WC 574-05 Seapointe Phase I SUB

MSA-5-1829-5364

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Robert L. Ehrlich, Jr. Governor

Michael S. Steele Lt. Governor



Martin G. Madden Chairman

> Ren Serey Executive Director

STATE OF MARYLAND CRITICAL AREA COMMISSION CHESAPEAKE AND ATLANTIC COASTAL BAYS

1804 West Street, Suite 100, Annapolis, Maryland 21401 (410) 260-3460 Fax: (410) 974-5338 www.dnr.state.md.us/criticalarea/

December 6, 2005

VIA FACSIMILE

Mr. Keith Lackie, Natural Resources Administrator Development Review & Permitting One West Market St., Room 1201 Snow Hill, MD 21863

RE: Seapoint, TM 27, Parcel 637, Outlot A

Dear Mr. Lackie:

Thank you for providing information on the above referenced site plan. The applicant proposes to construct seven (7) duplexes and associated parking on a 2.35 acre parcel within the IDA. The site is currently undeveloped. Based on the information provided, we have the following comments:

- 1. Please forward a copy of the response from the Natural Heritage Division when it is received. The project should not receive final approval until a response is in hand and any necessary protective measures established.
- 2. The proposal appears to meet the 15% afforestation requirement through retention of existing landscaping and additional plantings.
- 3. In regard to the 10% calculations, there are several issues and concerns. First, the impervious area proposed on the plan (45,519 square feet or 1.04 acres) is different than that used in the 10% calculations (1.283 acres). This must be resolved. Second, Step 5 of the calculations shows two proposed best management practices (BMPs), a wet pond and a grass swale treating 137.4% of the site. This is incorrect as total treatment cannot exceed 100% of the site. The grass channels and the SWM basin appear on the plan but adequate detail is not provided to determine if the channels drain to the basin. If so, and if the channels are constructed in accordance with the specifications for a wet or dry swale in the MDE Stormwater Manual, the calculations should be revised to reflect the best management practices in a series. Information on calculating the removal from such a scenario can be found on pages 7-9 to 7-10 of the Commission's 10% Rule Guidance Manual. If the grass channels are simply a means

Mr. Keith Lackie December 6, 2005 Page 2 of 2

> of conveying rooftop runoff to the basins, they provide pretreatment but cannot count as a BMP. The wet pond alone would fall short of meeting the 10% requirement by approximately 0.5 pounds. Offsets would be required to make up this deficit.

Thank you for the opportunity to review and comment on this site plan. If you have any questions or concerns regarding these comments, please contact me at (410) 260-3477.

Sincerely,

Lee And Chandles LeeAnne Chandler

Science Advisor

cc:

WC48705 0574-05

ATLANTIC COASTAL BAYS CRITICAL AREA REPORT

TAX MAP 27, PARCEL 657, OUTLOT A TENTH ELECTION DISTRICT WORCESTER COUNTY, MARYLAND

PREPARED FOR JASTICON, INC. P.O. Box 179 Medford, NJ 08055

PREPARED BY R.D.HAND AND ASSOCIATES, INC. 12302 Collins Rd. Bishopville, MD 21813 410-352-5623

Nov. 16, 2005

INTRODUCTION

The proposed development of Parcel 637, Outlot A consists of the construction of 14 duplex housing units with associated parking, amenities and infrastructure. The total site area is 2.35 acres. The entire site is within the intensely developed area (IDA) designation of the Atlantic Coastal Bays Critical Area.

The site is relatively flat and was previously utilized as a dredge spoil disposal area when the Marsh Harbor Marina was constructed. The onsite soils are designated as urban land (UT). Existing landscaping consists of a landscaped berm on the north and west property lines. Currently there is no stormwater management for the site with runoff discharging directly to tidal water without treatment.

After development all runoff will be directed to best management practices (BMP's) for treatment prior to discharge. These include grass channels as well as a wet basin. The attached "calculating pollutant removal requirement" show that the developed site exceeds the pollutant removal requirements for critical areas. The site is required to provide 15% forest cover and through plantings and retention the site will have 18% forest cover. Total site disturbance and grading will be 2.03 acres and after development impervious area will be 1.04 acres (44%). The site will be served with both central water and central sewer.

There should be an improvement in water quality after development of this project due to pollutant removal from use of BMP's as well as increased forest cover.

Attached please fid correspondence to DNR, Natural heritage Division from Spencer Rowe concerning this project.



SPENCER ROWE, INC. 12430 Fleetway Drive Ocean City, Maryland 21842

office: 410-213-0127 fax: 410-213-9884

• wetland delineation and permitting • forestry • complete site evaluation

October 13, 2005

Lori Byrne Maryland Department of Natural Resources Wildlife and Heritage Service 580 Taylor Avenue, E-1 Annapolis, MD 21401

Re: Outlot A, Parcel 637, Worcester County Tax Map 27, Scapointe subdivision

Dear Ms Byrne:

On behalf of our client, we are requesting a determination of any Service concerns regarding the above-referenced parcel.

