

Final Report
Urban Nonpoint Source & Storm Water Construction & Targeted Runoff Management Small-scale Urban TMDL Grant Program

Form 3400-189U (03/16)

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NOTICE: This document is required under s. 281.65 & s. 281.66, Wis. Stats., and chs. NR 153, 154, and 155, Wis. Adm. Code. A final project report must be submitted as part of the final reimbursement request. Personally identifiable information contained in this form will be used for determining reimbursement eligibility in the Urban Nonpoint Source & Storm Water and Targeted Runoff Management Grant Programs and will not be used for any other purpose.

INSTRUCTIONS: Send the completed, electronic copy of this form and all attachments to the Department of Natural Resources (DNR) Region Nonpoint Source Coordinator. Please read all instructions prior to completion.

Grant Type		
☒ Urban Nonpoint Source Construction ☐ TRM Small-scale Urban TMDL		
Project & Location Information		
Governmental Unit Name		Grant Number
Village of Kimberly		USC-LF03-44141-15A
Project Name		
Memorial Pond		
County	Watershed Name	12-Digit HUC
Outagamie	Fox River	040302040205
Project Contact Name	Phone Number	E-mail Address
Danielle Block	(920) 788-7500	dblock@vokimberly.org
☐ For a project with multiple site locations, an aerial photo map is attached with each site location labeled.		

Site Location - 1				Additional sites may be added to the project by clicking the [+ Loc] button.			
Site Name				Nearest Receiving Waterbody			
Memorial Pond				Fox River			
Quarter/Quarter	Quarter	Section	Township	Range	E / W	Latitude	Longitude
SW	SW	21	21	18	E	44.27326	-88.33197
Summary of Results - 1				Additional BMPs may be added to this site by clicking the [+] button.			
Best Management Practice Installed		Surface Area (sq. ft.)	Drainage Area (Acres)	Load Reduction			Total Construction Cost
				TSS %	TSS (tons/yr)	P (lbs/yr)	N (lbs/yr)
Wet Detention Pond		55,321	120.4	76	14	70	

Site Location Attachment - 1	
Check the box if the required information for the site is attached:	
☒ Photos of pre-and post-implementation of BMP(s)	☒ Load reduction modeling documents
☒ Aerial photo map of site with BMPs labeled	☐ Water quality monitoring results/summary, if applicable
Site Information - 1	
<i>Narrative space will expand to fit.</i>	
The pre-development site for the Memorial Pond project was a municipal park with mowed lawn. The post-development pond site features a wet detention pond with fountains, a walking trail and retaining walls. The pond site is planted with native prairie grasses, wetland plants, trees and landscape bed plants and shrubs. The 120.4 acre watershed consists primarily of residential land uses. The Memorial Pond was designed to enhance water quality in the Fox River and assist with Municipal Stormwater Permit compliance by meeting TMDL goals for the Lower Fox River Mainstem Sub-Basin.	
☒ DNR may use this site as a success story to meet state and federal reporting needs.	

Additional Project Information
<i>Narrative space will expand to fit.</i>

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Grantee Certification

A responsible government official (authorized signatory) must authorize and date the final report form and submit it electronically to the DNR Regional Nonpoint Source Coordinator.

I certify that, to the best of my knowledge, the project is complete and the information contained in this final report and attachments is correct and true.

Name of Authorized Government Official	Title of Authorized Government Official	Date
Danielle Block	Village Administrator	06/21/2017

For DNR Use Only

☒ Received complete reports with all attachments. ☒ Practices implemented were consistent with the grant agreement.

Comments about this project:

Did site visit during final stages of the project. Native plantings were just being added. Overall the site looked great.

Name of Nonpoint Source Coordinator	Date
Eric Evensen <i>Eric Evensen</i>	7/25/17

Send the Final Report and attachments to the Community Financial Assistance Grants Manager and to the Runoff Management Grants Coordinator. Keep a printed copy for the Region file.



WDNR Project Location



Legend

- Rivers and Streams
- Open Water
- 2010 Air Photos (WROC)

Notes

0.1 0 0.05 0.1 Miles

NAD_1983_HARN_Wisconsin_TM
© Latitude Geographics Group Ltd.

