 30 minutes

**Estimated number of trailers required to manage receiving capacity of the facility**

- 240 tons per day max capacity = 3 trailers doing 4 loads per day at 20 tons each = 240 tons

**Estimate number of trailers required to manage storage capacity of the facility**

- 240 tons per day max capacity = 3 trailers doing 4 loads per day at 20 tons each = 240 tons

**Allowable time to manage one transfer trailer**

- 40 minutes

**Time to remove and replace each loaded trailer**

- Each trailer will be required to have a truck assigned to it thus it will never have to move and be replaced.

**Time to load each transfer trailer**

- 30 minutes per trailer

**Number of transfer trailers loading simultaneously**

- Only one trailer is anticipated to be loading at a time
- Site has the ability to load two trailers at once if necessary

**Average and Peak tonnage throughout**

- Avg. 80 tons per day
- Peak 240 tons per day

**7. TRAINING PLAN**

**Procedure for Handling Equipment**

- All equipment operators and drivers must be a CDL holder and have at least one year of operating experience before allowed to operate machinery.

**Review of Operational Plan and Contingency Plan**

- Monthly review of site conditions and operations will be performed by management staff to assure all items contained in this report are followed.
- Drivers and operators will be properly trained to identify unacceptable waste

## APPENDIX A



**Application for Permit to Construct a Solid Waste Management System  
Bureau of Land and Waste Management**

**Submit to:** Division of Mining and Solid Waste Permitting, Bureau of Land and Waste Management  
SC Department of Health and Environmental Control, 2600 Bull Street, Columbia, SC 29201-1708  
**(Please Print or Type)**

I. Name of project: ArborNature C&D Recycling and Transfer Station

II. Physical location (Directions to project - use street names, county road numbers, etc.): \_\_\_\_\_  
104 Summit Drive Hilton Head Island SC 29926 County: Beaufort

Latitude and longitude (nearest 15 seconds) or UTM coordinates: \_\_\_\_\_  
32°13'40.6"N 80°41'31.3"W

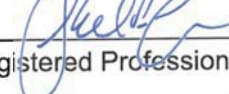
III. In accordance with Title 44, Chapter 96 of the Code of Laws of South Carolina, 1976, as amended, I hereby make application, on behalf of the party(ies) whose name(s) appears below, for a permit to construct and operate the following type of solid waste management project (describe): \_\_\_\_\_  
Class two - Construction and Demolition Debris Transfer Station

IV. Facility name, mailing address: ArborNature C&D Recycling and Transfer Station  
PO Box 22268 Hilton Head Island SC 29925 Telephone number: (843) 681-2726


V. Operator's name, mailing address (if different from name of facility owner): \_\_\_\_\_  
Telephone number: \_\_\_\_\_

VI. Landowner's name, mailing address (if different from name of facility or operator): Congrove Enterprises, LLC  
PO Box 22268 Hilton Head Island SC 29925 Telephone number: (843) 681-2726

VII. I have placed my signature and seal upon the documents submitted with this application signifying that I accept responsibility for the information and/or design contained therein. Additional submittals where required will also bear my signature and seal, signifying that I accept responsibility for the information and/or design contained therein.


Engineer's name (print): Sam Conner Signature:   
S.C. Registration No: 30716 Registered Professional Engineer

VIII. I have read this application and all attached documents. I agree to the requirements and conditions that are contained in it. Also, I agree to the admission of properly authorized persons at all reasonable hours for the purpose of sampling and inspection.

