



December 22, 2011

John Murray, PE
NC DENR – DWM
610 East Center Avenue, Suite 301
 Mooresville, NC 28115
Phone: (704) 235-2163

Dear John:

<u>Permit No.</u>	<u>Document ID No.</u>
60-13	15997
<u>RECEIVED</u>	
December 28, 2011	
Solid Waste Section	
Mooresville Regional Office	
<u>APPROVED DOCUMENT</u>	
Division of Waste Management	
Solid Waste Section	
Date: January 20, 2012 By: JM	

Subject: Supplemental Operations Plan – Mining & Reclamation
Greenway Waste Solutions at North Meck, LLC
Permit No. 60-13
CEC Project No. 111-370

Attached is a supplemental Operations Plan for mining and reclamation for the abovementioned facility.

Please let me know if you have any questions or comments. I can be reached at (704) 773-6465.

Sincerely,

CIVIL & ENVIRONMENTAL CONSULTANTS, INC.

Scott L. Brown, PE
Project Manager

Civil & Environmental Consultants, Inc.

Charlotte	2030 S. Tryon Street, Suite 3E Charlotte, North Carolina 28203 Ph: 980-224-8104 E-mail: sbrown@cecinc.com www.cecinc.com	Austin	855/365-2324	Detroit	866/380-2324	Pittsburgh	800/365-2324
		Chicago	887/963-6026	Export	800/899-3610	Phoenix	877/231-2324
		Cincinnati	800/759-5614	Indianapolis	877/746-0749		
		Cleveland	866/507-2324	Nashville	800/763-2326		
		Columbus	888/598-6808	North Central PA	877/389-1852		



**SUPPLEMENTAL OPERATIONS PLAN
MINING/RECLAMATION**

**CONSTRUCTION AND DEMOLITION DEBRIS LANDFILL FACILITY
PERMIT No. 60-13-CDLF-1993**

Prepared For:

GREENWAY WASTE SOLUTIONS AT NORTH MECK, LLC

Prepared By:

**CIVIL & ENVIRONMENTAL CONSULTANT, INC.
CHARLOTTE, NORTH CAROLINA**

CEC Project 111-370

December 22, 2011

North Carolina Board of Examiners
For
Engineers and Surveyors
License No. C-3035



December 22, 2011

Scott L. Brown



1.0 INTRODUCTION

This document is a supplement to the Operations Plan for the Greenway Waste Solutions at North Meck, LLC facility (Facility), located in Huntersville, Mecklenburg County, North Carolina. Unless specifically addressed in this Supplemental Plan, policies and procedures of the Operation Plan must be adhered to. This Supplemental Plan serves as a guide to the landfill operator with respect to landfill mining operations. The Facility is permitted to operate as a construction and demolition (C&D) landfill in accordance with North Carolina Department of Environment and Natural Resources (NCDENR), Division of Waste Management Permit Number 60-13.

2.0 PROPOSED LOCATION AND AREA DETAILS

An approximately 4 acre area consisting of a Demolition Landfill will be mined. This area was active and closed prior to the promulgation of the Construction & Demolition Rules. A Site Plan depicting the area is attached. This area has been chosen because:

- It has the oldest and potentially more degraded waste than any other part of the facility.
- It is anticipated that this area has the highest percentage of recyclable material.
- The mining operation will have minimal interference with the operation of the infill expansion.
- Stormwater will be managed through existing permitted structures.

3.0 MINING OPERATION

The mining project will consist of the following operations:

1. **Excavation, handling and management of final cover soil.** Final cover soil will be removed using an excavator and/or dozer and transported to an onsite stockpile area. Erosion control measures will be taken to control soil particles from leaving the designated stockpile area. In addition, existing and approved sediment and erosion control devices will be utilized.
2. **Waste excavation, screening and management.** The waste will be excavated using an excavator and the material will be loaded into a Erin 206T track mounted screener (see attachment) to segregate soil from waste material. The screened waste will be transported to the active area of the landfill. Recyclables will be recovered as feasible and stockpiled in locations identified in the facility Operations Plan. The reclaimed soil will be stockpiled and used as cover material.

4.0 WASTE EXCAVATION SEQUENCE

The working face slope will be maintained at a maximum slope of 3H: 1V. Steeper slopes, however may temporarily result during excavation. The weekly excavated cell dimensions will



be modified based upon actual volume of waste excavated from the landfill and the influence of side slopes and existing contours. Also, the direction of waste excavation may vary from time to time depending on site-specific conditions. The mining will take place in an orderly manner moving across the designated area.

