Mailing address:
Post Office Box 380
Wrightsville Beach, NC 28480
www.seasidemulch.com

Locations in:
Wilmington, NC
Castle Hayne, NC
Conway, SC

RECEIVED
FEB - 8 2012
SOLID WASTE SECTION

Attn: Donna Wilson
Division of Waste Management
Solid Waste Section
1646 Mail Service Center
Raleigh, NC 27699-1646

Re: Seaside Mulch's Large Type 1 Composting Facility Application

Dear Ms. Wilson,

Included in this packet are duplicate copies of Seaside Mulch Inc.'s permit application for a Large Type 1 Composting Facility. Also included are duplicate copies of our Composting Facility Operation Manual. Please contact me anytime if there is any additional information needed to complete the application & permit process. Thanks for your assistance in this matter.

Sincerely,

Lee Craft

Lee Craft
Seaside Mulch, Inc.
910-332-2330 direct
800-641-0881 toll free
910-332-2314 fax
lee@seasidemulch.com

Seaside Mulch®

RECEIVED
FEB - 8 2012
SOLID WASTE SECTION

Seaside Mulch, Inc.

Large Type I Composting Facility Permit Application

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Introduction/Background Information

Seaside Mulch, Inc. has a Yard Waste Notification site (YWN-65-008) located at 201 North Green Meadows Dr. Wilmington, North Carolina. Seaside Mulch, Inc would like have this site permitted as a Large Type I Composting Facility.

In order to meet the requirements of the North Carolina Department of Environment & Natural Resources (NCDENR) Division of Waste Management – Solid Waste Section, Seaside Mulch has compiled the attached information as outlined in Section .1400 – Solid Waste Compost Facilities. The plan for this facility is to produce compost, biofuels, and mulch products from the accepted materials

Section 1: Aerial Photograph

An Aerial photograph is provided where 1 inch is less than or equal to 400 feet, of the entire property is included. All wells, industrial buildings, utilities, roads, watercourses, and other applicable information is labeled. *(See Attachment 1)*

Section 2: Zoning

Included is a letter from New Hanover County stating that a yard waste processing and composting facility is allowed within the designated area. *(See Attachment 2)*

Section 3: Siting and Design Standards

The following sections explain how the facility complies with siting and design standards in Rule .1404 of the North Carolina Solid Waste Compost Rules.

<u>Floodplain</u>
The designated property is not in a floodplain

<u>Property Line Buffer</u>:
A minimum 50 foot buffer from the property line to any processing or storage area shall be maintained

<u>Residence Buffer</u>:
The minimum 200 foot buffer between any processing or storage areas and residences shall be maintained

<u>Well Buffer</u>
A minimum 100 foot buffer shall be maintained between the groundwater wells

<u>Perennial Streams/Rivers Buffer</u>
There are no perennial streams or rivers located on the designated property

Surface Water Quality Standards
The facility will not discharge directly into waters or wetlands. The Facility will, only be processing yard waste, not contaminates will be accepted.

Closed-Out Disposal Area
The facility is not located over a closed-out solid waste disposal area

Adequate Access
A 25 foot minimum distance shall be maintained around the processing and composting areas to allow adequate access for fire fighting equipment

Surface Water Requirements
The facility will not discharge directly into waters or wetlands.

Groundwater Requirements
Upon completion of a soil & water table elevation analysis, the approximate depth for the water table elevation was found to be 11 feet. *(See Attachment 3)*

Public Access
The facility does not allow uncontrolled public access. The facility has a fence with a lockable gate at the entrance. The facility is only open to the public Monday-Friday 7:30am-5:00pm & Saturdays 8:00am-4:00pm

Sedimentation Pollution Control Law
NO "Land Disturbing" will be performed in the development of The Facility.

Air Pollution Control Requirements
The facility will operate to meet the Air Pollution Requirements (15A NCAC 2D) to minimize undesirable odorous emissions and minimize odors at the property boundary. The yard waste will be stored on-site for no longer the 30-60 days. The operation will promote aerobic conditions to help minimize odors.

Section 4: Waste Types

The facility will accept yard waste. This material will consist of residential waste such as tree & shrub pruning debris, grass clippings, and leaves. The material will also consist of wood chips from tree removal and land clearing operations. The seasonal content of the material will consist of more grass clippings during the Spring and Summer months and more leaves during the Fall and Winter.

The Facility estimates accepting approximately 6000 cubic yards of material per quarter. Approximately half this material will be composted. The remainder will be further processed into mulch or boiler fuel.

A soil evaluation for the chemical and physical properties of the soil pad and depth of the seasonal high water table was performed. The evaluation was conducted by a soil scientist down to a depth of four feet, or to the bedrock, or evidence of a seasonal high water table, whichever one came first.

See Attached Soil Evaluation Results (Attachment 3)

Section 5: Site Plans

A site plan is included at a scale where 1 inch is less than or equal to 100 feet to the inch that delineates the existing and proposed contours, at intervals appropriate to the topography; location and elevations of dikes, trenches, and other water control devices and structures for the diversion and controlled removal of removal of surface water; designated setbacks & property lines; proposed utilities & structures; and areas for unloading, processing, active composting, curing, and storage of material. *(See Attachment 4)*

Section 6: Operation Description

The following information describes the facility operation:

Facility Operator: Hackney Parker
Seaside Mulch, Inc.
201 N. Green Meadows Dr.
Wilmington, NC, 28405
910-791-2100

The facility will accept various types of yard waste. The majority of the materials will be ground on site; however a small amount will be ground prior to arriving at the facility. Seaside Mulch, Inc. will process these materials further to be used as compost, boiler fuel, and/or mulch. To produce these products, any or all of the following may occur.

After grinding, material being used for mulch or boiler fuel will be removed immediately removed from the site and transferred to another facility for further processing. Material may be placed in windrows to compost. The windrows will be approximately 12-15 feet in height and 15-20 feet in width. During the active composting stage the temperatures will be checked daily with a 3 foot long dial thermometer until there has been 15 consecutive days of temperature at or above 131 F. The readings will be taken approximately 30-40 feet apart and all reading will be recorded in the Seaside Mulch Compost tracking Log. During those 15 days the windrows will be turned a minimum of 5 times using a front end loader.

After meeting the temperature and turning requirements, the composted material will be transferred to one of our 2 manufacturing facilities to be screened. The screens will allow sizing of composted materials to meet specific market demands. The larger pieces (overs) of woody material will be used incorporated into mulch products or boiler fuel. The screened fines will be allowed to cure and when ready, be sold as Seaside Mulch's NuLeaf® compost.

- *For a more detailed description of our operation plan please view the attached Seaside Mulch, Inc. Large Type 1 Composting facility Operation Plan (Attachment 7)*

Operations during Adverse Conditions
Procedures will take place during the following adverse conditions:

- Wind: If heavy winds are present the material handling will be at a minimum to reduce the probability that material will blow off site.
- Precipitation: The site is graded to facilitate drainage that can occur from heavy precipitation. The site is graded and windrows are constructed to allow drainage between the windrows to reduce the amount of standing water around the windrows. In periods of heavy precipitation in which equipment cannot move freely throughout the site, material shall not be accepted nor processed. During heavy precipitation, temporary berms may be constructed to aide in storm water diversion.
- Freezing: Material will not be accepted nor processed during times when extreme freezing conditions are present.
- Hurricanes: The Facility will be closed and entrance secured when hurricane conditions are expected or present.

Actions to Minimize off Site impacts
In an effort to be a good steward of the community, Seaside Mulch, Inc. will take the following measures to minimize off site impacts.

- Noise: Grinding will only occur during normal operating hours Monday through Friday. Grinding will not occur on the weekends, holidays, or after hour hours.
- Vectors: Vectors are not anticipated to be a problem due to yard waste being the only material accepted.
- Odors: Seaside Mulch, Inc. will implement operating procedures designed to reduce odors. Such procedures include, routinely turning piles to reduce anaerobic conditions and mixing high carbon/nitrogen ratio material with low carbon/nitrogen ratio material to create aerobic conditions.

Section 7: Process Flow

Materials Receiving/Processing

Seaside Mulch accepts Yard waste that come in ground and un-ground forms. The material is delivered to the site by personal vehicles, dump trucks, & trailers. The material is weighed prior to unloading and visually inspected by the Seaside Mulch office staff. The customer is made aware of any products that are not accepted. Once at the unloading area the material is inspected once again by a Seaside Mulch Equipment operator. Once the operator has conducted their inspection, the customer is allowed to unload all approved waste. Any waste products that a deemed contaminates will not be allowed to be unloaded and the customer must transport the unaccepted waste to a proper disposal facility. The Yard waste will be stockpiled in the initial unloading area until grinding.

All grinding and processing equipment is kept off-site and transported to the Seaside Mulch Composting Facility when needed. Once the material is processed, a windrow is formed onsite with the ground material. Any excess ground material will be shipped offsite for use as mulch or boiler fuel. The composting material will be monitored daily. Temperature readings will be taken at a minimum of 3 separate areas at a variety of areas including the top, middle, & bottom of the windrow to obtain an accurate reading. The temperatures will be maintained at a minimum of 131 degrees Fahrenheit for a minimum of 15 consecutive days. During these 15 days, the compost will be turned a minimum of 5 times. The material will be turned and aerated using a front-end loader. The active composting stage can last anywhere from 20 days to 2 months. Seaside Mulch will keep the material in the active composting stage until all PFRP and State of North Carolina regulations are met.

After the material has completed the active composting process, the composted material will be screened. The "fines" from the screening process will be shipped offsite to allow to properly cure. The "overs" will be further processed into mulch. The "curing" stage of the process allows the compost to mature and stabilize. The compost will be allowed to cure from 9-12 months, possibly longer depending on the demand for the compost.