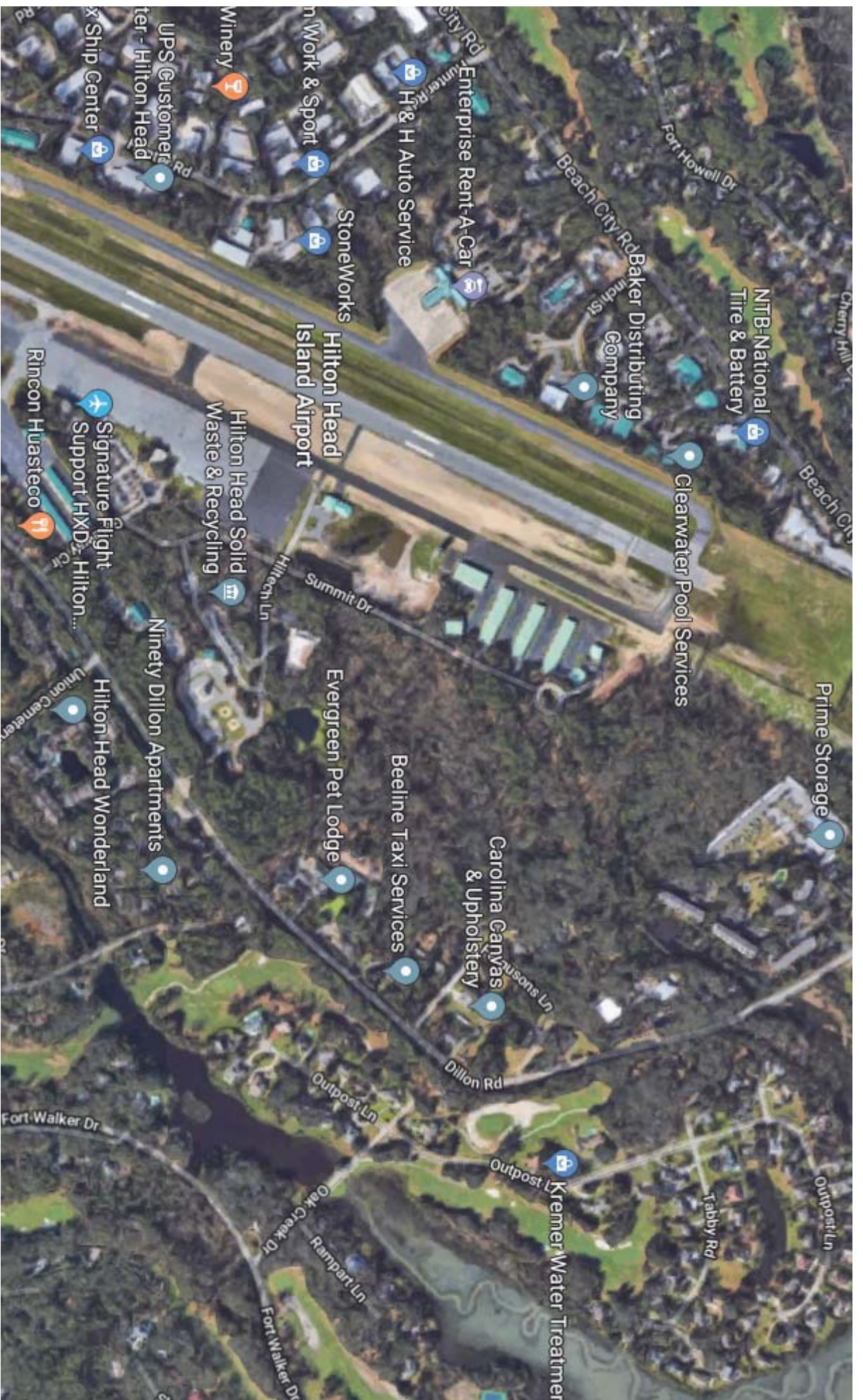
Name of Facility Representative (print): Adam Congrove Signature:   
Facility Representative's title: President Date: 10/15/2020

Name of Operator Representative (print): \_\_\_\_\_ Signature: \_\_\_\_\_  
(If different from facility representative)

