



**CHESAPEAKE BAY REVIEW COMMITTEE
City of Hampton, Virginia**

COMMITTEE MEMBERS: Billy Wood, Phillip Russell, Sharon Surita, Hannah Sabo, Lucy Stoll

**MEETING AGENDA
March 28, 2017**

**REGULAR MEETING
9:00 AM – CDD Conference Room, 5th Floor City Hall**

I. Public Hearing Items:

ZP17-00047: Davis and Associates, P.C., 79 Old Pond Ct., LRSN 13004361, a request to encroach into a portion of the one hundred (100) foot Resource Protection Area buffer to construct a new single-family dwelling.

As a courtesy to others during the meeting, please turn off cellular telephones or set them to vibrate.

Community Development Department, Planning & Zoning Administration Division

22 Lincoln Street | Hampton, Virginia 23669
www.hampton.gov | Hampton's 311: 757.727.8311 | O.757.727.6140

CITY OF HAMPTON· CHESAPEAKE BAY REVIEW COMMITTEE

STAFF EVALUATION

Meeting Date
March 28, 2017

Prepared By: Matt Smith, Senior Zoning Official

728-6077

Case: Chesapeake Bay Review (ZP17-00047) **Location:** 79 Old Pond Ct. (LRSN 13004361)
Owner: Marple Run LLC **Zoning District(s):** R-11 District – One Family Residential
Applicant: Davis & Associates, P.C.

Request

An exception to Sec. 9-14(2)(b), other restrictions applicable to the RPA, to encroach into a portion of the one hundred (100) foot Resource Protection Area buffer to construct a new single-family dwelling.

Existing Site Conditions

The site is currently undeveloped and cleared of vegetation.

Site History

- The site was rezoned in 2006 from R-13 to R-11 to allow development of up to 23 single family lots.
- The preliminary plat for the Marple Run subdivision was approved by the Planning Commission also in 2006.
- A zoning determination letter was issued by the Zoning Administrator in 2013 determining that the applicant has vested rights to develop the 23 lot subdivision.
- In 2014, the Chesapeake Bay Review Committee approved a request for an exception to clear the site subject to three conditions:
 - Clearing and grading shall be limited to necessary areas for drainage improvements required by the City Code.
 - All vegetation removed within the 100' RPA buffer shall be restored according to the DCR Riparian Buffer Modification and Mitigation Guidance Manual.
 - Any future structures proposed to encroach into the RPA buffer shall be brought before the Committee for approval.
- A subdivision development plan was approved in June 2015.

Evaluation

Staff have reviewed the application as it relates to Chapter 9, Article 2 of the Hampton Zoning Ordinance and evaluated the impact of the proposed development on water quality.

Applicable zoning provisions:

Section 9-16(4)(b): Exceptions to the requirements of Section 9-14 or subsection 9-16(1)(a)(i)—(iii) may be granted pursuant to the following;

(i) A request for an exception to the district regulations shall specify the hardship imposed by the regulations and identify, through a water quality impact assessment, the impacts of the proposed exception on water quality and lands within the O-CBP. The water quality impact assessment shall comply with the provisions of the stormwater management ordinance.

(ii) The review committee shall review the request and the accompanying water quality impact assessment and may grant the exception with such conditions and safeguards as deemed necessary to further the purpose and intent of this article if they find that:

1. Granting the exception will not confer upon the applicant any special privileges that are denied by this article to similarly situated property owners in the district;

2. The request is not based on self-imposed or self-created conditions or circumstances, nor does the request arise from conditions or circumstances, either permitted or nonconforming, that are related to adjacent parcels;
3. The request is the minimum necessary to afford relief;
4. The request will be consistent with the purpose and intent of the district and is not of substantial detriment to water quality;
5. Reasonable and appropriate conditions are imposed which will prevent the request from causing a degradation of water quality; and,
6. Other findings, as appropriate and required by the review committee, are met.

Additional considerations:

The intent of the Chesapeake Bay Preservation District is to reduce the amount of non-point source pollution entering the Chesapeake Bay. This is primarily achieved through the application of buffer areas around certain types of wetlands and water bodies. The applicant is proposing to restore the RPA buffer per the Virginia Department of Environmental Quality Riparian Buffer Modification and Mitigation Guidance Manual, as required by condition 3 of the 2014 Committee approval. Additionally, stormwater runoff from the subdivision is being treated through best management practices in accordance with state regulations.