As an active participant in the U.S. Composting Council's Seal of Testing Assurance Program, the finished compost is tested quarterly by a 3rd party testing facility. The compost will be tested for pH, heavy metals, chemical analysis, stability, maturity, C/N ratio, plus many other parameters. All compost analysis are available upon request.

See Operations Manual for Process Flow chart

Section 8: Compost Use & Information

(See Attachment 5)

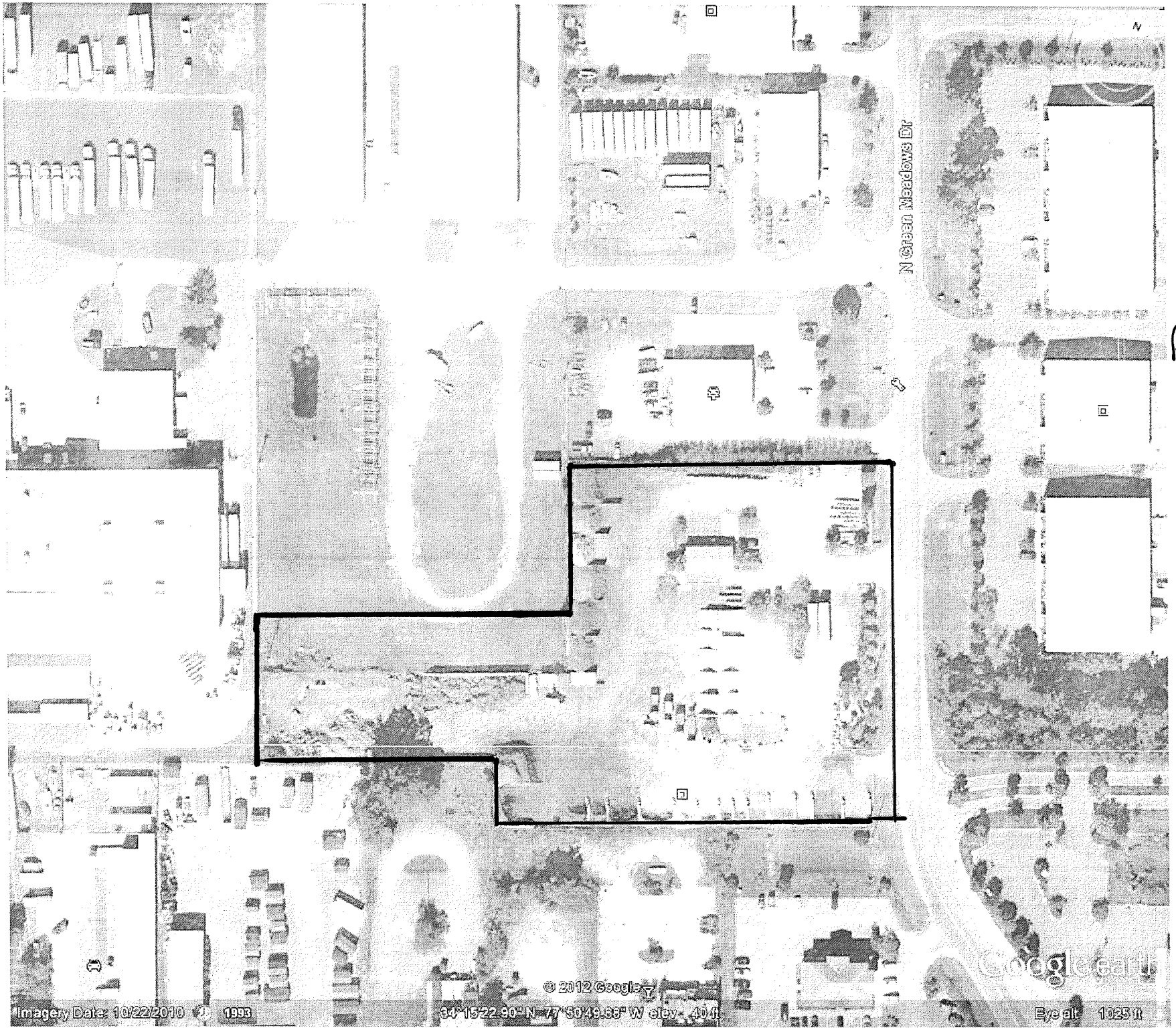
Section 9: Facility Equipment

(See Attachment 6 for Equipment Specifications)

Section 10: Operation Maintenance Manual

(See Attached Operations Maintenance Manual, Attachment 7)

Attachment 1


N Green Meadows Dr
© 2012 Google
Imagery Date: 10/22/2010
1993
34°15'22.90" N 77°50'49.98" W elev 40 ft
Eye alt 1025 ft
Google earth

Arial Photo

Attachment 2

NEW HANOVER COUNTY
PLANNING & ZONING DEPARTMENT
230 GOVERNMENT CENTER DRIVE, SUITE 110
WILMINGTON, NORTH CAROLINA 28403
TELEPHONE (910) 798-7118
FAX (910) 798-7003

Chris O'Keefe
Planning & Inspections
Director

Jane Daughtridge
Current Planning & Zoning
Manager

December 13, 2011

Mr. Lee Craft
Seaside Mulch, Inc.
201 N. Green Meadows Drive
Wilmington, NC

RE: 201 N. Green Meadows Drive, Wilmington, NC
Parcel No.R04319-008-002-000

Dear Mr. Craft:

This office has the responsibility for the administration, interpretation and enforcement of the Zoning Ordinance and amendments thereto, of the County of New Hanover, North Carolina (the "Zoning Ordinance"). Based upon our review of our records, we hereby certify as follows:

1. As of the date, hereof, the Property is classified within the I-2 Industrial District by the Zoning Ordinance, as shown on the Official Zoning Map of the County of New Hanover.

2. The Zoning Ordinance permits the operation and use of the Property for the following uses: Demolition-Landscape Landfill; Large Collection recycling Facilities (See enclosed Table of Permitted Uses).

3. To my knowledge, there are no present violations of the provisions of the New Hanover County Zoning Ordinance.

If you have any further questions, please contact me at (910) 798-7116.

Sincerely,

Linda E. Painter
Zoning Code Official

Enclosure

Attachment 3

CATLIN
Engineers and Scientists

Post Office Box 10279
Wilmington, North Carolina 28404-0279

Telephone: (910) 452-5861
Fax: (910) 452-7563

www.catlinusa.com

January 31, 2012

Seaside Mulch
Attn: Mr. Hackney Parker
P.O. Box 380
Wrightsville Beach, North Carolina 28480

Re: Hand Auger/Soil Classification
Seaside Mulch Green Meadows Drive
CATLIN Project No. 211077.02

Dear Mr. Parker:

CATLIN Engineers and Scientists (CATLIN) is pleased to present you with the results of the hand auger investigation conducted on January 13, 2012. A CATLIN field geologist met Mr. Lee Craft onsite and the location of the proposed compost area was identified. Five (5) hand augered soil borings (HA01 thru HA05) were advanced across the proposed area. Boring locations HA01 and HA05 were advanced to a depth of twelve (12) feet below land surface (BLS) to determine approximate depth to water table elevation. Borings HA02 thru HA04 were advanced to approximately eight (8) feet BLS. Soil classification information from each boring was described in the field using ASTM International (ASTM) D 2488, "Standard Practice for Description and Identification of Soils (Visual/Manual Procedure). Borings logs have been prepared for each boring and are attached.

Review of the borings logs indicates that the underlying soils from the surface to a depth of approximately seven (7) feet bls consist of a mixture of dark brown to tan, fine to very fine poorly graded sand to silty sand. The soils from approximately eight (8) feet bls to a depth of twelve (12) feet bls consisted of a tan fine to very fine poorly graded sand. As measured in borings HA01 and HA05 the approximate depth to water table elevation is eleven (11) feet bls. Based on the measured depth to water table elevation, current drought conditions, and that a higher water table conditions are more prevalent during the winter months an approximation of the seasonal high water table would be plus or minus eight (8) feet below land surface.

CATLIN appreciates the opportunity to provide you with environmental engineering services. If you have any questions or concerns, please contact us at your convenience.

Sincerely,

Michael D. Mason
Laboratory Manager

Michael E. Mason, P.E.
Vice-President

Enclosures
211077_Letter Report_03.docx

BORING LOG

CATLIN Engineers and Scientists

211077.01

PROJECT NO.: 211077.01	STATE: NC	COUNTY: New Hanover	LOCATION: Wilmington
PROJECT NAME: Seaside Mulch		LOGGED BY: Tom Stetler	BORING ID: HA01
		DRILLER: N/A	
NORTHING: 3794197.1	EASTING: 237785.7	CREW: N/A	
SYSTEM: UTM NAD83 (m)	BORING LOCATION:		LAND ELEV.: 0.00
DRILL MACHINE:	METHOD: Hand Auger	0 HOUR DTW: 10.9	TOTAL DEPTH: 12.0
START DATE: 1/12/13	FINISH DATE: 1/13/12	24 HOUR DTW:	ROCK DEPTH: ---

DEPTH	BLOW COUNT 6in 6in 6in 6in	BLOWS PER FOOT 0 20 40 60 80 100	LAB.	MOIS	LOG	DEPTH	SOIL AND ROCK DESCRIPTION
						0.0	LAND SURFACE
						0.8	(GW) - Well graded, Sandy GRAVEL at surface.
						6.0	(SM) - Brown to lt. brown, Silty, f. to vf. SAND. Moist. Poorly graded.
						8.0	(SP/SM) - Tan, Silty, f. to vf. SAND. Tr. interlayered brown, organic-rich clay (up to 0.1' in thickness). Decreasing silt w/ depth. Moist.
						12.0	(SP) - Tan, f. to vf. SAND. Tr. interlayered clay (as above). Moist. Tr. gravel at 9.0' BLS (may have fallen from surface). Wet at 11.0' BLS.
							Boring Terminated at Depth 12.0 ft in SAND