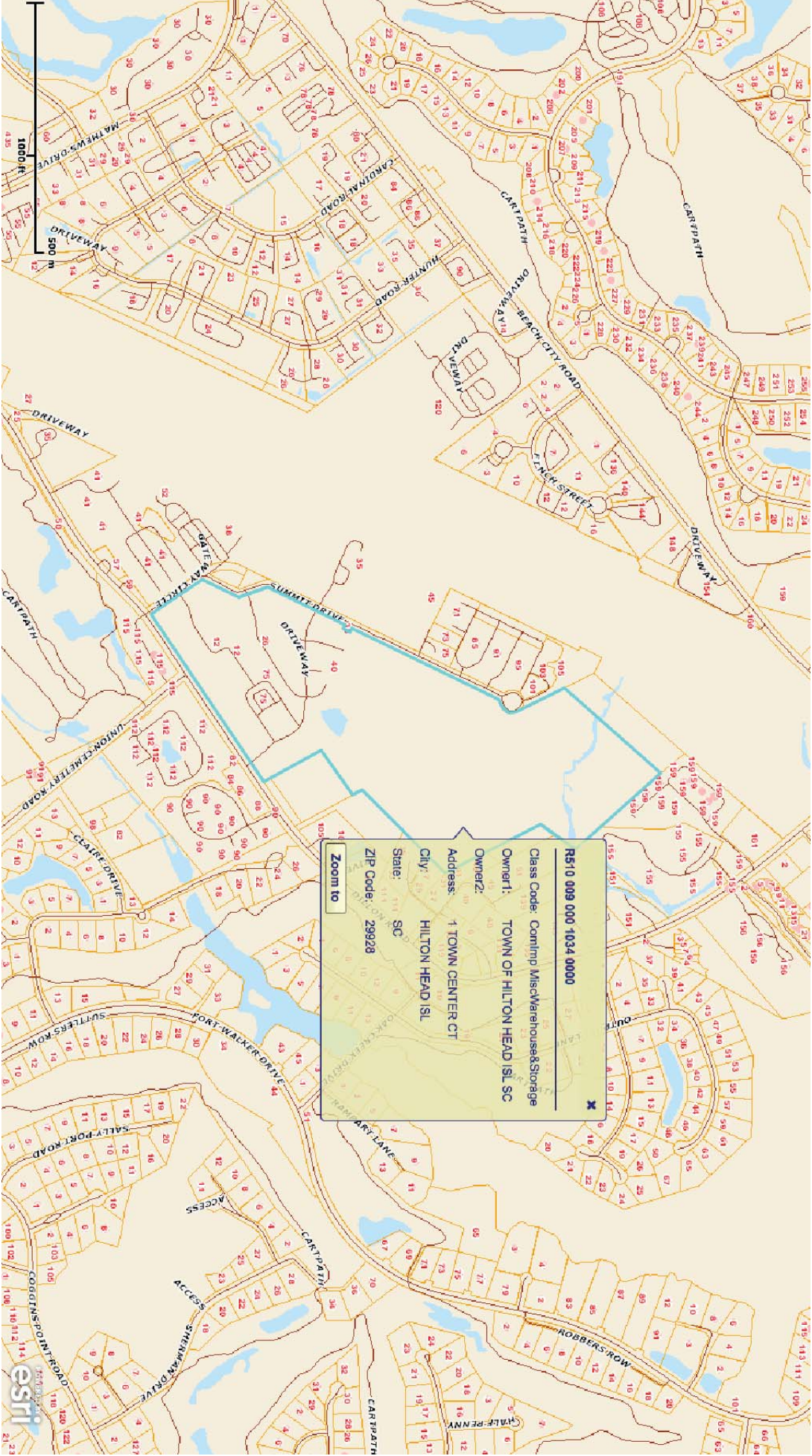
Operator Representative's title: \_\_\_\_\_ Date: \_\_\_\_\_

Name of Landowner (print): Congrove Enterprises LLC Signature:   
(if different from facility or operator representative) Date: 10/15/2020

## APPENDIX B



APPENDIX B.1



Wed Oct 9 2019 05:39:03 PM

APPENDIX B.2

## APPENDIX C



# TOWN OF HILTON HEAD ISLAND

One Town Center Court, Hilton Head Island, S.C. 29928

(843) 341-4600 Fax (843) 842-7728

www.hiltonheadislandsc.gov

David Bennett  
Mayor

*Via U.S. Mail and E-mail*

Kim W. Likins  
Mayor ProTem

March 16, 2018

\_\_\_\_\_  
Council Members

David Ames  
Marc A. Grant  
William D. Harkins  
Thomas W. Lennox  
John J. McCann

Mr. Adam Congrove  
ArborNature, LLC  
PO Box 22268  
Hilton Head Island, SC 29925-2268

Re: Zoning Verification for Portion of Parcel 1034, Summit Drive

\_\_\_\_\_  
Stephen G. Riley  
Town Manager

Dear Adam:

This letter is delivered to you in connection with the Lease to be entered into by and between the Town of Hilton Head Island (the "Town") and ArborNature, LLC (the "Lease") regarding that certain tract of land containing 4.00 acres, more or less, shown and designated as "Portion of Parcel 1034" on that certain plat of survey entitled "Boundary, Tree and Topographic Survey of: A Portion of Parcel 1034, Summit Drive, Hilton Head Island, Beaufort County, South Carolina" prepared by Sea Island Land Survey, Mark R. Renew, SCPLS 25437, dated 10 November 2017 (the "Summit Drive Tract").

