BA 288-05 Harris Creek Trash
Bldg Permit Inceptor

MSA-S-1829-4761

Commast Stilles

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/

May 12, 2005

Mr. Kenneth Hranicky Environmental Planner Baltimore City Department of Planning 417 East Fayette Street, 8th Floor Baltimore, Maryland 21202

RE: Harris Creek Trash Interceptor Consistency Report

Dear Mr. Hranicky:

This office has reviewed a proposal for a trash interceptor installation at the mouth of Harris Creek at the Lakewood Avenue outfall. Installation will consist of a floating debris collector, anchor and access system.

This office understands:

- 1. That this project will not modify the existing drainage area to the Critical Area, add impervious surface or permanently impact any environmental resources;
- 2. That there are no negative impacts to submerged aquatic vegetation beds or tributary streams; and,
- 3. That there will be no pavement or structures being built on land.

The Commission staff has determined that the above proposed development: 1) has environmental or economic consequences that will largely be confined to the immediate area of the site on which the development is located, 2) does not substantially affect the Critical Area program of the local jurisdiction, and 3) is not considered by the Commission as major development. (See COMAR: Chapter Two, Regulations for Development in the Critical Area Resulting from State and Local Agency Programs).

Continued, Page Two Harris Creek Trash Interceptor Consistency Report May 12, 2005

Therefore, approval of the above project by the Commission is not necessary. If there are any changes in development that may affect the habitat within the area on site, this office would like to be notified at (410) 260-3483.

Sincerely,

Dawnn McCleary

Natural Resources Planner

cc: Regina Esslinger BA 288-05 MARTIN O'MALLEY Mayor



OTIS ROLLEY III
Director

April 26, 2005

Ms. Dawnn McCleary Chesapeake Bay Critical Area Commission 1804 West Street, Suite 100 Annapolis, Maryland 21401

Dear Ms. McCleary:

Re: Hawkins Creek Trash Interceptor Consistency Letter

Please find enclosed Site Plans and a Consistency Report for the installation of the Cityowned floating debris collector. The project consists of a floating debris collector, anchoring and access system. The project is located at the outfall of Harris Creek adjacent to 2301 Boston Street. The primary objective is to remove debris before entering the harbor. There is no pavement or structure being built on land. All of the projects surfaces are pervious consisting of cables, netting, buoys, and a service walkway that is a non-skid grating (i.e. perforated to allow no water accumulation for safety reasons). The proposed project will not modify the existing drainage area to the Critical Area, add impervious surface or permanently impact any environmental resources. Hawkins Creek is completely covered. There will be no negative impact to submerged aquatic vegetation beds or tributary streams.

A review of the Consistency Report for this project shows that the proposed action is consistent with the City's Critical Area Management Program (CAMP). If you have any questions about this project or the attached report, please contact Mr. Kenneth Hranicky at 410-396-8356.

Sincerely,

Otis Rolley, III

Director

OR/ds/kh

Enclosures

Cc: Mr. Duncan Stuart, Department of Planning

File Copy

CITY OF BALTIMORE CHESAPEAKE BAY CRITICAL AREA MANAGEMENT PROGRAM

Worksheet A: Standard Application Process

Calculating Pollutant Removal Requirements * 1/12/04

Project Description

2) Site Imper	vithin the Critical Area IDA, Avious Surface Area, Existing a	and Proposed	
	(a) Existing (acres)	(b) Post-Development (acres)	
Rooftop	0.04	0.645	
Roads Sidewalks	0.0034	0.0034	
Parking lots Pools/ponds	0.024	0.0/9	
Decks Other			
	(1)		
Impervious Surface Area	0.0674	0.0674	
mperviousnes	s (I) pervious Surface Area/Site Ar	ea = (Sten 2a)/(Sten1)= /00 %	

B. Define Development Category (circle)

Step 1:

1) Redevelopment

Existing imperviousness greater that 15% I (Go to Step 2A)

2) New development

Existing imperviousness less that 15% I (Go to Step 2B)

*NOTE: All acreage used in this worksheet refer to areas within the Intensely Developed Area ECEIVED of the Critical Area only

