Exhibit H

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APPROVED
City of Florence
Community Development
Department
H Exhibit
PC 20 31 SUB 03 File Number

Three Mile Prairie Subdivision
Phase 1 Development
Stormwater Narrative and Calculations
Florence, Oregon

January 29, 2021

1-29-2021
RENEWS: 1/1/2022

Prepared for:
Black Forest Development, LLC
545 South Valley View Drive #153
St. George, UT 84770

Prepared by:
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Narrative

The project site can be found on Lane County Tax Assessor's Map 18-12-15-00, Tax Lot 200, and Map 18-12-14 Tax Lots 1301 and 2100. They are located within both the Florence Urban Growth Boundary (UGB) and the incorporated City limits. Tax Lot 200 is zoned Single Family Residential. Tax Lot 1301 is zoned North Commercial District, and Tax Lot 2100 is zoned Service/Industrial District. When fully developed, the Three Mile Prairie Subdivision will consist of single family lots on Tax Lot 200, a public street access on Tax Lot 1301 to Highway 101 at the Munsel Lake Road intersection, and public street access to Highway 101 and commercial lots on Tax Lot 2100. Phase 1 development includes a public street and two commercial lots on Tax Lot 2100, 54 residential lots and public streets on the northeasterly quadrant of Tax Lot 200, and a gravel emergency access adjacent to the east boundary of Tax Lot 200 and across Tax Lot 1301 to Highway 101.

Most of the property located on Tax Lot 200 is an active sand dune; therefore, the topography can vary widely throughout the year. However, the site generally maintains a consistent elevation range of between 85-130 feet, with the location of these high points and lows points shifting with the seasonal winds. Also included on the site is a delineated small area of wetlands along the southwestern property boundary. The site is currently undeveloped and is being operated as a commercial sand mining business. The site is also surrounded on the north, south, and west sides by active sand dunes. These adjacent dunes are on land currently owned by the Bureau of Land Management, Lane County, and others and remain undeveloped.

There are no defined surface water channels located on the project site. Additionally, none of the adjacent lands naturally flow surface water onto or away from the site. Since nearly the entire project site is located on dune sand, surface water does not "flow" off the project area. Instead, the surface water almost immediately infiltrates into the sand dunes and is integrated into the ground water system.

Soils

According to the SCS Lane County Soil Survey the project site consists of three soil types, approximately 88% Dune Sand (NRCS Soil No.44), 11% Yaquina Loamy Fine Sand (NRCS Soil No.140), and 1% Waldport Fine Sand, 0-12 percent slopes (NRCS Soil No.131C).

Dune Sand described as deep, excessively drained, active dunes along the coast. Permeability is described as "very rapid." The sand is described as light grey and fine with slow runoff, and the hazard of water erosion is slight.

Yaquina Loamy Fine Sand is described as deep somewhat poorly drained, interdune areas. Runoff is described as slow to ponding with a moderate hazard of water erosion.

Waldport Fine Sand is described as deep excessively drained soil with slow runoff and a low hazard of water erosion.

Vegetation

There is no significant vegetation on the property as nearly the entire site is located on an active sand dune.

Groundwater

The groundwater table elevations near the project vary depending upon seasonal and cyclical patterns. The documented groundwater gradient is generally southwest toward the Siuslaw River with a gradient of approximately 1 foot in 200 feet (0.005 feet per foot) across the site. The seasonal high groundwater elevation can be observed at the high-water line surveyed at an elevation of 85 feet near the wetlands in the southwestern corner of the property. Most of the project site will be final graded at least 10-35 feet above this elevation.

Existing Conditions

Under existing conditions, the site rapidly discharges stormwater directly into the groundwater aquifer via infiltration through the sand dunes. This site is part of the larger Dunal Aquifer System. During high groundwater conditions water levels within existing wetlands to the southwest of the property would be a reflection of seasonal high water tables. The direction of the groundwater flow is generally southwesterly across the site. Since the potential stormwater impacts from this development are proposed to be handled entirely by infiltration facilities, through this same dune system, down gradient groundwater and surface water flow regimes will remain unaffected, thus requiring no specific mitigation.

The receiving body of water for this site is the groundwater aquifer. The elevation of the aquifer varies seasonally and cyclically. Since the aquifer is very permeable and recharged through infiltration of precipitation, the groundwater elevation does not rapidly rise and fall during a large rainfall event like a surface water stream or other body of water. The change in aquifer elevation due to a large rainfall event does not directly affect the design considerations for this site and can be no more than the immediate filling of the voids between sand particles or about 2 feet from a 6-inch precipitation event (approximately 25% void ratio).

Proposed Stormwater System

The project site is unique in that there is no classic receiving body of surface water, such as a river, lake, or stormwater infrastructure. Stormwater dissipates solely through infiltration into the groundwater. Due to this unique circumstance, a stormwater system has been designed based entirely on infiltration. The on-site stormwater system is comprised of a public system and a private system.

The public system will consist of facilities to collect and dispose of the runoff from the roads, sidewalks, and driveways located in street rights-of-way. The public system will collect the runoff from these areas and then route the flows through roadside vegetated stormwater swales and planters to be disposed of via surface water infiltration. The public system will be installed at time of public street improvements. Calculations supporting the sizing of the Phase 1 system are included herein.

The private system will consist of directing the roof drains from the proposed houses and from drives into individual vegetated swale, rain garden, or stormwater planter. These facilities will ensure the retention of stormwater on the property during a high rainfall event while also addressing water quality through vegetated filtration. Private systems will be designed and installed at time of individual lot development; thus, the design of the Phase 1 private system is not included in this report.

Public System Detailed Description

A system of vegetated stormwater facilities located in the planting strip between the street curb and setback sidewalk will receive all runoff from roadway pavement, sidewalks, and driveways. Both the sidewalks and roadways will generally be sloped towards the curb and gutter, where runoff will ultimately be collected and routed into the stormwater facilities through curb cuts.

Stormwater facilities will consist of either vegetated swales or vegetated planters. Preference is given to vegetated swales, but vegetated planters are incorporated into the system where there is insufficient space for an adequately sized swale. The stormwater facilities are in the planting strip between planned driveway locations. Given the available swale length between driveways, the swales typically need to be 12.7 feet in width (measured between back of street curb and front of the sidewalk) for adequate sizing. To achieve this width, the setback sidewalk is typically located outside the right-of-way and on the lot within the public utility easement.

Planters are incorporated in lieu of swales at locations where vertical walls are needed to increase surface area and storage capacity. At these locations, the planter inside width may vary from 4.2 feet to 11.7 feet. On streets where there is no lot access (i.e., south side of Road 1 and both sides of Road 2) planters are typically used to keep the sidewalk inside the street right-of-way so retaining walls are not needed between the back of walk and building pads. At these planter locations, the planter inside width is typically 4.2 feet with a 30-inch shelf between the planter and back of curb to allow for on-street parking adjacent to the planters. The available ponding depth of water (measured from gutter bar down to top of growing medium) for both swale and planter facilities is typically 6-inches; although some facilities may have a greater ponding depth for additional storage where the surface area cannot be increased due to length and width constraints.

For the purposes of the final stormwater system design of Phase 1 development the infiltration rate of dune sand was assumed at a conservative 10 inches per hour. This value is based on previous soil infiltration tests performed by EGR on properties located in the same area with similar soil conditions (dune sand) as this project site. Typical test transmissivity values recorded on other similarly situated projects in the north Florence area are between 100 and 300 inches per hour per foot of head. Transmissivity values in open dune sand formations such as these are commonly more than 500 inches per hour per foot of head.

The Florence Stormwater Manual limits the design infiltration rate to the infiltration rate of the growing medium which is given as a maximum 4 inches per hour. The resulting facility sizes and depth were designed to store a 25-year storm event at this infiltration rate. The retention of stormwater runoff in the stormwater swales and planters and gradual soil infiltration serves to reduce the overall peak flow rates from the site. Since shallow groundwater does not occur on the site additional high groundwater retention is not necessary

Hydrologic/Hydraulic Calculations

The Florence Stormwater Manual defines the storm rainfall depths as shown in Table 1 below.

Table 1 - Design Storms

Return Period (years)	24-hour Rainfall Depth (inches)
Water quality	0.83
2	3.46
10	4.48
25	5.06
100	5.95

The site has been divided into five basins based on street alignments as follows:

Basin 1 Road 1
Basin 2 Road 2
Basin 3 Road 3
Basin 4 Road 4
Basin 5 Oak Street

Each basin is further subdivided based on street drainage patterns and block lengths. Refer to Post Developed Basin Map in Attachment 1 for a graphical representation of these drainage areas.

Public stormwater facilities were sized per the Presumptive Approach using the City of Eugene Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet. This software system was selected in lieu of the Portland Presumptive Approach Calculator (PAC) because the City of Eugene's version has the ability for the user to change rainfall depths whereas the Portland PAC is developed specifically for Portland's rainfall depths, which are less than the Florence area and would thus result in undersized facilities.

For purpose of these calculations the facilities were designed to retain and treat runoff from the impervious surfaces alone. It is still assumed that the dune sand will produce little to no additional stormwater runoff and the collection facilities will only be necessary for impervious surface added to the site.

A facility sizing worksheet was created for each sub-basin to calculate the required length of stormwater swale or planter needed to manage the impervious area in each sub-basin. The facility parameters include:

Planter facility side slopes = 0 to 1 (vertical)
Planter typical inside width = 4.2 feet (but may vary)
Swale facility side slopes = 3 to 1
Swale typical top width = 12.7 feet
Minimum ponding depth = 6 inches (but may be greater)
Depth of growing medium = 18 inches
Design soil infiltration rate = 4 inches per hour (for growing medium)
Destination design soil infiltration rate = 5 inches per hour (assumed for underlying soils)
NRCS curve number for impervious surfaces = 98

A copy of the worksheet printout for each sub-basin is included in Attachment 2.

Escape Route

Phase 1 streets generally slope northerly and easterly with the lowest elevation being at the east end of Road 1 where it connects to Highway 101. In event of extreme inundation of stormwater facilities for storm events that exceed the runoff volume generated from a 25-year recurrence interval, gutter flow from most of the Phase 1 development will drain to the intersection at Road 1 and Highway 101 and ultimately into the Highway 101 roadside ditch. The Florence Stormwater Management Plan shows that the project area is situated in a City of Florence drainage basin that generally drains into Highway 101 roadside ditches where most of the water infiltrates before it can leave the basin. If large enough flows occur, the topography of the basin would direct flow southerly toward Munsel Creek.

Conclusions

The Phase 1 Stormwater Management System for the Three Mile Prairie Subdivision has been developed to address the criteria outlined in the Florence City Code and Florence Stormwater Manual meeting the requirements for both stormwater retention and quality.

Retention of stormwater runoff from street and sidewalk surfaces will be provided using public street vegetated facilities per the Florence Stormwater Manual. Stormwater quality will also be mitigated by these same facilities. These facilities were designed using the 25-year storm event defined by the City of Florence.

Attachment 1 – Post Developed Basin Map

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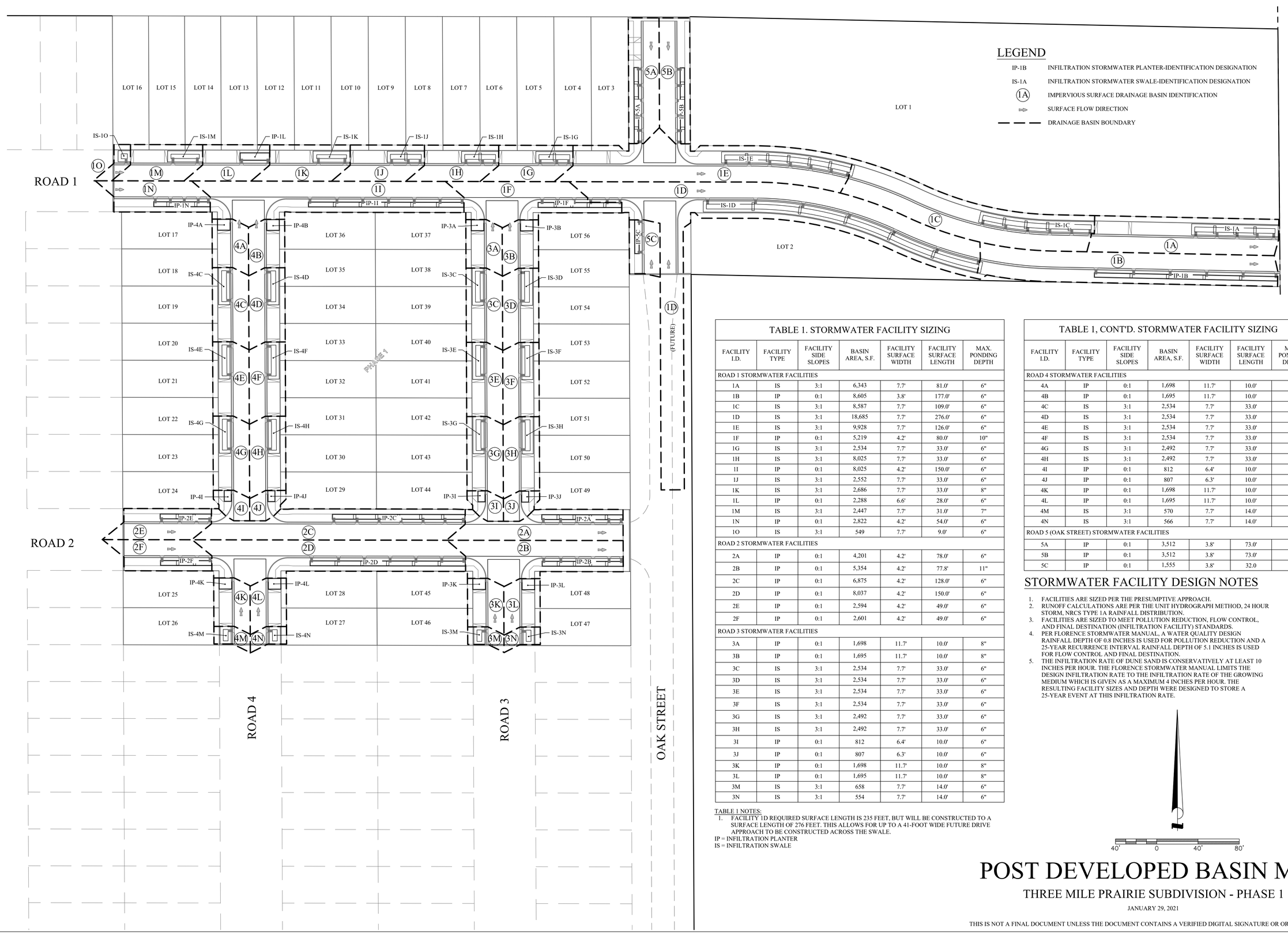

