

January 2, 2019

1841

Ms. Amanda Lessard, AICP, Assistant Town Planner Town of Windham Planning Department 8 School Road Windham, ME 04062

Response to Review Comments, Preliminary Subdivision & Site Plan Application: Cook Road Retirement Community

Dear Amanda,

We are pleased to provide the enclosed information in response to review comments from Town of Windham staff (Memo to Planning Board dated December 5, 2018 and Memo from Jon Earle Dated November 30, 2018), and to address comments raised at the Planning Board meeting on Monday, December 10. This submission also incorporates comments from staff on a draft submission that we provided via e-mail on December 17, 2018.

Our response to specific items is noted below. The revised plan set is enclosed.

Response to Memo to Planning Board dated December 5, 2018

- 1. We will provide evidence of financial capacity under separate cover.
- Traffic generation for Senior Housing, Land Use Code 252 based on ITE Trip Generation Publication, 9th Edition:

Daily - 3.44 trips/unit = 158 trips

AM (Street) = 0.20/unit = 9 trips

AM (Generator) = 0.39/unit = 18

PM (Street) =0.25/unit = 12

PM (Generator) = 0.35/unit = 16

Saturday = 0.31/unit = 14 trips

- Sight Distance at entrances is noted on the Site Plan: Route 202 – 50 mph posted speed limit: 582' left, 1,447' right (495' required) Cook Road – 25 mph posted speed limit: 558' left, 662' right (200' required)
- Traffic Impact Study We respectfully request a waiver of this requirement based on the following factors: Marginal increase over the threshold requirement (158 daily trip vs 140 trips in Ordinance); Two entrances will be constructed; and sight distance exceeds MaineDOT and Ordinance Standards.
- 5. A nitrate plume plan is enclosed (Attachment 1).
- 6. Portland Water District reviewed the plans and provided comments, which have been incorporated on the Utility Plan. We are forwarding the revised plans to PWD for their review in providing the ability to serve letter.
- 7. We are in the process of preparing the Maine DEP Stormwater Law and NRPA permits for the project and will submit these with the Final Plan.
- 8. The Grading Plan now notes which buildings require roof drain filter strips.

- 9. Street lights at the two dead-end roads have been removed from the plans. The plans now note a pedestrian scale street light near the clubhouse at the intersection of High Garden Drive and Eastwatch Drive.
- 10. The plans have been revised to show three (3) 10' x 20' parking spaces at the clubhouse in addition to six (6) 9' x 18' parking spaces. Any additional parking for clubhouse activities could be accommodated on-street along Eastwatch Drive and Winterfell Road.
- 11. Test pit locations have been added to the plans.
- 12. Street trees have been added to the Site Plan as required by the Ordinance.
- 13. The requested note regarding no clearing of trees outside of designated limits within 5 years of Planning Board approval has been added to the plan.
- 14. Net Residential Density calculations have been added to the Site Plan.
- 15. Proposed landscaping is shown on Sheet C-1.0.
- 16. The Standard Private Road note and Standard Conditions of Approval will be shown on the Subdivision Plan, which will be prepared by Wayne T. Wood & Co. and submitted with the Final Plan.
- 17. The project site is located primarily in the Black Brook watershed. A small area at the west side of the property (0.8 ac) drains to the Pleasant River (See Attachment 2 "USGS Watersheds").

Response to Memo from Jon Earle dated November 30, 2018: Our response is provided on Attachment 3.

Additional Comment from Jon Earle (e-mail dated December 21, 2018)

Comment: Was LIDAR survey data used as the basis for the existing conditions topography? If so, we would ask that prior to final plan submission that the constructed stormwater BMPs be field surveyed to verify that the topography and grading for the BMPs can be constructed as shown.

Response: LiDAR data was used to generate existing ground topography shown on the plans. We suggest that the requirement for ground topographic survey at gravel wetland #1, gravel wetland #2 and filter basin #1 be made a condition of preliminary plan approval.

Planning Board Meeting Abutter Comments:

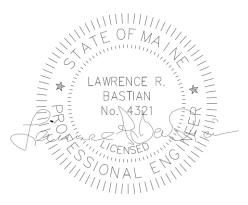
The owner of the abutting property to the west (Melanie Gleason) questioned whether construction of the project would increase runoff and cause flooding on their property, specifically at a wetland located at the rear of their property near the power lines. As shown in the stormwater calculations, the pre-development area draining onto the abutting property at this location is 0.80 acres (sub-catchment 4). The post-development area will be reduced to approximately 0.4 acres at this location. Post-development flows are calculated to be less than pre-development, as stated in the Stormwater Narrative. We do not anticipate any adverse downstream impacts. The remainder of the development property drains to the Black Brook watershed as noted in item 17 above.