Recommendation

Staff recommends that the Committee authorize encroachment into the RPA buffer with one condition.

1. Development in the RPA buffer shall be in substantial conformance with the plan prepared by Davis and Associates, P.C., titled "Lot 23 Marple Run", dated January 3, 2017.

Google Street View (2015)



O-CBP District - Chesapeake Bay Preservation Overlay





Application for
Chesapeake Bay Review Committee

OFFICE USE ONLY
Date Received:

ZP17-00047

Complete this application in its entirety and submit along with the required materials (listed in Step 2 below) to the following address:

City of Hampton, Community Development Department
22 Lincoln Street, 3rd Floor
Hampton, Virginia 23669

Application for (check one):

- Resolution of O-CBD boundary dispute
- Request authorization to encroach into the RPA buffer for:
 - Non-exempt road or driveway with or crossing the RPA
 - Development on lot/parcel recorded prior to October 1, 1989
 - Development on lot/parcel recorded October 1, 1989 – May 12, 2004
- Exception to the requirements of:
 - Section 9-14 2a, General Performance Criteria
 - Section 9-14 2b, Restrictions applicable to the RPA

1. PROPERTY INFORMATION

Address or Location #79 Old Pond Court (Marple Run - Lot 23)

LRSN 5001246

Zoning District R-11

2. SUBMITTAL REQUIREMENTS & DETAILS

All applications must include:

- (1) A recent, to scale physical survey of the property, prepared by licensed surveyor, that must include:
 - a. Environmental Site Assessment: RPA, RMA, IDA buffer areas, RPA features, and wetlands drawn and clearly labeled
 - b. Erosion and Sediment Control Plan; Silt Fences, Construction Entrances, etc.
 - c. All proposed improvements to the property; new buildings, new roads/infrastructure, etc.

; (2) Water Quality Impact Assessment (see attached); (3) Background Information (property deeds, recorded plats, date stamped photos, prior approvals, etc.); (4) application fee of \$75 for single-family residential uses, \$200 for all other uses, payable to the City of Hampton; (3) a brief written description of hardship or dispute (use following space or submit as a separate document);

Description of request:

The confirmed RPA is shown on the record subdivision plat. The proposed house construction, Venice model, and associated activities would be generally the same design and size of other houses in the area. Surface drainage from the site and house would be directed in a southerly direction, away from the RPA feature. Storm water leaving the site/house would be directed to an on-site Best Management Practice which mitigates pollutant removal, therefore water quality is greatly improved. A copy of the record subdivision plat is attached.

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FEB 06 2017

Additional information may be required at the Zoning Administrator's discretion

BY: _____

3. PROPERTY OWNER INFORMATION

An individual or a legal entity may be listed

Owner's Name Marple Run, LLC

Address 900 Briarfield Road

City Newport News State VA Zip 23605

Phone (757) 244-3592

Email _____

4. APPLICANT INFORMATION

(if different from owner)

Applicant's Name Davis & Associates, P.C.

Address 3630 Geo Wash Mem Hwy, Ste. G

City Yorktown State VA Zip 23693

Phone (757) 867-8583

Email StephenJM81@gmail.com

5. APPLICANT AGENT INFORMATION

(if different from applicant)

Agent's Name Donald W. Davis

Address 3630 Geo Wash Mem Hwy, Ste. G

City Yorktown State VA Zip 23693

Phone (757) 867-8583

Email DDavis@davisandassoc.net

5. CERTIFICATION FOR LEGAL ENTITY PROPERTY OWNERS

Complete this section only if the property owner is not an individual but rather a legal entity such as a corporation, trust, LLC, partnership, diocese, etc. as specified in Step 3 above.

"I hereby submit that I am legally authorized to execute this application on behalf of the fee-simple owner of this property. I have read this application and it is submitted with my full knowledge and consent. I authorize city staff and representatives to have access to this property for inspection. The information contained in this application is accurate and correct to the best of my knowledge."

Name(s), title(s), signature(s), and date(s) of authorized representative(s) of entity (attach additional page if necessary):

Name of Legal Entity Marple Run, LLC

Signed by: Name (printed) R. L. Mallory, Its (title) Manager

Signature [Signature] Date 2-6-17

Name (printed) _____, Its (title) _____

Signature _____ Date _____

6. CERTIFICATION FOR INDIVIDUAL PROPERTY OWNERS

Complete this section only if the property owner is an individual or individuals.