CATLIN BORING LOG 211077.01 SEASIDE MULCH.GPJ CATLIN.GDT 1/24/12

BORING LOG

CATLIN Engineers and Scientists

211077.01

PROJECT NO.: 211077.01	STATE: NC	COUNTY: New Hanover	LOCATION: Wilmington
PROJECT NAME: Seaside Mulch		LOGGED BY: Tom Stetler	BORING ID: HA02
		DRILLER: N/A	
NORTHING: 3794188.1	EASTING: 237780.7	CREW: N/A	
SYSTEM: UTM NAD83 (m)	BORING LOCATION:		LAND ELEV.: 0.00
DRILL MACHINE:	METHOD: Hand Auger	0 HOUR DTW: NE	TOTAL DEPTH: 8.0
START DATE: 1/12/13	FINISH DATE: 1/13/12	24 HOUR DTW:	ROCK DEPTH: ---

DEPTH	BLOW COUNT 6in 6in 6in 6in	BLOWS PER FOOT 0 20 40 60 80 100	LAB.	MOIS	LOG	DEPTH	SOIL AND ROCK DESCRIPTION
						0.0	LAND SURFACE
						0.8	(SM) - Dk. brown to brown, Silty, f. to vf. SAND. Tr. organic silts. Tr. gravel. Wet at surface.
						3.0	(SM) - Orange-brown to tan, Silty, f. to vf. SAND. Moist. Large wood fragment at 2.0' BLS.
						4.5	(SM) - Dk. brown, Silty, f. to vf. SAND. Tr. organic silts. Moist. Pronounced change in color from above.
						7.0	(SP/SM) - Tan, Silty, f. to vf. SAND. Moist. Decreasing fines w/ depth.
						8.0	(SP) - Tan, f. to vf. SAND. Moist. Poorly graded.
							Boring Terminated at Depth 8.0 ft in SAND

BORING LOG

CATLIN Engineers and Scientists

211077.01

SHEET 1 OF 1

PROJECT NO.: 211077.01	STATE: NC	COUNTY: New Hanover	LOCATION: Wilmington
PROJECT NAME: Seaside Mulch		LOGGED BY: Tom Stetler	BORING ID: HA03
		DRILLER: N/A	
NORTHING: 3794179.3	EASTING: 237776.4	CREW: N/A	
SYSTEM: UTM NAD83 (m)	BORING LOCATION:		LAND ELEV.: 0.00
DRILL MACHINE:	METHOD: Hand Auger	0 HOUR DTW: NE	TOTAL DEPTH: 8.0
START DATE: 1/12/13	FINISH DATE: 1/13/12	24 HOUR DTW:	ROCK DEPTH: ---

DEPTH	BLOW COUNT 6in 6in 6in 6in	BLOWS PER FOOT 0 20 40 60 80 100	LAB.	MOIS	LOG	DEPTH	SOIL AND ROCK DESCRIPTION
						0.0	LAND SURFACE
						0.5	(SM) - Dk. brown, Silty to Clayey, f. to vf. SAND. Tr. wood fragments and gravel. Wet at surface.
						3.0	(SM) - Brown to tan, Silty, f. to vf. SAND. Tr. clay. Moist.
						4.5	(SM) - Dk. brown, Silty, f. to vf. SAND. Tr. organic silts. Moist.
						8.0	(SM) - Tan, Silty, f. to vf. SAND. Moist. Decreasing silts w/ depth. Uniform. Poorly graded.
							Boring Terminated at Depth 8.0 ft in Silty SAND

BORING LOG

CATLIN Engineers and Scientists

211077.01

PROJECT NO.: 211077.01	STATE: NC	COUNTY: New Hanover	LOCATION: Wilmington
PROJECT NAME: Seaside Mulch		LOGGED BY: Tom Stetler	BORING ID: HA04
		DRILLER: N/A	
NORTHING: 3794170.9	EASTING: 237772.0	CREW: N/A	
SYSTEM: UTM NAD83 (m)	BORING LOCATION:		LAND ELEV.: 0.00
DRILL MACHINE:	METHOD: Hand Auger	0 HOUR DTW: NE	TOTAL DEPTH: 8.0
START DATE: 1/12/13	FINISH DATE: 1/13/12	24 HOUR DTW:	ROCK DEPTH: ---

DEPTH	BLOW COUNT 6in 6in 6in 6in	BLOWS PER FOOT 0 20 40 60 80 100	LAB.	MOIS	LOG	DEPTH	SOIL AND ROCK DESCRIPTION
						0.0	LAND SURFACE
						0.7	(SM) - Dk. brown, Silty, f. to vf. SAND. Tr. gravel. Moist. Tr. organic silts.
						3.2	(SM) - Tan, Silty, f. to vf. SAND. Moist. Tr. clay.
						6.0	(SM) - Brown, Silty, f. to vf. SAND. Moist. Darker in color than above.
						7.5	(SM) - Tan, Silty, f. to vf. SAND. Moist.
						8.0	(SP) - Tan, t. to vf. SAND. Poorly graded. Uniform. Moist.

Boring Terminated at Depth 8.0 ft in SAND

BORING LOG

CATLIN Engineers and Scientists

211077.01

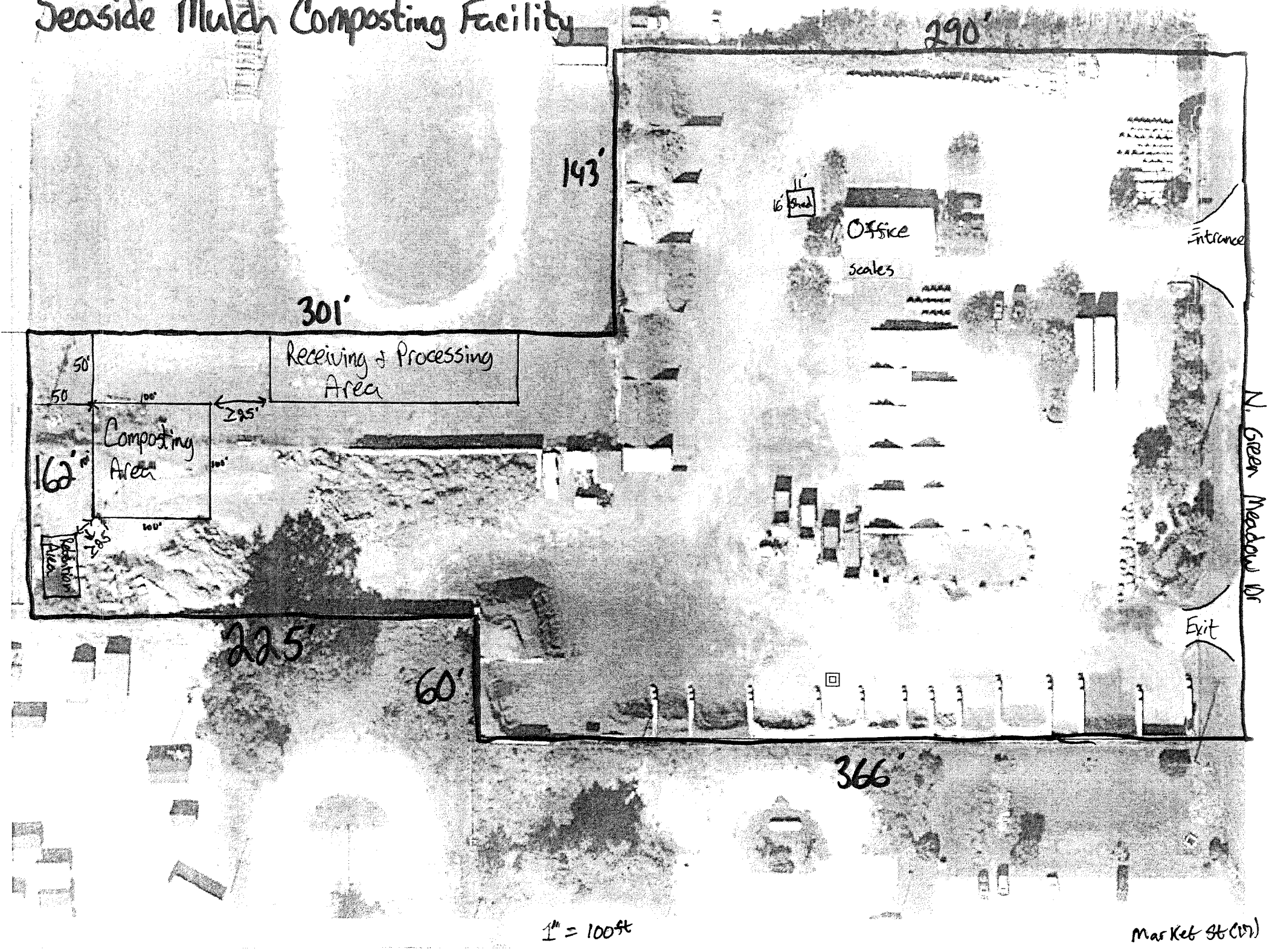
PROJECT NO.: 211077.01	STATE: NC	COUNTY: New Hanover	LOCATION: Wilmington
PROJECT NAME: Seaside Mulch	LOGGED BY: Tom Stetler		BORING ID: HA05
	DRILLER: N/A		
NORTHING: 3794160.2	EASTING: 237766.0	CREW: N/A	
SYSTEM: UTM NAD83 (m)	BORING LOCATION:		LAND ELEV.: 0.00
DRILL MACHINE:	METHOD: Hand Auger	0 HOUR DTW: 11.2	TOTAL DEPTH: 12.0
START DATE: 1/12/13	FINISH DATE: 1/13/12	24 HOUR DTW:	ROCK DEPTH: ---