By this letter, in response to your request for verification of the zoning and permitted uses for the Summit Drive Tract, I confirm for your reliance that I am the LMO Official for the Town, and in that capacity, I have the power and duty to, among other things, make written interpretations of the Town's Land Management Ordinance (the "LMO") and maintain the Town's Official Zoning Map. In that capacity, I have reviewed the LMO adopted by the Town Council of the Town on October 7, 2014 and all amendments to the LMO adopted by the Town Council of the Town since then, and I have also reviewed the Town's Official Zoning Map regarding the Summit Drive Tract. I also confirm for your reliance that in preparing this letter, I am cognizant of the South Carolina Supreme Court's decision in the 2010 case styled *Quail Hill, LLC v. County of Richland*, and I confirm that I am aware that your receipt of this letter is a material inducement to you to enter into the Lease, and that you are entitled to rely on this letter as binding on the Town.

I confirm for your use and reliance that the Summit Drive Tract is located in the LMO's Light Industrial (IL) zoning district.

In reviewing the permitted uses available on the Summit Drive Tract under the Light Industrial (IL) District regulations, I have taken into account the activities that occur on, and the uses made of, the Beaufort County convenience center located in the vicinity of the Summit Drive Tract, which is also in the Light Industrial (IL) District.

The LMO provides that one of the one of the by-right permitted uses in the Light Industrial (IL) District is Waste-Related Services Other than Waste Treatment Plants, and the LMO's definition of Waste-Related Services Use Other than a Waste Treatment Plant reads as follows:

An establishment that receives solid or liquid wastes from others for disposal on the site or for transfer to another location, that collects sanitary wastes, or that manufacturers or produces goods or energy from the composting of organic material. Uses include: waste transfer or composting centers; salvage and recycling facilities; resource recovery facilities; recycling drop-off centers; and water treatment plants. Accessory uses may include offices, outdoor storage, recycling of materials, and repackaging and transshipment of by-products. Disposal of dirt, concrete, asphalt, and similar non-biodegradable materials is considered fill.

Based on the allowed uses for the Summit Drive Tract, I confirm for your use and reliance that wood grinding, waste transfer, and composting center operations are permitted uses on the Summit Drive Tract under the LMO. Such permitted uses include, but are not limited to, receipt from third parties of, on-site storage of, and transfer of organic and inorganic yard trash, landscaping debris, land-clearing debris, and construction or demolition debris; waste transfer; and composting; however, the operation of a sanitary sewer treatment plant is not a permitted use on the Summit Drive Tract.

Please contact me at (843) 341-4698 or at [teri@hiltonheadislandsc.gov](mailto:teri@hiltonheadislandsc.gov) if you have further questions regarding the permitted uses on the Summit Drive Tract.

Sincerely,

A handwritten signature in cursive script that reads "TB Lewis".

Teri B. Lewis, AICP  
LMO Official

## APPENDIX D



release unto the Grantee, in fee simple, its successors and assigns, forever the following property:

All that certain piece, parcel or lot of land, situate, lying and being on Hilton Head Island, Beaufort County, South Carolina, shown and described as "Portion of Parcel 1034 4.00 ac. 174,240 Sq. Ft.," on a Plat dated November 10, 2017, prepared by Sea Island Land Survey, LLC, Mark R. Renew, SCPLS 25437, and which is recorded in the Office of the Register of Deeds for Beaufort County, South Carolina, in Plat Book 153 at Page 124

This conveyance is made and accepted subject to a reserved access easement in favor of the Grantor, allowing access onto the property herein conveyed for a depth of twenty (20') feet along the common boundary between the property herein conveyed and the adjacent property owned by the Grantor, for the purpose of installing, erecting, placing, planting, or maintaining the noise abatement or mitigation structures, plantings, or improvements on the property owned by the Grantor. The reserved access easement does not permit the Grantor, to install, erect, plant, or place any structures, plantings, or improvements on the property herein conveyed, and the reserved easement is solely for the purpose of allowing entry in aid of installing, erecting, planting, placing, or maintaining noise abatement or mitigation structures, plantings, or improvements on the adjacent property owned by the Grantor. Use of the reserved easement is limited to the time that is required to complete any installation, erection, planting, placement, or maintenance of any noise abatement or mitigation structures, plantings, or improvements on the adjacent property owned by the Grantor. The Grantor shall restore any part of the property herein conveyed that is damaged by the Grantor's exercise of the easement rights reserved herein to its condition prior to the Town's entry.

