

RC0505

# RIGHT ANGLE ENGINEERING, PC

212 Princess Street

Wilmington, NC 28401

Tel. (910) 251-8544

Fax (910) 251-2208

November 11, 2005

Ed Mussler  
Branch Head  
NCDENR – DWM Central Office  
1646 Mail Service Center  
Raleigh, NC 27699-1646



LCID  
71-A

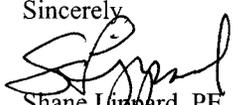
Re: Running Deer LCID Landfill  
Change in Ownership

Mr. Mussler,

Right Angle Engineering has been employed by Chuck Hillenbrand to conduct the necessary permitting for the Running Deer LCID Landfill now that he is the current owner and operator of the facility. The property has recently been surveyed by Talbot Surveying and the deeds for the property have been recorded.

Enclosed is a submittal package for re-permitting the landfill from Clyde Wisecarver to Chuck Hillenbrand including plans, cross sections, operational plan, erosion control, and recent survey.

Please review and provide any comments that you may have on the operation of the site. I would also suggest that we meet and discuss any further information you may need for the project. Feel free to call us anytime at 251-8544.

Sincerely,  
  
Shane Lippard, PE  
Right Angle Engineering, PC

Re-Scanned  
Carmen Johnson  
71-A 1/13/12

Cc: Chuck Hillenbrand, Owner

Also includes  
Separate  
DRAWINGS  
Pender County

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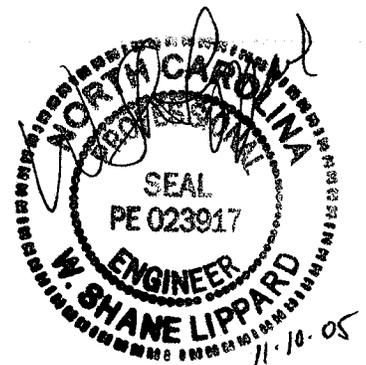
# NORTH CAROLINA LAND CLEARING INERT DEBRIS LANDFILL APPLICATION

**RUNNING DEER LANDFILL  
HIGHWAY 210  
PENDER COUNTY, NORTH CAROLINA  
OWNER: MR. CHUCK HILLENBRAND**



**NOVEMBER, 2005**

BY: RIGHT ANGLE ENGINEERING, P.C.  
Environmental and Civil Engineers  
212 Princess Street  
Wilmington, North Carolina 28401  
(910) 251-8544  
(910) 251-2208 (fax)



**OPERATIONAL PLAN**  
**For Continued Operation of**  
**RUNNING DEER LCID LANDFILL**

**By Chuck Hillenbrand**

**N.C. HWY 210**

**PENDER COUNTY, N.C.**

**NOVEMBER 2005**

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- 1.0 GENERAL INFORMATION
- 2.0 OPERATION AND DEVELOPMENT OF LANDFILL
- 3.0 VEGETATION PLAN

## **1.0 General Information**

This Operational Plan is an update to the original Operational Plan designed to carry out the necessary procedures for proper useage of the Running Deer Land Clearing Inert Debris Landfill to be located in Pender County East of Interstate 40 along State Highway 210. The property on which the Landfill is located is owned by the applicant. The applicant's remaining portion of the 68 acres of this tract of property is used for hunting game and some pasture land. The owner currently operates a 12.78 acre Land Clearing Inert Debris landfill on the northwestern corner of the property and the previously permitted 10 acre mining operation is now closed. This update is due to change in ownership to Chuck Hillenbrand and Sections "C" and "D" are the only two remaining working cells.

Approximately 3/4 of the property is wooded with access roads and drainage ditches crossing the site. The existing ditches run to the northeastern corner of the property where an existing sedimentation pond is located. The effluent of the pond flows into Trumpeter Swamp. The sedimentation pond was doubled approximately year 2000 to accomodate the work at the landfill.

Six small ponds currently exist on the site which were created by mining in the late 1980's. An existing entrance road and haul road which previously were used for logging will be used as the haul road for the mining operation. This road is well developed and built out of gravel.

Land use in the vicinity contains residential owners along with logging operations and also a hog farm. Five mobile homes are located along NC 210 just south of the entrance but at least 500 feet from any proposed landfill operations.

The total permitted landfill area is 24.38 total acres which also includes buffer zones. Grading in the buffer zones will be held to a minimum to reduce sediment erosion. From approval of permits the total construction time to complete existing landfill Section "C" and expansion Section "D" will be 5 years. Disturbance will follow the construction schedule and reclamation will be conducted as appropriate landfill areas are completed.