DISCLAIMER: The information shown on these maps has been obtained from various sources, and are of varying age, reliability and resolution. These maps are not intended to be used for navigation, nor are these maps an authoritative source of information about legal land ownership or public access. No warranty, expressed or implied, is made regarding accuracy, applicability for a particular use, completeness, or legality of the information depicted on this map. For more information, see the DNR Legal Notices web page: <http://dnr.wi.gov/org/legal/>



Data file name: W:\PROJECTS\K0001\91400787\CADD\Civil3D\RecordDesign\SLAMM\Memorial Pond_Record.mdb

WinSLAMM Version 10.1.6

Rain file name: C:\WinSLAMM Files\Rain Files\WisReg - Green Bay WI 1969.RAN

Particulate Solids Concentration file name: C:\WinSLAMM Files\v10.1 WI_AVG01.pscx

Runoff Coefficient file name: C:\WinSLAMM Files\WI_SL06 Dec06.rsvx

Residential Street Delivery file name: C:\WinSLAMM Files\WI_Res and Other Urban Dec06.std

Institutional Street Delivery file name: C:\WinSLAMM Files\WI_Com Inst Indust Dec06.std

Commercial Street Delivery file name: C:\WinSLAMM Files\WI_Com Inst Indust Dec06.std

Industrial Street Delivery file name: C:\WinSLAMM Files\WI_Com Inst Indust Dec06.std

Other Urban Street Delivery file name: C:\WinSLAMM Files\WI_Res and Other Urban Dec06.std

Freeway Street Delivery file name: C:\WinSLAMM Files\Freeway Dec06.std

Apply Street Delivery Files to Adjust the After Event Load Street Dirt Mass Balance: False

Pollutant Relative Concentration file name: C:\WinSLAMM Files\WI_GEO03.ppdX

Cost Data file name:

Seed for random number generator: -42

Study period starting date: 01/02/69

Study period ending date: 12/28/69

Start of Winter Season: 11/25

End of Winter Season: 03/29

Date: 06-21-2017

Time: 09:00:27

Site information:

LU# 1 - Commercial: Downtown Commercial Total area (ac): 9.320

1 - Roofs 1: 3.796 ac. Flat Connected Connected

13 - Paved Parking 1: 2.145 ac. Connected Connected

25 - Driveways 1: 0.138 ac. Connected Connected

31 - Sidewalks 1: 0.778 ac. Connected Connected

37 - Streets 1: 1.860 ac. Smooth Street Length = 0.505144 curb-mi Street Width (assuming two curb-mi per street mile) = 60.76384 ft

Default St. Dirt Accum. Annual Winter Load = 2500 lbs

38 - Streets 2: 0.206 ac. Intermediate Street Length = 0.057784 curb-mi Street Width (assuming two curb-mi per street mile) = 58.81452 ft

Default St. Dirt Accum. Annual Winter Load = 2500 lbs

53 - Small Landscaped Areas 3: 0.332 ac. Normal Clayey Medium/High Density No Alleys

73 - Other Pervious Areas 3: 0.058 ac. Normal Clayey Medium/High Density No Alleys

80 - Other Part Con Imp Areas 3: 0.007 ac. Disconnected Normal Clayey Medium/High Density No Alleys

LU# 2 - Commercial: Strip Commercial Total area (ac): 0.050

1 - Roofs 1: 0.010 ac. Flat Connected Connected

3 - Roofs 3: 0.002 ac. Pitched Connected Connected

13 - Paved Parking 1: 0.020 ac. Connected Connected

22 - Unpaved Parking 4: 0.001 ac. Disconnected Normal Clayey Medium/High Density No Alleys

25 - Driveways 1: 0.001 ac. Connected Connected

31 - Sidewalks 1: 0.002 ac. Connected Connected

37 - Streets 1: 0.006 ac. Smooth Street Length = 0.0022 curb-mi Street Width (assuming two curb-mi per street mile) = 43.125 ft

Default St. Dirt Accum. Annual Winter Load = 2500 lbs

38 - Streets 2: 0.004 ac. Intermediate Street Length = 0.0017 curb-mi Street Width (assuming two curb-mi per street mile) = 41.7353 ft

Default St. Dirt Accum. Annual Winter Load = 2500 lbs

53 - Small Landscaped Areas 3: 0.003 ac. Normal Clayey Medium/High Density No Alleys

59 - Undeveloped Areas 3: 0.000 ac. Normal Clayey Medium/High Density No Alleys

73 - Other Pervious Areas 3: 0.001 ac. Normal Clayey Medium/High Density No Alleys

