



# NEW HANOVER COUNTY

Engineering Department  
230 Government Center Drive • Suite 160  
Wilmington, North Carolina 28403  
TELEPHONE (910)-798-7139  
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Beth E. Wetherill, C.P.E.S.C.  
Soil Erosion Specialist

March 20, 2019

GHK Cape Fear Development, LLC  
1051 Military Cutoff Road, Suite 200,  
Wilmington, North Carolina 28403

**RE: Grading Permit #64-18, Woodlands Landing @ Echo Farms Tract 3A**

Dear William Schoettelkotte;

This office has reviewed the subject sedimentation and erosion control plan. We find the plan to be acceptable with performance reservations and modifications.

**Please read the permit conditions carefully and return the signed blue original to our office and keep the copy for your records.**

**A preconstruction meeting is optional** prior to any land disturbing activity on this project. Please contact me at (910) 798-7139 if you would like to schedule this meeting in our office. If you choose not to have the preconstruction meeting, please contact us with the date land disturbing activity will take place onsite and once the initial erosion control measures are installed.

The land disturbing fee of **\$5550** is due to be paid to New Hanover County Engineering, to my attention, prior to plat recordation.

Please be advised that a copy of the approved soil erosion plan, a copy of the grading permit, a rain gauge and the Combined Inspection Reports must be available at all times on the site.

New Hanover County's Erosion and Sedimentation Control Program is performance oriented requiring protection of the natural resources and adjoining properties. If following the commencement of the project, it is determined that the plan is inadequate to meet the requirements of the New Hanover County's Erosion and Sedimentation Control Ordinance, this office may require revisions in the plan and its implementation to insure compliance with the ordinance.

This permit will not preclude any other permits or approvals necessary for beginning or completing this development. It is the owner's responsibility to have all the approvals or permits that are required prior to beginning construction. Approval of an erosion control plan is conditioned on the applicant's compliance with Federal and State Water Quality laws, regulations and rules.

Respectfully yours,

*Beth Easley Wetherill*

Beth Easley Wetherill  
NHC Soil Erosion Specialist

Cc: Megan Crowe Associate Planner, City of Wilmington  
Branch Smith PE, Paramounte Engineering, Inc.  
Echo Farms, LLC c/o Matrix Development Group



## Permit for a Land Disturbing Activity

New Hanover County  
Department of Engineering  
230 Government Center Drive - Suite 160  
Wilmington, North Carolina 28403  
(910) 798-7139

### As authorized by the New Hanover County Erosion and Sedimentation Control Ordinance

This permit issued to **GHK Cape Fear Development, LLC** authorizes the development of **18.5 acres** of land at **4114 Echo Farms Boulevard for Woodlands @ Echo Farms - Tract 3A** in New Hanover County with performance reservations and modifications. This permit issued on **March 20, 2019** is subject to compliance with the application and site drawings, all applicable regulations and special conditions and notes set forth below. **Any plan modifications must be approved by this office prior to field changes.**

It is understood by the applicant that a representative of New Hanover County's Engineering Department may inspect the site at any time following the issuance of this Permit. A copy of the approved Soil Erosion Control Plan, this permit, a rain gauge and copies of the Combined Self-Monitoring and Self Inspection Reports must be available at all times at the site.

Failure to execute the provisions of this permit and the approved Soil Erosion Plan, or any other provisions of the New Hanover County Soil Erosion and Sedimentation Control Ordinance, may result in immediate legal action by the County to the limits prescribed by the Ordinance. If the measures outlined on the approved Soil Erosion Control Plan and this Permit prove insufficient, additional Erosion Control measures can and will be required which in turn will be considered provisions of this Permit. This Permit does not preclude any other permits or approvals necessary for beginning or completing this development. Approval of an erosion control plan is conditioned on the applicant's compliance with Federal and State laws, regulations and rules. It is the Permittee's responsibility to obtain all necessary permits and approvals.

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### SPECIAL CONDITIONS

#### **(THESE CONDITIONS MUST BE FOLLOWED IN ADDITION TO THE PLANS AND SPECIFICATIONS)**

\*All the soil erosion control measures will be installed as the site is cleared and maintained throughout construction. This project is proposed to be built in two phases. Erosion control includes 2 construction entrances, silt fences, silt fence outlets, 4 diversion ditches with liners in diversions #1 & #2 and 12 inch wattles or check dams, inlet and outlet protection, temporary slope drains, immediate construction and stabilization of 2 skimmer sediment basins with Faircloth skimmers and concrete washouts. The skimmer in Pond 3A-1 will be a 3-inch skimmer with a 2.4-inch orifice and the skimmer in Pond 3A-2 will be a 3-inch skimmer with a 2.6-inch orifice. Note: Calculations require for 2 rows of silt fence in drainage area #4, diversion #4 is dependent on Basin #3B-1 being installed with its skimmer as shown in Grading Permit 2-18, the pond slopes will be sodded above the permanent pool elevation, a pump around system with dirt bags and possibly flocculants during pumping will be used for installation of the culvert with a minimum 12'x9'x1.125' energy dissipater.