This conveyance is also made and accepted subject to all other applicable covenants, easements, or other matters that are of record in the Office of the Register of Deeds for Beaufort County, South Carolina.

This being a portion of the property conveyed to The Town of Hilton Head Island, South Carolina, by deed of Cutcliffe/Heyward Partnership dated May 2, 1999 and recorded in the Office of the Register of Deeds for Beaufort County, South Carolina, in Record Book 1173 at Page 1340, and by deed of Cornelia Stevens, Ruby Goover, Ammie Oliver, and Joseph Cannick dated July 12, 2002 and recorded in the Office of the Register of Deeds for Beaufort County, South Carolina, in Record Book 1634 at Page 238.

This deed was prepared in the law office of Coltrane & Wilkins, LLC, Post Office Box 6808, Hilton Head Island, SC, 29938, by Curtis L. Coltrane.

A Portion of R510 009 000 1034 0000

Together with, all and singular, the Rights, Members, Hereditaments and Appurtenances to the said Premises belonging, or in anywise incident or appertaining.

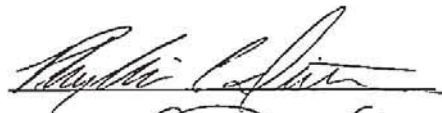
To Have and to Hold, all and singular, the said Premises before mentioned unto the Grantee, its successors and assigns, forever.

And the Grantor does hereby bind itself and its successors and assigns to warrant and forever defend, all and singular, the said Premises unto the Grantee, its successors and assigns, against the Grantor and its successors and assigns, and against all persons whomsoever lawfully claiming, or to claim the same or any part thereof.

In witness whereof, John J. McCann, Mayor of The Town of Hilton Head Island, South Carolina, and Stephen G. Riley, Town Manager of The Town of Hilton Head Island, South Carolina, have set their hands and seals on this 26<sup>th</sup> Day of February, 2020.

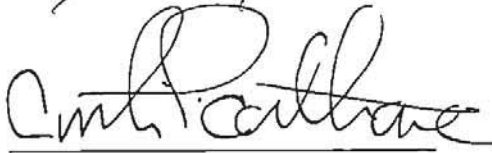
WITNESSES

THE TOWN OF HLTON HEAD ISLAND,  
SOUTH CAROLINA



By: \_\_\_\_\_

John J. McCann, Mayor



By: \_\_\_\_\_

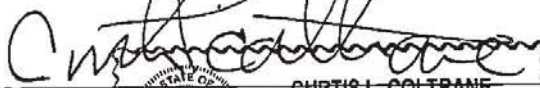
Stephen G. Riley, Town Manager

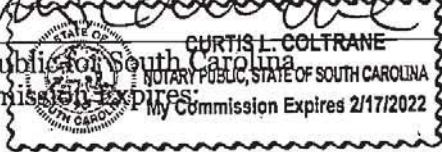
STATE OF SOUTH CAROLINA )  
 )  
COUNTY OF BEAUFORT )

UNIFORM ACKNOWLEDGMENT

I, the undersigned Notary Public do hereby certify that The Town of Hilton Head Island, South Carolina, by and through John J. McCann, Mayor, and Stephen G. Riley, Town Manager, personally appeared before me on this day and duly acknowledged the execution of the foregoing instrument.

Sworn to and subscribed before me  
on this 26<sup>th</sup> Day of the February, 2020.

  
Notary Public of South Carolina  
My Commission Expires: 2/17/2022



## APPENDIX E



**AFFIDAVIT OF OWNER'S CONSENT**

February 28, 2020

Owner: Congrove Enterprises LLC

Tenant: ArborNature LLC

RE: C&D Transfer Station

Congrove Enterprises LLC grants permission to ArborNature LLC to use property on Summit Drive, Hilton Head SC (a portion of the parcel identified as R510 009 000 1034 0000) as a Class Two – C&D Transfer Station.

ArborNature LLC is responsible for all permits and requirements from Town of Hilton Head and/or any other government entity.