"I hereby submit that I am the fee-simple owner of this property. I have read this application and it is submitted with my full knowledge and consent. I authorize city staff and representatives to have access to this property for inspection. The information contained in this application is accurate and correct to the best of my knowledge."

Name(s), signature(s), and date(s) of owner(s) (attach additional page if necessary):

Signed by: Name (printed) _____

Signature _____ Date _____

Name (printed) _____

Signature _____ Date _____

R.P.A. MITIGATION CALCULATION:

TOTAL AREA IN R.P.A.: 5,855 SQ. FT.
 REQUIRED CREDITS: 5,855/400=15 CREDITS
 TO BE PROVIDED/REQUIREMENT:

15 CANOPY TREES, 30 UNDERSTORY
 TREES & 45 SHRUBS REQUIRED

ALL VEGETATION REMOVED WITHIN THE 100'
 RPA BUFFER SHALL BE RESTORED
 ACCORDING TO THE DCR RIPARIAN BUFFER
 MODIFICATION AND MITIGATION GUIDANCE
 MANUAL

THOSE PLANTINGS CAN BE LOCATED
 ANYWHERE ON THE LOT SINCE IT IS ALL IN
 THE CBPD

EXISTING VEGETATION MAY COUNT TOWARD
 THE REQUIREMENT BUT IT MUST BE ON
 LOT 23. PLANTINGS IN THE CITY
 RIGHT-OF-WAY WILL NOT COUNT TOWARD
 THE REQUIREMENT

OWNER INFORMATION:

MARPLE RUN, LLC
 C/O: ROBERT MALLORY
 900 BRIARFIELD ROAD
 NEWPORT NEWS, VA 23605
 (757) 244-3592
 RLMALLORY@MALLORYELECTRIC.COM

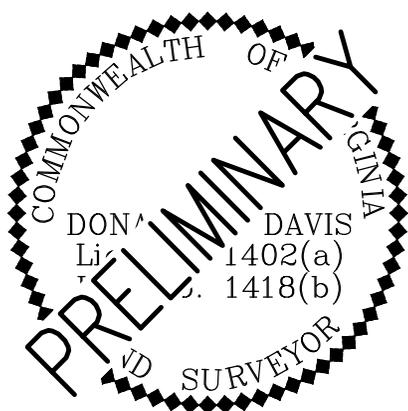
CONTRACT PURCHASER:

RYAN HOMES.
 C/O: ERIC SHIREY
 5360 DISCOVERY PARK DRIVE
 WILLIAMSBURG, VA 23188
 (757) 603-0802
 ESHIREY@NVRINC.COM

LINE TABLE

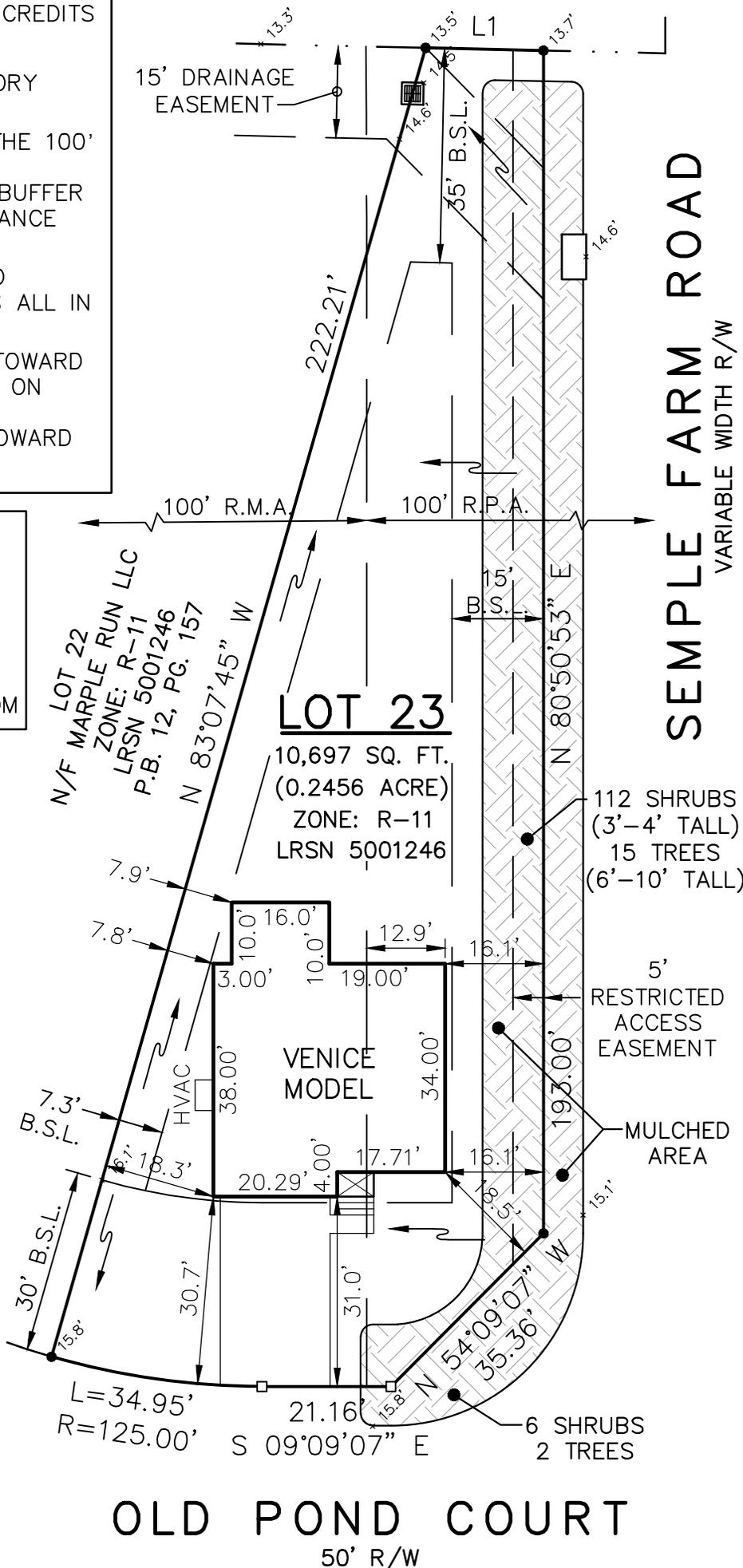
LINE	BEARING	LENGTH
L1	N 07°51'19" W	19.33'

RECORD NORTH
 P.B. 12, PG. 157



DAVIS & ASSOCIATES, P.C.
 SURVEYORS - PLANNERS
 YORK COUNTY, VIRGINIA

N/F UNITED STATES OF AMERICA
 ZONE: R-13
 LRSN: 5001387



OLD POND COURT
 50' R/W

JOB LOCATION: #79 OLD POND COURT

LOT 23
MARPLE RUN
 CITY OF HAMPTON, VIRGINIA
 PLAT BOOK 12, PG. 157

CURVE TABLE

NUMBER	ARC LENGTH	RADIUS	TANGENT	CHORD LENGTH	CHORD DIRECTION	DELTA ANGLE
C1	L=203.93'	R=225.00'	109.57'	197.02'	N 71°28'24" E	51°55'52"
C2	L=145.28'	R=175.00'	77.12'	141.15'	N 69°17'26" E	47°33'57"
C3	L=157.71'	R=125.00'	91.30'	147.46'	N 56°55'46" E	72°17'19"
C4	L=65.31'	R=125.00'	33.42'	64.57'	N 05°49'00" E	29°56'13"
C5	L=39.27'	R=25.00'	25.00'	35.36'	N 54°09'07" W	90°00'00"
C6	L=38.68'	R=25.00'	24.42'	34.94'	S 35°10'25" W	88°39'03"
C7	L=91.44'	R=175.00'	46.79'	90.40'	S 05°49'00" W	29°56'13"
C8	L=220.79'	R=175.00'	127.82'	206.44'	S 56°55'46" W	72°17'19"
C9	L=103.77'	R=125.00'	55.09'	100.82'	S 69°17'26" W	47°33'57"
C10	L=249.25'	R=275.00'	133.92'	240.61'	S 71°28'24" W	51°55'52"