TABLE 1. STORMWATER FACILITY SIZING

FACILITY I.D.	FACILITY TYPE	FACILITY SIDE SLOPES	BASIN AREA, S.F.	FACILITY SURFACE WIDTH	FACILITY SURFACE LENGTH	MAX. PONDING DEPTH
ROAD 1 STORMWATER FACILITIES						
1A	IS	3:1	6,343	7.7'	81.0'	6"
1B	IP	0:1	8,605	3.8'	177.0'	6"
1C	IS	3:1	8,587	7.7'	109.0'	6"
1D	IS	3:1	18,685	7.7'	276.0'	6"
1E	IS	3:1	9,928	7.7'	126.0'	6"
1F	IP	0:1	5,219	4.2'	80.0'	10"
1G	IS	3:1	2,534	7.7'	33.0'	6"
1H	IS	3:1	8,025	7.7'	33.0'	6"
1I	IP	0:1	8,025	4.2'	150.0'	6"
1J	IS	3:1	2,552	7.7'	33.0'	6"
1K	IS	3:1	2,686	7.7'	33.0'	8"
1L	IP	0:1	2,288	6.6'	28.0'	6"
1M	IS	3:1	2,447	7.7'	31.0'	7"
1N	IP	0:1	2,822	4.2'	54.0'	6"
1O	IS	3:1	549	7.7'	9.0'	6"
ROAD 2 STORMWATER FACILITIES						
2A	IP	0:1	4,201	4.2'	78.0'	6"
2B	IP	0:1	5,354	4.2'	77.8'	11"
2C	IP	0:1	6,875	4.2'	128.0'	6"
2D	IP	0:1	8,037	4.2'	150.0'	6"
2E	IP	0:1	2,594	4.2'	49.0'	6"
2F	IP	0:1	2,601	4.2'	49.0'	6"
ROAD 3 STORMWATER FACILITIES						
3A	IP	0:1	1,698	11.7'	10.0'	8"
3B	IP	0:1	1,695	11.7'	10.0'	8"
3C	IS	3:1	2,534	7.7'	33.0'	6"
3D	IS	3:1	2,534	7.7'	33.0'	6"
3E	IS	3:1	2,534	7.7'	33.0'	6"
3F	IS	3:1	2,534	7.7'	33.0'	6"
3G	IS	3:1	2,492	7.7'	33.0'	6"
3H	IS	3:1	2,492	7.7'	33.0'	6"
3I	IP	0:1	812	6.4'	10.0'	6"
3J	IP	0:1	807	6.3'	10.0'	6"
3K	IP	0:1	1,698	11.7'	10.0'	8"
3L	IP	0:1	1,695	11.7'	10.0'	8"
3M	IS	3:1	658	7.7'	14.0'	6"
3N	IS	3:1	554	7.7'	14.0'	6"

TABLE 1 NOTES:
1. FACILITY 1D REQUIRED SURFACE LENGTH IS 235 FEET, BUT WILL BE CONSTRUCTED TO A SURFACE LENGTH OF 276 FEET. THIS ALLOWS FOR UP TO A 41-FOOT WIDE FUTURE DRIVE APPROACH TO BE CONSTRUCTED ACROSS THE SWALE.

IP = INFILTRATION PLANTER
IS = INFILTRATION SWALE

TABLE 1, CONT'D. STORMWATER FACILITY SIZING

FACILITY I.D.	FACILITY TYPE	FACILITY SIDE SLOPES	BASIN AREA, S.F.	FACILITY SURFACE WIDTH	FACILITY SURFACE LENGTH	MAX. PONDING DEPTH
ROAD 4 STORMWATER FACILITIES						
4A	IP	0:1	1,698	11.7'	10.0'	8"
4B	IP	0:1	1,695	11.7'	10.0'	8"
4C	IS	3:1	2,534	7.7'	33.0'	6"
4D	IS	3:1	2,534	7.7'	33.0'	6"
4E	IS	3:1	2,534	7.7'	33.0'	6"
4F	IS	3:1	2,534	7.7'	33.0'	6"
4G	IS	3:1	2,492	7.7'	33.0'	6"
4H	IS	3:1	2,492	7.7'	33.0'	6"
4I	IP	0:1	812	6.4'	10.0'	6"
4J	IP	0:1	807	6.3'	10.0'	6"
4K	IP	0:1	1,698	11.7'	10.0'	8"
4L	IP	0:1	1,695	11.7'	10.0'	8"
4M	IS	3:1	570	7.7'	14.0'	6"
4N	IS	3:1	566	7.7'	14.0'	6"
ROAD 5 (OAK STREET) STORMWATER FACILITIES						
5A	IP	0:1	3,512	3.8'	73.0'	6"
5B	IP	0:1	3,512	3.8'	73.0'	6"
5C	IP	0:1	1,555	3.8'	32.0	6"

STORMWATER FACILITY DESIGN NOTES

1. FACILITIES ARE SIZED PER THE PRESUMPTIVE APPROACH.
2. RUNOFF CALCULATIONS ARE PER THE UNIT HYDROGRAPH METHOD, 24 HOUR STORM, NRCS TYPE 1A RAINFALL DISTRIBUTION.
3. FACILITIES ARE SIZED TO MEET POLLUTION REDUCTION, FLOW CONTROL, AND FINAL DESTINATION (INFILTRATION FACILITY) STANDARDS.
4. PER FLORENCE STORMWATER MANUAL, A WATER QUALITY DESIGN RAINFALL DEPTH OF 0.8 INCHES IS USED FOR POLLUTION REDUCTION AND A 25-YEAR RECURRENCE INTERVAL RAINFALL DEPTH OF 5.1 INCHES IS USED FOR FLOW CONTROL AND FINAL DESTINATION.
5. THE INFILTRATION RATE OF DUNE SAND IS CONSERVATIVELY AT LEAST 10 INCHES PER HOUR. THE FLORENCE STORMWATER MANUAL LIMITS THE DESIGN INFILTRATION RATE TO THE INFILTRATION RATE OF THE GROWING MEDIUM WHICH IS GIVEN AS A MAXIMUM 4 INCHES PER HOUR. THE RESULTING FACILITY SIZES AND DEPTH WERE DESIGNED TO STORE A 25-YEAR EVENT AT THIS INFILTRATION RATE.

POST DEVELOPED BASIN MAP

THREE MILE PRAIRIE SUBDIVISION - PHASE 1

JANUARY 29, 2021

Attachment 2 – Presumptive Approach Calculations

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Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet
24 Hour Storm, NRCS Type 1A Rainfall Distribution
City of Eugene

Version 2.1

Project Information

Project Name:	Three Mile Prairie	**Date:**	1/4/2021
Project Address:	18-12-15-00-00200	**Permit Number:**	NA
	Florence, OR	**Catchment ID:**	1A
Designer:	Clint Beecroft		
Company:	EGR & Associates		

Instructions:

1. Complete this form for each drainage catchment in the project site that is to be sized per the Presumptive Approach.
2. Provide a distinctive Catchment ID for each facility coordinated with the site basin map to correlate the appropriate calculations with the facility.
3. The maximum drainage catchment to be modeled per the Presumptive Approach is 1 acre (43,560 SF)
4. For infiltration facilities in Class A or B soils where no infiltration testing has been perfromed use an infiltration rate of 0.5 in/hr. For all facilities use a maximum soil infiltration rate of 2.5 in/hr for topsoil/growing medium.

Design Requirements:

Choose "Yes" from the dropdown boxes below next to the design standards requirements for this facility.

Pollution Reduction (PR)	Yes
Flow Control (FC)	Yes
Destination (DT)	Yes

*An infiltration facility must be chosen as the facility type to meet destination requirements

Site Data-Post Development

Total Square Footage Impervious Area=	6343	sqft	**Total Square Footage Pervious Area=**	0	sqft
Impervious Area CN=	98		**Pervious Area CN=**	85	
Total Square Footage of Drainage Area=	6343	sft	**Time of Concentration Post Development=**	5	min
Weighted Average CN=	98				

Site Data-Pre Development (Data in this section is only used if Flow Control is required)

Pre-Development CN=	98		**Time of Concentration Pre-Development=**	5	min

Soil Data

Tested Soil Infiltration Rate=	10	in/hr (See Note 4)	**Destination Design=**	5	in/hr
Design Soil Infiltration Rate=	4	in/hr	**Soil Infiltration Rate**		

Design Storms Used For Calculations

Requirement	Rainfall Depth		Design Storm
Pollution Reduction	0.8	inches	Water Quality
Flow Control	5.1	inches	Flood Control
Destination	5.1	inches	Flood Control

Facility Data

Facility Type=	Infiltration Stormwater Planter		**Facility Surface Area=**	623.7	sqft
Surface Width=	7.7	ft	**Facility Surface Perimeter=**	177.4	ft
Surface Length=	81	ft	**Facility Bottom Area=**	367	sqft
Facility Side Slopes=	3	to 1	**Facility Bottom Perimeter=**	165	ft
Max. Ponding Depth in Stormwater Facility=	6	in	**Basin Volume=**	249.8	cf
Depth of Growing Medium (Soil)=	18	in	**Ratio of Facility Area to Impervious Area=**	0.098	

Pollution Reduction-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.026	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	331	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	0.0	in			
Drawdown Time=	0.2	hours			

Yes **Facility Sizing Meets Pollution Reduction Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

Flow Control-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.194	cfs	Peak Facility Overflow Rate=	0.052	cfs
Total Runoff Volume to Stormwater Facility =	2544	cf	Total Overflow Volume=	65	cf
Max. Depth of Stormwater in Facility=	6.0	in	Peak Off-Site Flow Rate Filtration Facility Underdrain=	N\A	cfs
Drawdown Time=	0.2	hours			

Pre-Development Runoff Data

Peak Flow Rate =	0.194	cfs
Total Runoff Volume =	2549	cf

Yes **Facility Sizing Meets Flow Control Standards?**

YES **Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

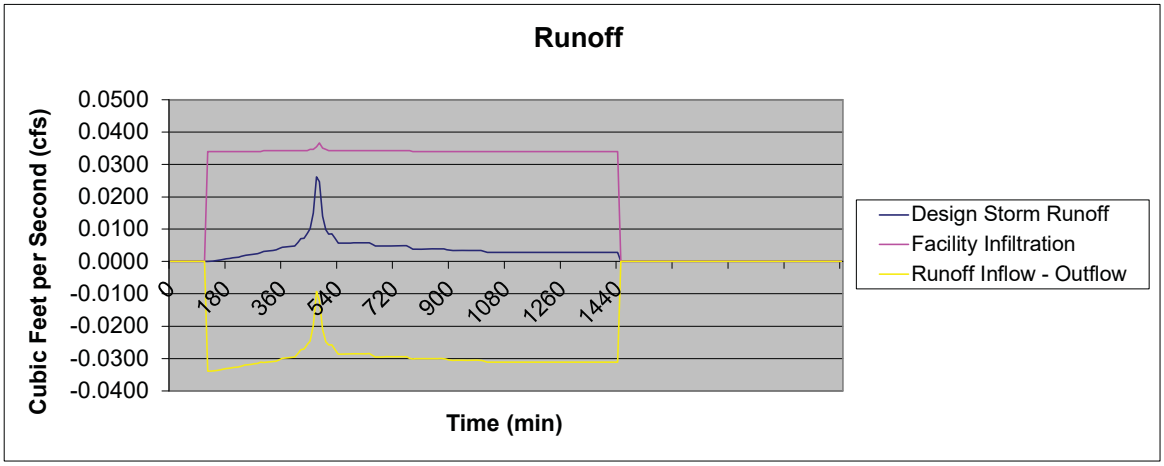
Destination-Calculation Results

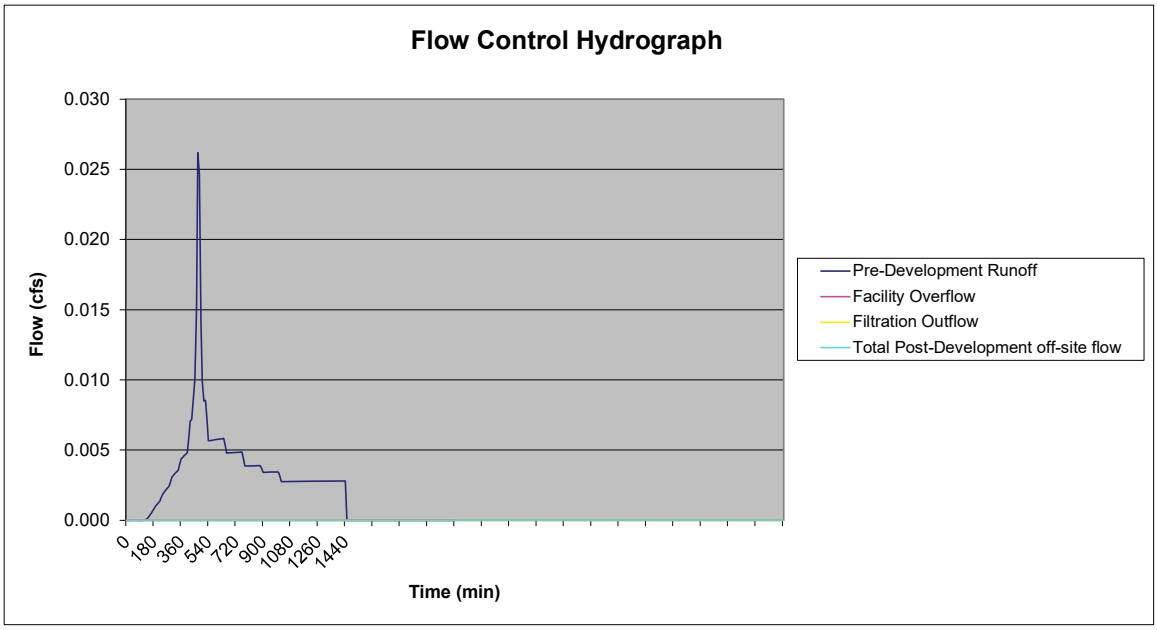
Peak Flow Rate to Stormwater Facility =	0.194	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	2544	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	5.9	in			
Drawdown Time=	0.2	hours			