DEPTH	BLOW COUNT 6in 6in 6in 6in	BLOWS PER FOOT 0 20 40 60 80 100	LAB.	MOIS	LOG	DEPTH	SOIL AND ROCK DESCRIPTION
						0.0	LAND SURFACE
						1.0	(SM) - Dark brown, Silty, f. to vf. SAND. Tr. asphalt fragments and organic silts.
						3.0	(SM) - Brown to tan, Silty, f. SAND. Tr. clay. Moist.
						5.0	(SM) - Dk. brown, Silty, f. to vf. SAND. Moist. Tr. to little organic content by color.
						7.0	(SM) - Brown to tan, Silty, f. to vf. SAND. Moist.
						12.0	(SP) - Tan, f. to vf. SAND. Moist. Uniform (poorly graded). Wet at ~11.0' BLS.
							Boring Terminated at Depth 12.0 ft in SAND

CATLIN BORING LOG 211077.01 SEASIDE MULCH.GPJ CATLIN.GDT 1/24/12

Attachment 4

Seaside Mulch Composting Facility



Attachment 5

US Composting Council

Seal of Testing Assurance

Seaside Mulch Inc.
Hackney Parker
PO Box 380
Wrightsville Beach,NC 28480
910-791-2100

Product Name: **NuLeaf®**

Sample Date: 11/8/2011

COMPOST TECHNICAL DATA SHEET

LABORATORY: Midwest Laboratories, Inc. 13611 B St. Omaha,NE 68144 (402)334-7770 ph (402)334-9121 fax

Compost Parameters	*Reported as (units of measure)*	*Test Results*	*Test Results*
Plant Nutrients:	%, weight basis	%, wet weight basis	%, dry weight basis
Nitrogen	Total N	0.3	0.56
Phosphorus	P_2O_5	<0.1	<0.1
Potassium	K_2O	0.16	0.3
Calcium	Ca	1.15	2.14
Magnesium	Mg	0.06	0.11
Moisture Content	%, wet weight basis	46.21	
Organic Matter Content	%, dry weight basis		36.9
pH	pH units	7.6	
Soluble Salts *(electrical conductivity EC_5)*	mS/cm		0.5
Particle Size	% < 9.5 mm (⅜ in.), dw basis		100
Stability Indicator *(respirometry)*	mg CO2-C/g OM/day	0.17	
Maturity Indicator (bioassay)			
Percent Emergence	average % of control	100	
Relative Seedling Vigor	average % of control	100	
Select Pathogens	PASS/FAIL: per US EPA Class A standard, 40 CFR § 503.32(a)	PASS	
Trace Metals	PASS/FAIL: per US EPA Class A standard, 40 CFR § 503.13, Tables 1 and 3.	PASS	

Participants in the US Composting Council's Seal of Testing Assurance Program have shown the commitment to test their compost products on a prescribed basis and provide this data, along with compost end use instructions, as a means to better serve the needs of their compost customers.

Directions for Product Use:

New Lawn/Sod Installation
-Apply NuLeaf® evenly at 1"-2" depth
-Till into 4"-6" of soil
-Smooth surface, then seed, plug, or sod
Flower & Vegetable Gardens
-Apply NuLeaf® evenly at 2"-4" depth
-Till into 6"-12" of soil
Broadcast Application
-Apply 400lbs of NuLeaf® per 1000 square feet
-Water covered area after application
Decorative Mulch
-Apply NuLeaf® evenly at a minimum of 3" depth
-Reduce fertilizer application if applicable
-Avoid placing compost on the trunks and stems of plants
-Water thoroughly before and after mulching
General Soil Amendment
-Use a 20/80 NuLeaf®/soil blend for normal soils
-Use up to a 50/50 blend for sandy or clay soils
Backfill/ Planting Mix
-Blend NuLeaf® with soil at a 1:3 ratio
-Backfill and firm the blend around root ball
-Water thoroughly during and after planting
Erosion Control (vegetated surface)
-Apply NuLeaf® evenly at 0.5"-1" depth
-The application rate may change in extremely dry or heavily saturated areas
-Consult your project engineer in regards to compost application method (ex. Pneumatic blower, by hand, etc...)
Erosion Control (un-vegetated surface)
-Apply NuLeaf® evenly at 1.5"-2" depth
-The application rate may change in extremely dry or heavily saturated areas
-Consult your project engineer in regards to compost application method (ex. Pneumatic blower, by hand, etc...)
Filter Berm
-Apply NuLeaf® at a minimum dimension of 1' X 2'
-The dimensions of the berm may increase in areas of expected heavy precipitation
-Consult your project engineer in regards to compost application method (ex. Pneumatic blower, by hand, etc...)
****For an accurate estimate of how much NuLeaf® will be needed for your project, contact Seaside Mulch at 910-791-2100 or 1-800-641-0881, and one of our Sales Representatives will assist.****

NOTE: The USCC does not assess whether or not, or to what extent, these directions are sound, sufficient or otherwise appropriate. It is the participant's responsibility alone to ensure that they are.

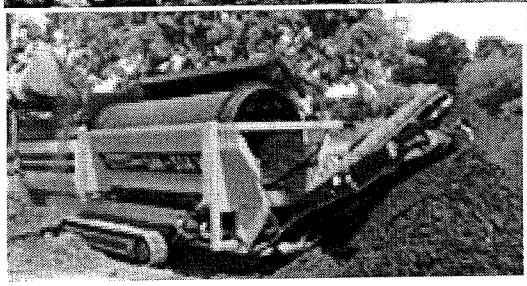
Compost Ingredients:

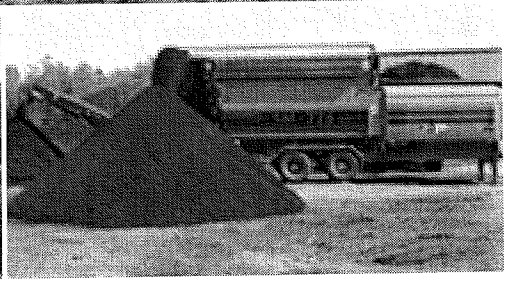
*NuLeaf is composted clean green waste. This includes grass clippings, leaves, tree, & shrub debris. NuLeaf **does not** contain any pallets, treated lumber,construction waste, root mat, or dirt.*

This compost product has been sampled and tested as required by the Seal of Testing Assurance Program of the United States Composting Council (USCC), using certain methods from the "Test Methods for the Examination of Compost and Composting" manual. Test results are available upon request by calling Seaside Mulch at 910-791-2100. The USCC makes no warranties regarding this product or its contents, quality, or suitability for any particular use.

For additional information pertaining to compost use, the specific compost parameters tested for within the Seal of Testing Assurance Program, or the program in general, log on to the US Composting Council's TMECC web-site at http://www.tmecc.org/sta/

Attachment 6





SM Series Trommels

Doppstadt US

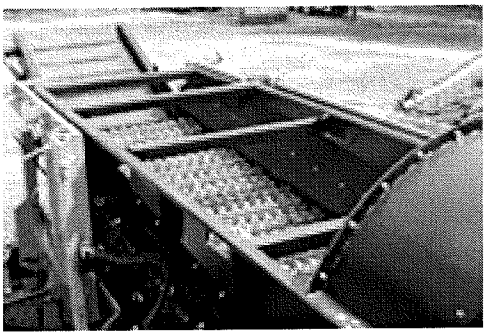
SHRED. SCREEN. GRIND.

SM 1200 Triflex

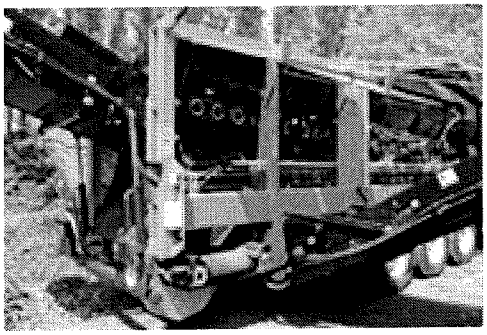
In a single pass, create three fractions of organic source material, even with very high moisture content, with our SM 1200 Triflex two-deck star screen.

The high-volume, precise separation capability of the Triflex offers unprecedented screening performance for operations that have highly demanding screening needs. With its large 140 sq. ft. screening surface, the Triflex achieves extremely high rates of output, while delivering very consistent sizing.

Triflex functionality is based on the parallel rotation of the stars on each deck to loosen and transport material across the screen. Doppstadt's exclusive alternating shaft speeds provide an additional degree of agitation, which further tears and separates the material, even with high-moisture-content material.

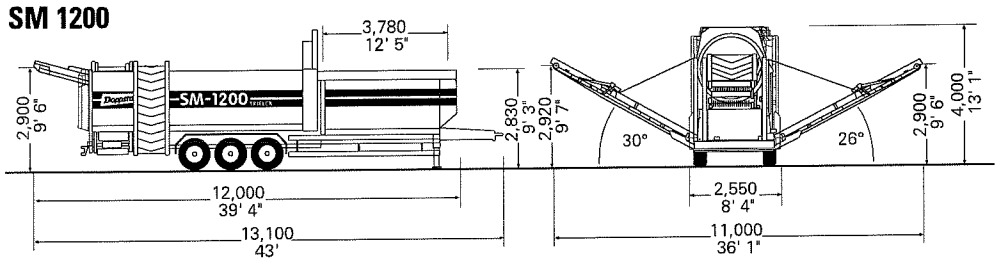


▲ Doppstadt's innovative star decks rips material for maximum agitation, while keeping the shaft clean of debris.