We believe this material addresses the comments that were raised relative to the preliminary application. Please let me know if you want us to deliver copies of the revised plan set.



We are hopeful that this project can be on the agenda for the January 14, 2019 Planning Board meeting. Please contact us if you have any questions as you review the enclosed plans and information.

Prepared by:







Bath Savings Institution

January 10, 2019

Town of Windham Maine

Subject: James Cummings Project- 46 unit over 55 Condominiums

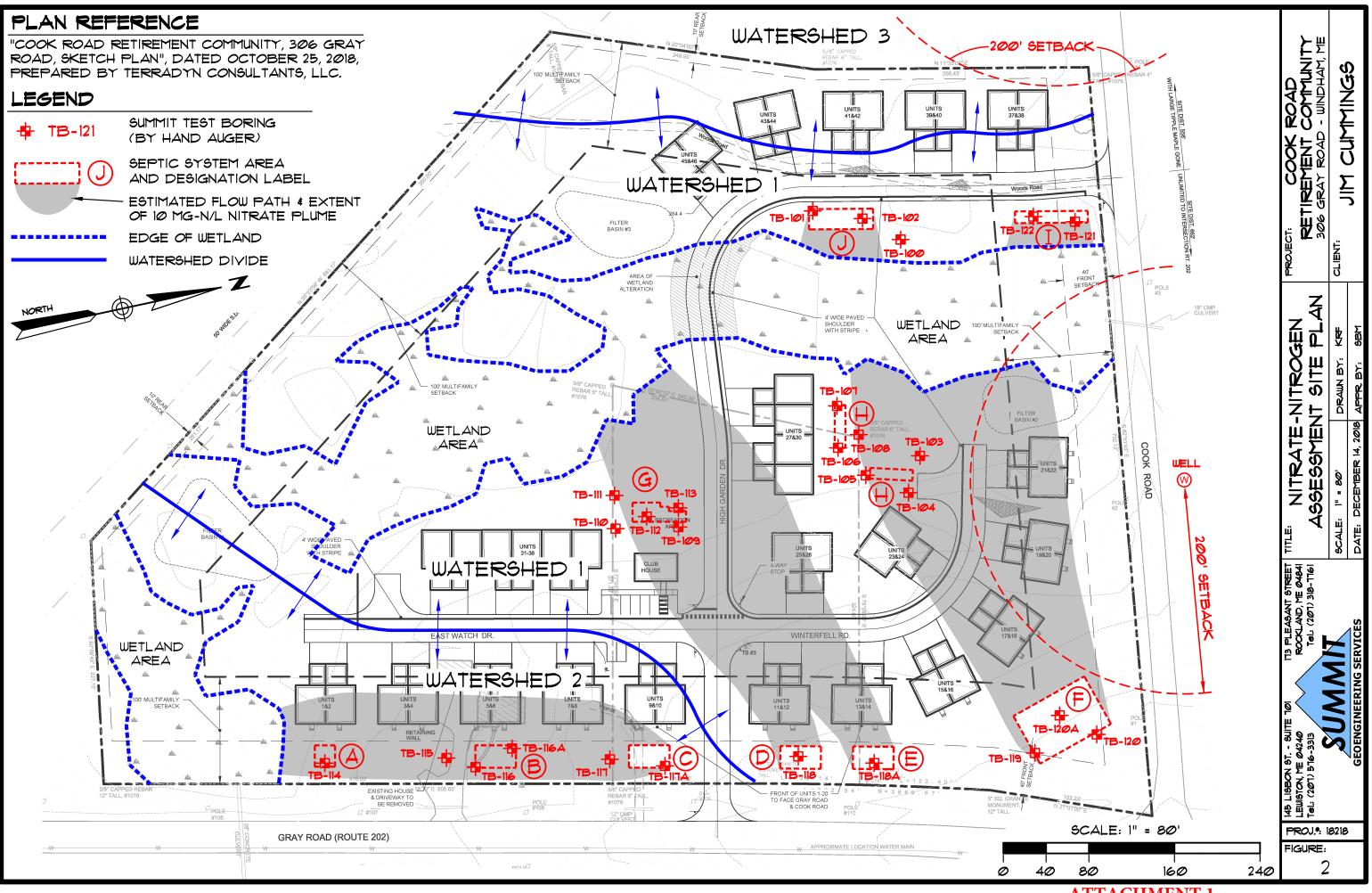
To whom it may concern:

Bath Savings Institution has an existing banking relationship with James Cummings. I am aware of the over 55 Condominium project Jim is looking to pursue in Windham and he has indicated he will look to have Bath Savings finance the project. Based on my experience with James Cummings, I look forward to entertaining the financing request upon a complete financial package of the project.

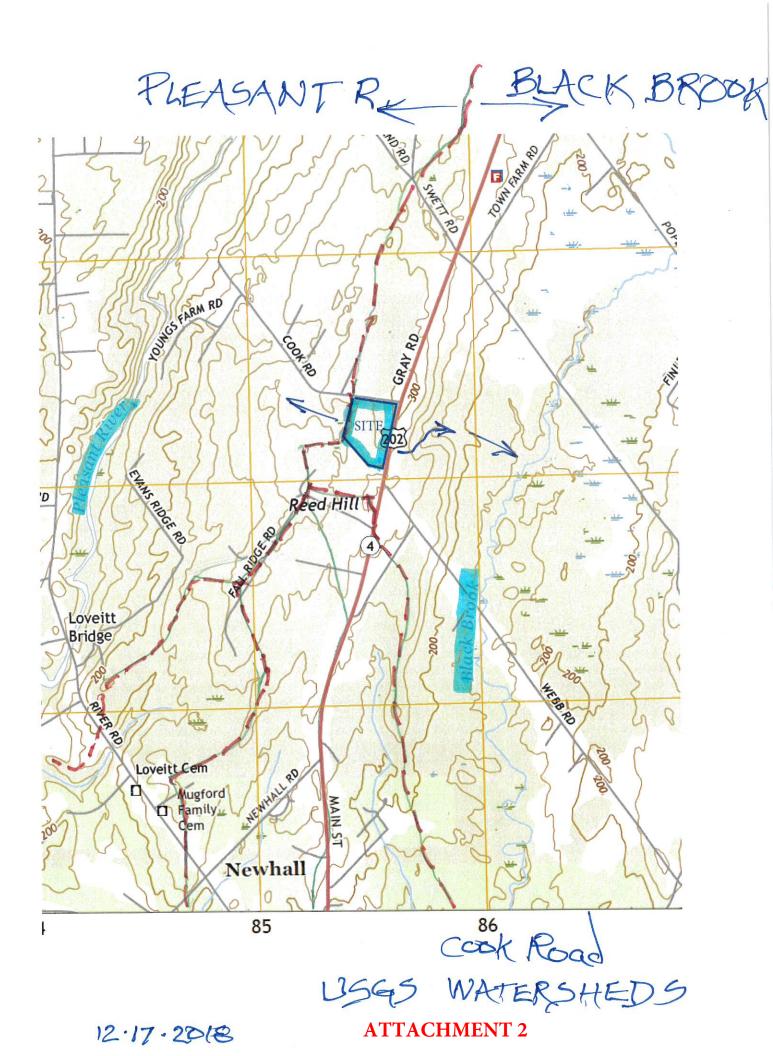
If you need further information, please contact me at (207) 371-4208.

Sincerely,

Brian C. Desjardins Vice President/Commercial Lending



ATTACHMENT 1



TERRADYN RESPONSE TO COMMENTS NOTED IN BOLD ITALICS

From:Jonathan R. EarleSent:Friday, November 30, 2018 3:09 PMTo:'Jeff Amos, P.E. '; Amanda L. LessardSubject:18-31 Cook Road Retirement Community - Preliminary Plan Review
Comments

Jeff & Amanda,

Below are my review comments for the project:

 High Intensity Soils Waiver – The waiver request is reasonable from a stormwater standpoint based on the assumption of Class 'C' and 'D' soils in the wetland and non-wetland areas. In recent projects, we have asked the site evaluator to make a determination (based on the test pits) that the soils are generally consistent with the Medium Intensity Survey. This additional information would provide a stronger justification for the waiver.