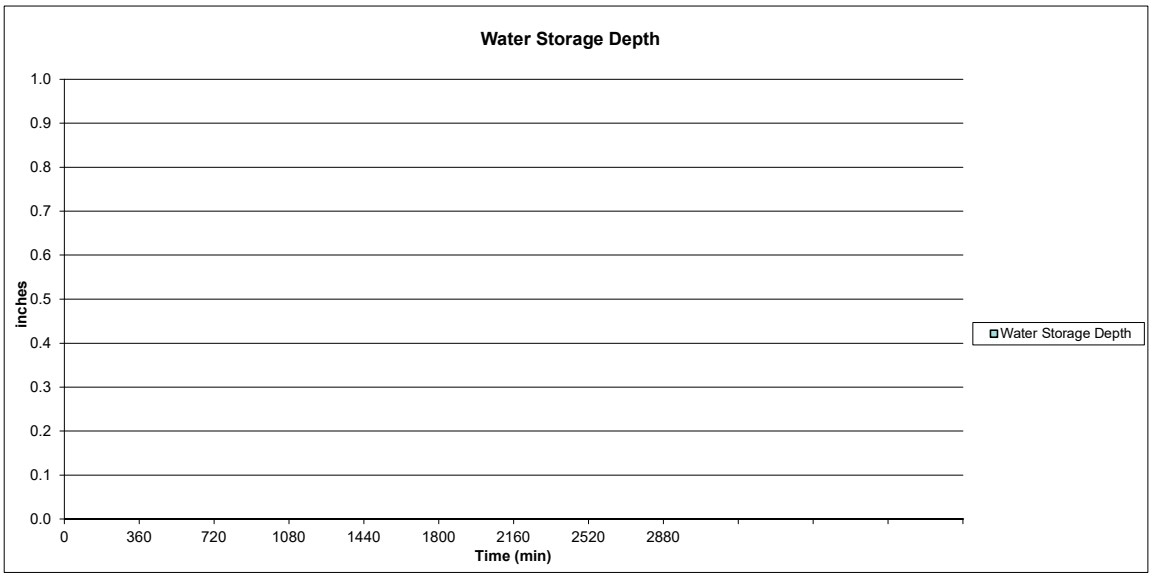
Yes **Facility Sizing Meets Destination Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 30 hour Drawdown Time?**

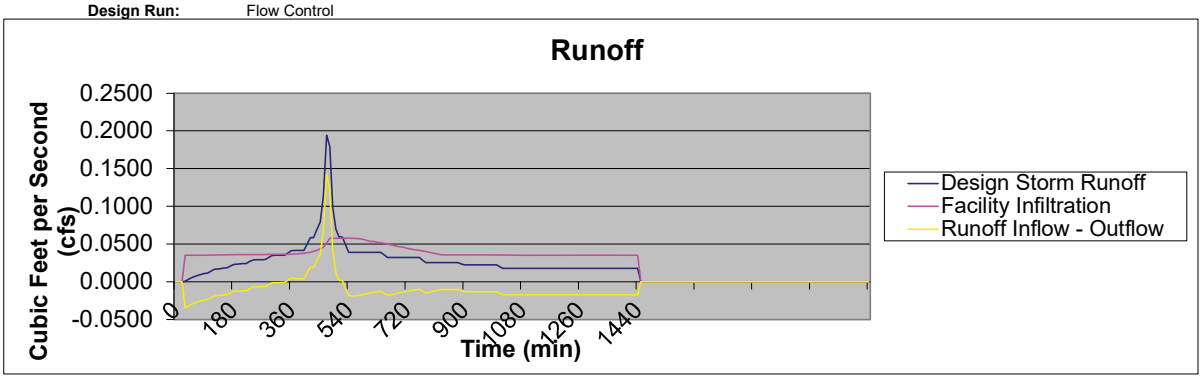
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1A
Design Run: Pollution Reduction

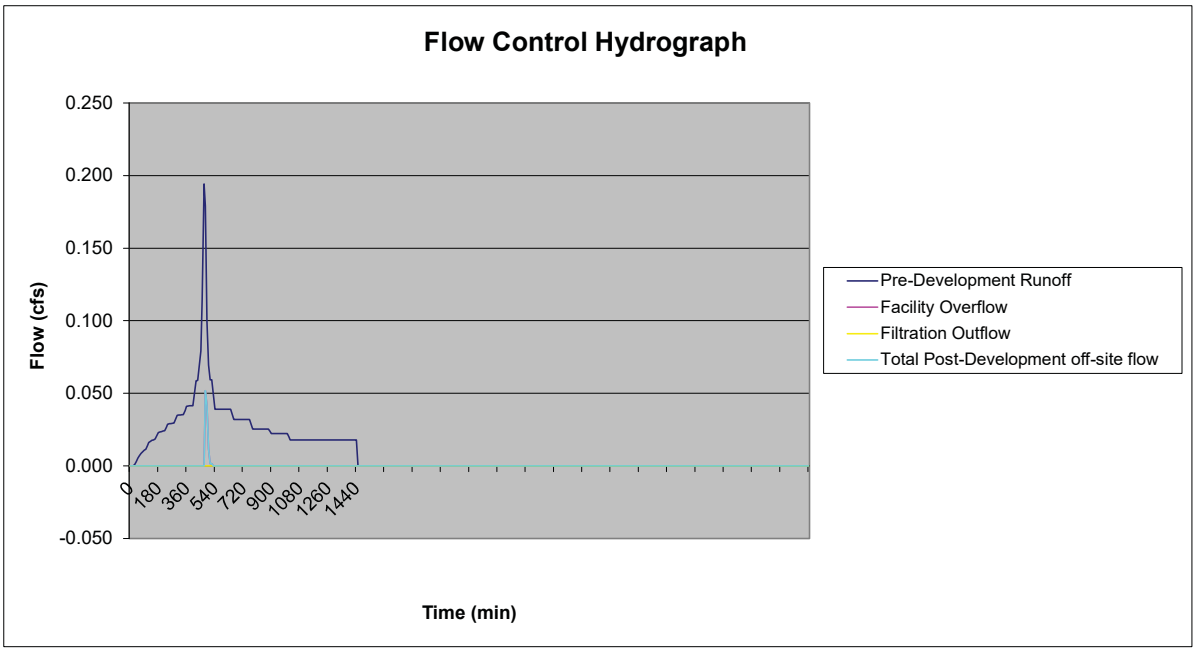


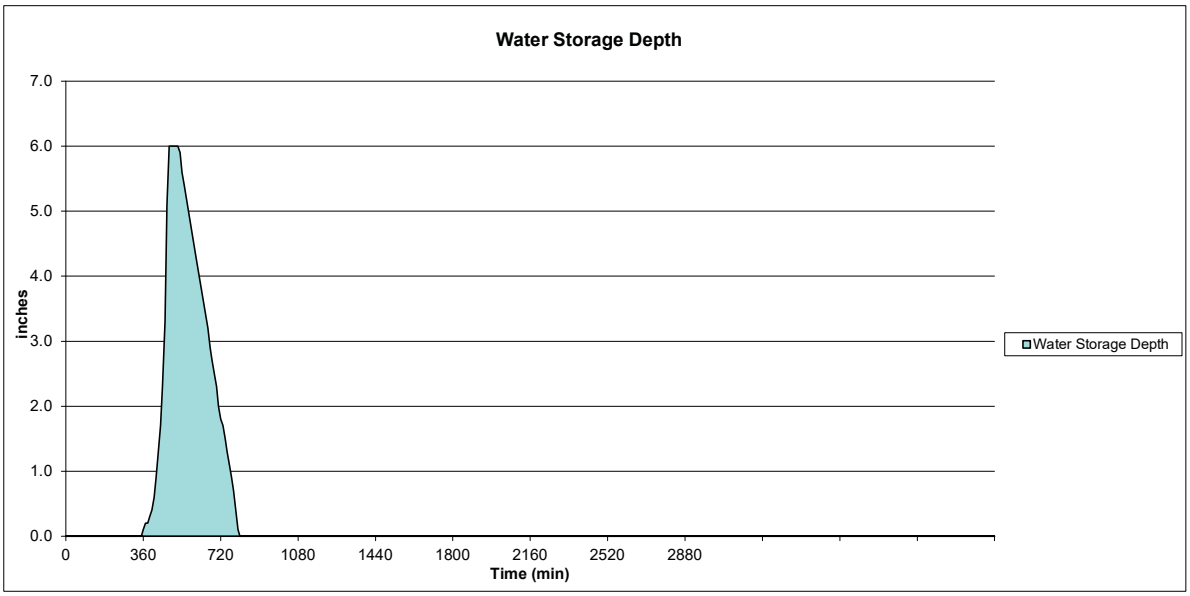




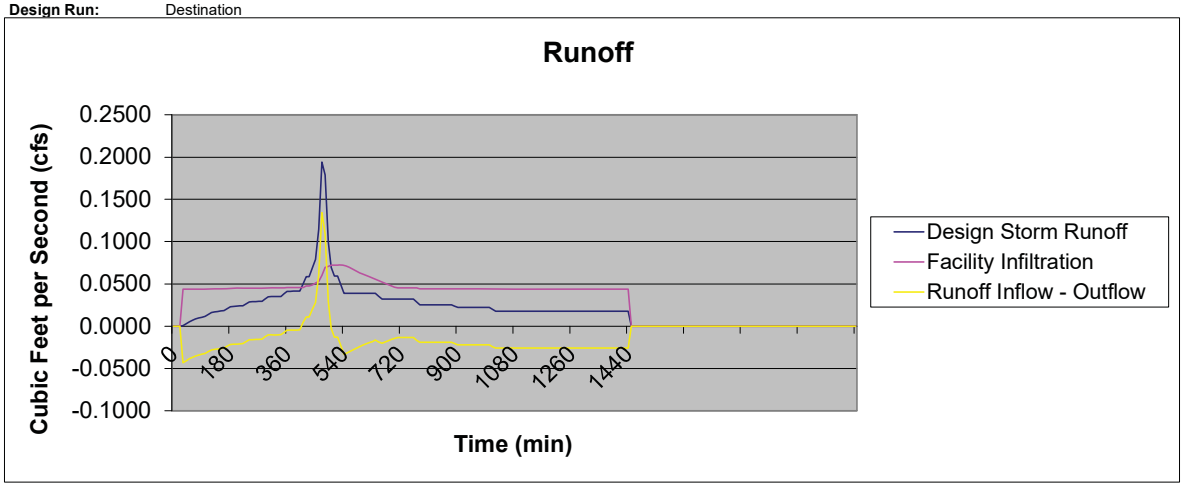
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1A
Design Run: Flow Control

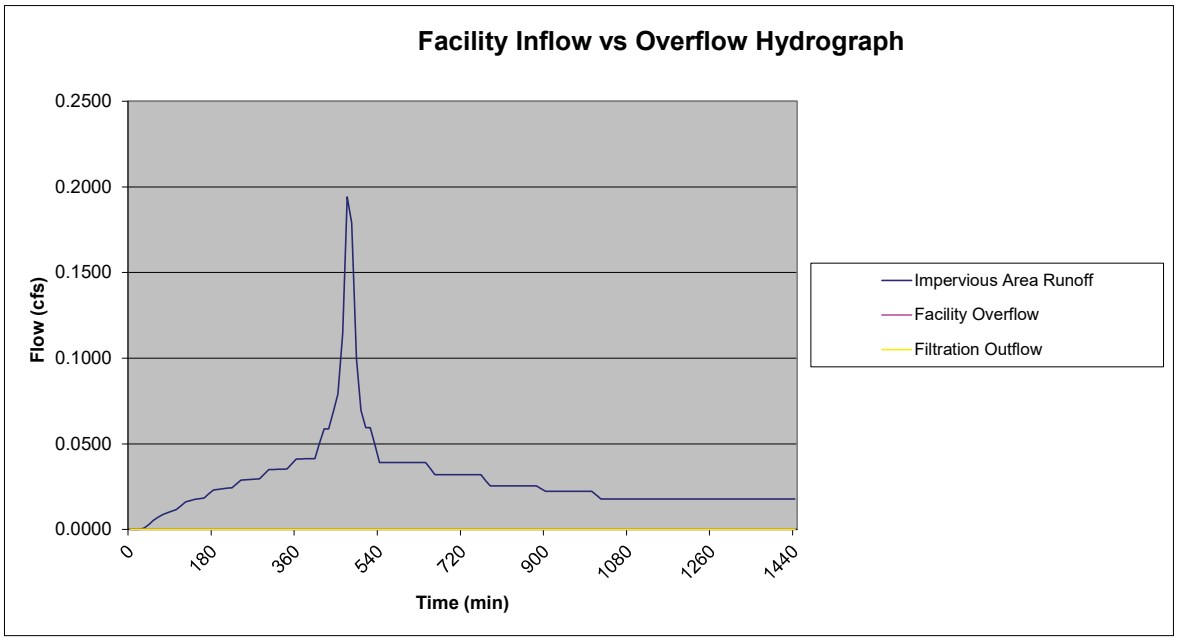


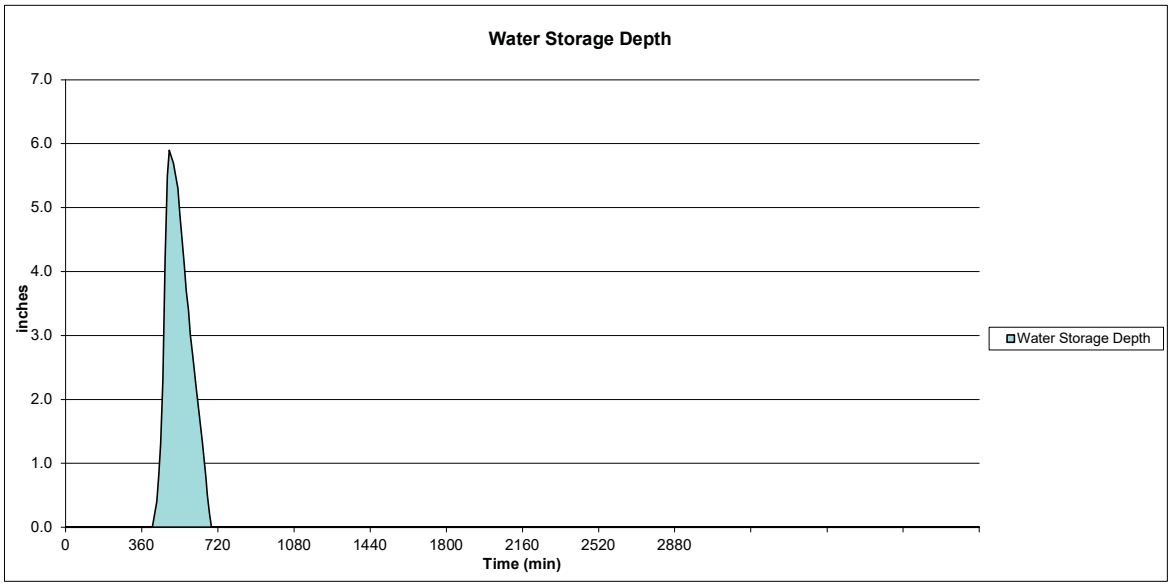




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1A
Design Run: Destination







Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet
24 Hour Storm, NRCS Type 1A Rainfall Distribution
City of Eugene

Version 2.1

Project Information

Project Name:	Three Mile Prairie	**Date:**	12/30/2020
Project Address:	18-12-15-00-00200	**Permit Number:**	NA
	Florence, OR	**Catchment ID:**	1B
Designer:	Clint Beecroft		
Company:	EGR & Associates		

Instructions:

1. Complete this form for each drainage catchment in the project site that is to be sized per the Presumptive Approach.
2. Provide a distinctive Catchment ID for each facility coordinated with the site basin map to correlate the appropriate calculations with the facility.
3. The maximum drainage catchment to be modeled per the Presumptive Approach is 1 acre (43,560 SF)
4. For infiltration facilities in Class A or B soils where no infiltration testing has been perfromed use an infiltration rate of 0.5 in/hr. For all facilities use a maximum soil infiltration rate of 2.5 in/hr for topsoil/growing medium.