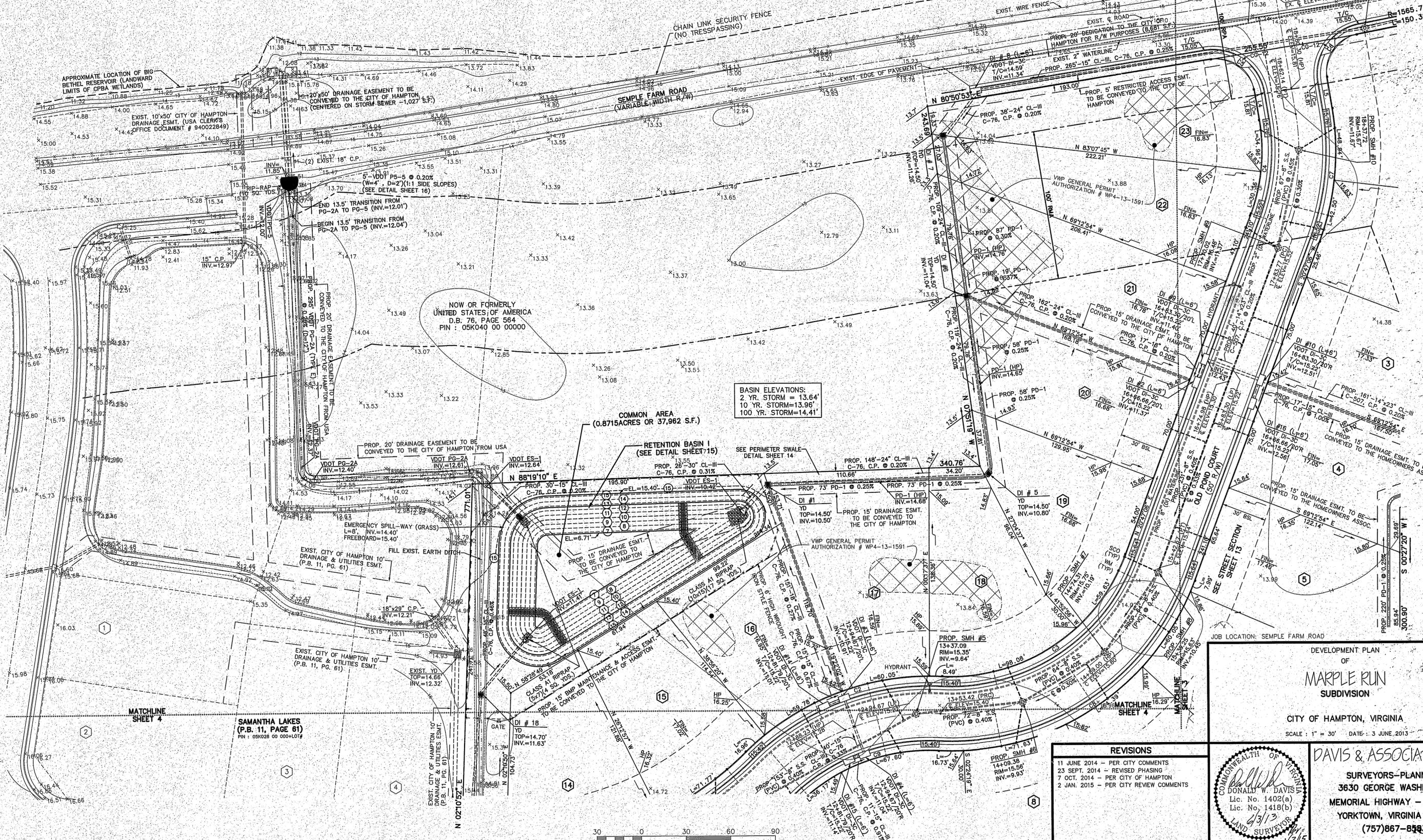
LINE TABLE

NUMBER	DIRECTION	DISTANCE
L1	N 75°20'50" E	26.67'
L2	N 02°08'06" E	9.53'
L3	S 82°34'38" E	4.60'
L4	N 09°09'07" W	21.16'
L5	S 09°09'07" E	21.60'

