

Soundside C&D Waste Transfer & Recycling Center

Permit No. 27-05T-Transfer-2011

7565 Caratoke Hwy.
Jarvisburg, NC 27947

Operation Plan for Sorting Tear-off Asphalt Shingles for Recycling

Soundside Recycling & Materials, Inc
7565 Caratoke Hwy
Jarvisburg, NC 27947

Prepared By:

Kimberly J Newbern, President
Soundside Recycling & Materials, Inc.
7565 Caratoke Hwy
Jarvisburg, NC 27947

04/02/2014

I. Introduction

This operation plan describes how tear-off asphalt shingles will be collected, sorted, stored, and managed at this facility in order to provide a material that can be used into asphalt production. Our facility uses best practices for acceptance and sorting to remove the tear-off shingles from the waste stream and divert the “clean” shingles to other facilities.

II. Waste Acceptance

Asphalt roofing shingles contain asphalt cement, mineral aggregate, and mineral filler which are raw materials used in asphalt production. Asbestos was used in shingle manufacture until the mid-1970's and in other roofing materials such as roof felt, roof putty, surface coating, and mastic until the mid 1980s.

Our facility provides roofers with a list of acceptable and unacceptable items for tear-off shingle recycling and requires source separation at the job site by the roofer. Materials from flat and built-up roofing system are disposed rather accepted for recycling due the higher use of asbestos roofing materials in those systems. Roofers are instructed to separate tear-off shingles into either a dedicated trailer or to layer their waste when loading so that the shingles can be easily separated from the unacceptable debris. Our list of acceptable and unacceptable material is shown in Attachment 1.

The shingle suppliers are also required to complete a supplier certification form. The handling and disposal of asbestos during demolition and renovation is regulated under the National Emissions Standards for Hazardous Air Pollution (NESHAP). NESHAP-regulated facilities are required to submit a notification of demolition and renovation prior to starting work. The notification includes an inspection by a North Carolina accredited asbestos inspector or roofing supervisor and analysis for asbestos. The supplier of shingles from a NESHAP-regulated facility must present documentation that the shingles do not contain greater than 1% asbestos. The documentation is a letter from the accredited asbestos inspector or roofing supervisor that sampled the shingles and the analytical test results. A copy is of the documentation is kept with the supplier certification form. Shingles from a NESHAP-regulated facility that do not have the required documentation or that are documented to contain greater than 1% asbestos are disposed.

Shingles from single family homes or residential buildings containing four or fewer dwelling units are generally not regulated under NESHAP. Only the source of shingles it required for these shingles.

Our supplier certification form is shown in Attachment 2. These practices help ensure that only recyclable tear-off shingles are sent for asphalt production while reducing sorting at our facility.

III. Flow and Management of Tear-off Shingles

Loads are visually inspected when entering the facility to determine whether the shingles have been separated or if it is a mixed load. The roofer is asked to complete a supplier certification form. Mixed loads, shingles from a NESHAP-regulated facility that contain greater than 1 percent asbestos, and shingles from a NESHAP-regulated facility without the proper documentation are directed to the

East Carolina Landfill for disposal. Loads that were source-separated into dedicated containers are sent directly to the sorting area and unloaded. Loads that were separated into layers usually have the asphalt shingle on the bottom and other material on the top. These loads are first directed to the *Transfer Pad* to remove the non-shingle roofing waste and then to the sorting area for unloading the shingles. Attachment 3 Figure 1 shows the location of the sorting area on the site plan and Figure 2 shows the unloading, sorting, and storage areas. Shingles are not unloaded into an area with standing water and sorted and unsorted materials are kept separate.

Source-separation by the roofer eliminates most of the unacceptable materials that cannot be used in tear-off shingle recycling. The unloaded tear-off shingles are examined for unacceptable materials and any unacceptable materials are removed. The remaining sorted shingles are accumulated in 2 40 yard roll off boxes until there is a sufficient amount to transport to a facility that will grind and use or sell the ground shingles for asphalt production. A copy of the supplier certification form accompanies each sorted load to the receiving facility. At least 75% of the tear-off shingles that are sorted leave the facility during the same year.