Design Requirements:

Choose "Yes" from the dropdown boxes below next to the design standards requirements for this facility.

Pollution Reduction (PR)	Yes
Flow Control (FC)	Yes
Destination (DT)	Yes

*An infiltration facility must be chosen as the facility type to meet destination requirements

Site Data-Post Development

Total Square Footage Impervious Area=	8605	sqft	**Total Square Footage Pervious Area=**	0	sqft
Impervious Area CN=	98		**Pervious Area CN=**	85	
Total Square Footage of Drainage Area=	8605	sft	**Time of Concentration Post Development=**	5	min
Weighted Average CN=	98				

Site Data-Pre Development (Data in this section is only used if Flow Control is required)

Pre-Development CN=	98		**Time of Concentration Pre-Development=**	5	min

Soil Data

Tested Soil Infiltration Rate=	10	in/hr (See Note 4)	**Destination Design=**	5	in/hr
Design Soil Infiltration Rate=	4	in/hr	**Soil Infiltration Rate**		

Design Storms Used For Calculations

Requirement	Rainfall Depth		Design Storm
Pollution Reduction	0.8	inches	Water Quality
Flow Control	5.1	inches	Flood Control
Destination	5.1	inches	Flood Control

Facility Data

Facility Type=	Infiltration Stormwater Planter		**Facility Surface Area=**	672.6	sqft
Surface Width=	3.8	ft	**Facility Surface Perimeter=**	361.6	ft
Surface Length=	177	ft	**Facility Bottom Area=**	673	sqft
Facility Side Slopes=	0	to 1	**Facility Bottom Perimeter=**	362	ft
Max. Ponding Depth in Stormwater Facility=	6	in	**Basin Volume=**	336.3	cf
Depth of Growing Medium (Soil)=	18	in	**Ratio of Facility Area to Impervious Area=**	0.078	

Pollution Reduction-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.036	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	448	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	0.0	in			
Drawdown Time=	0.2	hours			

Yes **Facility Sizing Meets Pollution Reduction Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

Flow Control-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.263	cfs	Peak Facility Overflow Rate=	0.073	cfs
Total Runoff Volume to Stormwater Facility =	3451	cf	Total Overflow Volume=	106	cf
Max. Depth of Stormwater in Facility=	6.0	in	Peak Off-Site Flow Rate Filtration Facility Underdrain=	N\A	cfs
Drawdown Time=	0.2	hours			

Pre-Development Runoff Data

Peak Flow Rate =	0.263	cfs
Total Runoff Volume =	3459	cf

Yes **Facility Sizing Meets Flow Control Standards?**

YES **Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

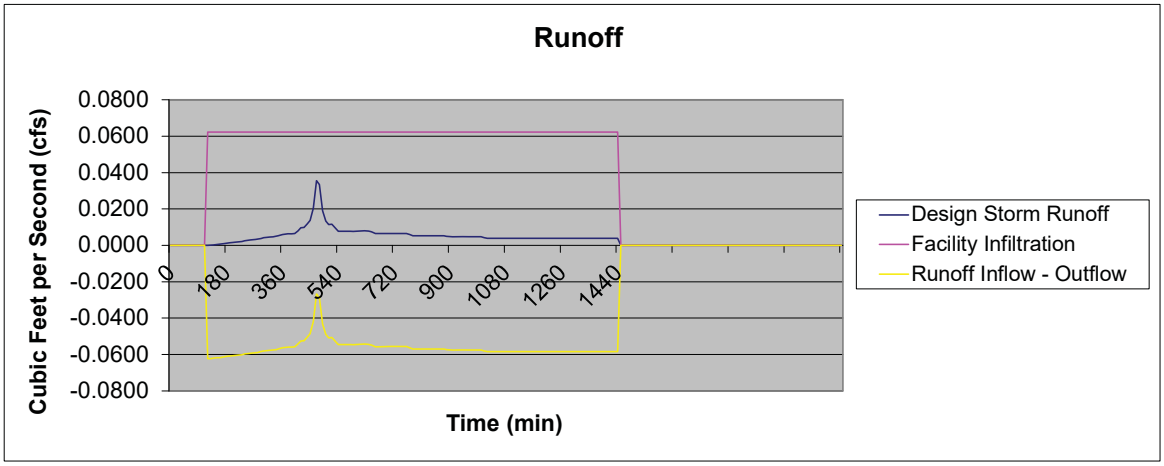
Destination-Calculation Results

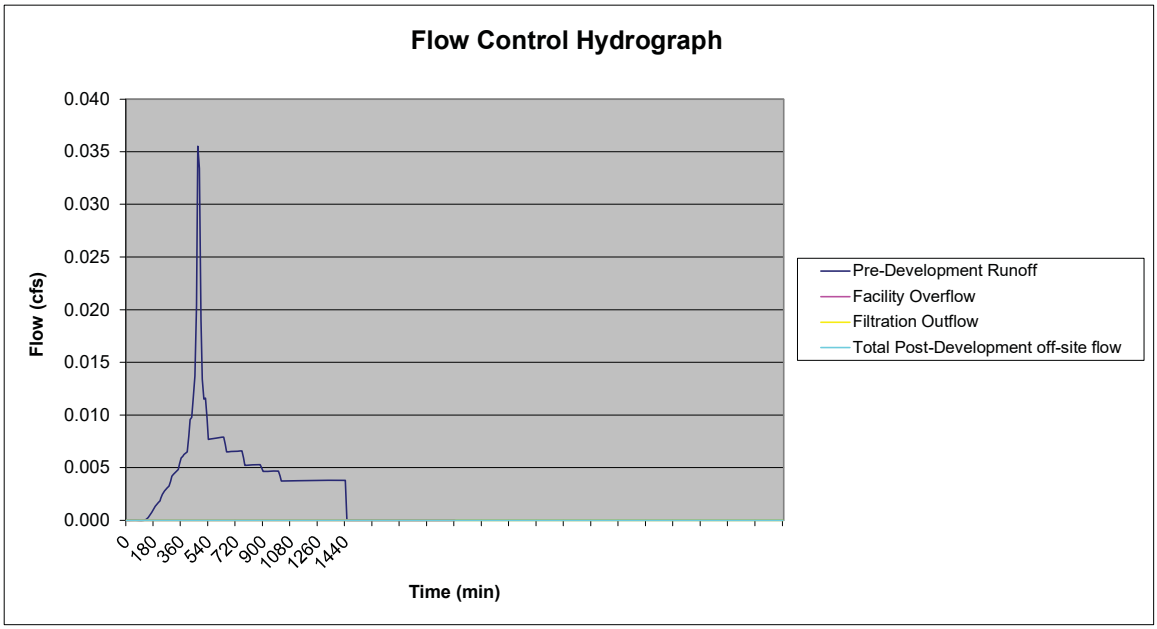
Peak Flow Rate to Stormwater Facility =	0.263	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	3451	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	5.9	in			
Drawdown Time=	0.2	hours			

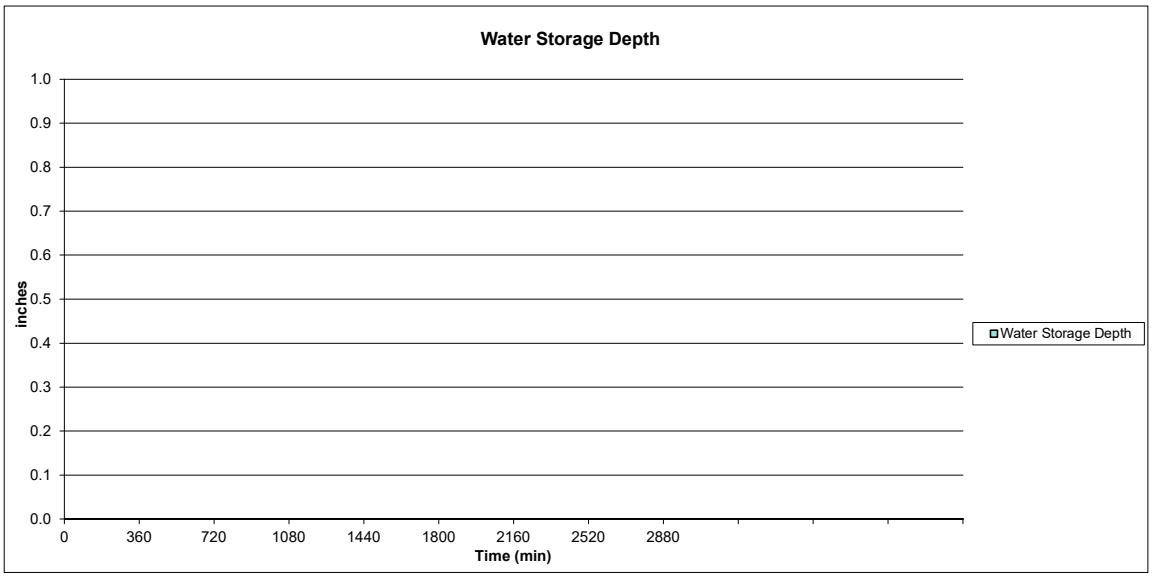
Yes **Facility Sizing Meets Destination Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 30 hour Drawdown Time?**

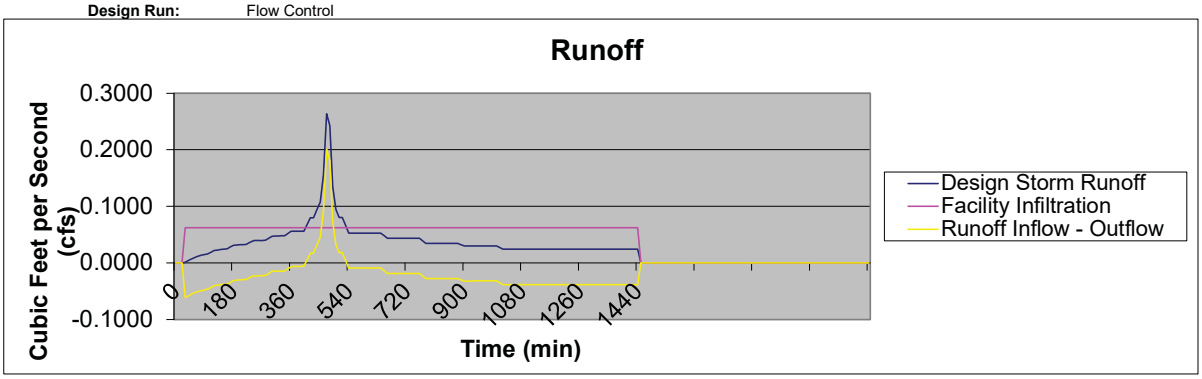
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1B
Design Run: Pollution Reduction