LOT AREA TABLE

LOT	AREA (S.F.)	AREA (ACRES)	LOT	AREA (S.F.)	AREA (ACRES)
LOT 1	10,976.67	(0.249 ACRES)	LOT 13	9,622 S.F.	(0.2208 ACRES)
LOT 2	14,410 S.F.	(0.3309 ACRES)	LOT 14	9,024 S.F.	(0.2072 ACRES)
LOT 3	14,074 S.F.	(0.3231 ACRES)	LOT 15	9,014 S.F.	(0.2069 ACRES)
LOT 4	9,843 S.F.	(0.2260 ACRES)	LOT 16	9,013 S.F.	(0.2069 ACRES)
LOT 5	10,518 S.F.	(0.2415 ACRES)	LOT 17	12,073 S.F.	(0.2772 ACRES)
LOT 6	16,657 S.F.	(0.3824 ACRES)	LOT 18	9,078 S.F.	(0.2083 ACRES)
LOT 7	12,631 S.F.	(0.2900 ACRES)	LOT 19	9,038 S.F.	(0.2075 ACRES)
LOT 8	9,034 S.F.	(0.2074 ACRES)	LOT 20	10,434 S.F.	(0.2395 ACRES)
LOT 9	9,549 S.F.	(0.2192 ACRES)	LOT 21	13,110 S.F.	(0.3010 ACRES)
LOT 10	9,513 S.F.	(0.2184 ACRES)	LOT 22	10,973 S.F.	(0.2519 ACRES)
LOT 11	11,259 S.F.	(0.2585 ACRES)	LOT 23	16,976 S.F.	(0.3877 ACRES)
LOT 12	8,003 S.F.	(0.2067 ACRES)	COMMON	22,588 S.F.	(0.5185 ACRES)

NOTE: LAND DISTURBANCE WITHIN THE CHESAPEAKE BAY RESOURCE PROTECTION AREA (RPA) SHALL BE MINIMUM NECESSARY TO INSTALL PROPOSED INFRASTRUCTURE AND ACHIEVE POSITIVE DRAINAGE. THE BUFFER SHALL BE RESTORED IN ACCORDANCE WITH THE RIPARIAN BUFFER MODIFICATION AND MITIGATION GUIDANCE MANUAL (SEE SHEET 18 FOR BUFFER MITIGATION PLAN)



BASIN ELEVATIONS:
 2 YR. STORM = 13.64'
 10 YR. STORM = 13.96'
 100 YR. STORM = 14.41'

COMMON AREA
 (0.8715 ACRES OR 37,962 S.F.)

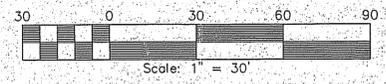
NOW OR FORMERLY
 UNITED STATES OF AMERICA
 D.B. 76, PAGE 564
 PIN : 05K040 00 00000

DEVELOPMENT PLAN
 OF
MARPLE RUN
 SUBDIVISION
 CITY OF HAMPTON, VIRGINIA
 SCALE: 1" = 30' DATE: 3 JUNE 2013

- REVISIONS
- 11 JUNE 2014 - PER CITY COMMENTS
 - 23 SEPT. 2014 - REVISED PHASING
 - 7 OCT. 2014 - PER CITY OF HAMPTON
 - 2 JAN. 2015 - PER CITY REVIEW COMMENTS



DAVIS & ASSOCIATES
 SURVEYORS-PLANNERS
 3630 GEORGE WASHINGTON
 MEMORIAL HIGHWAY - S
 YORKTOWN, VIRGINIA 23091
 (757)867-8583



MADE RUN
 OS-0398
 6/20/14

Worksheet 1

Page 1 of 3

STEP 1 Determine the applicable area (A) and the post-developed impervious cover (I_{post}).

Applicable area (A)* = 7.47 acres

Post-development impervious cover:

(LOT DEVELOPMENT) structures = 3.16 acres (137,792 ft²) [53.5% OF LOT AREA]

parking lot = _____ acres

roadway = 0.95 acres (41,169 ft²)

other:

_____ = _____ acres

_____ = _____ acres

Total = 4.11 acres (178,961 ft²)

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JUN 24 2014

BY: _____

$I_{post} = (\text{total post-development impervious cover} \div A) \times 100 = \underline{55} \%$

* The area subject to the criteria may vary from locality to locality. Therefore, consult the locality for proper determination of this value.

STEP 2 Determine the average land cover condition ($I_{watershed}$) or the existing impervious cover ($I_{existing}$).

Average land cover condition ($I_{watershed}$):

If the locality has determined land cover conditions for individual watersheds within its jurisdiction, use the watershed specific value determined by the locality as $I_{watershed}$.

$I_{watershed} = \underline{34} \%$

Otherwise, use the Chesapeake Bay default value:

$I_{watershed} = 16\%$

Worksheet 1

Page 2 of 3

Existing impervious cover ($I_{existing}$):

Determine the existing impervious cover of the development site if present.