  
\_\_\_\_\_  
Adam Congrove, Member

## APPENDIX F

## APPENDIX G

## APPENDIX H

## Appendix I

### ACCEPTABLE WASTE FOR CLASS TWO LANDFILLS

The following types of waste have been determined by the Department to be environmentally safe and may be accepted at Class Two Landfills unless specifically prohibited by the Department. Acceptable wastes may be generated by construction, demolition, land-clearing, industrial, and/or manufacturing activities, and/or obtained from segregated commercial waste. However, any of the materials listed in this appendix that have been contaminated by any hazardous constituent listed in the S.C. Hazardous Waste Management Regulations 61-79.261, or petroleum products, are prohibited from disposal at a Class Two Landfill.

#### Acceptable Land-Clearing Debris Such As:

- |   |               |
|---|---------------|
| . brush & limbs   | . root mats   |
| . earthen material, e.g., clays,<br>sands, gravels, & silts | . top soil    |
| . logs  | . tree stumps |
| . rock  | . vegetation  |

#### Acceptable Debris Such As:

- |   |                                 |
|---|---------------------------------|
| . asbestos-containing material <sup>2</sup><br>attached to structure, | . other items physically        |
| . bricks & masonry blocks<br>awning, vinyl siding                     | e.g., signs, mailboxes,         |
| . cardboard   | . other structural fabrics      |
| . dry paint cans  | . packaging material            |
| . dry caulking tubes<br>based paint)                                  | . painted waste (includes lead- |
| . fiberglass matting  | . pallets & crates              |
| . floor covering  | . pipes                         |
| . glass   | . plaster & plasterboard        |
| . glass wire (optical fiber)<br>polished, cured                       | . polyfiberglass (highly        |
| . hardened asphaltic concrete <sup>3</sup><br>stalls, roofing, etc.)  | material used for shower        |
| . hardened cement   | . shingles & roofing materials  |
| . hardened concrete (may include rebar)                               | . structural steel              |
| . insulation material   | . tile (floor, wall & ceiling)  |

<sup>2</sup> Friable and nonfriable asbestos-containing material shall be disposed in a designated area and covered immediately upon receipt with at least six inches (6") of acceptable material. Prior to disposal of asbestos-containing material, the generator of the asbestos waste shall obtain a "permission for disposal" letter from the Department's Bureau of Air Quality (BAQ) and submit this letter to the landfill. All landfills accepting asbestos-containing material for disposal are subject to the BAQ regulation 61-86.1 Standards of Performance for Asbestos Abatement Operations, and the National Emissions Standards for Hazardous Air Pollutants[40CFR61, Subpart M;]

<sup>3</sup> Tar sealant material is not acceptable.

- . lumber (includes treated lumber)
- . mirrors
- . tires<sup>4</sup>
- . tubing
- . wall coverings

Acceptable Brown Goods:

- |            |  |   |
|------------|--|---|
| furniture: | <ul style="list-style-type: none"> <li>. box springs</li> <li>. mattresses</li> <li>. wooden swing sets</li> <li>. nonmotorized bulky outdoor children's toys</li> </ul> | <ul style="list-style-type: none"> <li>. furniture including lawn</li> <li>- laminated</li> <li>- metal<sup>5</sup></li> <li>- plastic</li> <li>- PVC</li> <li>- vinyl</li> <li>- wooden</li> </ul> |
|------------|--|---|

Animal Carcasses Acceptable Under Following Conditions:

- . Animal carcasses shall be buried in a separate designated area. The facility shall submit to the Department a written request to dispose of animal carcasses including a plan that shows the portion of the landfill to be used for this type of disposal. The permit will be modified to reflect the designated disposal area, and;
- . Animal carcasses shall be buried and covered with at least twelve inches (12") of dirt immediately upon receipt.
- . Hydrated lime shall be added to the carcass and surrounding area before cover is applied to control bacterial growth and odor.
- . Mass kill burial shall not be acceptable at Class Two Landfills unless approved by the Department prior to disposal.

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<sup>4</sup> Tires shall be reduced in size by a minimum of one-eighth the size of the original tire prior to landfill disposal.

<sup>5</sup>The Department recommends that all metal furniture be recycled if feasible.

**APPENDIX II. Unacceptable Waste for Class Two Landfills.**

Appendix II  
UNACCEPTABLE WASTE FOR CLASS TWO LANDFILLS

The following types of waste have been determined to pose a potential threat to the environment and shall not be accepted at Class Two Landfills. Wastes are considered to be contaminated if a waste has come into contact with and maintains a residue or characteristic of the contaminated materials as described herein.