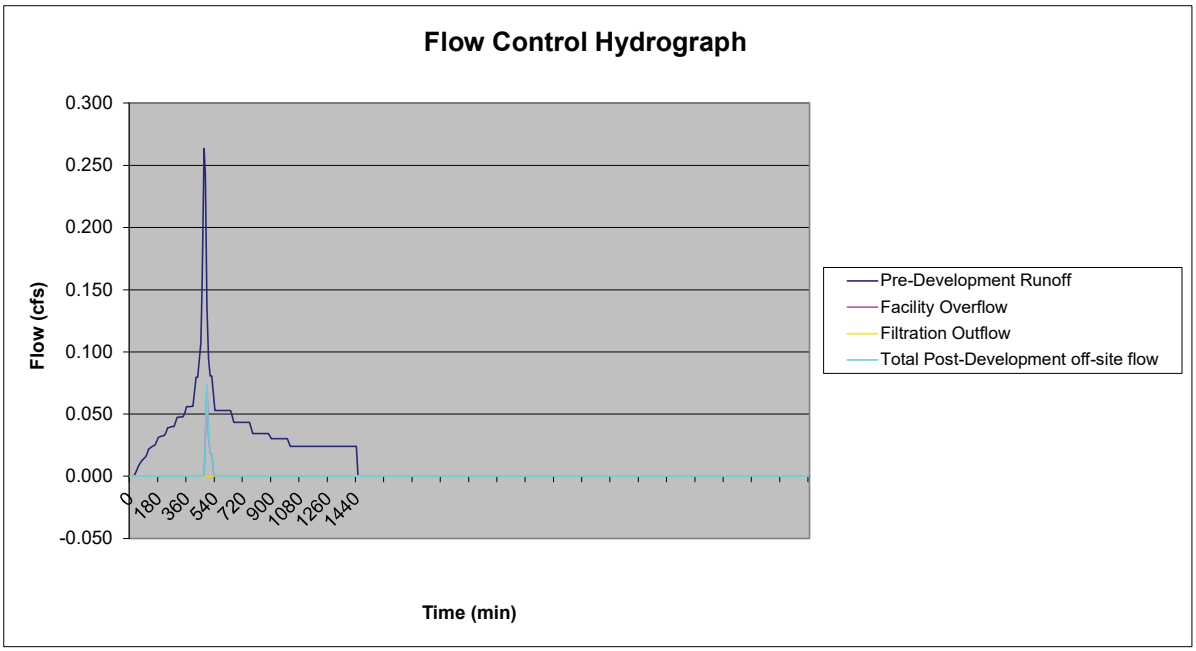


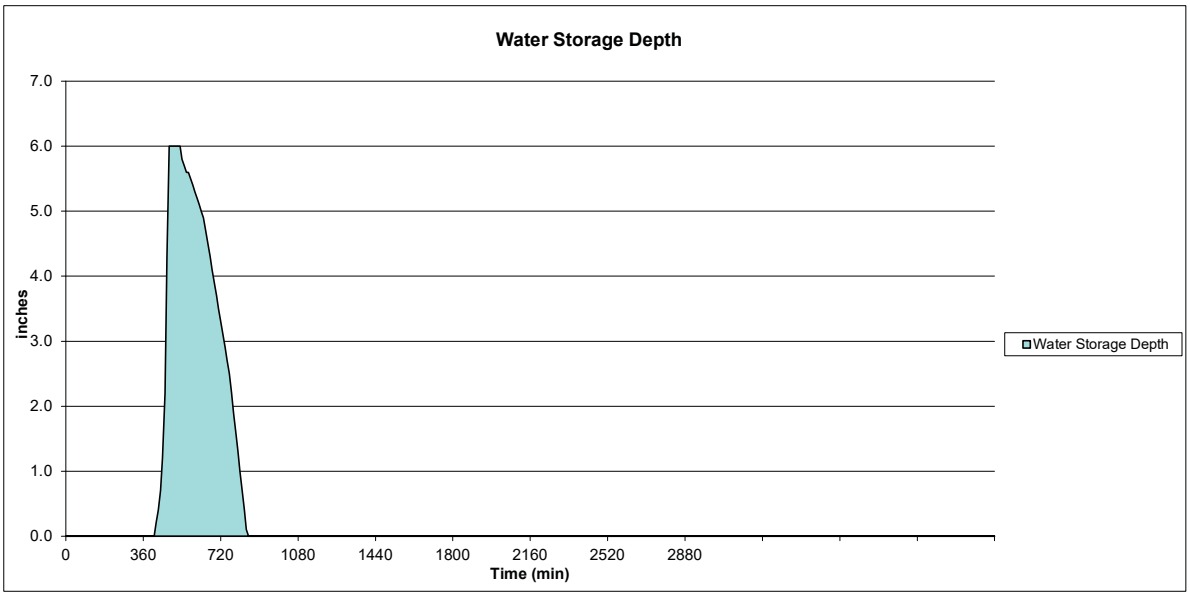




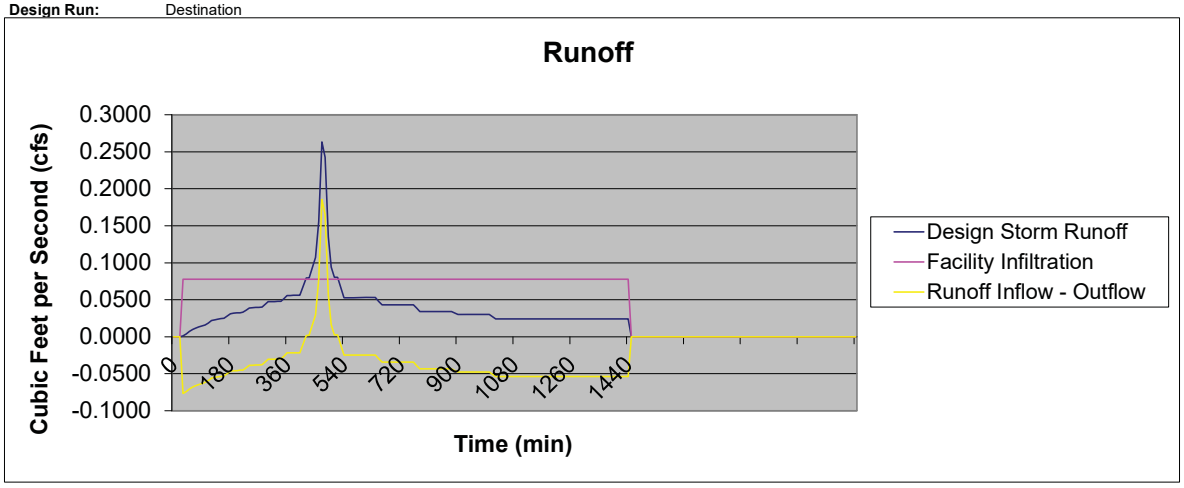
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1B
Design Run: Flow Control

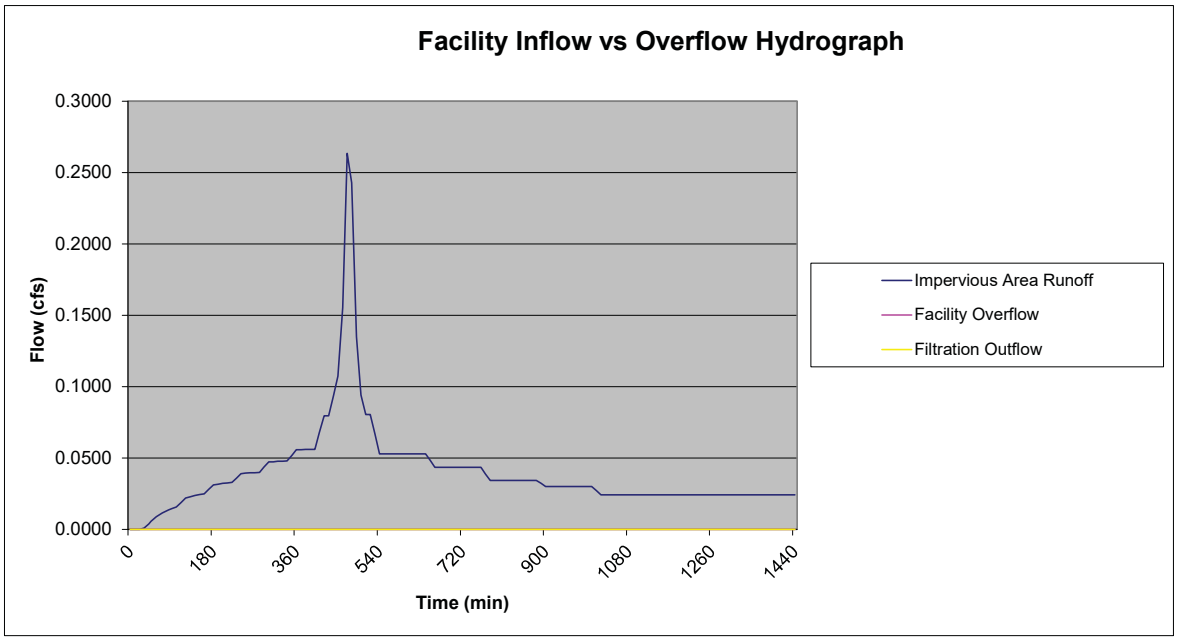


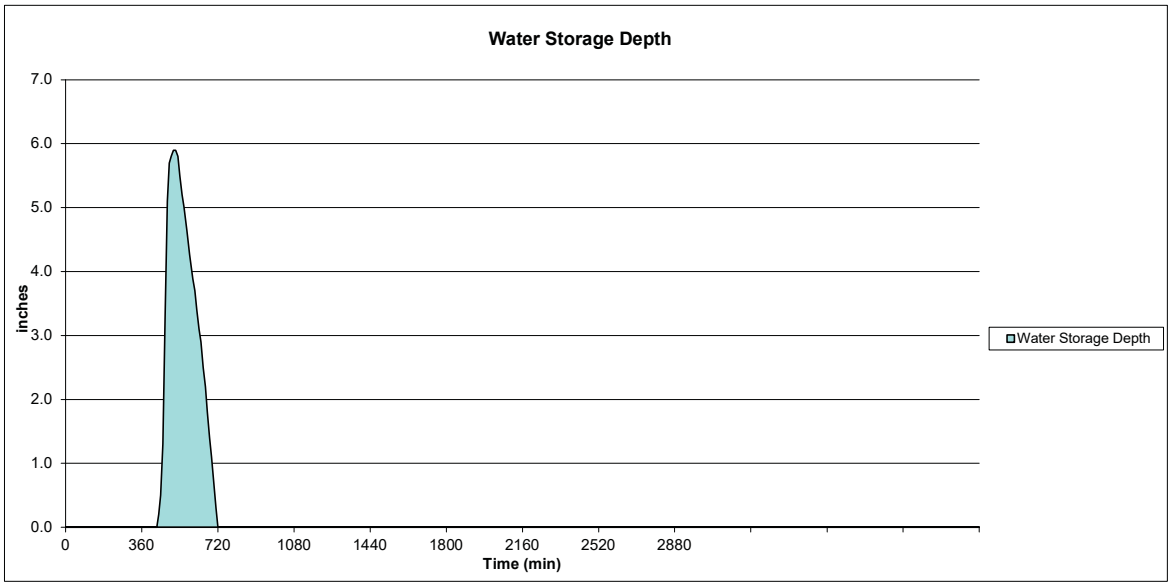




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1B
Design Run: Destination







Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet
24 Hour Storm, NRCS Type 1A Rainfall Distribution
City of Eugene

Version 2.1

Project Information

Project Name:	Three Mile Prairie	**Date:**	12/30/2020
Project Address:	18-12-15-00-00200	**Permit Number:**	NA
	Florence, OR	**Catchment ID:**	1C
Designer:	Clint Beecroft		
Company:	EGR & Associates		

Instructions:

1. Complete this form for each drainage catchment in the project site that is to be sized per the Presumptive Approach.
2. Provide a distinctive Catchment ID for each facility coordinated with the site basin map to correlate the appropriate calculations with the facility.
3. The maximum drainage catchment to be modeled per the Presumptive Approach is 1 acre (43,560 SF)
4. For infiltration facilities in Class A or B soils where no infiltration testing has been perfromed use an infiltration rate of 0.5 in/hr. For all facilities use a maximum soil infiltration rate of 2.5 in/hr for topsoil/growing medium.

Design Requirements:

Choose "Yes" from the dropdown boxes below next to the design standards requirements for this facility.

Pollution Reduction (PR)	Yes
Flow Control (FC)	Yes
Destination (DT)	Yes

*An infiltration facility must be chosen as the facility type to meet destination requirements

Site Data-Post Development

Total Square Footage Impervious Area=	8587	sqft	**Total Square Footage Pervious Area=**	0	sqft
Impervious Area CN=	98		**Pervious Area CN=**	85	
Total Square Footage of Drainage Area=	8587	sft	**Time of Concentration Post Development=**	5	min
Weighted Average CN=	98				

Site Data-Pre Development (Data in this section is only used if Flow Control is required)

Pre-Development CN=	98		**Time of Concentration Pre-Development=**	5	min

Soil Data

Tested Soil Infiltration Rate=	10	in/hr (See Note 4)	**Destination Design=**	5	in/hr
Design Soil Infiltration Rate=	4	in/hr	**Soil Infiltration Rate**		

Design Storms Used For Calculations

Requirement	Rainfall Depth		Design Storm
Pollution Reduction	0.8	inches	Water Quality
Flow Control	5.1	inches	Flood Control
Destination	5.1	inches	Flood Control

Facility Data

Facility Type=	Infiltration Stormwater Planter		**Facility Surface Area=**	839.3	sqft
Surface Width=	7.7	ft	**Facility Surface Perimeter=**	233.4	ft
Surface Length=	109	ft	**Facility Bottom Area=**	498	sqft
Facility Side Slopes=	3	to 1	**Facility Bottom Perimeter=**	221	ft
Max. Ponding Depth in Stormwater Facility=	6	in	**Basin Volume=**	336.6	cf
Depth of Growing Medium (Soil)=	18	in	**Ratio of Facility Area to Impervious Area=**	0.098	

Pollution Reduction-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.035	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	448	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	0.0	in			
Drawdown Time=	0.2	hours			

Yes **Facility Sizing Meets Pollution Reduction Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

Flow Control-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.263	cfs	Peak Facility Overflow Rate=	0.073	cfs
Total Runoff Volume to Stormwater Facility =	3444	cf	Total Overflow Volume=	91	cf
Max. Depth of Stormwater in Facility=	6.0	in	Peak Off-Site Flow Rate Filtration Facility Underdrain=	N\A	cfs
Drawdown Time=	0.2	hours			