IV. Recording Keeping

Records are kept of shingle waste entering the facility, sorted shingles leaving the facility for recycling, and waste that is disposed or sent for disposal. These records are kept for use in the facility's monthly and annual reports. Supplier certification forms and any supporting documents are also kept.

Attachment 1

List of Acceptable and Unacceptable Materials

SUNDSIDE

RECYCLING & MATERIALS, INC.

7565 Caratoka Hwy - Jarvisburg, NC 27947

Phone 252-491-8666

Tear-Off Asphalt Shingle Recycling

Materials Accepted:

- ✓ Shingles
- ✓ Felt Attached to Shingles

Unacceptable waste :

- ✘ Cedar Shingles
- ✘ Wood Waste
- ✘ Metal Flashing, gutters, etc.
- ✘ Nails (best effort)
- ✘ Rolls of sheets of felt paper
- ✘ Plastic wrap, buckets
- ✘ Paper Waste
- ✘ No Garbage, trash, or others waste materials
- ✘ Built-up asphalt roofing
- ✘ Asbestos-containing materials
- ✘ Shingles containing mastics

How to Dump in Shingle Area!

Notify Transfer Pad Attendant that you have Tear-Off Asphalt Shingles. They will send you to the designated Area. You must fill out a Shingle Supplier Certification Form located in the office.