Waiver approved 12/10/2018

- 2. Traffic:
 - a. Provide the sight distances at the site intersections on Cook and Gray Roads. *Noted on Sheet C-1.0, Site Plan*
 - b. The AM & PM peak hour trip generation (3 AM and 5 PM) seems low. I'm coming up with 12 PM peak, 9 AM peak, and 158 daily trip using ITE land use code 252 for 46 units of senior adult housing. Our ordinance requires a traffic impact study for subdivisions which generate more than 140 daily trips.

We re-checked and came up with the same numbers

3. Provide the ability to serve determination from PWD prior to final approval when it becomes available.

Pending

4. Will a plan be provided showing the nitrate plumes at each disposal field location. A statement from Steve Marcotte was provided which indicates that the nitrate discharge will be less than 10 mg/L at the property line, but a nitrate plume plan would be helpful in support of this criteria.

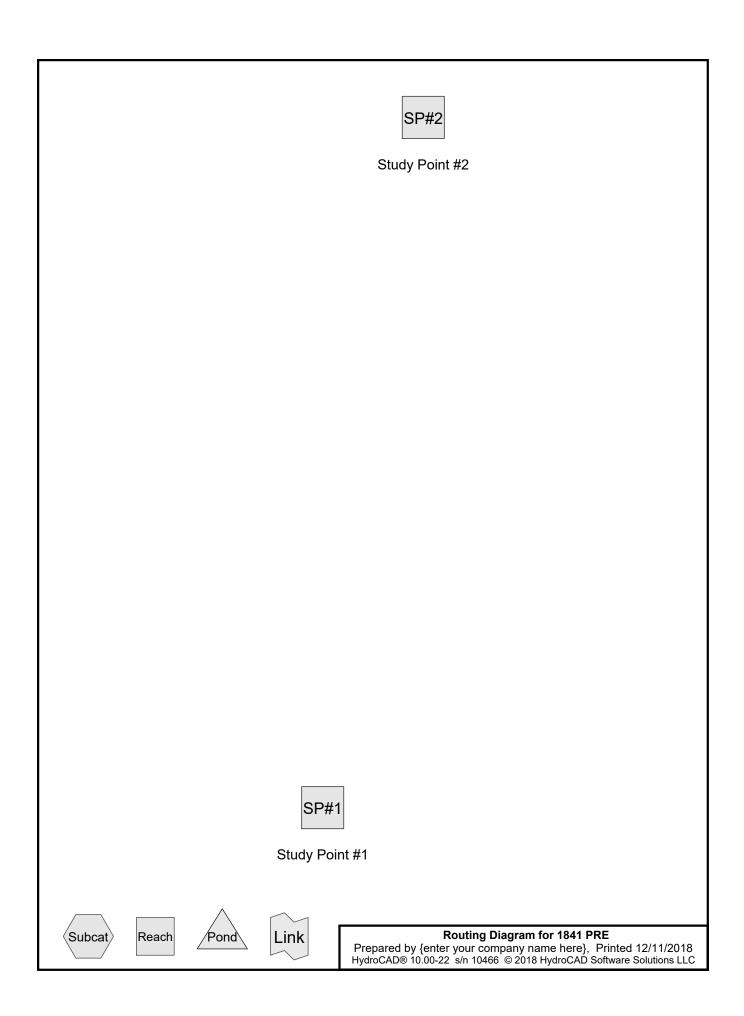
Submitted 12/17/2018

- 5. Stormwater
 - a. Basic Standards An erosion and sedimentation control plan has been provided that meet these standards.
 - b. General Standard The narrative indicates that 99 % of impervious and 84 % of the developed areas are being treated by BMP which exceeds the standard. Table is shown to confirm these calculations on Sheet C 6.1
 - c. Flooding Standard The narrative indicates the postdevelopment flows at the twostudy points are at or below predevelopment levels. The HydroCAD calculation for the predevelopment conditions do not include the study point reaches for each storm event. Please provide these to verify the table in the stormwater report narrative.