Pre-Development Runoff Data

Peak Flow Rate =	0.263	cfs
Total Runoff Volume =	3451	cf

Yes **Facility Sizing Meets Flow Control Standards?**

YES **Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

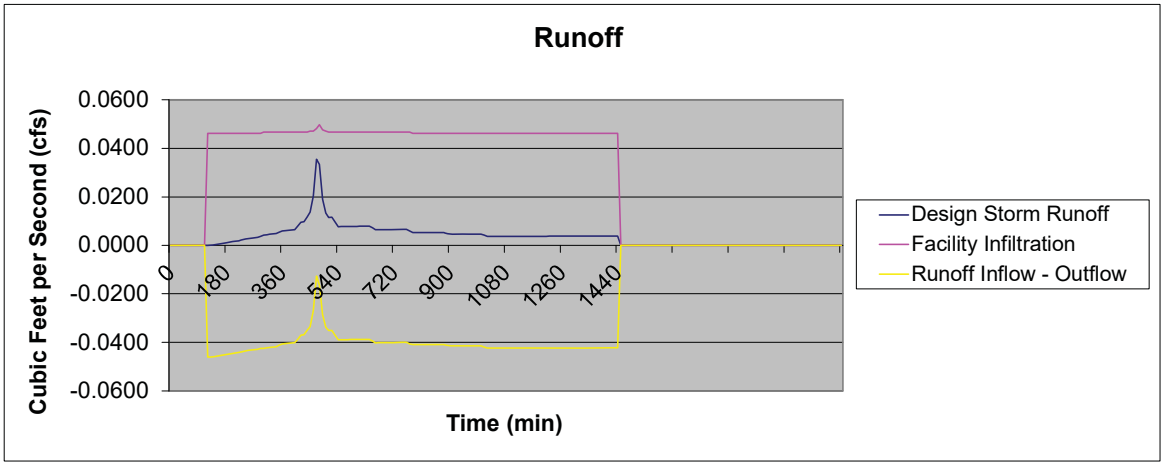
Destination-Calculation Results

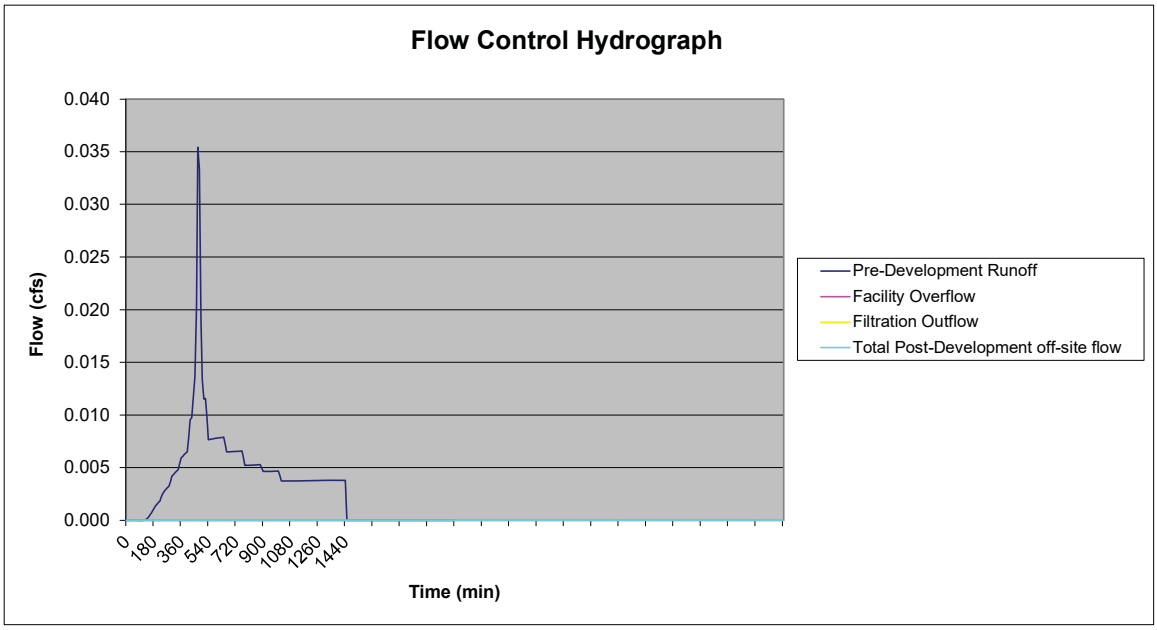
Peak Flow Rate to Stormwater Facility =	0.263	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	3444	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	5.9	in			
Drawdown Time=	0.2	hours			

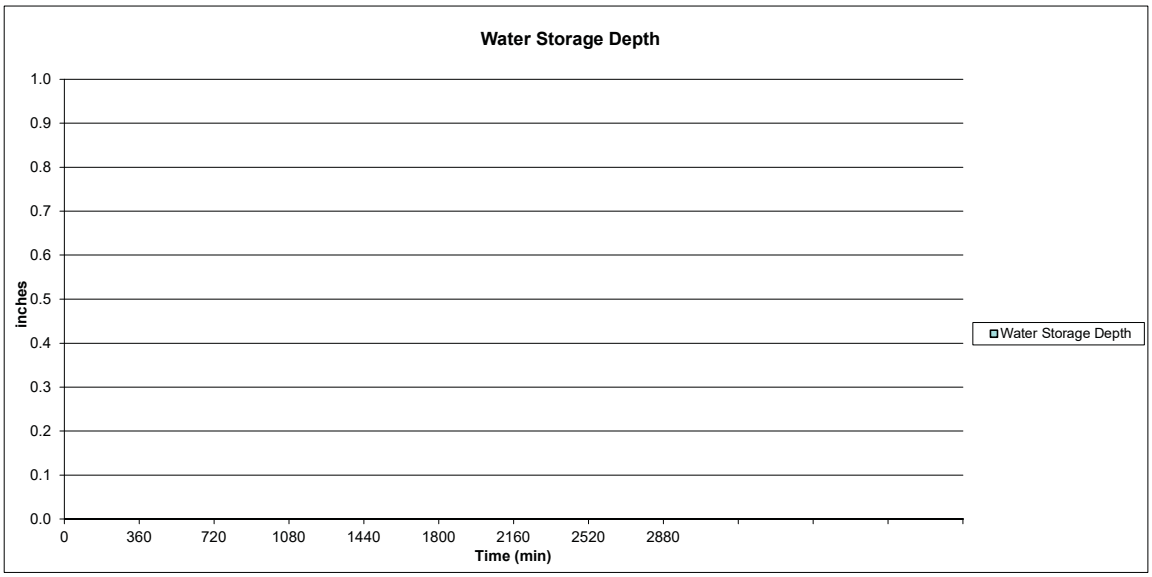
Yes **Facility Sizing Meets Destination Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 30 hour Drawdown Time?**

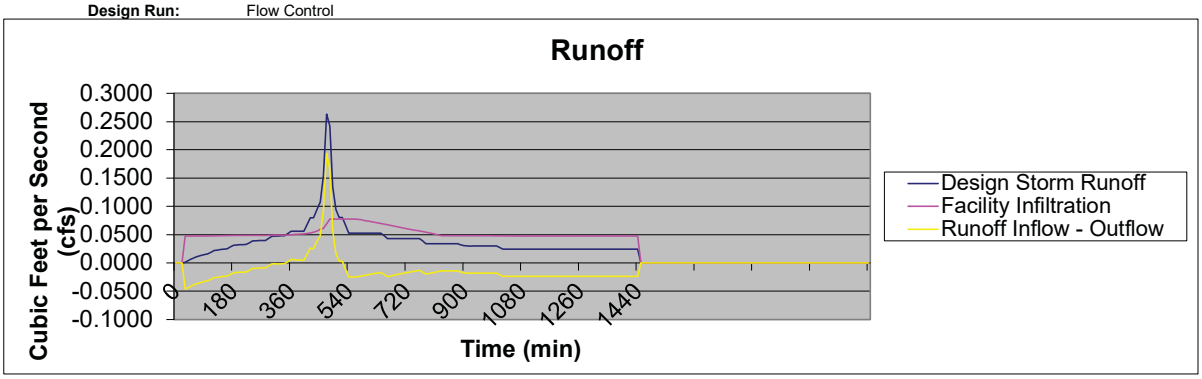
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1C
Design Run: Pollution Reduction

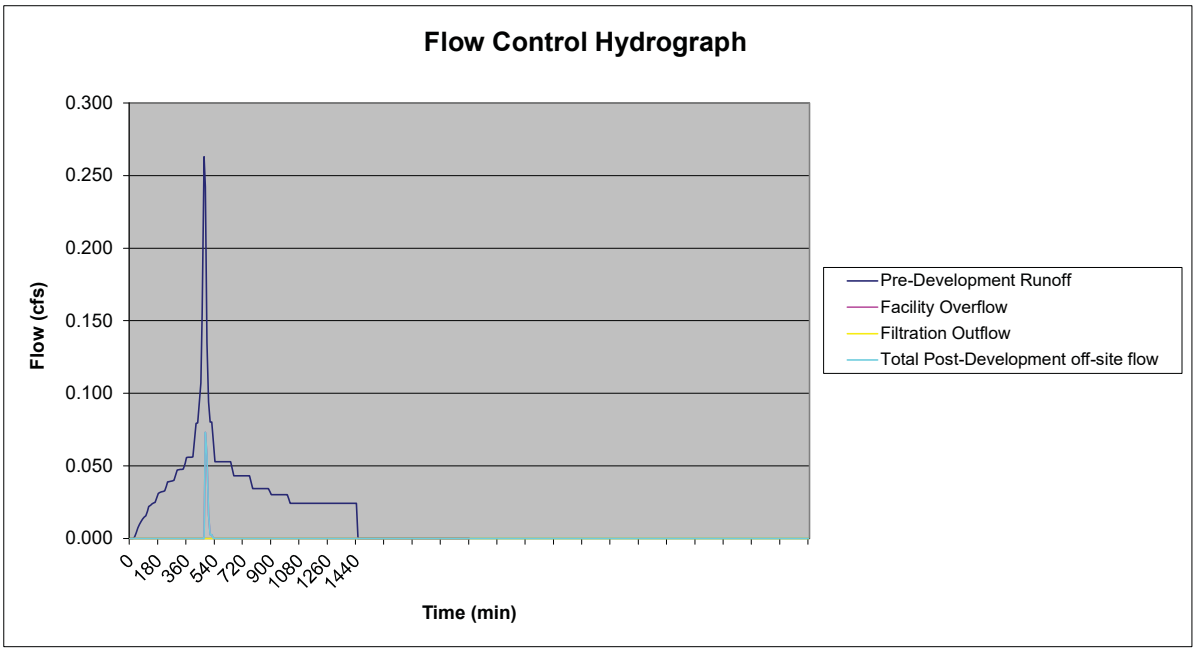


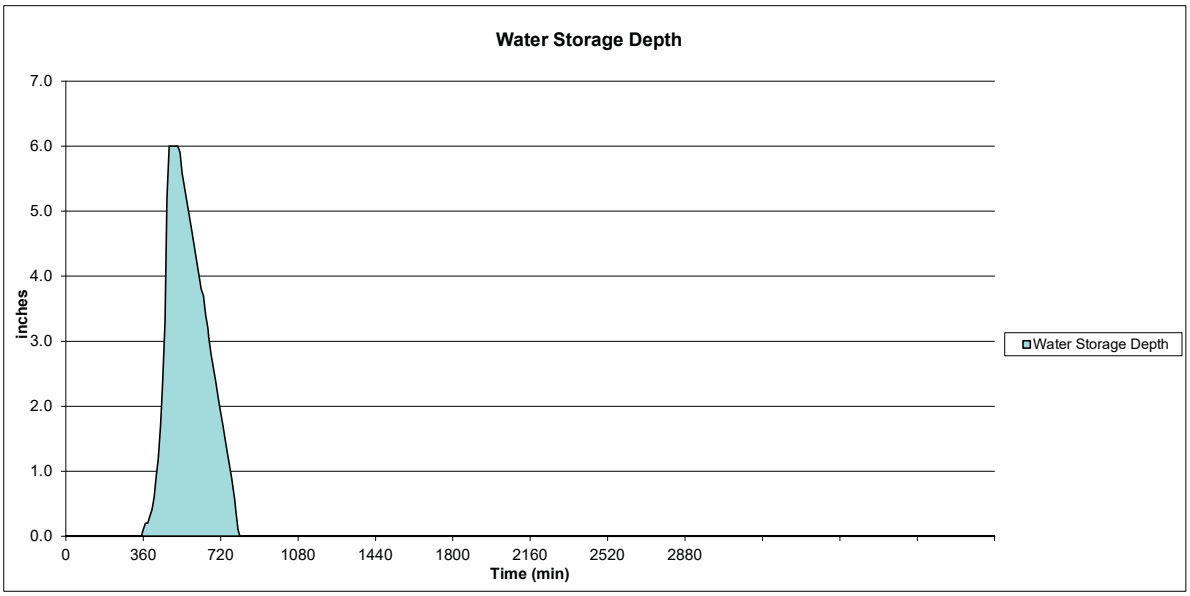




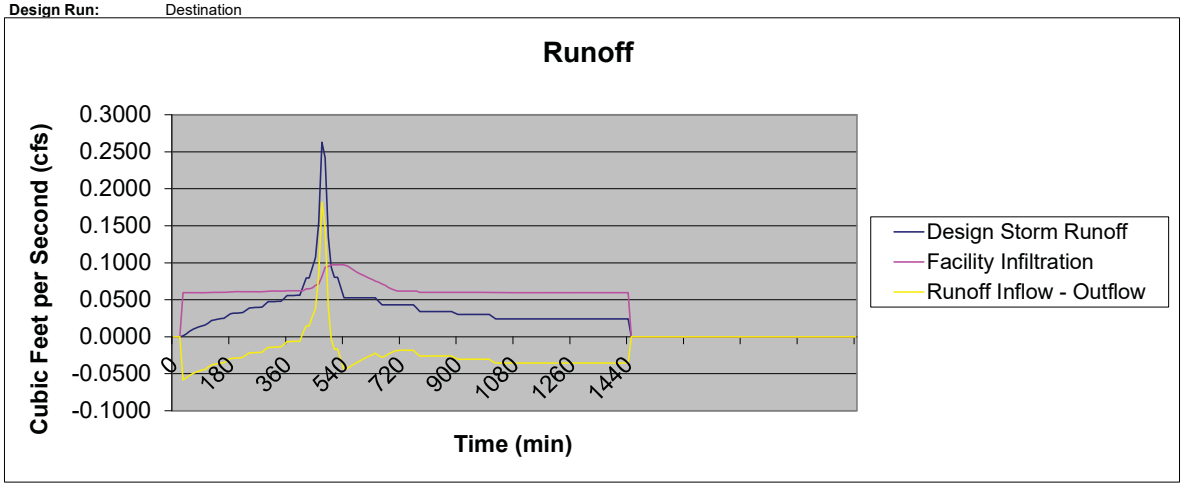
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1C
Design Run: Flow Control