This area is a former dredge spoil site now maintained as an open mowed field. It is in the middle of the Seapointe subdvision.

Thank you.

Sincerely,

Spence

Encl Portion, Worcester County Tax Map 27 USGS Quad map with approximate property location 2004 ortho photo

U.S. ARMY CORPS OF ENGINEERS WETLAND DELINEATOR CERTIFICATION No. WDCP93MD0310002A

| | Calculating Pollu | Itant Removal Requ | Jirements | | | |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|----------------------------|--|--|--|
| Step | o 1: Calculate Existing and | d Proposed Site Imper | viousness | | | |
| Α. | Calculate Percent Imperviousness | | | | | |
| 1) | Site Area within the Critical Area IDA, $A = 2.355$ acres | | | | | |
| 2) | Site Impervious Surface Area, Existing and Proposed, (See Table 4.1 for details) | | | | | |
| | (i Poada | a) Existing (acres) | (b) Proposed (acres) | | | |
| | Parking lots | | 0.50 Ac. | | | |
| | Sidewalks/paths | ······ | O.DIS AC | | | |
| | Rooftops | | 0.59 AC. | | | |
| | Decks | | 0.053 | | | |
| | Other | | 0,18 AC | | | |
| | Impervious Surface Area | 0 | 1.283 AC. | | | |
| 3) | Imperviousness (I) | Imperviousness (I) | | | | |
| | Existing Imperviousness, Ipm | = Imperviou: | s Surface Area / Site Area | | | |
| | | = (Step 2a)/ | | | | |
| | | =0 | % | | | |
| · | Proposed Imperviousness, I _{post} | = Impervious | s Surface Area / Site Area | | | |
| | e secondo e | $= (3120)^{7}$ $= (1.283)^{7}$ | (Siep 1) (2.355) | | | |
| | | = <u></u> | % | | | |
| 8, Di | etine Development Category (ci | rcle) | | | | |
| 1) | New Development: Existing imperviousness less than 15% I (Go to Step 2A) | | | | | |
| 2) | Redevelopment: Existing imperviousness of <u>15%</u> I or more (Go to Step 2B) | | | | | |
| 3) | Single Lot Residential Development: Single lot being developed or improved; sing family residential development; and more than 250 square feet of impervious area and associated disturbance (Go to Section 5, Residential Approach, for detailed criteria and requirements). | | | | | |
| | | | | | | |

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Section 4.0 Standard Applicat

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Section 4.0 Standard Application Process

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Maryland Chesapeake and Atlantic Coastal Bays Critical Area 10% Rule Guidance Manual

4-13

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Section 4.0 Standard Application Process

Step 5: Identify Feasible BMP(s) Select BMP Options using the screening matrices provided in the Chapter 4 of the 2000 Maryland Stormwater Design Manual. Calculate the load removed for each option. BMP Type (L₀₀₃₄) x (BMPRE) x (% DA Served) = LA 3.115 x 50 d. x 100 = 1.5575 lbs/year WET POND 3.115 x 307 x 37.4 = 0.5825 lbs/year GAASS SWALE _____X____= ibs/vear X X _____ = ____ lbs/year Load Removed, LR (total) = 2.14 lbs/year Pollutant Removal Requirement, RR (from Step 4) = 2.055 lbs/year Where: Load Removed, LR Annual total phosphorus load removed by the proposed BMP (lbs/year) Average annual load of total phosphorus exported from the -DOST post-development site (lbs/year) BMP removal efficiency for total phosphorus, Table 4.8 (%) BMP_{RE} = Fraction of the site area within the critical area IDA served by % DA Served = the BMP (%) Pollutant removal requirement (lbs/year) RR If the Load Removed is equal to or greater than the Pollutant Removal Requirement computed in Step 4, then the on-site BMP complies with the 10% Rule. Has the RR (pollutant removal requirement) been met? M Yes Maryland Chesapeake and Atlantic Coastal Bays Critical Area 10% Rule Guidance Manual 4-14

10/27/05 15:21 FAX 4103523301

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|-----|------------------------------------------|----|-----------------|---------------------------|
| D | Pinus nigra var.nigra Austrian pine | 2 | 2 | 2 @ 200 S.F.= 400 S.F. |
| E . | Ilex glabra Inkberry | 91 | <u>74</u> 17 | 74 @ 75 S.F. = 5,550 S.F. |
| Ē | Magnolia virginiana Sweetbay magnolia | 7 | $\frac{1}{6}$ | 1 @ 200 S.F.= 200 S.F. |
| G | Salix babylonica Weeping willow | | <u>1</u> | 1 @ 200 S.F. = 200 S.F. |