HydroCAD output for these study points is attached. Calculated flows match the previously submitted narrative.

d. Phosphorus Standard – N/A

Jon Earle, PE Town Engineer Town of Windham



Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points Runoff by SCS TR-20 method, UH=SCS, Weighted-CN Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Reach SP#1: Study Point #1

Inflow=7.55 cfs 2.278 af Outflow=7.55 cfs 2.278 af

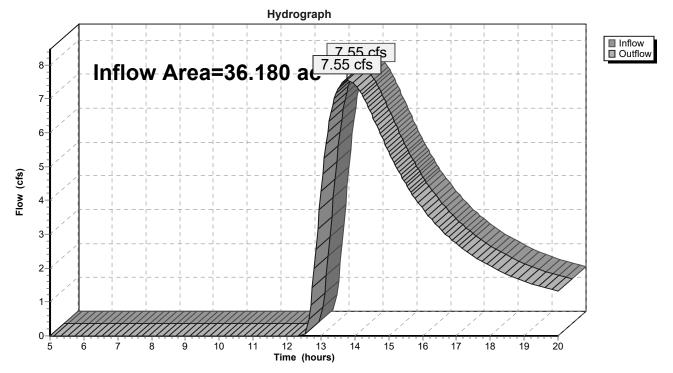
Reach SP#2: Study Point #2

Inflow=0.51 cfs 0.046 af Outflow=0.51 cfs 0.046 af

Summary for Reach SP#1: Study Point #1

Inflow Area	a =	36.180 ac,	4.06% Impervious, Infle	ow Depth > 0.76"	for 2 Year event
Inflow	=	7.55 cfs @	13.78 hrs, Volume=	2.278 af	
Outflow	=	7.55 cfs @	13.78 hrs, Volume=	2.278 af, Atte	en= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

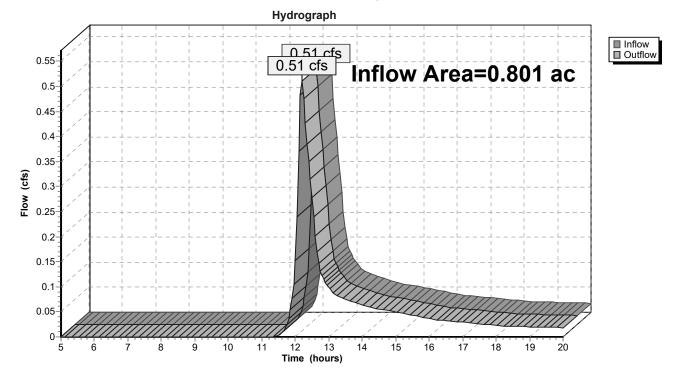


Reach SP#1: Study Point #1

Summary for Reach SP#2: Study Point #2

Inflow Area	a =	0.801 ac,	0.00% Impervious, I	Inflow Depth > 0.69	" for 2 Year event
Inflow	=	0.51 cfs @	12.20 hrs, Volume=	0.046 af	
Outflow	=	0.51 cfs @	12.20 hrs, Volume=	= 0.046 af, <i>A</i>	Atten= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs



Reach SP#2: Study Point #2

Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points Runoff by SCS TR-20 method, UH=SCS, Weighted-CN Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Reach SP#1: Study Point #1

Inflow=13.94 cfs 5.157 af Outflow=13.94 cfs 5.157 af

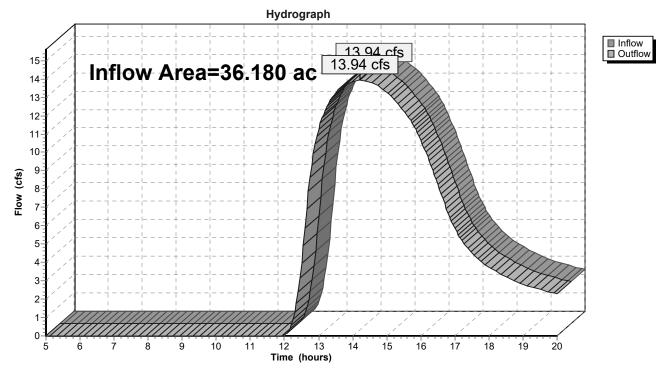
Reach SP#2: Study Point #2

Inflow=1.28 cfs 0.107 af Outflow=1.28 cfs 0.107 af

Summary for Reach SP#1: Study Point #1

Inflow Area	a =	36.180 ac,	4.06% Impervious, Inflow	v Depth > 1.71"	for 10 Year event
Inflow	=	13.94 cfs @	14.22 hrs, Volume=	5.157 af	
Outflow	=	13.94 cfs @	14.22 hrs, Volume=	5.157 af, Atte	en= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