LU# 3 - Residential: High Density Res. No Alleys Total area (ac): 3.590

3 - Roofs 3: 0.370 ac. Pitched Connected Connected

8 - Roofs 8: 0.398 ac. Pitched Disconnected Normal Clayey Medium/High Density No Alleys

25 - Driveways 1: 0.506 ac. Connected Connected

31 - Sidewalks 1: 0.072 ac. Connected Connected

34 - Sidewalks 4: 0.072 ac. Disconnected Normal Clayey Medium/High Density No Alleys

37 - Streets 1: 0.162 ac. Smooth Street Length = 0.08616 curb-mi Street Width (assuming two curb-mi per street mile) = 30.9375 ft
 Default St. Dirt Accum. Annual Winter Load = 2500 lbs
 38 - Streets 2: 0.323 ac. Intermediate Street Length = 0.17591 curb-mi Street Width (assuming two curb-mi per street mile) =
 30.30612 ft
 Default St. Dirt Accum. Annual Winter Load = 2500 lbs
 53 - Small Landscaped Areas 3: 1.472 ac. Normal Clayey
 69 - Isolated Areas: 0.004 ac. Normal Clayey
 73 - Other Pervious Areas 3: 0.212 ac. Normal Clayey
 LU# 4 - Residential: High Density Res. with Alleys Total area (ac): 88.160
 3 - Roofs 3: 11.990 ac. Pitched Connected Connected
 8 - Roofs 8: 9.345 ac. Pitched Disconnected Normal Clayey Medium/High Density Alleys
 13 - Paved Parking 1: 0.353 ac. Connected Connected
 25 - Driveways 1: 0.617 ac. Connected Connected
 31 - Sidewalks 1: 2.821 ac. Connected Connected
 34 - Sidewalks 4: 2.821 ac. Disconnected Normal Clayey Medium/High Density Alleys
 37 - Streets 1: 4.761 ac. Smooth Street Length = 2.90928 curb-mi Street Width (assuming two curb-mi per street mile) = 27 ft
 Default St. Dirt Accum. Annual Winter Load = 2500 lbs
 38 - Streets 2: 11.637 ac. Intermediate Street Length = 7.0528 curb-mi Street Width (assuming two curb-mi per street mile) = 27.225
 ft
 Default St. Dirt Accum. Annual Winter Load = 2500 lbs
 39 - Streets 3: 1.411 ac. Rough Street Length = 0.8816 curb-mi Street Width (assuming two curb-mi per street mile) = 26.4 ft
 Default St. Dirt Accum. Annual Winter Load = 2750 lbs
 53 - Small Landscaped Areas 3: 36.586 ac. Normal Clayey
 59 - Undeveloped Areas 3: 0.264 ac. Normal Clayey
 73 - Other Pervious Areas 3: 5.554 ac. Normal Clayey
 LU# 5 - Industrial: Light Industrial Total area (ac): 0.030
 1 - Roofs 1: 0.006 ac. Flat Connected Connected
 3 - Roofs 3: 0.001 ac. Pitched Connected Connected
 7 - Roofs 7: 0.001 ac. Flat Disconnected Normal Clayey Low Density
 13 - Paved Parking 1: 0.010 ac. Connected Connected
 22 - Unpaved Parking 4: 0.002 ac. Disconnected Normal Clayey Low Density
 25 - Driveways 1: 0.001 ac. Connected Connected
 31 - Sidewalks 1: 0.000 ac. Connected Connected
 37 - Streets 1: 0.001 ac. Smooth Street Length = 0.000255 curb-mi Street Width (assuming two curb-mi per street mile) = 35.71764 ft
 Default St. Dirt Accum. Annual Winter Load = 2500 lbs
 38 - Streets 2: 0.003 ac. Intermediate Street Length = 0.00123 curb-mi Street Width (assuming two curb-mi per street mile) =
 34.93171 ft
 Default St. Dirt Accum. Annual Winter Load = 2500 lbs
 39 - Streets 3: 0.000 ac. Rough Street Length = 0.000045 curb-mi Street Width (assuming two curb-mi per street mile) = 35.2 ft
 Default St. Dirt Accum. Annual Winter Load = 2750 lbs
 47 - Large Landscaped Areas 3: 0.001 ac. Normal Clayey Low Density
 53 - Small Landscaped Areas 3: 0.003 ac. Normal Clayey Low Density
 59 - Undeveloped Areas 3: 0.001 ac. Normal Clayey Low Density
 73 - Other Pervious Areas 3: 0.001 ac. Normal Clayey Low Density
 80 - Other Part Con Imp Areas 3: 0.000 ac. Disconnected Normal Clayey Low Density
 LU# 6 - Residential: Medium Density Res. No Alleys Total area (ac): 4.460
 3 - Roofs 3: 0.201 ac. Pitched Connected Connected
 8 - Roofs 8: 0.468 ac. Pitched Disconnected Normal Clayey Medium/High Density No Alleys
 13 - Paved Parking 1: 0.009 ac. Connected Connected
 25 - Driveways 1: 0.250 ac. Connected Connected
 28 - Driveways 4: 0.085 ac. Disconnected Normal Clayey Medium/High Density No Alleys
 31 - Sidewalks 1: 0.049 ac. Connected Connected
 34 - Sidewalks 4: 0.049 ac. Disconnected Normal Clayey Medium/High Density No Alleys
 37 - Streets 1: 0.165 ac. Smooth Street Length = 0.0892 curb-mi Street Width (assuming two curb-mi per street mile) = 30.525 ft