## **2.0 Operation and Development of Landfill**

1. Landfill owner and operator responsible for the Landfill facility will be:

Chuck Hillenbrand  
436 Wendover Lane  
Wilmington, NC 28411  
(910) 686-9678

2. After completion of Landfill operations the land will be reclaimed as hunting and fishing areas in conjunction with ponds created by mining at the site.
3. The Running Deer LCID Landfill will only accept the following items for disposal: stumps, trees, limbs, brush, grass, other natural vegetative material, yard trash, untreated wood, unpainted wood, concrete, brick, uncontaminated soil, rock, and

gravel. NO ASPHALT, USED ASPHALT, OR MATERIALS MIXED WITH ASPHALT WILL BE ACCEPTED AT THE FACILITY.

- \* 4. Upon completion of filling Section "C" then filling will continue out the East branch towards the rear of the property to the expansion Section "D". Completing Sections "C" and "D" is estimated to be within 5 years.
5. Adequate soil cover that is to be landfilled will be stockpiled in an unused Section for future use as cover material or beneficial fill. One foot of beneficial fill will be placed over existing ground surface to properly maintain waste/groundwater separation at the site. Cover material will be acquired from the Running Deer mine. Soil Cover will be applied monthly or when an active area reaches one acre in size.
6. At the completion of landfilling activities the disposal area will be covered with a minimum of one foot of soil cover. Revegetation plan will be followed at this point. Permanent erosion control measures to be implemented within 120 calendar days of any phase completion.
7. The facility will maintain adequate security by having lockable gates at all entrances and maintaining vegetative buffers where possible. An attendant will be on duty at all times the landfill is open for public use to assure compliance with operational requirements and to prevent acceptance of unauthorized wastes. A Daily Log will be maintained in the small "check-in" office located along the haul road just inside the main gate.
8. All existing haul roads will be inspected monthly and repaired as needed to maintain functionality at the site.
9. During landfill operations, slopes will be maintained so that surface waters are not impounded over waste.
10. There will be no excavation to facilitate landfilling. All wastes will be deposited over existing ground surfaces.
11. All large earthmoving equipment on site will be equipped with fire extinguishers in an event of fire. Small fires will be attempted to control by on-site personnel. Pender County Fire Squad will be notified when fire becomes uncontrollable.

#### Construction Schedule

1. Obtain plan approval and other applicable permits.
2. Hold pre-construction meeting at least one week prior to beginning construction.
3. Install/Maintain temporary construction entrance/exit.
4. Place inert beneficial fill in existing ditch and have inspected prior to continuing fill operations.
5. Begin filling of permitted area.

6. Where necessary, install silt fencing to reduce sedimentation into ditches or adjacent property.
7. When a 5 acre cell has been completely filled, begin permanent vegetative reclamation of disturbed areas.
8. All erosion and sediment control practices will be inspected bi-weekly and after rainfall events. Needed repairs will be made immediately.
9. After each fill area is stabilized, all temporary measures will be removed and permanent vegetative repairs to be completed.
10. Completion of project will be within five years.

### 3.0 Vegetative Plan

1. Upon completely filling a 1 acre cell, top cover soils will be roughened by making 1"-2" deep grooves perpendicular to the slope.
2. Spread lime (agricultural limestone) evenly of area at a rate of 1.5 tons/acre, spread 10-10-10 fertilizer at a rate of 1000 lb/acre and incorporate into the top 6" of soil.
3. Loosen surface prior to applying seed.
4. Broadcast seed at recommended rates.
5. Rake seed into the soil and lightly pack to establish good contact.
6. Mulch with 4000 lb/acre grain straw or equivalent and anchor by weighted farm disc set nearly straight or other mulch anchoring tool.
7. Mow as needed and refertilize in late winter or early spring by topdressing with 10-10-10 fertilizer.

#### Seed Types and Application Rate / Schedule

Cool Season:	Tall Fescue -- 80 lb/acre
Warm Season Mix:	Pensacola Bahiagrass -- 50 lb/acre Kobe Lespedeza -- 40 lb/acre
Seeding Dates:	Early Spring: Feb. 15 - Apr. 30 Fall: Sept. 1 - Oct. 31

**END OF PLAN**

**EROSION AND SEDIMENTATION CONTROL PLAN**

**RUNNING DEER LCID LANDFILL**

**N.C. HWY 210**

**PENDER COUNTY, N.C.**

**NOVEMBER 2005**

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- 1.0 NARRATIVE
- 2.0 CONSTRUCTION SCHEDULE
- 3.0 VEGETATION PLAN

**FIGURES**

EXISTING CONDITION AND CONSTRUCTION DRAWINGS

## 1.0 NARRATIVE

This Sediment Erosion Control Plan is being designed to control disturbed soils on a Land Clearing Inert Debris Landfill located in Pender County East of Interstate 40 along State Highway 210. The property on which the Landfill is to be located is owned by the applicant. Currently the site is used for hunting game and some pasture land. The entire landfill permitted acreage was 24.8 acres but only cells "C" and "D" are currently operational and are 4.6 and 11.6 acres respectively. The LCID landfill has been in operation since 1996 and is now under new ownership.