▲ The two-deck star screen mechanism of the SM 1200 delivers precise separation at extremely high rates of output.

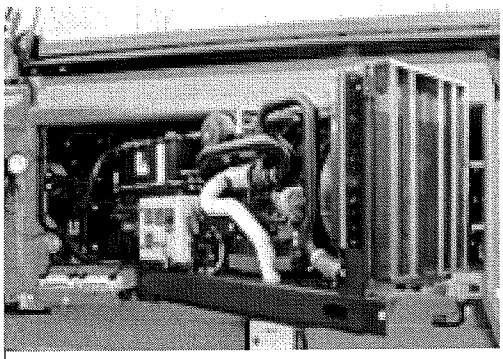
SM 1200

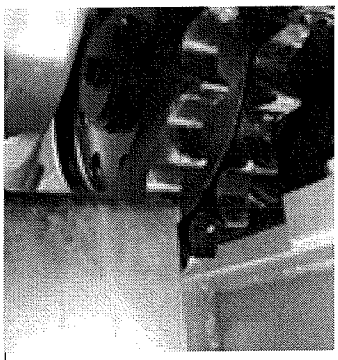


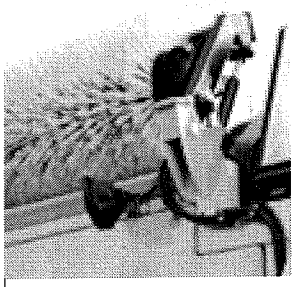
Transport dimensions L/W/H: 12,000 / 2,550 / 4,000 (39' 4" / 8' 4" / 13' 1")

Model Weight	48,502 lb.
Engine	MB OM 904 LA
HP	100
Exhaust Level	TIER 3
Fuel tank	80 gal.
Speed	n/a
Conveyor Width	rear: 48" side: 1: 40" side: 2: 32"

Also available on tracked chassis







SLIP-ON COUPLING

The slip-on coupling allows the transport of the machine by means of a wheel loader grab (only machines with drawbar).

SWING-OUT DRIVE UNIT

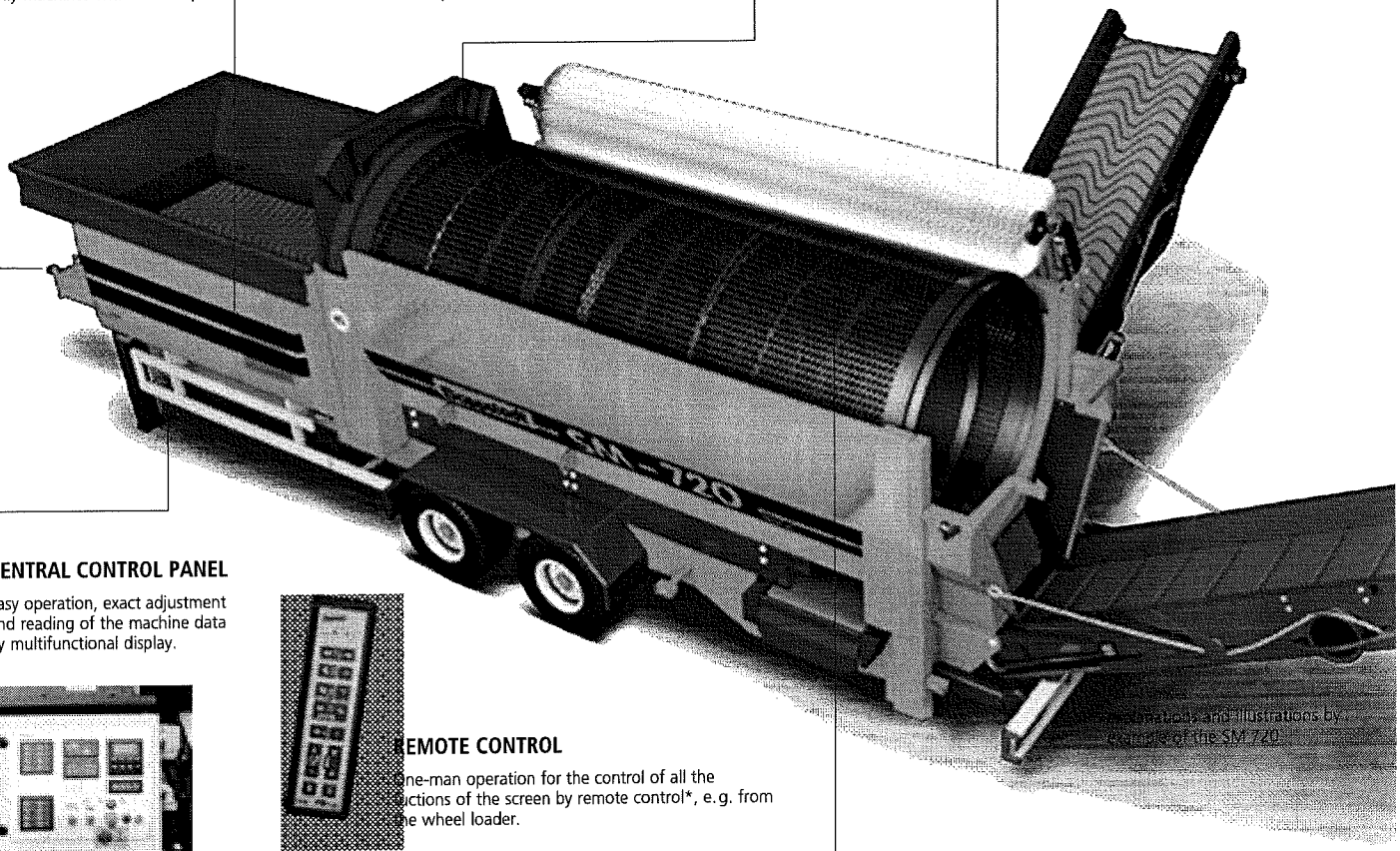
Optimum access to the diesel engine and to the central lubrication points for easy maintenance and repair. The water and oil cooler is provided with an additional dust protection basket.

DRUM DRIVE

The drum with direct drive ensures operational safety and an easy replacement.

CLEANING BRUSH

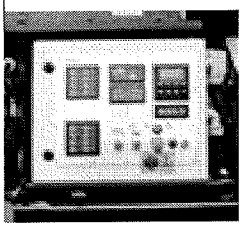
Self-cleaning of the drum by rotating, hydraulically controlled brush.



Illustrations by example of the SM 720

CENTRAL CONTROL PANEL

Easy operation, exact adjustment and reading of the machine data by multifunctional display.

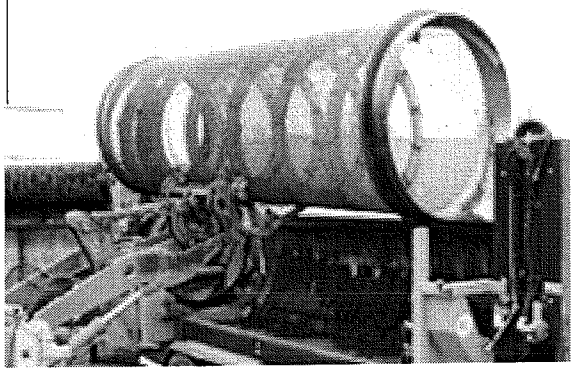


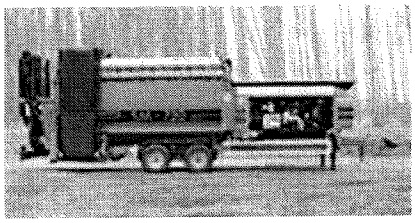
REMOTE CONTROL

One-man operation for the control of all the functions of the screen by remote control*, e.g. from the wheel loader.

SCREENING DRUM

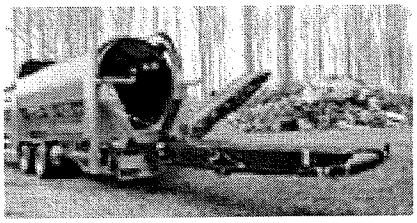
The patented, load-sensing material feed enables an optimum utilization of the large screening surface. The drum can be easily changed in 15 minutes or less.





MAINTENANCE

Large doors for optimum maintenance.



REAR AND SIDE CONVEYOR

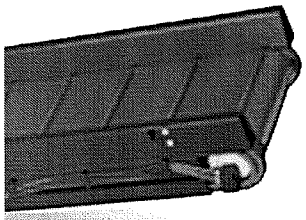
The coarse fraction is discharged by the rear conveyor, the fines are discharged by the side conveyor. Fe-separation is possible by means of a magnetic pulley* or an overband magnet*.

A Broad Range of Effective Applications

SM Series Trommels Perform. Period.

Doppstadt trommels offer a combination of efficiency and performance that delivers unprecedented screening and separation results across numerous applications. Because of their unique design and innovative engineering, SM trommels can even excel in screening materials not traditionally associated with trommels, such as scrap and aggregate.