Existing impervious cover:

structures = 0 acres

parking lot = — acres

roadway = 0 acres

other:

 = — acres

 = — acres

Total = 0 acres

$$I_{existing} = (\text{total existing impervious cover} \div A^*) \times 100 = \underline{0} \%$$

* The area should be the same as used in STEP 1.

STEP 3 Determine the appropriate development situation.

The site information determined in STEP 1 and STEP 2 provide enough information to determine the appropriate development situation under which the performance criteria will apply. Check (•) the appropriate development situation as follows:

 Situation 1: This consists of land development where the existing percent impervious cover ($I_{existing}$) is less than or equal to the average land cover condition ($I_{watershed}$) and the proposed improvements will create a total percent impervious cover (I_{post}) which is less than or equal to the average land cover condition ($I_{watershed}$).

$$I_{post} \text{ } \underline{\hspace{1cm}} \% \bullet I_{watershed} \text{ } \underline{\hspace{1cm}} \%$$

Worksheet 1

Page 3 of 3

Situation 2: This consists of land development where the existing percent impervious cover ($I_{existing}$) is less than or equal to the average land cover condition ($I_{watershed}$) and the proposed improvements will create a total percent impervious cover (I_{post}) which is greater than the average land cover condition ($I_{watershed}$).

$$I_{existing} \text{ } \underline{4} \text{ \%} < I_{watershed} \text{ } \underline{34} \text{ \%}; \text{ and}$$

$$I_{post} \text{ } \underline{55} \text{ \%} > I_{watershed} \text{ } \underline{34} \text{ \%}$$

Situation 3: This consists of land development where the existing percent impervious cover ($I_{existing}$) is greater than the average land cover condition ($I_{watershed}$).

$$I_{existing} \text{ } \underline{\quad} \text{ \%} > I_{watershed} \text{ } \underline{\quad} \text{ \%}$$

Situation 4: This consists of land development where the existing percent impervious cover ($I_{existing}$) is served by an existing stormwater management BMP(s) that addresses water quality.

If the proposed development meets the criteria for development Situation 1, than the low density development is considered to be the BMP and no pollutant removal is required. The calculation procedure for Situation 1 stops here. If the proposed development meets the criteria for development Situations 2, 3, or 4, then proceed to STEP 4 on the appropriate worksheet.

Worksheet 2 : Situation 2

Page 1 of 4

Summary of Situation 2 criteria: from calculation procedure **STEP 1** thru **STEP 3**, Worksheet 1:

$$\text{Applicable area (A)*} = \underline{7.47} \text{ acres}$$

$$I_{\text{post}} = (\text{total post-development impervious cover} \div A) \times 100 = \underline{55} \%$$

$$I_{\text{watershed}} = \underline{34} \% \text{ or } I_{\text{watershed}} = 16\%$$

$$I_{\text{existing}} = (\text{total existing impervious cover} \div A^*) \times 100 = \underline{\cancel{0}} \%$$

$$I_{\text{existing}} \underline{\cancel{0}} \% < I_{\text{watershed}} \underline{34} \% ; \text{ and}$$

$$I_{\text{post}} \underline{55} \% > I_{\text{watershed}} \underline{34} \%$$

STEP 4 Determine the relative pre-development pollutant load (L_{pre}).

$$L_{\text{pre(watershed)}} = [0.05 + (0.009 \times I_{\text{watershed}})] \times A \times 2.28 \quad (\text{Equation 5-16})$$

where: $L_{\text{pre(watershed)}}$ = relative pre-development total phosphorous load (pounds per year) $I_{\text{watershed}}$ = average land cover condition for specific watershed or locality or the Chesapeake Bay default value of 16% (percent expressed in whole numbers)

A = applicable area (acres)

$$\begin{aligned} L_{\text{pre(watershed)}} &= [0.05 + (0.009 \times \underline{34})] \times \underline{7.47} \times 2.28 \\ &= \underline{6.010} \text{ pounds per year } \checkmark \end{aligned}$$

Worksheet 2 : Situation 2

Page 2 of 4

STEP 5 Determine the relative post-development pollutant load (L_{post}).

$$L_{\text{post}} = [0.05 + (0.009 \times I_{\text{post}})] \times A \times 2.28 \quad (\text{Equation 5-21})$$

where: L_{post} = relative post-development total phosphorous load (pounds per year)
 I_{post} = post-development percent impervious cover (percent expressed in whole numbers)
 A = applicable area (acres)

$$L_{\text{post}} = [0.05 + (0.009 \times \underline{55})] \times \underline{7.47} \times 2.28$$

$$= \underline{9.28} \text{ pounds per year} \quad \checkmark$$

STEP 6 Determine the relative pollutant removal requirement (RR).

$$RR = L_{\text{post}} \cdot L_{\text{pre(watershed)}}$$

$$RR = \underline{9.28} \cdot \underline{6.06}$$

$$= \underline{3.22} \text{ pounds per year}$$

STEP 7 Identify best management practice (BMP) for the site.