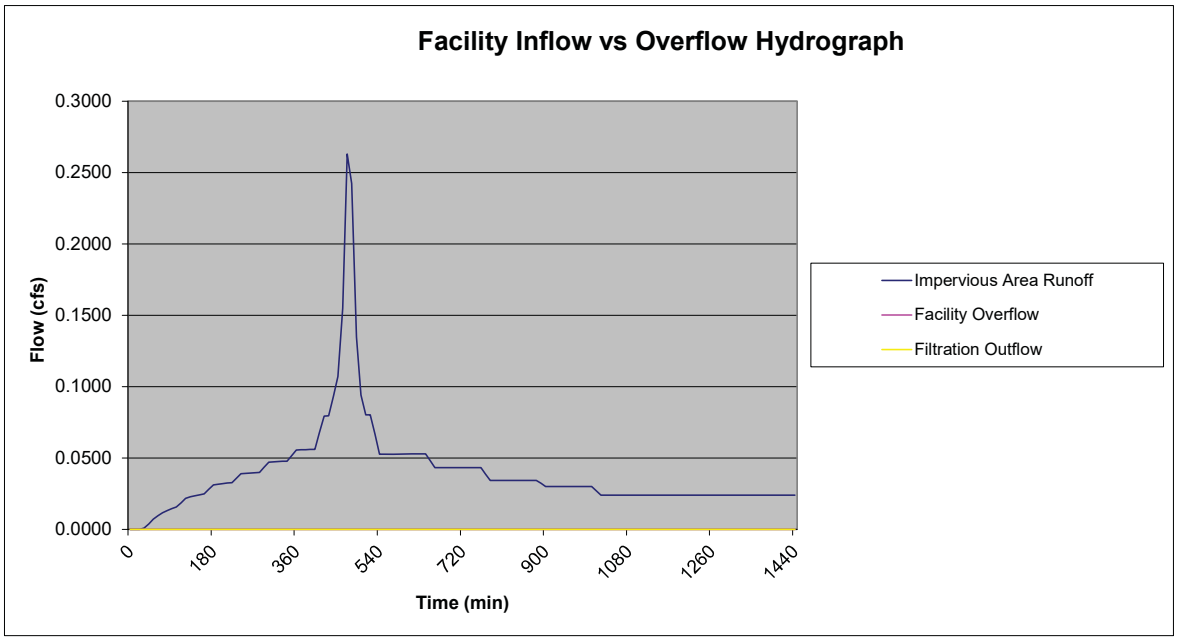


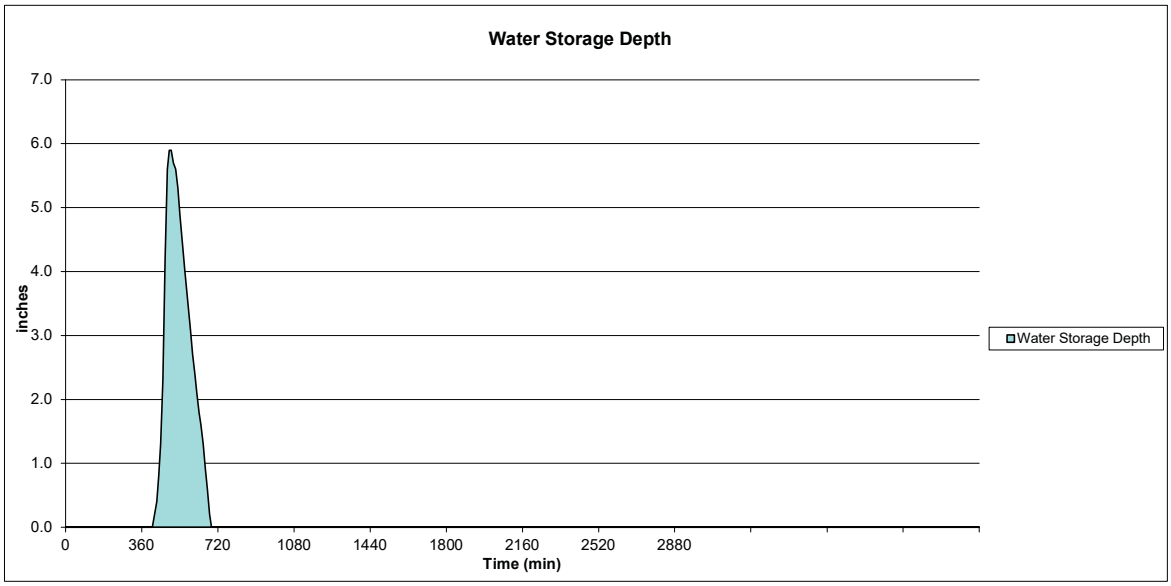




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1C
Design Run: Destination







Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet
24 Hour Storm, NRCS Type 1A Rainfall Distribution
City of Eugene

Version 2.1

Project Information

Project Name:	Three Mile Prairie	**Date:**	12/30/2020
Project Address:	18-12-15-00-00200	**Permit Number:**	NA
	Florence, OR	**Catchment ID:**	1D
Designer:	Clint Beecroft		
Company:	EGR & Associates		

Instructions:

1. Complete this form for each drainage catchment in the project site that is to be sized per the Presumptive Approach.
2. Provide a distinctive Catchment ID for each facility coordinated with the site basin map to correlate the appropriate calculations with the facility.
3. The maximum drainage catchment to be modeled per the Presumptive Approach is 1 acre (43,560 SF)
4. For infiltration facilities in Class A or B soils where no infiltration testing has been perfromed use an infiltration rate of 0.5 in/hr. For all facilities use a maximum soil infiltration rate of 2.5 in/hr for topsoil/growing medium.

Design Requirements:

Choose "Yes" from the dropdown boxes below next to the design standards requirements for this facility.

Pollution Reduction (PR)	Yes
Flow Control (FC)	Yes
Destination (DT)	Yes

*An infiltration facility must be chosen as the facility type to meet destination requirements

Site Data-Post Development

Total Square Footage Impervious Area=	18685	sqft	**Total Square Footage Pervious Area=**	0	sqft
Impervious Area CN=	98		**Pervious Area CN=**	85	
Total Square Footage of Drainage Area=	18685	sft	**Time of Concentration Post Development=**	5	min
Weighted Average CN=	98				

Site Data-Pre Development (Data in this section is only used if Flow Control is required)

Pre-Development CN=	98		**Time of Concentration Pre-Development=**	5	min

Soil Data

Tested Soil Infiltration Rate=	10	in/hr (See Note 4)	**Destination Design=**	5	in/hr
Design Soil Infiltration Rate=	4	in/hr	**Soil Infiltration Rate**		

Design Storms Used For Calculations

Requirement	Rainfall Depth		Design Storm
Pollution Reduction	0.8	inches	Water Quality
Flow Control	5.1	inches	Flood Control
Destination	5.1	inches	Flood Control

Facility Data

Facility Type=	Infiltration Stormwater Planter		**Facility Surface Area=**	1809.5	sqft
Surface Width=	7.7	ft	**Facility Surface Perimeter=**	485.4	ft
Surface Length=	235	ft	**Facility Bottom Area=**	1090	sqft
Facility Side Slopes=	3	to 1	**Facility Bottom Perimeter=**	473	ft
Max. Ponding Depth in Stormwater Facility=	6	in	**Basin Volume=**	727.2	cf
Depth of Growing Medium (Soil)=	18	in	**Ratio of Facility Area to Impervious Area=**	0.097	

Pollution Reduction-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.077	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	974	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	0.0	in			
Drawdown Time=	0.2	hours			

Yes **Facility Sizing Meets Pollution Reduction Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

Flow Control-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.572	cfs	Peak Facility Overflow Rate=	0.168	cfs
Total Runoff Volume to Stormwater Facility =	7494	cf	Total Overflow Volume=	207	cf
Max. Depth of Stormwater in Facility=	6.0	in	Peak Off-Site Flow Rate Filtration Facility Underdrain=	N\A	cfs
Drawdown Time=	0.2	hours			

Pre-Development Runoff Data

Peak Flow Rate =	0.572	cfs
Total Runoff Volume =	7510	cf

Yes **Facility Sizing Meets Flow Control Standards?**

YES **Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

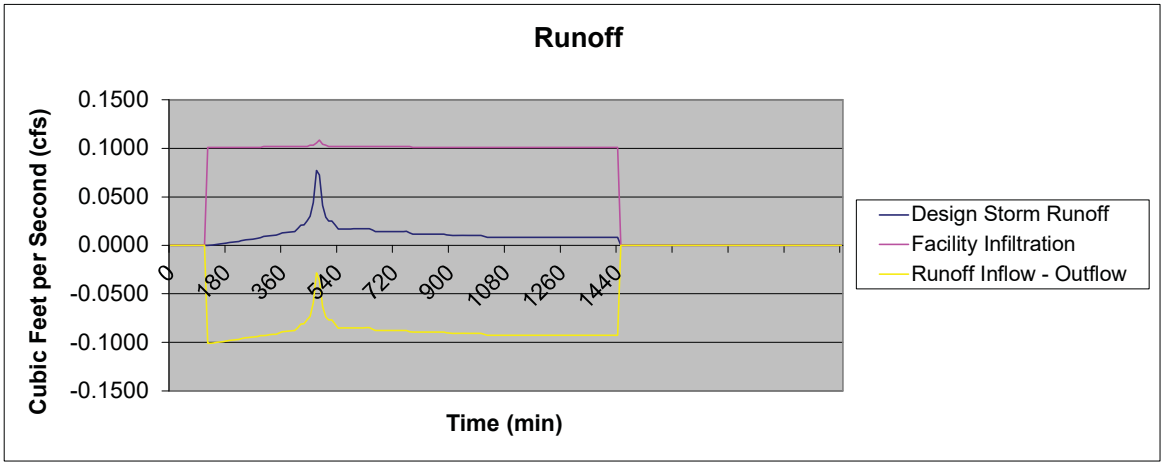
Destination-Calculation Results

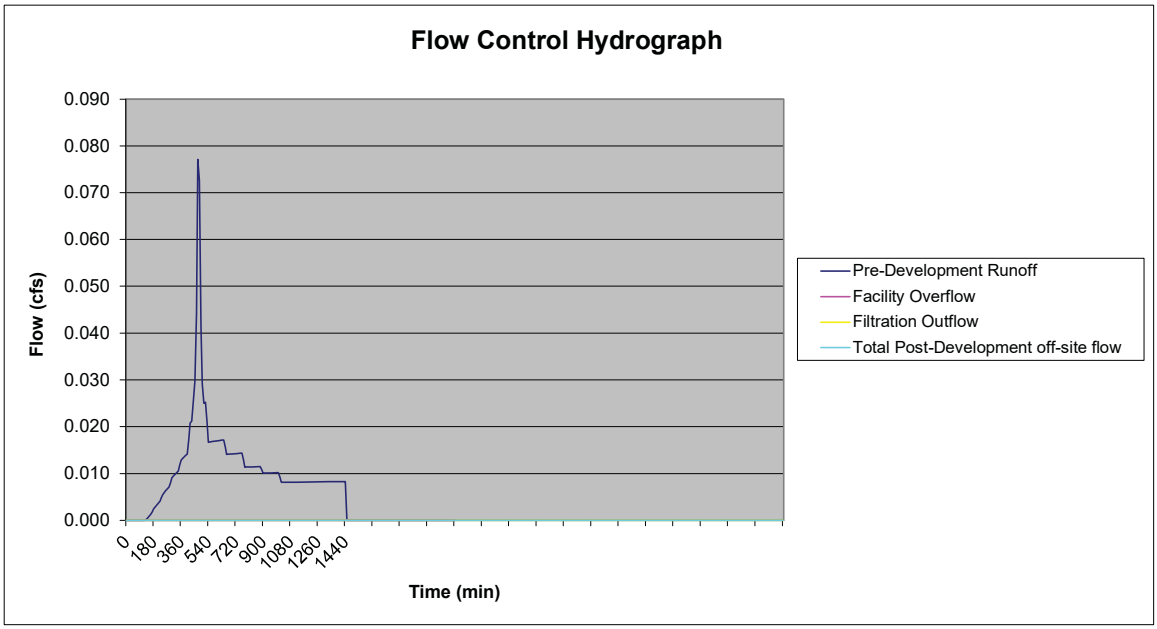
Peak Flow Rate to Stormwater Facility =	0.572	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	7494	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	5.9	in			
Drawdown Time=	0.2	hours			

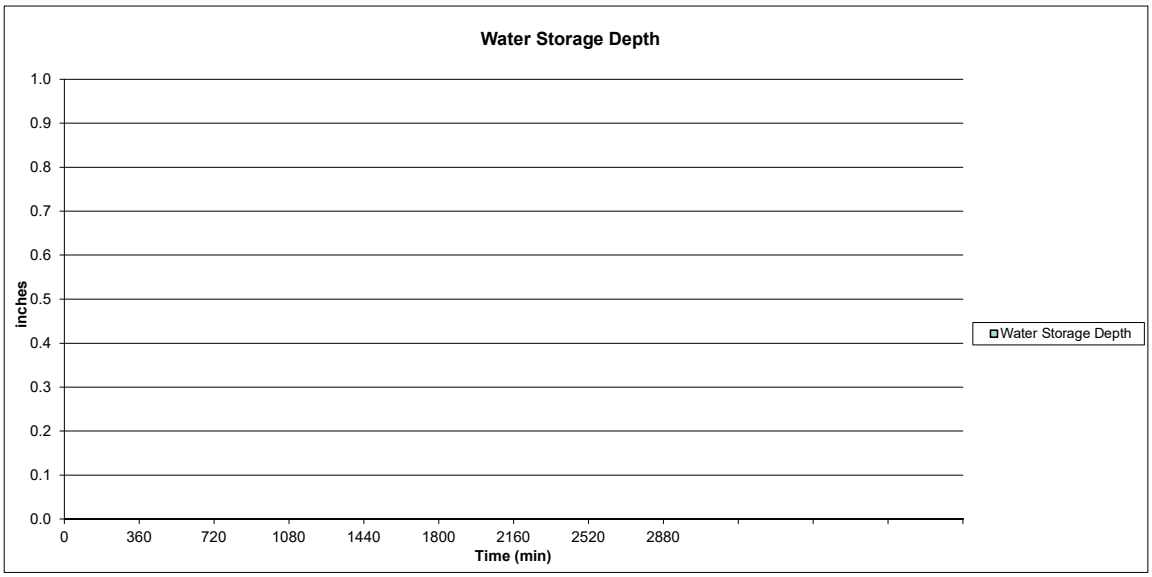
Yes **Facility Sizing Meets Destination Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 30 hour Drawdown Time?**

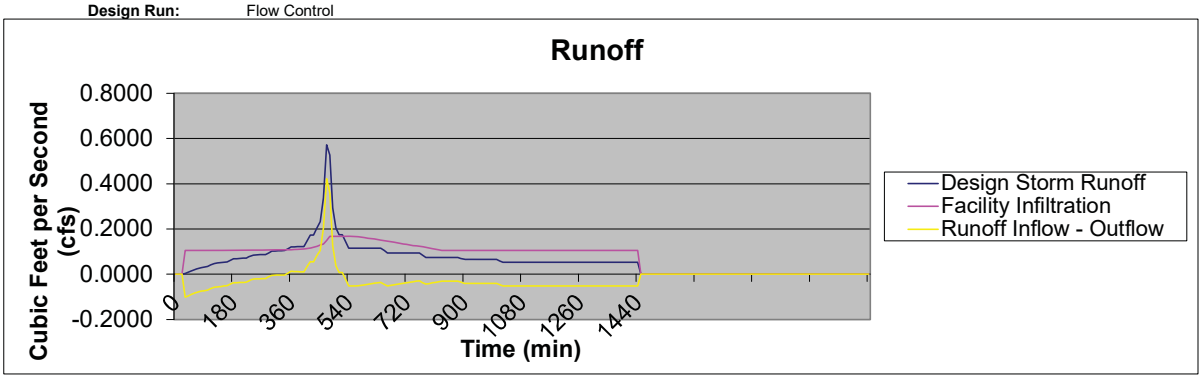
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1D
Design Run: Pollution Reduction