MAY 4 2005

CRITICAL AREA COMMISSION

Step 2: Calculate the Pre-Development Load (Lpre)

A. Redevelopment

Lpre = (Rv) (C) (A) (8.16)
Rv =
$$0.05 + 0.009$$
 (Ipre)
= $0.05 + 0.009$ (0.009) = 0.95
Lpre = 0.95) (0.0674) 8.16
= 0.16 lbs/year of total phosphorous

Where:

Lpre Average annual load of total phosphorous exported from the site prior to development (lbs/year) Runoff coefficient, which expresses the fraction of rainfall which is Rv converted into runoff Pre-development (existing) site imperviousness (i.e., I=75 if site is 75% **Ipre** impervious) \mathbf{C} Flow-weighted mean concentration of the pollutant (total phosphorous) in urban runoff 0.30 (milligrams per liter) Α Area of the site within the Critical Area Intensely Developed Area (IDA) in acres 8.16 Includes regional constants and unit conversion factors

B. New Development

Step 3: Calculate the Post-Development Load (L Post)

A. New Development and Redevelopment

Lpost =
$$(Rv)(C)(A)(8.16)$$

$$Rv = 0.05 + 0.009 (I_{post})$$

$$= 0.05 + 0.009 (100) = 0.950$$

Lpost =
$$(.95)(.3)(.0674)(8.16)$$

$$=$$
 $O./6$ lbs P/year

where:

Lpost = Average annual load of total phosphorous exported from the post development site (lbs/year)

Rv = Runoff coefficient, which expresses the fraction of rainfall which is Converted into runoff

Ipost = Post-development (proposed) site imperviousness (i.e., I = 75 if site is 75% impervious)

C = Flow-weighted mean concentration of the pollutant (total phosphorous) in urban runoff

C = 0.30 milligrams per liter

A = Area of the site within the Critical Area Intensely Developed Area (IDA) in acres

8.16 = Includes regional constants and unit conversion factors

Step 4: Calculate the Pollutant Removal Requirement (RR)

RR =
$$L_{post} - (0.9) (L_{pre})$$

= $(1/6) - (0.9) (1/6)$
= 0.06 lbs/year of total phosphorous

Where:

RR = Pollutant removal requirement (lbs/year)

Lpost = Average annual load of total phosphorous exported from the post development site (lbs/year)

Lpre = Average annual load of total phosphorous exported from the site prior to development (lbs/year)

Step 5: Identify Feasible Urban BMP

Select Best Management Practice options from the 2003 10% Rule Guidance Manual, Table 4.8 (%) at the Critical Area WEB site: http://www.dnr.state.md.us/criticalarea/ Calculate the load removed for each option.

BMP	(Lpost)	x	(BMPre)	(% D	A Served)	LR
		x		x		=lbs/year
		x		x		=lbs/yea
• •		x		x	· · .	= lbs/yea
		x		x		= lbs/yea

	•.,	Load Removed, LR (total)	=lbs/year
	Pollutant	Removal Requirement, RR (from Step 4)	=lbs/year
Where:			e de la companya de La companya de la co
Load Remove	•	nnual total phosphorous load removed by bs/year)	the proposed BMP
Lpost =	Average annual l site (lbs/year)	oad of total phosphorous exported from the	ne post development
BMPre=	BMP removal eff	ficiency for total phosphorus, Table 4.8 (%	%)
% DA Served =	Fraction of the si	te area within the Critical Area IDA serve	d by the BMP (%).
RR =	Pollutant remova	l requirement (lbs/year)	
HAS THE RI	R (POLLUTANT	REMOVAL REQUIREMENT) BEEN	MET?
YES	$X_{ m NO}$		
		or greater than the pollutant removal require PMP entire according with the 10%	, ,

CRITICAL AREA STORMWATER OFFSET FEE CALCULATION FOR THE 10% POLLUTANT REMOVAL REQUIREMENT

1/02/2005

Using information from Worksheet A, calculate the offset fee:

RR = Pollutant Removal Requirement

LR = Annual total phosphorous load removed by the proposed BMP

Offset Fee en lieu: (RR – LR) x \$35,000

 $(.0/6 - 0.0) \times $35,000 = 598.6$

CRITICAL AREA LANDSCAPE OFFSET FEE CALCULATION FOR THE 15% LANDSCAPE REQUIREMENT

1/02/2005

Using information from Worksheet A, calculate the offset fee: Landscape Fee in lieu based on number of 2.5 inch caliper trees

A = Area of site in square feet

 $A \times (.15) = B$

 $(2935.9\%) \times (.15) = 440.39$

B/43,560 = C

440.39 / 43,560 = 0.0/0/

 $C \times 100 = \# \text{ of } 2.5$ " caliper trees required

0.0/0/1001 x 100 = 1.0//

Price/tree - \$200.00

(# of 2.5" caliper trees required) x \$200.00 = Landscape Fee in lieu

1.0/1 x 200 = \$ 202.20

revised out 5/11/05

Harris Creek Trash Interceptor Consistency Report

The City of Baltimore is proposing to install a trash interceptor at the mouth of Harris Creek. We have enclosed site plans and Worksheet A for the project. The project consists of a floating debris collector, anchoring and access system. There is no pavement or structure being built on land. All of the project's surfaces are pervious consisting of cables, netting, buoys, and a service walkway that is a non-skid grating (i.e. perforated to allow no water accumulation for safety reasons).

The project is located in the water and is therefore considered within the buffer.

SOILS	200
No part of this project is on land and no land is to be disturbed	in the installation of thi
project	
VEGETATION AND MITIGATION	
There are existing street trees, which will be say	red, and0
additional 0 will be planted. Additionally, 0	# will be planted.
TIDAL WETLANDS AND FLOODPLAIN	4.3

RARE AND ENDANGERED PLANTS AND ANIMALS

There are no known Federal or State threatened or endangered plant or wildlife species present at this time.

WATER QUALITY IMPROVEMENT

This project is located in the water.

The proposed project does not reduce phosphorous but will improve water quality.

If there are questions regarding this report, please call Kenneth Hranicky at (410)-396-8356.

CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS BUREAU OF WATER AND WASTEWATER ENVIRONMENTAL SERVICES DIVISION

NO.	DESCRIPTION						
1	TITLE SHEET						
2	GENERAL PLAN AND ELEVATION						
3	PLAN AND SECTION						
4	MISCELLANEOUS DETAILS						



CONTRACT NO. ER-4011 HARRIS CREEK DEBRIS COLLECTOR -

SEDIMENT AND EROSION CONTROL NOTE:

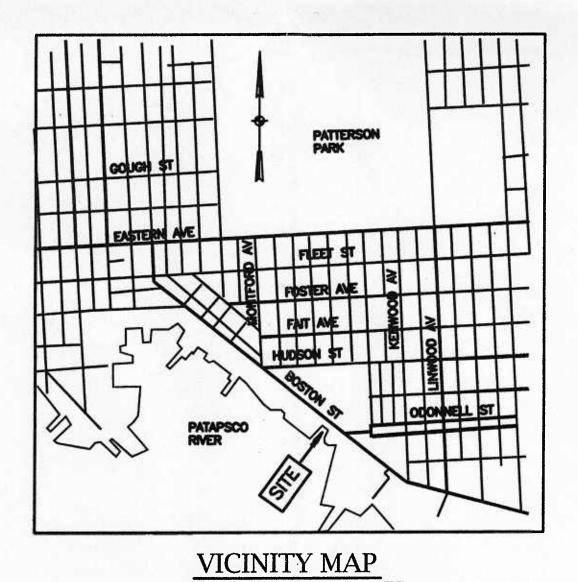
THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS FOR SEDIMENT AND EROSION CONTROL AS SET FORTH IN THE BALTIMORE CITY SEDIMENT AND EROSION CONTROL MANUAL.

STORMWATER MANAGEMENT:

THIS PROJECT INVOLVES DISTURBANCE OF LESS THAN 5,000 SQ. FT., THEREFORE IS EXCEMPT FROM REQUIREMENT OF THE BALTIMORE CITY STORMWATER MANAGEMENT DESIGN MANUAL UNDER SECTION III.A.(2).