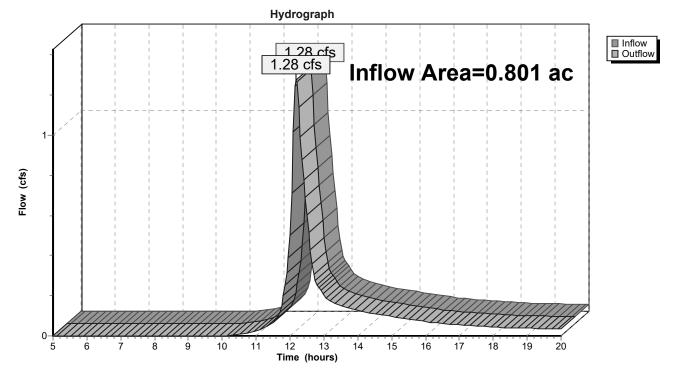


Reach SP#1: Study Point #1

Summary for Reach SP#2: Study Point #2

Inflow Area =	0.801 ac,	0.00% Impervious, Inflo	w Depth > 1.60"	for 10 Year event
Inflow =	1.28 cfs @	12.18 hrs, Volume=	0.107 af	
Outflow =	1.28 cfs @	12.18 hrs, Volume=	0.107 af, Atte	en= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs



Reach SP#2: Study Point #2

Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points Runoff by SCS TR-20 method, UH=SCS, Weighted-CN Reach routing by Dyn-Stor-Ind method - Pond routing by Dyn-Stor-Ind method

Reach SP#1: Study Point #1

Inflow=17.11 cfs 7.781 af Outflow=17.11 cfs 7.781 af

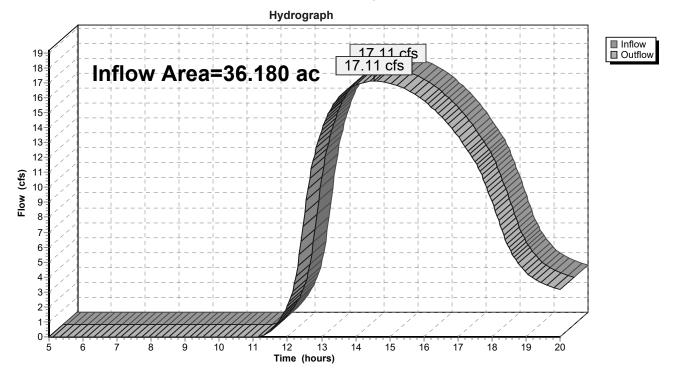
Reach SP#2: Study Point #2

Inflow=1.98 cfs 0.163 af Outflow=1.98 cfs 0.163 af

Summary for Reach SP#1: Study Point #1

Inflow Area	a =	36.180 ac,	4.06% Impervious, Inflow	v Depth > 2.58"	for 25 Year event
Inflow	=	17.11 cfs @	14.55 hrs, Volume=	7.781 af	
Outflow	=	17.11 cfs @	14.55 hrs, Volume=	7.781 af, Atte	en= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs

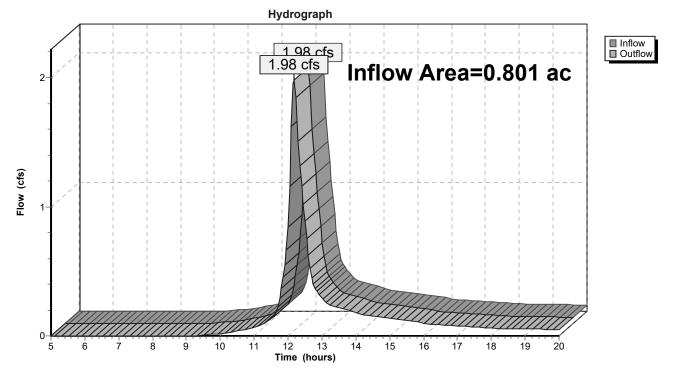


Reach SP#1: Study Point #1

Summary for Reach SP#2: Study Point #2

Inflow Area =	0.801 ac,	0.00% Impervious, In	flow Depth > 2.44"	for 25 Year event
Inflow =	1.98 cfs @	12.18 hrs, Volume=	0.163 af	
Outflow =	1.98 cfs @	12.18 hrs, Volume=	0.163 af, Atte	en= 0%, Lag= 0.0 min

Routing by Dyn-Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs



Reach SP#2: Study Point #2