5.0 EQUIPMENT

The following equipment is proposed for this operation:

- 1 Excavator
- 1 Dozer
- 1 Erin 206T Track Screener
- Dump Trucks. The number of dump trucks used will be determined based on achievable mining rates.
- Additional equipment will be used as need by work conditions.

6.0 HEALTH AND SAFETY

A Health and Safety Plan will be the responsibility of Greenway Waste of North Meck, LLC. However, key features of the plan should include the following:

- No smoking will be allowed in the area of the excavation.
- Site operations will take place in conditions of adequate light only.
- Standard operating procedures, key personnel, site entry procedures, emergency procedures, communication procedures, and personal protective equipment requirements should be identified. At a minimum, all requirements as set forth in the Operation Plan will be adhered to.
- Response to potential hazards.



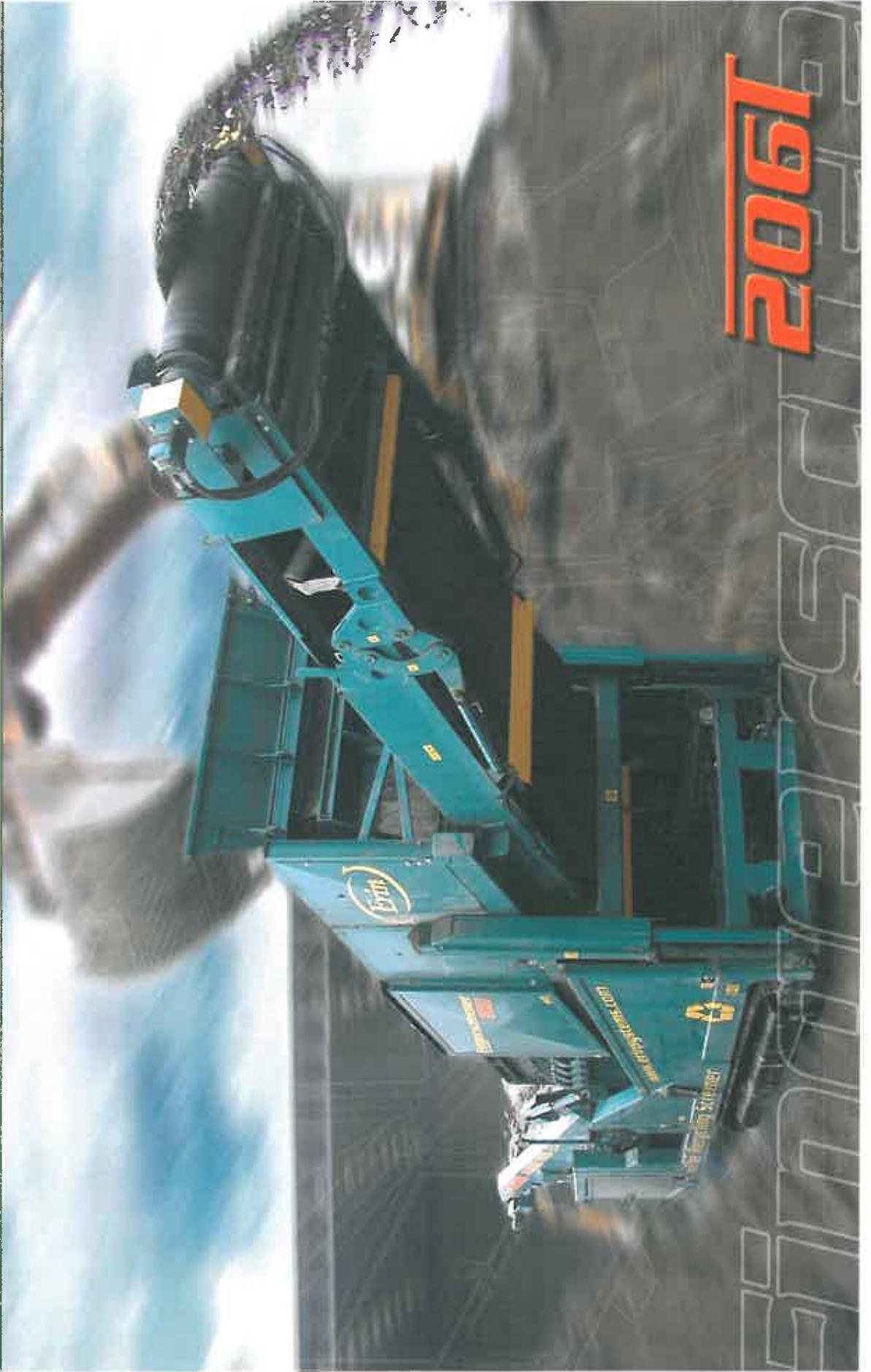
ATTACHMENT 1



ATTACHMENT 2



Fingerscreener



2006

Fingerscreener

206T

World's largest direct-load screener

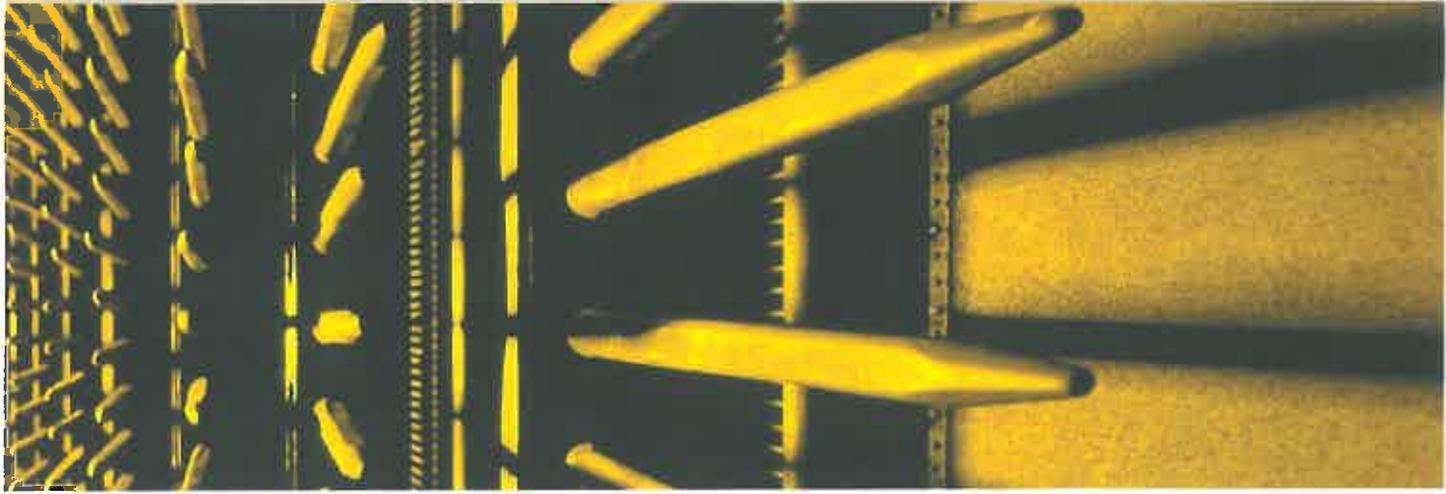
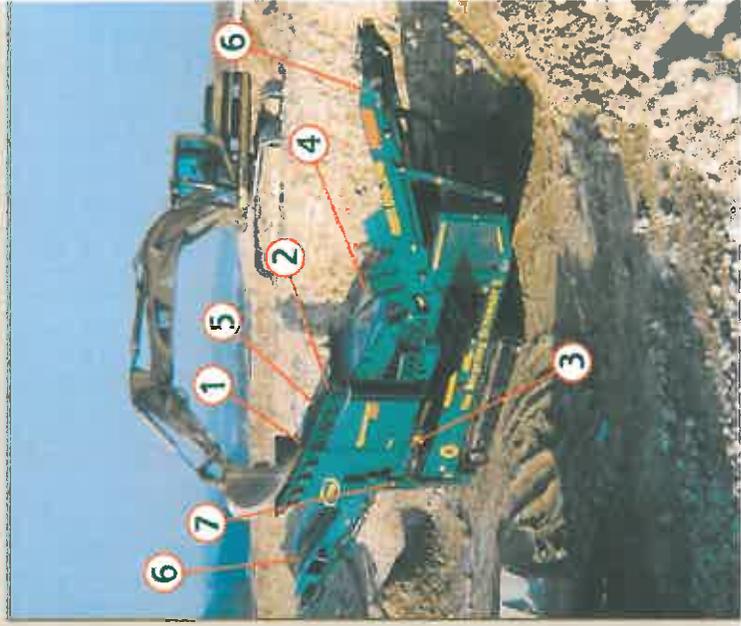
The Erin FINGERSCREENER 206T has been designed to offer the highest production and best separation in the roughest materials and conditions. Its 20' long x 6' wide (6.00 m x 1.80 m) direct-feed screenbox combines self-clearing top deck Grizzly™ fingers and bottom deck Cascade™ fingers, ensuring no clogging and maximum separation efficiency, even with the toughest materials and in the harshest weather conditions. The FINGERSCREENER 206T is fully remote-controlled and sets up in less than 10 minutes. High production capacity in all conditions and complete mobility are what put the Erin FINGERSCREENER 206T in a league of its own.