Any Waste That Has Been Contaminated by Petroleum Products Such As:

- . absorbent (vermiculite)
- . concrete
- . containers
- . filters (oil, etc.)
- . mechanical/machine parts
- . paper towels & rags
- . pipes
- . soil
- . storage tanks
- . tar sealant material

Any Waste That Has Been Contaminated by Polychlorinated Biphenyls (PCBs) Such As:

- . any waste that has come in contact with any liquid-containing PCBs
- . capacitors
- . electrical components
- . lighting ballasts
- . transformers

Any Waste That Has Been Contaminated by Organic Chemicals or Solvents (industrial plants, chemical plants, laboratories, construction sites, etc.) Such As:

- . absorbent etc.)
- . adhesives
- . caulking compounds
- . cement
- . containers (packaging)
- . filters
- . flooring (wood, carpet, etc.)
- . glazing compound
- . mechanical/machine parts (valves, pumps, etc.)
- . paint thinner
- . pipes
- . pumps
- . soil
- . storage tanks
- . tar
- . vats

Any Waste That Has Been Contaminated by Preservatives, (pentachlorophenol & creosote) Such As:

- . containers
- . mechanical parts used in manufacturing processes
- . railroad ties
- . soil
- . utility poles

Any Waste That Has Been Contaminated by Pesticides/Herbicides Such As:

- . concrete
- . containers (packaging)
- . equipment used for application
- . mechanical/machine parts
- . pallets & crates
- . soil
- . vats
- . wood (storage area)

Miscellaneous Waste Such As:

- . lamps<sup>6</sup>
- . liquid waste (paint, paint thinner, etc.)
- . unpolished fiberglass (Bondo)
- . wastes/substances determined by the Department to be unacceptable

Cathode Ray Tubes (CRTs) and Electronic Equipment Such As:

- . cameras
- . compact discs (CDs)
- . computers
- . computer monitors
- . communication & navigation equipment
- . Digital Versatile Disc (DVDs)
- . displays
- . hand-held video game machines
- . mainframes
- . microwave ovens
- . personal digital assistants (PDAs)
- . radios
- . stereos
- . televisions
- . test equipment (oscilloscopes, etc.)
- . video cassette recorders (VCRs)
- . video game machines

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<sup>6</sup>Fluorescent lamps and high intensity discharge (HID) lamps such as metal halide and mercury vapor lamps.



# APPENDIX I



October 3, 2019

Town of Hilton Head Island Fire and Rescue  
 Johieda B. Fister  
 40 Summit Dr.  
 Hilton Head, SC 29926

RE: Woodchip Grinding Facility / Solid-Waste Transfer Station at Portion of the Parcel 1034, Summit Dr. - Prevention and Control of Fires

Ms. Fister,

The following information is an answer to your request regarding prevention and control of fires in the facility located at Summit Dr., portion of the parcel R510 009 000 1034 0000, Summit Dr., Hilton Head.

This facility will process land-clearing debris and yard waste into reusable end products. The material will be chipped into boiler fuel and mulch. The incoming yard waste will be stocked in windrow within DHEC regulations and the chipped materials will be temporarily stored on-site in windrow within DHEC requirements.

Procedures to prevent and control of fires:

Temperature readings will be taken and recorded weekly to ensure the temperature does not exceed 170 degrees Fahrenheit. If the temperature exceeds this level the pile will be turned to reduce the fire hazard. The temperature readings and any subsequent turning of the stockpile will be logged by the facility operator and maintained at the facility office.

The onsite equipment will be able to turn piles as needed. The pile will be monitored every day. In the event of fire the piles can be spread and turned over or covered with soil.

The fire control will be maintained with the utilization of a water spray truck that will spray piles, roads and work areas during dry periods. In addition, the grinder and power screen can be equipped with water sprays for heat or dust suppression.

The space between stock piles will be provided for fire lanes.

In the event of a fire, the wood material will be covered with soil, if it is determined that a fire is manageable by facility personnel. If facility personnel deem the fire unmanageable, the fire department will be contacted.

In the event of equipment fire, facility personnel will extinguish if manageable otherwise the fire department will be contacted.

Feel free to contact us if you have any questions or need more information.

Sincerely,

Adam Congrove  
 Owner  
 ArborNature, LLC

Approved: \_\_\_\_\_

By: Johieda B. Fister

Date

10/24/19

**ArborNature LLC**

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 (843) 681-2726 • [Info@ArborNature.com](mailto:Info@ArborNature.com)