Boosting Your Bottom Line



With their exceptional fuel efficiency, the durability of their engineering, the quick-change sizing drum, the low rate of wear-part replacement and the ease of maintenance, SM trommels have a significantly lower overall cost of operation and ownership. The bottom line is a boost to your bottom line: Doppstadt trommels will make you more money.

topsoil: remove oversized lumps and rocks; high throughput for maximum productivity

mulch: screening fines between reduction passes saves fuel and decreases grinder wear

aggregate: durable punch-plate drum can screen product sizes from 3/8" – 3"

MSW: remove fines and dirt from MSW to create ADC, and increase life of landfill space

C&D debris: remove fines and dirt prior to separation to increase material value

land clearing: screening between reduction passes reduces fuel and wear costs, creates additional products

biofuel: fine-tune controls result in more precise and consistent product size

shingles: remove fines for more effective manual picking; reduces wear and fuel in final grind

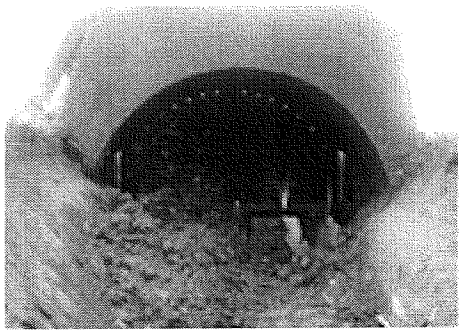
scrap: slag and scrap metal significantly increase in value when size separated

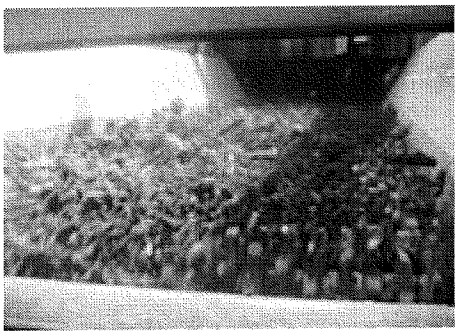
Star Screen Insert

Effortlessly process organic material in extremely wet conditions by quickly converting your SM trommel into a star screen deck.

To maintain high throughput with extremely wet or sticky material, the Doppstadt SM 720 and 720K trommels can quickly convert into a star screen with the drum insert option. Simply remove the existing drum, replace with the star screen insert, and resume operation.

The star screen insert allows you to extend the flexibility of your existing SM 720 trommel throughout any season and in any condition. Wet, clumpy organic material with moisture content as high as 60% or more can continue to be processed, with throughput results as much as 50% higher than screening through a drum.





▲ OPTIONAL INFEED AUGER

The standard infeed auger on the star screen insert tears and separates wet, clumpy material before passing onto the star deck; for even stickier material, the infeed auger can be equipped with optional cutting knives.

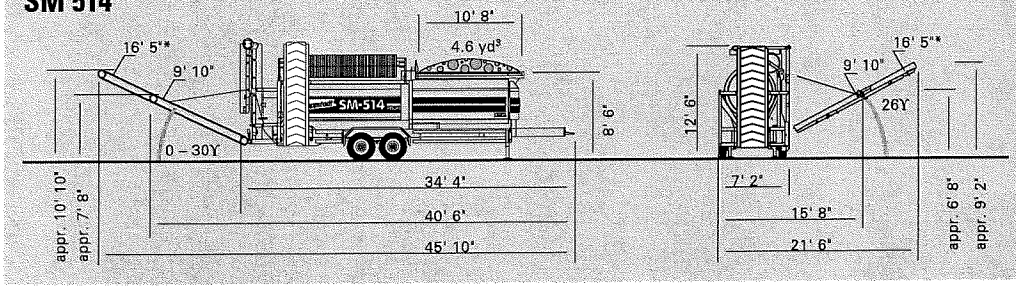
▲ ALTERNATING SHAFT SPEEDS

Alternating sprocket sizes result in varying shaft speeds on the deck, creating an extremely effective action for stratifying the feed material to generate a cleaner oversize product and increased production rates.

▲ LONGER WEAR LIFE

The softer urethane star design results in an extended overall wear life on the deck; utilizing an elliptical star shape on the shaft, rather than a conventionally round design, aids dramatically in keeping the shaft clean.

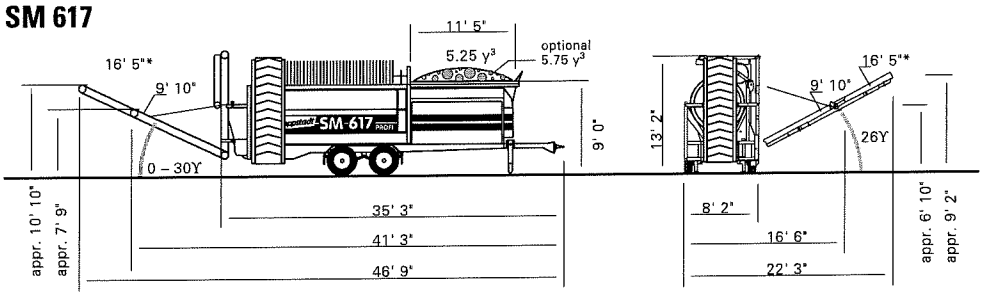
SM 514



Model Weight	23,150 lb.
Engine	CAT C 2.2
HP	50
Exhaust Level	TIER 3
Fuel tank	25 gal.
Speed	0–23 rpm
Conveyor Width	rear: 32" side: 24"

Also available on tracked chassis

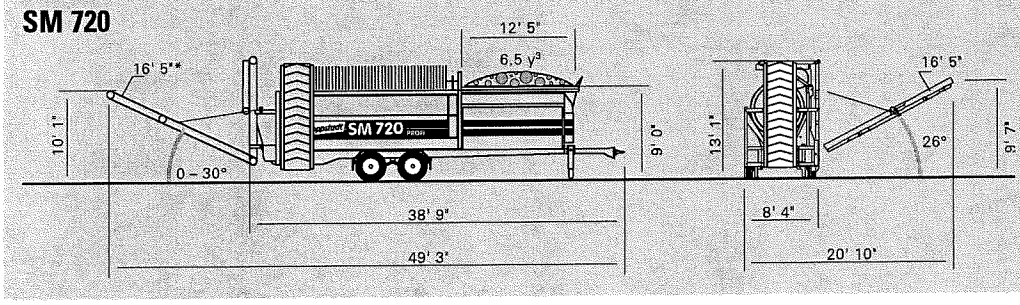
SM 617



Model Weight	29,760 lb.
Engine	CAT 3044C
HP	63
Exhaust Level	TIER 3
Fuel tank	80 gal.
Speed	0–22 rpm
Conveyor Width	rear: 32" side: 32"

Also available on tracked chassis

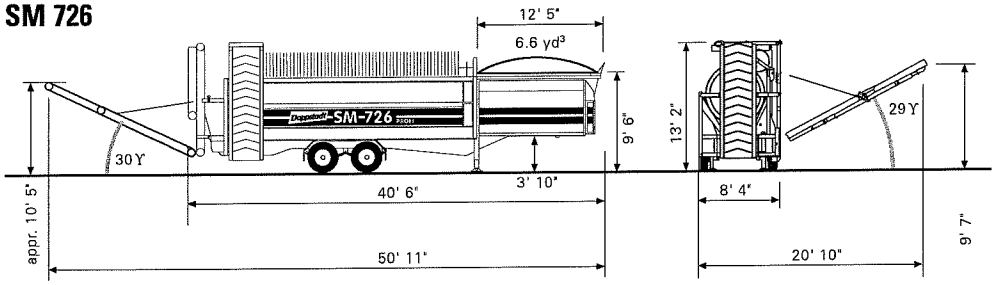
SM 720



Model Weight	37,480 lb.
Engine	MB OM 904 LA
HP	100
Exhaust Level	TIER 3
Fuel tank	80 gal.
Speed	0–22 rpm
Conveyor Width	rear: 40" side: 40"

Also available on tracked chassis

SM 726



Model Weight	52,910 lb.
Engine	MB OM 904 LA
HP	100
Exhaust Level	TIER 3
Fuel tank	80 gal.
Speed	0–19 rpm
Conveyor Width	rear: 40" side: 40"

Also available on tracked chassis

SHRED. SCREEN. GRIND.

DoppstadtUS
1057 Jaycox Rd.
Avon, OH 44011

440.937.3225 phone
440.937.3411 fax

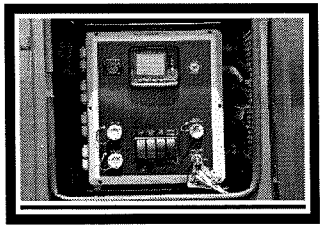
sales@doppstadtus.com
www.doppstadtus.com

February 2011, specifications subject to technical alterations.
The specifications are approximate, illustrations and descriptions might include options that are not part of the standard equipment.

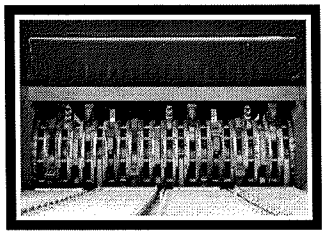
MORBARK 2600 WOOD HOG

BENEFITS

- Compact, easy-to-tow grinder from the leading manufacturer of industrial grade grinding equipment.
- Process brush, yard waste, and other mixed woody feedstocks into saleable products.
- Backed by a world class parts & service support team.
- Long lasting, durable machine that holds its value.
- Proven drive line protection system that protects against catastrophic damage from contaminants.
- Built in a quality-driven factory by highly experienced personnel.



Morbark Integrated Control Systems
Automatically adjusts feed rates, monitor pressures and feed wheel position to maximize production and engine efficiency.



HAMMERMILL
Laser-cut upturn rotor, factory balanced with forged hammers offer unsurpassed durability and smooth operation.

FEED SYSTEM
Internal planetary drive with no chains and sprockets means lower maintenance, more torque and better durability.

OPTIONS
Dual axles and extended discharge conveyor for loading open top trailers are available as an option.