WHAT MAKES IT SO SPECIAL?

- 1 Direct loading to eliminate hopper bridging problems
- 2 Aggressive screening action
- 3 Ability to easily change between 2 and 3 products
- 4 Low maintenance and low screen wear expenses
- 5 Self-clearing finger screens
- 6 Substantial on-board stacking conveyors
- 7 Hydraulically adjustable screenbox angle

WHAT CAN IT PROCESS?

- Woodwaste/soil
- Contaminated soil
- C&D
- Overburden
- Landfill reclamation
- Scrap metal/incinerator ash
- Quarry spoils
- Rough topsoil

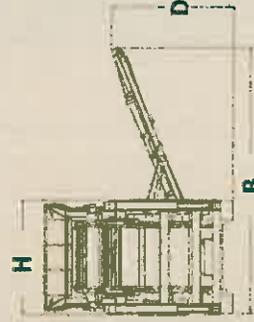


TECHNICAL SPECIFICATIONS

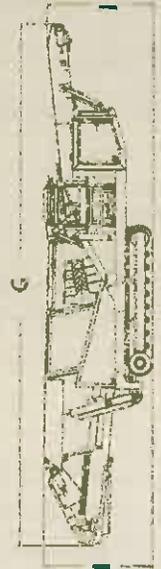
Working Configuration		Imperial	Metric
A	Length	56' 7"	17.25 m
B	Width	22' 10"	6.96 m
C	Fines stockpiling height (min./max.)	12' 6" to 18' 2"	3.81 m to 4.94 m
D	Middles stockpiling height*	10' 2"	3.10 m
E	Rejects discharge height (min./max.)	11' 7" to 13' 6"	3.53 m to 4.12 m
F	Loading height (min./max.)	14' 6" to 18' 2"	4.42 m to 4.94 m
Engine (Caterpillar Turboc Diesel)		142 hp	105 kW
Transport Configuration			
G	Length	52' 2"	15.90 m
H	Width	9' 10"	3.00 m
I	Height	11' 2"	3.40 m
Weight (approx.)		85 000 lb	38 640 kg

*Optional on-board modules apply

WORKING CONFIGURATION



TRANSPORT CONFIGURATION



OPTIONS

- On-board middles stacker
- Mesh conversion kit (shorter deck)
- In-line picking table/C&D sorting systems
- Extra power hydraulic output
- Hopper extension plates



WHAT CAN ERIN DO FOR YOU?

Erin Systems made its mark thanks to its innovative mobile and fixed recycling equipment. Erin Systems' complete line of products includes the revolutionary FINGERSCREENER, STARSCREENER, FINGERTROMMEL, POWERCRUSHER, POWERGRINDER, and TRIDENT. These technologies, specially designed for recycling, screening, crushing, grinding and sorting a wide range of materials including aggregate, concrete, asphalt, construction and demolition (C&D) debris, contaminated soil, compost, woodwaste, etc., etc. are what make Erin Systems your one-stop-shop for your recycling machinery needs.



RECYCLING SOLUTIONS

THE FINGERSCREENER SERIES

FS125T



FS165T



THE TRIDENT THE FINGERTROMMEL

TD125T



FT102G



THE POWERCRUSHER SERIES

Jaw series



Impactor series



Impactor model PCI375I



Designed and
Manufactured
by
POWERCRUSHER

THE STARSCREENER SERIES

SS200AT



SS300A



Corporate Office

1, avenue Premier
Rivière-du-Lois (Québec)
G5H 6C1 CANADA

☎ 1 800 267-7574

(418) 867-8883

☎ (418) 862-6642

✉ info@erin-systems.com

USA Office

37 Evergreen Drive
Portland, ME
04108 USA

☎ 1 800 789-ERIN (3746)

(207) 872-3661

☎ (207) 879-3674

✉ info@erin-systems.com

European Office

Derrinbough, Binn Oí Dúibh
IRELAND

☎ 0800 018-3746

+353-509-22233

☎ +353 509-22255

✉ info@erin-systems.com

Printed in Canada

The content of this brochure is based upon the latest information available at the time of printing and is subject to change without notice. Erin Systems is not responsible for providing a product, reduced version or Erin Systems' products. Mr. Verhulst or representative is hereby made by Erin Systems as to the accuracy of and information. Erin Systems is constantly updating and improving its products and reserves the right to amend, discontinue, alter or change specifications and prices without prior notice. Erin is a registered trademark of Erin Systems Ltd.