\*Tree Removal Permits and/or Approvals are required from the City of Wilmington and/or New Hanover County prior to issuance of this permit and clearing the site.

\*Silt fence stakes must be steel and will be placed **six feet apart without wire reinforcement** or **eight feet apart with wire reinforcement**. Silt fence is **not** allowed as inlet protection.

\*This permit does not preclude any permits or approvals which may be necessary such as City of Wilmington or New Hanover County Stormwater, NCDENR Water Quality, C.A.M.A., and the US Army Corps. of Engineers, DEM Solid Waste or any other agencies.

\*No sediment shall leave the site.

\*If plan revisions are necessary you must submit a copy to this office for approval **prior** to any field changes.

\*If soil is brought onto this site or removed from this site, it must come from or be taken to an approved or permitted site to be identified to this office **prior** to being brought onsite or removal from the site.

\*All City and/or County and State drainage and stormwater requirements will be adhered to.

\*If these measures fail to adequately control erosion, more restrictive measures will be required.

\*If any phase of grading ceases for more than 15 working days, the site will be temporarily stabilized.

\*All slopes must be stabilized within 21 calendar days of any phase of activity.

The approval of an erosion control plan is conditioned on the applicant's compliance with Federal and State Water Quality laws, regulations and rules.

\*Note the required rates for seed, lime, fertilizer and mulch in your seeding specifications.

\*Enclosed is a Combined Self-Monitoring and Self-Inspection Form that meets the requirements of both the NPDES Stormwater Permit for Construction Activities, NCG 010000 reporting and the Land Resources Self Inspection Program that satisfies the requirements of the Sedimentation Pollution Control Act. These are mentioned below with specific requirements for each program. These reports are the responsibility of the property owner. They require a rain gauge onsite, inspections and reporting every 7 calendar days and within 24 hours of every ½ inch rain per 24-hour period and at specific phases of construction. Additional copies of this Combined Construction Inspection Report can be found at <http://portal.ncdenr.org/web/lr/erosion> . Reports must be available onsite at all times. If you have questions, please contact New Hanover County Engineering (910) 798-7139 or the Land Quality Section at the NCDENR Regional office at (910) 796-7215.

\*Note the NPDES information from the State for sites disturbing 1 acre or more and the reporting requirements. All **NEW** projects permitted after August 3, 2011 **must include** the following surface water withdrawal locations and stabilization requirement designations on the plan in order to qualify for coverage under the most recent NPDES Construction General Permit. All settling basins must have outlet structures that withdraw water from the surface, with the exception of basins or traps that have a drainage area of less than 1 acre. The NPDES permit also requires ground cover within 14 calendar days on disturbed flat areas and ground cover within 7 calendar days on all areas within HQW Zones, perimeter dikes, swales, ditches, perimeter slopes and all slopes steeper than 3:1. Exceptions include slopes that are 10 feet or less in length and not steeper than 2:1 which must be stabilized within 14 calendar days and slopes greater than 50 feet which must be stabilized within 7 calendar days. It requires inspections of all erosion control measures and reporting every 7 days and within 24 hours of every ½ inch rain event in a 24-hour period. This permit also includes other new requirements which are listed in the text of the NPDES Stormwater Discharge Permit for Construction Activities, which is attached to the original copy of each land disturbing permit.

\*Note the Land Resources Self Inspection Program Requirements. This program is separate from the NPDES reporting and requires inspection and documentation after each phase of construction. These phases include: Installation of perimeter erosion control measures, Clearing and Grubbing of existing ground cover, Completion of any phase of grading of slopes or fills, Installation of storm drainage facilities, Completion of construction or development, Establishment of permanent ground cover sufficient to restrain erosion and any Deviation from the approved plan.

\*Pre-construction meetings are optional. Contact Beth E. Wetherill at (910) 798-7139 to set up a meeting prior to land disturbing activity onsite. If you do not choose to have a preconstruction meeting prior to starting work on site, you should contact us when activity begins and again when the initial measures have been installed.

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This Permit will expire one year from date of issue if no construction activity begins on site. This permit may not be amended or transferred to another party without approval of this office.

**Acknowledgment of receipt of Permit**

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Owner

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By (please print)

\_\_\_\_\_  
Signature

*Beth Easley Wetherill*

Beth E. Wetherill, C.P.E.S.C.  
Soil Erosion Specialist/New Hanover County