Approximately 3/4 of the property is wooded with access roads and drainage ditches crossing the site. The existing ditches run to the northeastern corner of the property where an existing sedimentation pond is located. The effluent of the pond flows into Trumpeter Swamp.

Six small ponds currently exist on the site which were created by mining. Approximately ten acres were permitted for mining on the property in the name of Running Deer Mine. An existing entrance road and haul road which previously were used for logging will be used as the haul road for the mining operation. This road is well developed and built out of gravel.

Land use in the vicinity contains residential owners along with logging operations and also a hog farm. Five mobile homes are located along NC 210 just south of the entrance but at least 500 feet from any proposed landfill operations.

Permitted Landfill area will be for 24.38 acres. The permit boundaries are located within proper setbacks and siting requirements described in NCAC 15A-13B.0564. Disturbance will follow the construction schedule and reclamation will be conducted as appropriate landfill areas are completed.

### Sediment Erosion Control Practices

1. Temporary Gravel Construction Entrance/Exit -- Practice 6.06  
A temporary gravel construction entrance will be installed at the northwestern gated entrance to prevent sediment from leaving the site. The entrance should be graded so that runoff water will be directed to the north onto owners property. See Construction Detail Sheet for dimensions and specifications.
2. Land Grading -- Practice 6.02  
The existing slope of the site is mostly flat except for the current landfill areas where the elevations rise. All disturbed areas in and around the landfill will be rough graded to slope and drain into the existing ponds. Sediment will be directed to drain back into the ponds even after finish grading by constructing new ditches. Haul roads will be used as flow barriers and will also be sloped towards pond areas. Undisturbed areas will surround most of the landfill reducing sedimentation and wind erosion.
3. Sediment Fence -- Practice 6.62

A sediment fence will be constructed around the filling areas as necessary to prevent sediment from leaving the site. See Construction Detail Sheet for dimensions and specifications.

#### 4. Ditch Installation

A new drainage ditch will be installed at the rear most boundary of the landfill as shown on the plans. The ditch will connect an existing ditch on the site to the sedimentation pond. Side slopes will be minimum 3:1.

#### 5. Sedimentation Pond

The existing sedimentation pond located at the site was doubled in size around year 2000 to accommodate increased runoff and sedimentation potential due to the expansion.

### 2.0 Construction Schedule

1. Obtain plan approval and other applicable permits.
2. Hold pre-construction meeting at least one week prior to beginning construction.
3. Install/Maintain temporary construction entrance/exit.
4. Begin filling of permitted area.
5. Where necessary, install silt fencing to reduce sedimentation into ditches or adjacent property.
6. When a 1 acre cell has been completely filled, begin permanent vegetative reclamation of disturbed areas.
7. All erosion and sediment control practices will be inspected bi-weekly and after rainfall events. Needed repairs will be made immediately.
8. After each fill area is stabilized, all temporary measures will be removed and permanent vegetative repairs to be completed.
9. Completion of project will be within five years at which point mining permit expires.

### 3.0 Vegetative Plan

1. Upon completely filling a 1 acre cell, top cover soils will be roughened by making 1"-2" deep grooves perpendicular to the slope.
2. Spread lime (agricultural limestone) evenly of area at a rate of 1.5 tons/acre, spread 10-10-10 fertilizer at a rate of 1000 lb/acre and incorporate into the top 6" of soil.
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Seed Types and Application Rate / Schedule

Cool Season:	Tall Fescue -- 80 lb/acre
Warm Season Mix:	Pensacola Bahiagrass -- 50 lb/acre Kobe Lespedeza -- 40 lb/acre
Seeding Dates:	Early Spring: Feb. 15 - Apr. 30 Fall: Sept. 1 - Oct. 31

**END OF PLAN**

Received  
Solid Waste  
Section

# RIGHT ANGLE ENGINEERING, P.C.

212 Princess Street, Wilmington, North Carolina 28401 • Tel. (910) 251-8544 • Fax (910) 251-2208 • email: raepc@aol.com

## LETTER OF TRANSMITTAL

DATE 4.24.06

TO: DWM / SWS  
NCDEUR

PROJECT NO: \_\_\_\_\_

RE: Running Deer

ATTENTION: Geoff Little

TRANSMITTAL NO: \_\_\_\_\_ PAGE OF \_\_\_\_\_

WE ARE SENDING:  Originals  Prints  Shop Drawings  Samples  
 Specifications  Calculations  Other \_\_\_\_\_

QUANTITY	DRAWING NO.	REV.	DESCRIPTION	STATUS
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2			Sets of Application for permit	

Issuc Status Code: A. Preliminary B. Fabrication Only C. For Information D. Bid  
E. Construction F. For Review & Comments G. For Approval H. See Remarks

Action Status Code: 1. Approved As Submitted 2. Make Corrections Noted 3. Other  
4. Amend & Resubmit 5. Rejected - See Remarks

REMARKS this is copies of information provided  
back in November 2005. Let us know  
if we can be of any assistance.

Signed Sh Lippard