NOTES:

- 1.) ALL COURSES AND COORDINATES SHOWN HEREON ARE BASED UPON THE BALTIMORE CITY SURVEY CONTROL SYSTEM AND ARE REFERENCED TO THE FOLLOWING TRAVERSE STATIONS:
 - 27858 N -5590.0100 E 10525.8020 32607 N -5609.1740 E 10128.8720
- 2.) THE ELEVATIONS SHOWN HEREON ARE REFERENCED TO MEAN LOW TIDE AS ADOPTED BY THE BALTIMORE SURVEY CONTROL SYSTEM AND ARE BASED ON BENCH MARK #6059 ELEV. 24.420.
- 3.) THE LOCATIONS OF UNDERGROUND UTILITIES AS SHOWN HEREON ARE BASED ON ABOVE GROUND STRUCTURES. LOCATIONS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY EXISTING LOCATIONS AND ELEVATIONS PRIOR TO CONSTRUCTION. ADDITIONAL BURIED UTILITIES OR STRUCTURES MAY BE ENCOUNTERED.



2000 0 1000 2000 3000 5000 SCALE: 1" = 2000'

BALTIMORE CITY REVIEW	R/W RELEASE	GRADE ESTABLISHED	HIGHWAY DESIGN	STRUCTURAL	DRAINAGE	LIGHTING	CONDUIT	EROSION AND SEDIMENT CONTROL	TRAFFIC ENGINEERING	SIGNAL ENGINEERING	WASTE WATER ENGINEERING	WATER ENGINEERING
BY												
DATE												

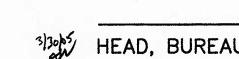
WALLACE,
MONTGOMERY
& ASSOCIATES, LLP
CIVIL AND STRUCTURAL ENGINEERS
110 WEST ROAD



William Stack SF

CHIEF, WATER QUALITY MANAGEMENT SECTION

CHIEF, ENVIRONMENTAL SERVICES DIVISION



1300 HEAD, BUREAU OF WATER & WASTEWATER

DIRECTOR OF PUBLIC WORKS

GENERAL NOTES

- 1. PERFORM WORK AND INSTALL MATERIALS IN ACCORDANCE WITH CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS SPECIFICATIONS FOR MATERIAL, HIGHWAYS, BRIDGES, UTILITIES, AND INCIDENTAL STRUCTURES, 1979.
- 2. REFERENCED DETAILS SHALL BE IN ACCORDANCE WITH THE CITY OF BALTIMORE DEPARTMENT OF PUBLIC WORKS BOOK OF STANDARDS.
- 3. ANY EXISTING GROUND DISTURBED BY CONTRACTOR'S OPERATIONS SHALL BE RESTORED TO ORIGINAL CONDITIONS. COSTS OF REPAIRS SHALL BE AT CONTRACTOR EXPENSE.
- 4. NOTIFY MISS UTILITY AT (800) 257-7777 AT LEAST FIVE (5) DAYS PRIOR TO BEGINNING WORK.
- 5. RIGHT-OF-WAY LINES SHOWN ON THESE DRAWINGS ARE FOR INFORMATION ONLY AND DO NOT REPRESENT THE OFFICIAL PROPERTY INFORMATION, SEE THE APPROPRIATE RIGHT-OF-WAY PLAT.

LEGEND EXISTING SANITARY SEWER MANHOLE TW 12.0 TOP WALL GRADE STORM DRAIN MANHOLE WATER MANHOLE SANITARY CLEANOUT WATER METER GAS METER DECIDUOUS TREE BUSH PRIVATE MAILBOX CONIFEROUS TREE FIRE HYDRANT WOODS/TREELINE SIGN POST - ELECTRIC POLE WOOD FENCE TRAVERSE CONTROL POINT LIGHT POLE - PROPERTY LINE TELEPHONE MANHOLE (N) ELECTRIC MANHOLE ---- - - - STREAM × 10.0 SPOT GRADE **PROPOSED**

DATE: APRIL, 2005

4 SHEETS IN SET SHEET 1 OF 4

TOWSON, MARYLAND 21204