Default St. Dirt Accum. Annual Winter Load = 2500 lbs
 38 - Streets 2: 0.339 ac. Intermediate Street Length = 0.1784 curb-mi Street Width (assuming two curb-mi per street mile) = 31.35 ft

Default St. Dirt Accum. Annual Winter Load = 2500 lbs
 39 - Streets 3: 0.067 ac. Rough Street Length = 0.03568 curb-mi Street Width (assuming two curb-mi per street mile) = 30.9375 ft

Default St. Dirt Accum. Annual Winter Load = 2750 lbs
 47 - Large Landscaped Areas 3: 0.009 ac. Normal Clayey
 53 - Small Landscaped Areas 3: 2.565 ac. Normal Clayey
 59 - Undeveloped Areas 3: 0.018 ac. Normal Clayey
 69 - Isolated Areas: 0.009 ac. Normal Clayey
 73 - Other Pervious Areas 3: 0.178 ac. Normal Clayey

LU# 7 - Other Urban: Parks Total area (ac): 4.105
 1 - Roofs 1: 0.004 ac. Flat Connected Connected
 3 - Roofs 3: 0.005 ac. Pitched Connected Connected
 8 - Roofs 8: 0.010 ac. Pitched Disconnected Normal Clayey Low Density
 13 - Paved Parking 1: 0.172 ac. Connected Connected
 22 - Unpaved Parking 4: 0.009 ac. Disconnected Normal Clayey Low Density
 25 - Driveways 1: 0.050 ac. Connected Connected
 31 - Sidewalks 1: 0.020 ac. Connected Connected
 37 - Streets 1: 0.041 ac. Smooth Street Length = 0.025451 curb-mi Street Width (assuming two curb-mi per street mile) = 26.6129 ft

Default St. Dirt Accum. Annual Winter Load = 2500 lbs
 38 - Streets 2: 0.093 ac. Intermediate Street Length = 0.056649 curb-mi Street Width (assuming two curb-mi per street mile) = 27.1413 ft

Default St. Dirt Accum. Annual Winter Load = 2500 lbs
 47 - Large Landscaped Areas 3: 3.200 ac. Normal Clayey Low Density
 53 - Small Landscaped Areas 3: 0.035 ac. Normal Clayey
 63 - Paved Playgrounds 1: 0.037 ac. Connected Connected
 66 - Paved Playgrounds 4: 0.037 ac. Disconnected Normal Clayey Low Density
 69 - Isolated Areas: 0.291 ac. Low Density
 80 - Other Part Con Imp Areas 3: 0.102 ac. Disconnected Normal Clayey Low Density

LU# 8 - Institutional: Schools Total area (ac): 7.510
 1 - Roofs 1: 1.127 ac. Flat Connected Connected
 13 - Paved Parking 1: 0.800 ac. Connected Connected
 25 - Driveways 1: 0.149 ac. Connected Connected
 31 - Sidewalks 1: 0.219 ac. Connected Connected
 37 - Streets 1: 0.201 ac. Smooth Street Length = 9.312399E-02 curb-mi Street Width (assuming two curb-mi per street mile) = 35.66129 ft

Default St. Dirt Accum. Annual Winter Load = 2500 lbs
 38 - Streets 2: 0.325 ac. Intermediate Street Length = 0.1502 curb-mi Street Width (assuming two curb-mi per street mile) = 35.7225 ft