SPECIFICATIONS

Note: Specifications may vary with equipment options

02252010

GENERAL

Length (transport)	33'8"
Length (operating)	33'8"
Height	11'6"
Width	7' 10"
Gross weight	27,880 lbs.
Axle weight	23,720 lbs.
Tongue weight	4,160 lbs.
Engine	CAT, Cummins or John Deere
Horsepower	174 HP to 260 HP
Fuel capacity (tank)	90 gallons
Hydraulic oil capacity	90 gallons

Morbark Integrated Control Systems
Dust Suppression system

INFEED SYSTEM

20" x 57" infeed opening
57"x9'7" live floor with 4-strand WDH 110 chain
One 22" diameter top compression feed roll with internal drive

HAMMERMILL AND GRATES

Hammermill system constructed of heavy duty 15-1/2" Equipped with twenty-two 1¼" thick forged steel heavy duty hammers with 1" spacers and twenty-two 2-1/16" wide double-edged replaceable hammerhead inserts and twenty-two rakers
Two sections of ¾" thick wear form steel heavy duty grates

DISCHARGE SYSTEM

One hydraulically driven continuous belt conveyor
Stacking height with standard conveyor 11'4"
Stacking height with optional long conveyor 15' 8 1/2"

OPTIONS

Magnetized end pulley with collecting slide tray for ferrous metal removal
Variety of grates sizes available
Long Conveyor
Air compressor
Break-away torque limiter

MORBARK, INC. WINN, MICHIGAN
800-831-0042 989-866-2381
www.morbark.com

Specifications:

MANUFACTURER	**John Deere**
MODEL	**2154D (Live Heel)**
DATE OF SPECIFICATION	
ENGINE	
Emission Rating	Tier 3
Engine Make / Engine Model	John Deere / 6068 H
Net Power, kW (hp) @ Rated rpm	122 (164) @ 2000
Gross Power, kW (hp)	not published
Displacement, L (cu in)	6.8 (414)
Net Peak Torque, N-m (lb-ft)	not published
HYDRAULIC SYSTEM	
Pump Type	Axial Piston
Total Pump Flow, L/m (gpm)	236 (62.3)
Normal Relief Pressure, kPa (psi)	34336 (4980)
Boost Relief Pressure, kPa (psi)	36266 (5270)
Max. propel pressure, kPa (psi)	34336 (4980)
UNDERCARRIAGE	
Gauge, mm (ft in)	2790 (9 ' 2 ")
Overall Track Length, mm (ft in)	4450 (14 ' 7 ")
Sprocket to Idler Centerline, mm (ft in)	3660 (12 ')
Width over Std Track, mm (ft in)	3490 (11 ' 6 ")
No of Lower Rollers/Side	
No of Carrier Rollers/Side	
Ground Clearance, mm (ft in)	710 (2 ' 4 ")
Standard Track Pad, mm (in)	700 (28)
Grd. Press - Std. Pad, kPa (psi)	54 (7.77)
Optional Track Pads, mm (in)	not published
Max. Travel Speed, kph (mph)	5.1 (3.2)
Max. Drawbar Pull, kN (lb)	not published
ARM LENGTH	
Standard Arm, mm (in)	not published
PERFORMANCE	
Reach @ GL - Std. Arm, m (ft in)	10.98 (36 ')
Max. Dig Depth - Std. Arm, mm (ft in)	not published
Dig depth - 8ft flat bottom - Std Arm, mm (ft in)	not published
Dig Depth - vertical wall - Std Arm, mm (ft in)	not published
Max. Dump Height - w/Std. Arm, mm (ft in)	not published
Lift Cap. Over Front @ GL, kg (lb)	3230 (7120)
Lift Cap. 360 deg @ GL, kg (lb)	2477 (5460)
Tail Swing Radius, mm (ft in)	3100 (10 ' 2 ")
Swing Torque, kNm (lbf)	74.6 (54587)
TRANSPORT SPECIFICATIONS	
Transport Length, mm (ft in)	13520 (44 ' 4 ")
Transport Height, mm (ft in)	3340 (10 ' 11 ")

Transport Width, mm (ft in)	3500 (11 ' 6 ")
CAPACITIES	
Fuel Tank, L (gal)	1049 (277)
Hydraulic Reservoir, L (gal)	136 (36)
WEIGHT	
SAE Operating Weight, kg (lb)	30250 (66690)
Metric Ton Weight, kg (lb)	30.25 (66.69)
Specifications are based on published information at the time of publication. Specifications are subject to change without notice.	

Manufacturer	**John Deere**
Model	**644K High-Lift**
DATE OF SPECIFICATION - null	
ENGINE	
Engine Make / Engine Model	John Deere / PowerTech PVX 6090
Emission Rating	Interim Tier 4 / EU Stage IIIB
Net Power, kW (hp) @ Rated rpm	173 (232) @ 1700
Gross Power, kW (hp)	not published
Displacement, L (cu in)	9 (548)
Net Peak Torque, N-m (lb-ft)	1062 (783)
Calculated % Torque Rise	65
ELECTRICAL	
Volts	24
Alternator amps	80
TRANSMISSION	
Type	Powershift 4WD
Speed 1 - fwd, kph (mph)	7.6 (4.7)
Speed 2 - fwd, kph (mph)	12.6 (7.8)
Speed 3 - fwd, kph (mph)	24.7 (15.3)
Speed 4 - fwd, kph (mph)	36.6 (22.7)
Speed 1 - rev, kph (mph)	7.9 (4.9)
Speed 2 - rev, kph (mph)	12.9 (8)
Speed 3 - rev, kph (mph)	24.9 (15.5)
Speed 4 - rev, kph (mph)	not published
DIFFERENTIAL	
Traction Device - Front / Rear	F 100% / R Conventional
FINAL DRIVE	
Front Axle Type	Inboard planetary
Rear Axle Type	Inboard planetary
SERVICE BRAKES	
Service Brakes Type	Wet single Disc
Service brake location	Inboard
Service brake actuation	Hydraulic
HYDRAULIC SYSTEM	
Pump Type	Variable axial piston
Pump Flow, L/min (gpm)	310 (82)
System Pressure, kPa (psi)	25200 (3650)
LOADER AND BUCKET	
Bucket Capacity Min., cu m (cu yd)	3.1 (4)
Bucket Capacity Max., cu m (cu yd)	3.2 (4.25)
Breakout Force, Std Bucket, kN (lb)	135.16 (30384)
Ride Control	Optional
SPECIFICATIONS BASED ON	
Std Bucket Size, cu m (cu yd)	3.2 (4.25)
Tire Size Standard	23.5 R 25 1 Star

Counterweight, kg (lb)	not published
TIPPING LOAD	
Straight, kg (lb)	12237 (26978)
Full Turn, kg (lb)	10508 (23165)
DIMENSIONS	
Height of Hinge Pin, mm (ft in)	4540 (14 ' 11 ")
Dump Clear @ 45 deg, mm (ft in)	3330 (10 ' 11 ")
Reach @ 7', mm (ft in)	2060 (6 ' 9 ")
Reach @ Full Height, mm (ft in)	1190 (3 ' 10.9 ")
Wheelbase, mm (ft in)	3260 (10 ' 8 ")
Clearance Circle, mm (ft in)	13720 (45 ')
Overall Length, mm (ft in)	8570 (28 ' 1 ")
Height to Top of Cab, mm (ft in)	3430 (11 ' 3 ")
Ground Clearance, mm (in)	461 (18.1)
CAPACITIES	
Fuel Tank, L (gal)	397 (105)
Hydraulic Reservoir, L (gal)	110 (29)
WEIGHT	
SAE Operating Weight, kg (lb)	18700 (41215)
Metric Ton Weight, kg (lb)	18.7 (41.215)

Specifications are based on published information at the time of publication.Specifications are subject to change without notice.

Prices are subject to change without notice. Prices are in dollars and only applicable to products sold in the United States.In all cases, current published price lists and incentive program bulletins will take precedence.All trademarked terms, including John Deere, the leaping deer symbol and the colors green and yellow used herein are the property of Deere & Company,unless otherwise noted.

Attachment 7

Seaside Mulch®

Seaside Mulch, Inc.

Large Type I Composting Facility

Operation Plan

Table of Contents

Section 1

Facility Description & Purpose

Section 2

Facility operation

Section 3

Raw Material Receipt

Section 4

Raw Material Processing

Section 5

Material Distribution

Section 6

Facility Reporting Requirements

Section 7

Contingency Planning

Section 1: Facility Description & Purpose

Seaside Mulch, Inc operates a Large Type 1 Composting Facility (Facility) as described in 15ANCAC 13B, Solid Waste Compost Rules (Rules). Seaside Mulch operates the Facility as a means to recycle yard waste by creating compost, mulch, and/or boiler fuel and by offering a means of yard waste disposal for the citizens, businesses, and municipalities in southeastern North Carolina.

The facility is authorized to operate under Permit Number_____Dated_____, issued by the Division of Solid Waste Management, Department of Environment and Natural Resources. For the Large, Type 1 Compost Facility to remain valid, certain operational requirements must be met. This manual provides the guidance & information needed to operate the Facility in accordance with the permit conditions the Rules.

Section 2: Facility Operation

Hours of Operation

Monday- Friday 7:30am-5:00pm & Saturday 8:00am-4:00pm

Facility Staffing

Hackney Parker, Owner & President of Seaside Mulch, Inc. is responsible for the overall operation of the Facility. Michael Jackway & Lee Craft shall be responsible for the daily operation of the Facility. All questions, comments, and/or concerns should be directed through either of the above. At any time there will be a minimum of 2 staff members present at all times (1 office staff & 1 equipment operator). No staff member shall operate any equipment or perform any tasks until he or she has completed the proper training.

Facility Access

The Facility can be accessed by 2 entrances off of North Green Meadows Dr. in Wilmington, NC. During hours of operation both gates are open and access is allowed. Upon facility closing both gates are locked to prevent after hour access.

