APPROVED DOCUMENT
Division of Waste Management
Solid Waste Section
Approved February 24, 2014
By D. Wilson
Facility ID 1906-COMPOST
Doc ID 20623 (permit)
Doc ID 20625 (applic)

August 8, 2013
February 19, 2014 (Revised)

Donna J. Wilson
Environmental Engineer
Solid Waste Section/Division of Waste Management/NC DENR
1646 Mail Service Center
Raleigh NC 27699-1646

RE: **McGill Permit Modification SWC 19-06**

Dear Donna:

Enclosed is a request for a permit modification for our Merry Oaks facility and a drawing of the facility highlighting the affected area.

This request has one significant change from what we discussed at our meeting on July 17th. Instead of replacing the screening plant, we are proposing a major overhaul. This will include a new infeed hopper, electrical improvements, screens, new belting where required, and some anti-corrosion painting.

Please call or email if you have any questions.

Steve Cockman
McGill Environmental Systems of NC Inc
(M) 910-542-8903
scockman@mcgillcompost.com

Enclosures

Proposed changes and improvements for Permit SWC 19-06

Justification

First and foremost we are always seeking opportunities to improve the facility. We feel this is essential if we are to survive and thrive in the competitive world we operate in. These changes amount to a very significant investment but we believe they will make us more efficient, maintain our regulatory record and ensure top quality products for the higher-end markets we depend more and more on. Our screening equipment is aging resulting in gradual increases in maintenance costs and reduced efficiency. The proposed changes will also make us more independent of the ever-changing marketplace for good amendments.

The specific modifications we are proposing are:

- Refurbish existing stationary screen to include the replacement of feed hopper.
- Install fans with variable frequency drives in bays 2, 4, 6, 8, 10, 12 and 14 (this is the open area of the plant not the processing bays) to further cure and dry compost and amendments. These new fans will provide aeration through the existing piping in the floor of bays 2, 4, 6, 8, 10, 12, and 14. Drier materials will greatly benefit the blending process and facilitate more efficient screening.
- Remove the remainder of the old building (screening and curing bays) and replace with a new building. This is an open-sided metal structure covering curing bays 21, 23 and 25. The replacement building would cover the same footprint as the existing building but would be upgraded with Resolite sheeting and corrosion protection. The existing concrete roof over the processing bays and the existing building over the blending building will not be affected; only the upper and lower portions of the existing screening building are being replaced.
- During construction the curing bays will continue to function staying fully aerated as they are now to avoid odor generation, thus curing compost will stay within the current walls of the building with minimal outside exposure. Blending and primary processing will not be affected by the construction however overall tonnage of residuals coming into the plant will be reduced to compensate for the construction activities.

Impacts of the upgrades

- The refurbishment of the screening plant should reduce down time and maintenance costs. This will contribute to making daily operations more efficient.
- The existing old building has deteriorated and will eventually become structurally unsound requiring it to be removed. We do not want to wait for this to happen.
- There should be no negative potential for odor generation. We would however expect some benefits from having the ability to keep the material stored in bays 2 to 14 aerated.

Timeline

- Screening plant refurbishment will commence in late August and be completed by mid-October.
- Installation of fans will commence within 30 days of receiving permit amendment.
- Replacement of old building would happen during the 1st quarter of 2014.