Default St. Dirt Accum. Annual Winter Load = 2500 lbs
 39 - Streets 3: 0.123 ac. Rough Street Length = 0.057076 curb-mi Street Width (assuming two curb-mi per street mile) = 35.60526 ft

Default St. Dirt Accum. Annual Winter Load = 2750 lbs
 47 - Large Landscaped Areas 3: 1.659 ac. Normal Clayey Medium/High Density No Alleys
 53 - Small Landscaped Areas 3: 1.309 ac. Normal Clayey Medium/High Density No Alleys
 59 - Undeveloped Areas 3: 0.032 ac. Normal Clayey Medium/High Density No Alleys
 63 - Paved Playgrounds 1: 1.301 ac. Connected Connected
 73 - Other Pervious Areas 3: 0.164 ac. Normal Clayey Medium/High Density No Alleys
 80 - Other Part Con Imp Areas 3: 0.101 ac. Disconnected Normal Clayey Medium/High Density No Alleys

LU# 9 - Other Urban: Railroad Total area (ac): 1.620
 1 - Roofs 1: 0.002 ac. Flat Connected Connected
 3 - Roofs 3: 0.002 ac. Pitched Connected Connected
 8 - Roofs 8: 0.004 ac. Pitched Disconnected Normal Clayey Low Density
 13 - Paved Parking 1: 0.068 ac. Connected Connected

22 - Unpaved Parking 4: 0.004 ac. Disconnected Normal Clayey Medium/High Density No Alleys
 47 - Large Landscaped Areas 3: 1.335 ac. Normal Clayey Low Density
 53 - Small Landscaped Areas 3: 0.022 ac. Normal Clayey Low Density
 63 - Paved Playgrounds 1: 0.015 ac. Connected Connected
 66 - Paved Playgrounds 4: 0.015 ac. Disconnected Normal Clayey Low Density
 69 - Isolated Areas: 0.115 ac. Low Density
 80 - Other Part Con Imp Areas 3: 0.040 ac. Disconnected Normal Clayey Medium/High Density No Alleys
 LU# 10 - Institutional: Misc. Institutional Total area (ac): 0.250
 1 - Roofs 1: 0.013 ac. Flat Connected Connected
 3 - Roofs 3: 0.021 ac. Pitched Connected Connected
 8 - Roofs 8: 0.001 ac. Pitched Disconnected Normal Clayey Medium/High Density No Alleys
 13 - Paved Parking 1: 0.068 ac. Connected Connected
 25 - Driveways 1: 0.008 ac. Connected Connected
 31 - Sidewalks 1: 0.006 ac. Connected Connected
 37 - Streets 1: 0.010 ac. Smooth Street Length = 0.00475 curb-mi Street Width (assuming two curb-mi per street mile) = 34.73684 ft
 Default St. Dirt Accum. Annual Winter Load = 2500 lbs
 38 - Streets 2: 0.017 ac. Intermediate Street Length = 0.008075 curb-mi Street Width (assuming two curb-mi per street mile) = 34.53251 ft
 Default St. Dirt Accum. Annual Winter Load = 2500 lbs
 39 - Streets 3: 0.003 ac. Rough Street Length = 0.001575 curb-mi Street Width (assuming two curb-mi per street mile) = 34.57143 ft
 Default St. Dirt Accum. Annual Winter Load = 2750 lbs
 47 - Large Landscaped Areas 3: 0.013 ac. Normal Clayey Low Density
 53 - Small Landscaped Areas 3: 0.066 ac. Normal Clayey Low Density
 59 - Undeveloped Areas 3: 0.005 ac. Normal Clayey Low Density
 63 - Paved Playgrounds 1: 0.004 ac. Connected Connected
 66 - Paved Playgrounds 4: 0.004 ac. Disconnected Normal Clayey Low Density
 73 - Other Pervious Areas 3: 0.007 ac. Normal Clayey Low Density
 80 - Other Part Con Imp Areas 3: 0.003 ac. Disconnected Normal Clayey Low Density
 LU# 11 - Other Urban: Other Urban 3 Total area (ac): 1.265
 70 - Water Body Areas: 1.265 ac. Low Density

Control Practice 1: Wet Detention Pond CP# 1 (DS) - DS Wet Pond # 1

Particle Size Distribution file name: Not needed - calculated by program

Initial stage elevation (ft): 7.5

Peak to Average Flow Ratio: 3.8

Maximum flow allowed into pond (cfs): No maximum value entered

Outlet Characteristics:

Outlet type: Sharp Crested Weir

1. Sharp crested weir length (ft): 12

2. Sharp crested weir height from invert: 6.78

3. Sharp crested weir invert elevation above datum (ft): 11.22

Outlet type: Orifice 1

1. Orifice diameter (ft): 0.58

2. Number of orifices: 1

3. Invert elevation above datum (ft): 7.48

Outlet type: Orifice 2

1. Orifice diameter (ft): 0.58

2. Number of orifices: 2

3. Invert elevation above datum (ft): 8.65

Outlet type: Orifice 3

1. Orifice diameter (ft): 0.58

2. Number of orifices: 3

3. Invert elevation above datum (ft): 9.89

Outlet type: Broad Crested Weir

1. Weir crest length (ft): 20
2. Weir crest width (ft): 10
3. Height of weir opening (cfs): 5
4. Height from datum to bottom of weir opening: 20

Pond stage and surface area

Entry Number	Stage (ft)	Pond Area (acres)	Natural Seepage (in/hr)	Other Outflow (cfs)
0	0.00	0.0000	0.00	0.00
1	0.01	0.6140	0.00	0.00
2	1.00	0.6640	0.00	0.00
3	2.00	0.7150	0.00	0.00
4	3.00	0.7670	0.00	0.00
5	4.00	0.8210	0.00	0.00
6	5.00	0.8760	0.00	0.00
7	6.00	0.9320	0.00	0.00
8	6.50	0.9650	0.00	0.00
9	7.50	1.2650	0.00	0.00
10	8.00	1.2970	0.00	0.00
11	9.00	1.3650	0.00	0.00
12	10.00	1.4350	0.00	0.00
13	11.00	1.5060	0.00	0.00
14	12.00	1.5970	0.00	0.00
15	13.00	1.6580	0.00	0.00
16	14.00	1.7000	0.00	0.00
17	15.00	1.8740	0.00	0.00
18	16.00	2.0160	0.00	0.00
19	17.00	2.1260	0.00	0.00
20	18.00	2.2240	0.00	0.00

SLAMM for Windows Version 10.1.6

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Data file name: W:\PROJECTS\K0001\91400787\CADD\Civil3D\RecordDesign\SLAMM\Memorial Pond_Record.mdb

Data file description:

Rain file name: C:\WinSLAMM Files\Rain Files\WisReg - Green Bay WI 1969.RAN

Particulate Solids Concentration file name: C:\WinSLAMM Files\v10.1 WI_AVG01.pscx

Runoff Coefficient file name: C:\WinSLAMM Files\WI_SL06 Dec06.rsvx

Residential Street Delivery file name: C:\WinSLAMM Files\WI_Res and Other Urban Dec06.std

Institutional Street Delivery file name: C:\WinSLAMM Files\WI_Com Inst Indust Dec06.std

Commercial Street Delivery file name: C:\WinSLAMM Files\WI_Com Inst Indust Dec06.std

Industrial Street Delivery file name: C:\WinSLAMM Files\WI_Com Inst Indust Dec06.std

Other Urban Street Delivery file name: C:\WinSLAMM Files\WI_Res and Other Urban Dec06.std

Freeway Street Delivery file name: C:\WinSLAMM Files\Freeway Dec06.std

Pollutant Relative Concentration file name: C:\WinSLAMM Files\WI_GEO03.ppdX

Start of Winter Season: 11/25 End of Winter Season: 03/29

Model Run Start Date: 01/02/69 Model Run End Date: 12/28/69

Date of run: 06-21-2017 Time of run: 09:00:14

Total Area Modeled (acres): 120.360

Years in Model Run: 0.99

	Runoff Volume (cu ft)	Percent Runoff Volume Reduction	Particulate Solids Conc. (mg/L)	Particulate Solids Yield (lbs)	Percent Particulate Solids Reduction
Total of all Land Uses without Controls:	4.302E+06	-	133.4	35829	-
Outfall Total with Controls:	4.278E+06	0.56%	32.11	8576	76.06%
Annualized Total After Outfall Controls:	4.338E+06			8695	

Pollutant	Concentration - No Controls	Concentration - With Controls	Conc. Units	Pollutant Yield No Controls	Pollutant Yield With Controls	Pol. Yield Units	Percent Reduction
Particulate Solids	133.4	32.11	mg/L	35829	8576	lbs	76.06 %
Total Phosphorus	0.4518	0.1917	mg/L	121.4	51.21	lbs	57.80 %