Facility Equipment

All Facility equipment shall be maintained and operated in accordance with the manufacturer's specifications. All safety features shall be inspected on a weekly basis and any deficiencies corrected immediately. For information regarding equipment used at the Facility see attached equipment specifications

Section 3: Raw Material Receipt:

Materials Received & the Sources

The Facility shall receive yard waste from landscapers, residents, and municipalities throughout southeastern North Carolina. All approved materials shall be received in the Raw Material Storage area shown on the Facility Site Plan. The Facility shall only accept yard waste. This material consists of: grass clippings, leaves, limbs, and tree & shrub debris. The Facility will not accept the following materials: pallets, treated lumber, sod, dirt, root mat, construction debris, concrete, cardboard, paper, metal, plastic, medical waste, nor hazardous materials. Any unacceptable material will not be unloaded and the offending party will be required to transport the material away from the Facility to be disposed of properly. Any Seaside Mulch staff member has the authority to deem material as unacceptable. All material shall be inspected by a minimum of 2 Seaside Mulch staff members. The initial inspection is performed by an office staff member while weighing the customer in. During this time the office staff visually inspects the material and informs the customer of any material that is unacceptable. The second inspection is performed by the Seaside Mulch equipment operator. The inspection occurs while the customer is unloading. If the operator notices unacceptable material, the operator will require the customer to separate any unacceptable material from the acceptable. The customer will then be required to remove the unacceptable material from the Facility. ***See Appendix A***

Tracking the Receipt of Materials

For all accepted material, a weight ticket is generated that identifies the customer unloading the material, the date in which it was accepted, and the weight in tons of the material. All tickets are available for inspection at any time.

Section 4: Raw Material Processing

Grinding

We do a primary grind on the stockpiled feedstock. The feedstock is processed into a 6" minus particle size, and ran over a magnet.

Stockpiling

All processed material shall be relocated to either the composting area displayed on the Facility Site Plan or transported to either of our manufacturing facilities (Castle Hayne, NC or Aynor, SC) for further processing. The processed material transferred offsite will be used for mulch or boiler fuel.

Composting

- Windrows: All processed material designated for composting shall be placed in windrows in the area shown on the Facility Site Plan. The Windrows shall be a 15-20 feet wide and 12-15 feet high. The Windrows will be constructed to allow 25 feet of clearance for access by Seaside Mulch and emergency response equipment
- Temperature Monitoring: The temperatures of the windrows will be checked and recorded daily on the Compost tracking Log. Temperature samples will be taking at 30-40 foot intervals to determine the overall windrow temperature. All temperature reading must be equal to or exceed 131 degrees Fahrenheit for 15 consecutive days.
- Windrow Turning: Windrows will be turned a minimum a 5 times during the 15 days during active composting. The dates the material is turned will be recorded in the Compost Tracking Log. The windrows will be turned by utilizing a front end loader.

Section 5: Material Distribution

Who May Receive Products

All mulch, compost, & soil products produced by Seaside Mulch, Inc. are available for purchase by any individual, business, or municipality.

How is the Product Sold

The products are sold by the cubic yard, and are available for pick up or delivery.

Fees for the Products

The fees associated with the products are determined by quantity ordered (ex. Wholesale delivery) and type of customer (ex. Registered Contractor Customer). The delivery charges are determined by the location of the delivery.

Product Loading

Products shall be loaded only by trained Seaside Mulch equipment operators. The products shall be loaded in customer vehicles, trailers, or official Seaside Mulch, Inc. delivery vehicles.

Delivery Vehicles

Seaside Mulch, Inc. manages a fleet of walking floor trailer that are used for bulk wholesale deliveries of product and also to transfer material for processing. Seaside Mulch, Inc. also operates 2 Triple Axel Dump Trucks, 1 Single-Axle Dump truck, & 1 Flat Bed Truck.

Product Distribution Documentation

All purchases from our retail and contractor customers are maintained in a database. This database provides information including the name of the customer (only if it is a contractor customer), the type of product purchased, the amount purchased, and the date received. Wholesale order information is available through the QuickBooks Accounting software. Records of product purchases are available upon request.

Section 6: Facility Reporting Requirements

Daily Reporting Requirements

- Raw Materials Receipt Log (See Section 3)
- Compost Tracking Log (See Section 4)

Quarterly Reporting Requirements

- US Composting Council STA Program Compost Testing

Annual Reporting Requirements

An annual reconciliation of Facility operations shall be provided to the Permitting Authority by August 1 of each Year summarizing operation between July 1 of the previous year and June 30 of the current year. The report shall include the following:

- Facility Name
- Permit Number
- Total Quantity of Raw Waste Received (Tons)
- Total Quantity of Type 1 Compost Produced (Cubic Yards)
- Total Quantity of Type 1 Compost Distributed (Cubic Yards)
- Representative Samples of Type 1 Composting Records

Section 7: Contingency Planning

Adverse Weather Procedures

Procedures will take place during the following adverse conditions:

- Wind: If heavy winds are present the material handling shall be at a minimum to reduce the probability that material will blow off site.
- Precipitation: The site is graded to facilitate drainage that can occur from heavy precipitation. The site is graded and windrows are constructed to allow drainage between the windrows to reduce the amount of standing water around the windrows. In periods of heavy precipitation in which equipment cannot move freely throughout the site, material shall not be accepted nor processed. During heavy precipitation, temporary berms may be constructed to aide in storm water diversion.

Fire

If a fire were to develop at the Facility the following actions will be taken:

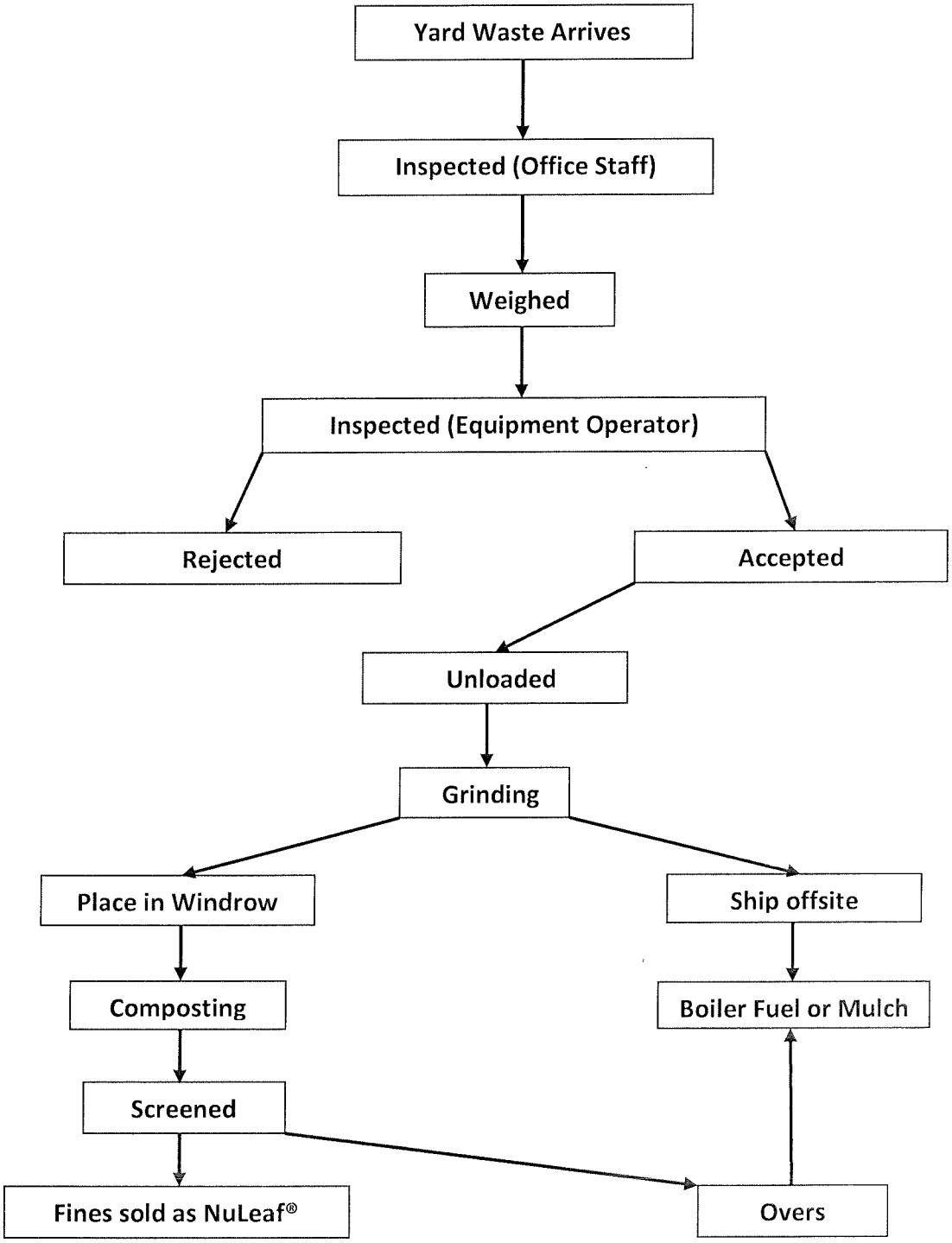
- The City of Wilmington Fire Department shall be notified immediately.
- Personnel, equipment, and customers shall be escorted from potentially dangerous areas.
- Fire fighting action shall be conducted by trained personnel only to the extent and limitations of the fire-fighting equipment available to them.

In order for proper fire fighting and prevention methods to occur at the site the following items shall be maintained as a minimum at the Facility.

- A fire extinguisher in the Facility office and on Facility equipment
- A source of running water
- An active telephone with posted emergency numbers

All Facility personnel shall be trained in the proper operations of all firefighting equipment and the methods to be taken in the event of a fire.

Appendix A


Yard Waste Arrives
Inspected (Office Staff)
Weighed
Inspected (Equipment Operator)
Rejected
Accepted
Unloaded
Grinding
Place in Windrow
Ship offsite
Composting
Boiler Fuel or Mulch
Screened
Fines sold as NuLeaf®
Overs