McGILL
The compost people®

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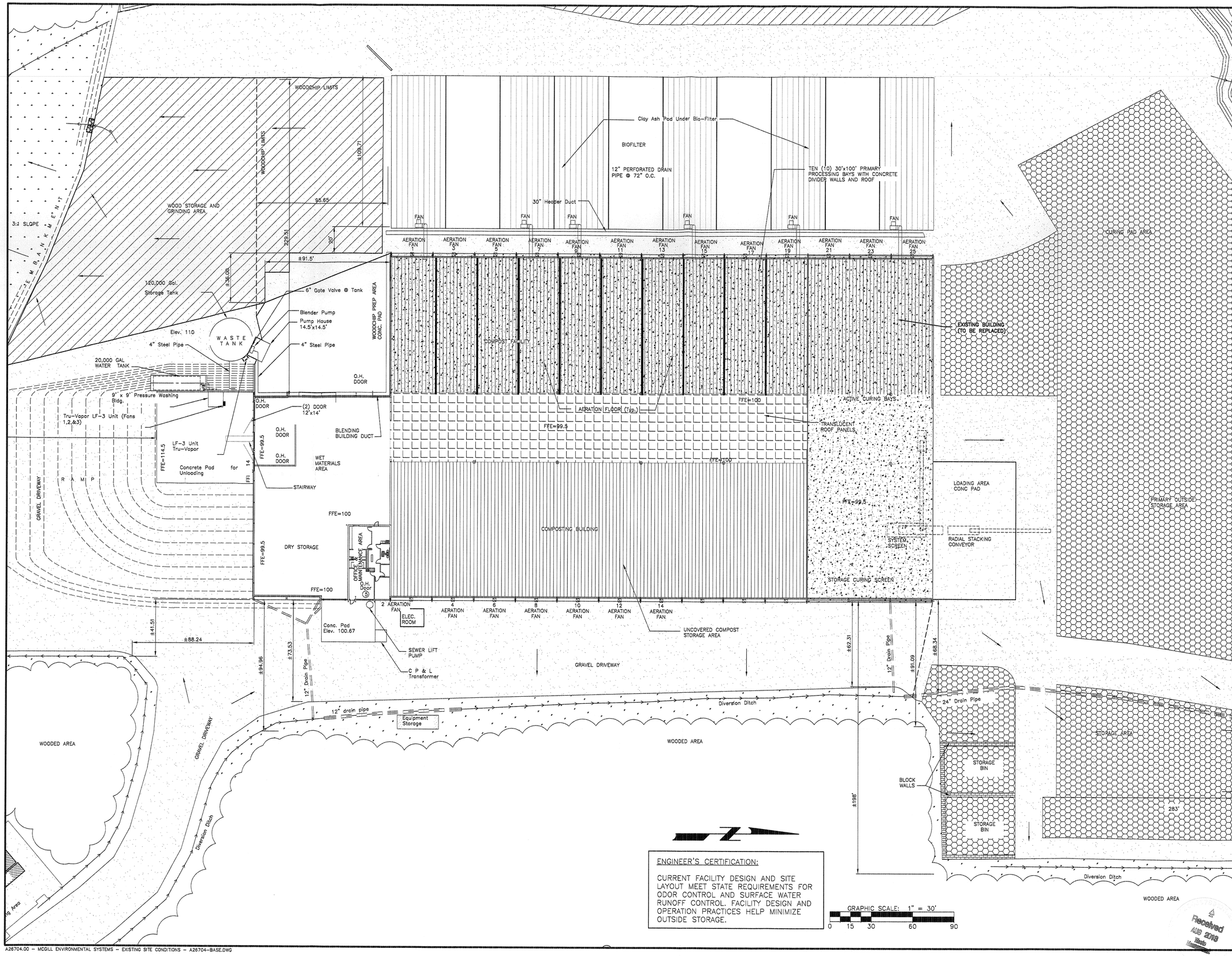

ENGINEER'S CERTIFICATION:

CURRENT FACILITY DESIGN AND SITE LAYOUT MEET STATE REQUIREMENTS FOR ODOR CONTROL AND SURFACE WATER RUNOFF CONTROL. FACILITY DESIGN AND OPERATION PRACTICES HELP MINIMIZE OUTSIDE STORAGE.

NOTES

1. SEE C-101 FOR ALL GENERAL NOTES.

LEGEND

- EXISTING TREE LINE
- DIVERSION DITCH
- (FLOW) SLOPE DIRECTION
- ALL AREA CLASSIFIED AS IMPERVIOUS, INCLUDING STRUCTURES, BUILDINGS, ROADWAYS, PARKING, AND PRODUCT STORAGE. SEE CHART BELOW FOR TOTAL
- RIP-RAP EROSION CONTROL PROTECTION
- STORAGE AREA
- AREA SEPARATION LIMITS LINE
- VEGETATIVE GRASS BUFFER AREA
- GRINDING AREA
- DRAINAGE SWALE (FLOW)
- ADJACENT PROPERTY

REVISIONS

NO.	DATE	DESCRIPTION
1	3/30/06	REVISED PER NCDENR REVIEW
2	5/18/06	FINAL REVIEW
3	5/31/06	FINAL SUBMITTAL
4	2/16/09	REVISED PER CLIENT
5	7/12/10	REVISED PER CLIENT
6	12/7/12	REVISED PER SWS
7	7/2/13	REVISED PER CLIENT

PROJECT MANAGER:	PROJECT ENGINEER:
GSM	ZLF
DRAWN BY: MAE	CHECKED BY: GSM

DATE: DECEMBER 08, 2005

NORTH CAROLINA PROFESSIONAL SEAL 17069 ENGINEER GARY S. MacCONNELL 7/9/13

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MCGILL ENVIRONMENTAL SYSTEMS

CHATHAM COUNTY FACILITY
CHATHAM COUNTY, NC

COMPOSTING FACILITY BUILDING LAYOUT

PROJECT NUMBER	DRAWING NUMBER
A26704.00	C-105

Received AUG 2013 Waste Management

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