1. Determine the required pollutant removal efficiency for the site:

$$EFF = (RR \div L_{\text{post}}) \times 100 \quad (\text{Equation 5-22})$$

where: EFF = required pollutant removal efficiency (percent expressed in whole numbers)
 RR = pollutant removal requirement (pounds per year)
 L_{post} = relative post-development total phosphorous load (pounds per year)

$$EFF = (\underline{3.22} \div \underline{9.28}) \times 100$$

$$= \underline{35} \%$$

Worksheet 2 : Situation 2

Page 3 of 4

2. Select BMP(s) from Table 5-15 and locate on the site:

BMP 1: RETENTION BASIN I (3x WQ)

BMP 2: _____

BMP 3: _____

3. Determine the pollutant load entering the proposed BMP(s):

$$L_{BMP} = [0.05 + (0.009 \times I_{BMP})] \times A \times 2.28 \quad \text{(Equation 5-23)}$$

where: L_{BMP} = relative post-development total phosphorous load entering proposed BMP (pounds per year)
 I_{BMP} = post-development percent impervious cover of BMP drainage area (percent expressed in whole numbers)
 A = drainage area of proposed BMP (acres)

$$L_{BMP1} = [0.05 + (0.009 \times \underline{55})] \times \underline{7.15} \times 2.28$$

$$= \underline{8.80} \text{ pounds per year}$$

$$L_{BMP2} = [0.05 + (0.009 \times \underline{\hspace{1cm}})] \times \underline{\hspace{1cm}} \times 2.28$$

$$= \underline{\hspace{1cm}} \text{ pounds per year}$$

$$L_{BMP3} = [0.05 + (0.009 \times \underline{\hspace{1cm}})] \times \underline{\hspace{1cm}} \times 2.28$$

$$= \underline{\hspace{1cm}} \text{ pounds per year}$$

Worksheet 2 : Situation 2

Page 4 of 4

4. Calculate the pollutant load removed by the proposed BMP(s):

$$L_{\text{removed}} = \text{Eff}_{\text{BMP}} \times L_{\text{BMP}} \quad \text{(Equation 5-24)}$$

where: L_{removed} = Post-development pollutant load removed by proposed BMP (pounds per year)
 Eff_{BMP} = pollutant removal efficiency of BMP (expressed in decimal form)
 L_{BMP} = relative post-development total phosphorous load entering proposed BMP (pounds per year)

$$L_{\text{removed/BMP1}} = 2.40 \times 0.88 = 3.55 \text{ pounds per year}$$

$$L_{\text{removed/BMP2}} = \underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \text{ pounds per year}$$

$$L_{\text{removed/BMP3}} = \underline{\hspace{2cm}} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}} \text{ pounds per year}$$

5. Calculate the total pollutant load removed by the BMP(s):

$$L_{\text{removed/total}} = L_{\text{removed/BMP1}} + L_{\text{removed/BMP2}} + L_{\text{removed/BMP3}} + \dots \quad \text{(Equation 5-25)}$$

where: $L_{\text{removed/total}}$ = total pollutant load removed by proposed BMPs
 $L_{\text{removed/BMP1}}$ = pollutant load removed by proposed BMP No. 1
 $L_{\text{removed/BMP2}}$ = pollutant load removed by proposed BMP No. 2
 $L_{\text{removed/BMP3}}$ = pollutant load removed by proposed BMP No. 3

$$L_{\text{removed/total}} = 3.55 + \underline{\hspace{2cm}} + \underline{\hspace{2cm}} + \dots$$

$$= 3.55 \text{ pounds per year}$$

6. Verify compliance:

$$L_{\text{removed/total}} \cdot \text{RR}$$

$$\underline{3.55} \rightarrow \underline{3.22} \quad \text{criteria} \\ \text{satisfied}$$