Thank you for your cooperation

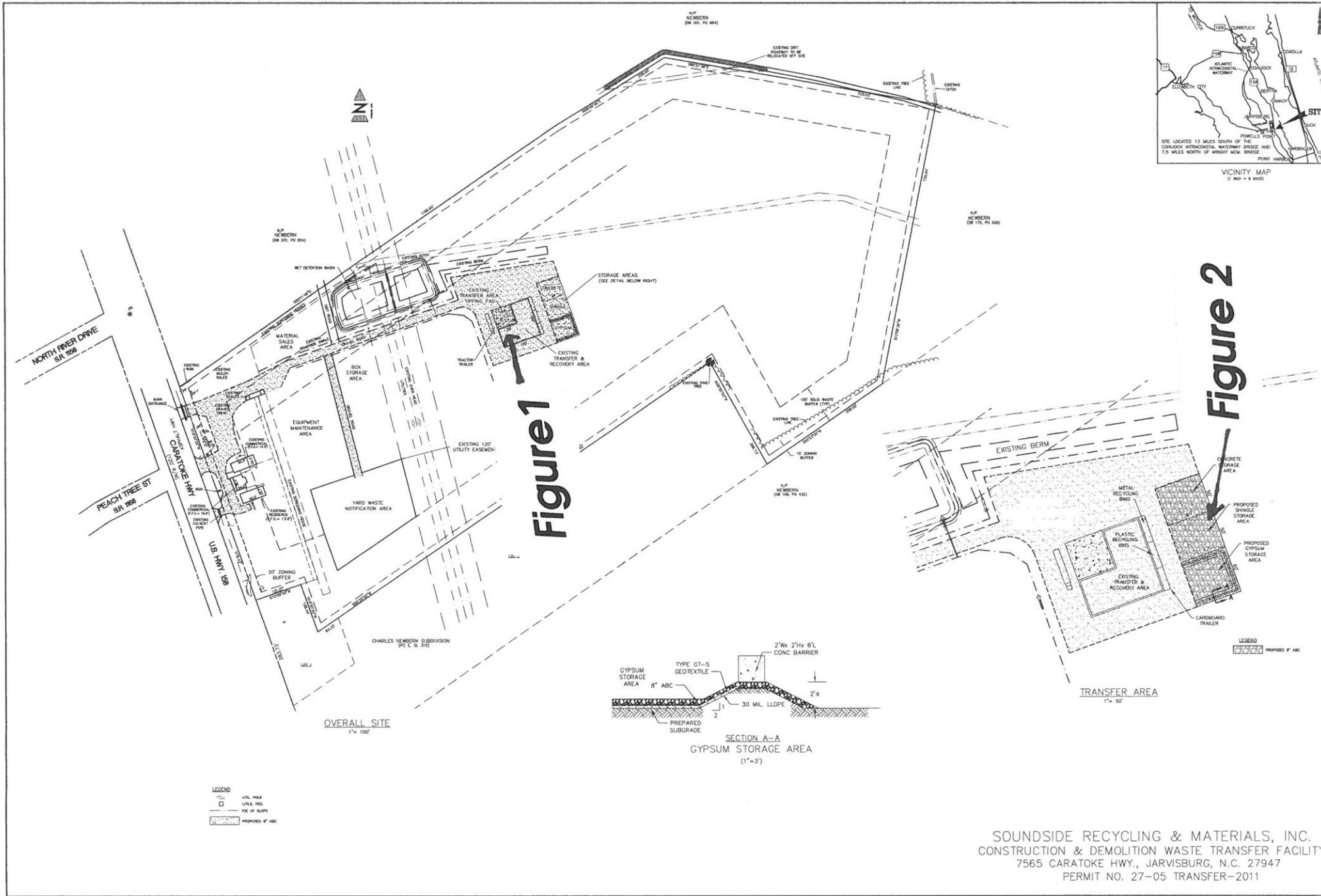


Figure 1

Figure 2

SOUNDSIDE RECYCLING & MATERIALS, INC.
 CONSTRUCTION & DEMOLITION WASTE TRANSFER FACILITY
 7565 CARATOKE HWY., JARVISBURG, N.C. 27947
 PERMIT NO. 27-05 TRANSFER-2011

Print Form ASPHALT SHINGLES	State of North Carolina Department of Environment and Natural Resources Division of Waste Management	NOTIFICATION TEAR-OFF SHINGLE RECYCLING
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Facility Name: Soundside Recycling & Materials, Inc.

Physical Address	Mailing Address
Street 1: <u>7565 Caraboke Hwy</u>	Street 1: <u>7565 Caraboke Hwy</u>
Street 2: _____	Street 2: _____
City: <u>Jarvisburg</u> County: <u>Currituck</u> <input type="checkbox"/>	City: <u>Jarvisburg</u>
State: <u>North Carolina</u> <input type="checkbox"/> Zip: <u>27947</u>	State: <u>North Carolina</u> <input type="checkbox"/> Zip: <u>27947</u>

Primary Facility Contact Person	(for office use)
Name: <u>Kim Newbern</u>	
Phone: <u>252491 8666</u> Fax: <u>252491 5454</u>	
Email: <u>Soundside recycle@embergmail.com</u>	

1. Material Accepted (Check all that apply)

Source-separated tear-off shingles from roofer
 Sorted tear-off shingles from permitted solid waste facility
 Sorted tear-off shingles from another asphalt plant
 Ground asphalt shingle material (NCDOT PRAS)

2. Shingle Certification (Check all that apply)

Facility requires roofers to complete a shingle supplier certification form that includes the address of the source of shingles.
 Facility accepts shingles from NESHAP-regulated facilities and requires asbestos testing documentation.

3. Operations at facility (Check all that apply)

Storage of Shingles
 Sampling for Asbestos
 Grinding
 Asphalt production
 Storage of Ground Shingles for use at facility
 Storage of Ground Shingles for sale

4. Permits or Approvals (Enter permit numbers)

NPDES Stormwater: SW 7060618
 NCDENR-DAQ Emission: _____
 Other: 27-05T-Transfer-2011

CERTIFICATION: I certify that I read the instructions for completing this form and that the information provided is an accurate representation of the activity at this facility.

Signature: Kimberly Newbern Date: 4-1-14
 Name: Kimberly Newbern Title: President
 Phone Number: 252491 8666 Email: soundsiderecycle@embergmail.com