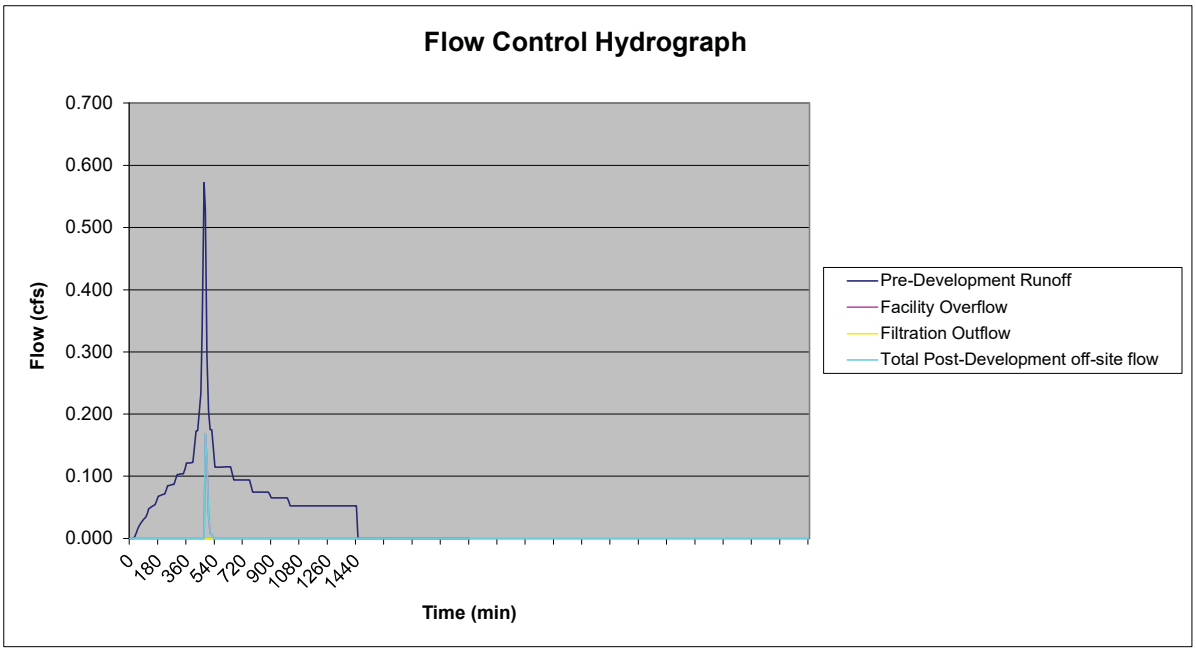


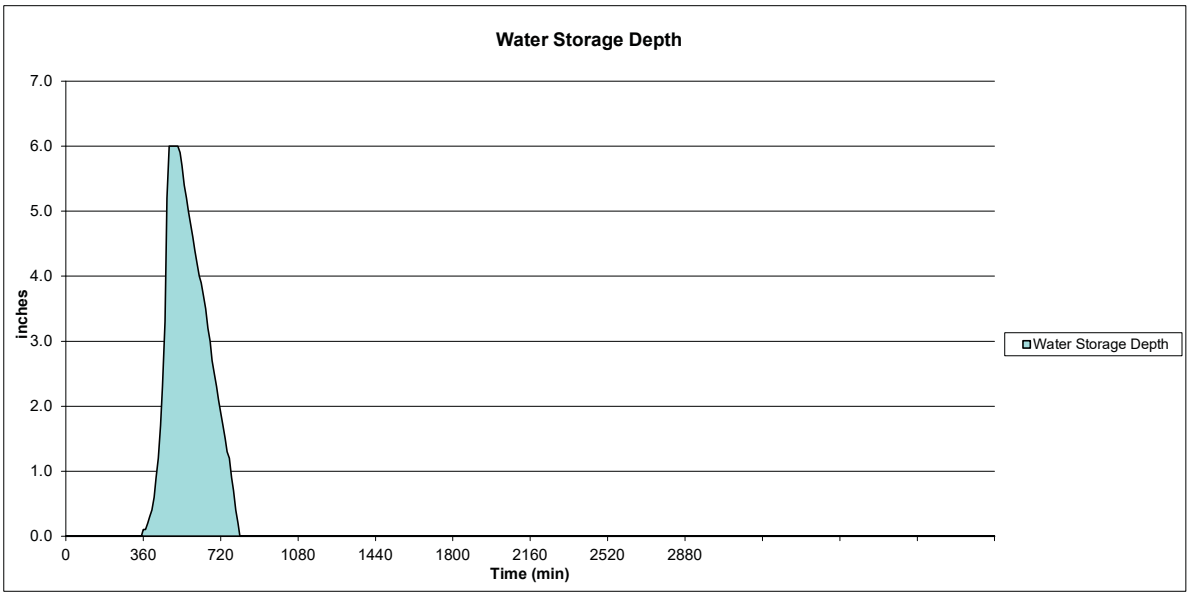




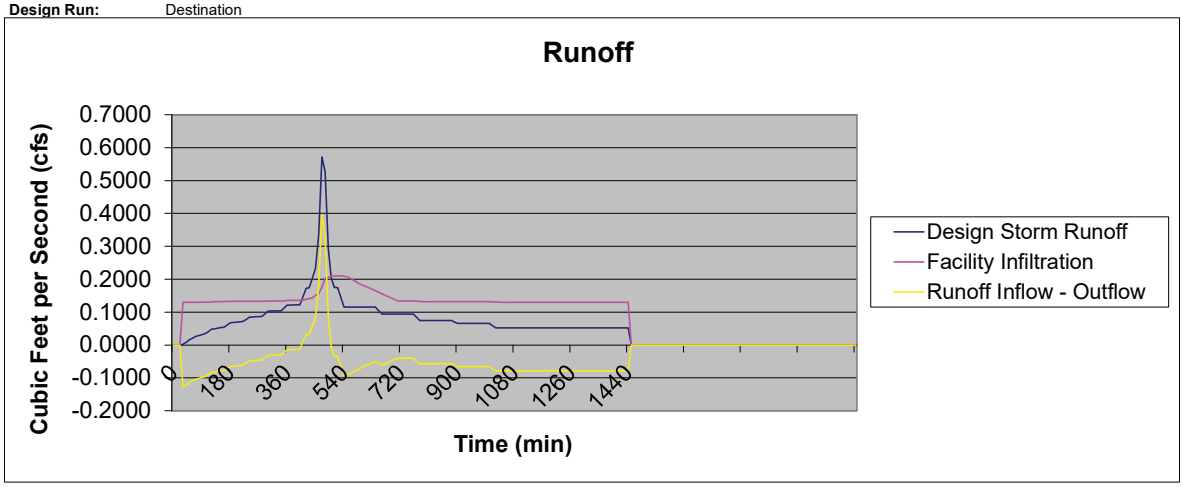
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1D
Design Run: Flow Control

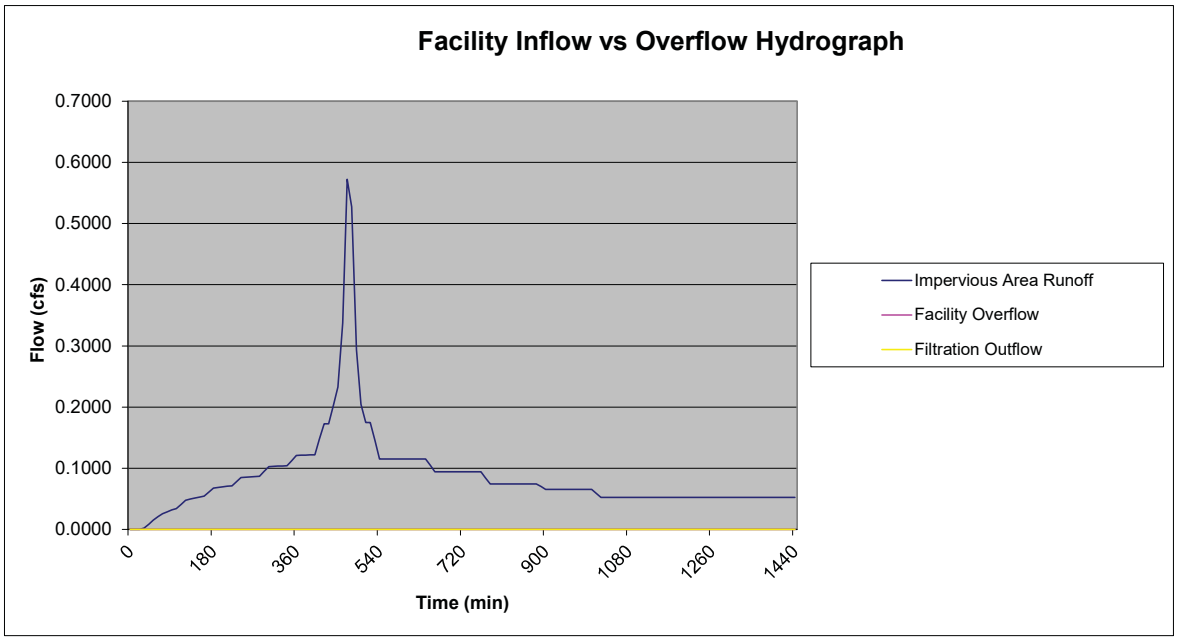


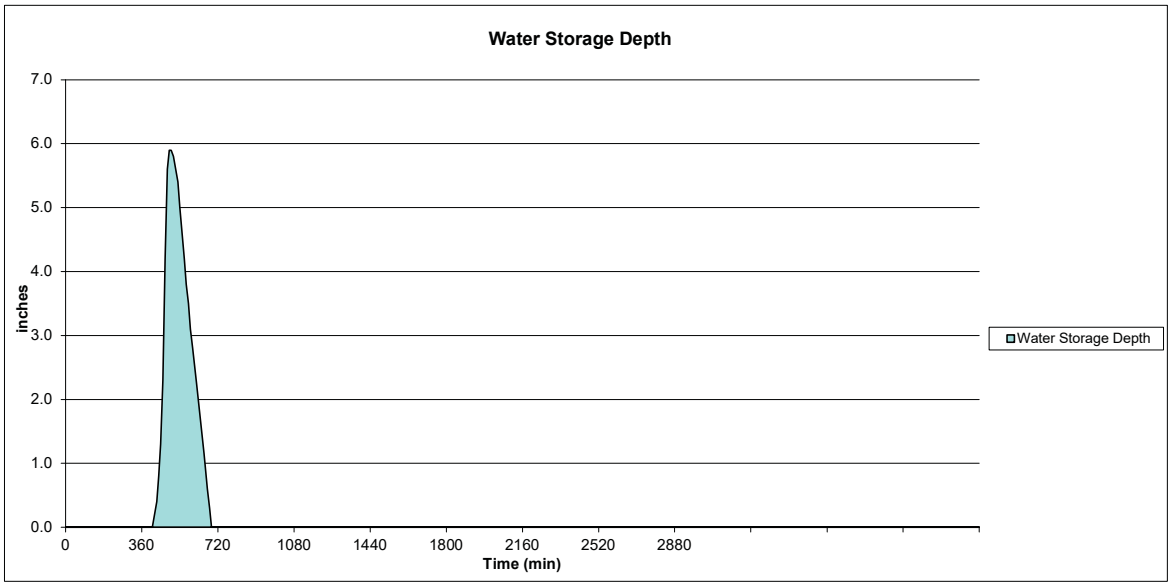




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1D
Design Run: Destination







Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet
24 Hour Storm, NRCS Type 1A Rainfall Distribution
City of Eugene

Version 2.1

Project Information

Project Name:	Three Mile Prairie	**Date:**	12/30/2020
Project Address:	18-12-15-00-00200	**Permit Number:**	NA
	Florence, OR	**Catchment ID:**	1E
Designer:	Clint Beecroft		
Company:	EGR & Associates		

Instructions:

1. Complete this form for each drainage catchment in the project site that is to be sized per the Presumptive Approach.
2. Provide a distinctive Catchment ID for each facility coordinated with the site basin map to correlate the appropriate calculations with the facility.
3. The maximum drainage catchment to be modeled per the Presumptive Approach is 1 acre (43,560 SF)
4. For infiltration facilities in Class A or B soils where no infiltration testing has been perfromed use an infiltration rate of 0.5 in/hr. For all facilities use a maximum soil infiltration rate of 2.5 in/hr for topsoil/growing medium.

Design Requirements:

Choose "Yes" from the dropdown boxes below next to the design standards requirements for this facility.

Pollution Reduction (PR)	Yes
Flow Control (FC)	Yes
Destination (DT)	Yes

*An infiltration facility must be chosen as the facility type to meet destination requirements

Site Data-Post Development

Total Square Footage Impervious Area=	9928	sqft	**Total Square Footage Pervious Area=**	0	sqft
Impervious Area CN=	98		**Pervious Area CN=**	85	
Total Square Footage of Drainage Area=	9928	sft	**Time of Concentration Post Development=**	5	min
Weighted Average CN=	98				

Site Data-Pre Development (Data in this section is only used if Flow Control is required)

Pre-Development CN=	98		**Time of Concentration Pre-Development=**	5	min

Soil Data

Tested Soil Infiltration Rate=	10	in/hr (See Note 4)	**Destination Design=**	5	in/hr
Design Soil Infiltration Rate=	4	in/hr	**Soil Infiltration Rate**		

Design Storms Used For Calculations

Requirement	Rainfall Depth		Design Storm
Pollution Reduction	0.8	inches	Water Quality
Flow Control	5.1	inches	Flood Control
Destination	5.1	inches	Flood Control

Facility Data

Facility Type=	Infiltration Stormwater Planter		**Facility Surface Area=**	970.2	sqft
Surface Width=	7.7	ft	**Facility Surface Perimeter=**	267.4	ft
Surface Length=	126	ft	**Facility Bottom Area=**	578	sqft
Facility Side Slopes=	3	to 1	**Facility Bottom Perimeter=**	255	ft
Max. Ponding Depth in Stormwater Facility=	6	in	**Basin Volume=**	389.3	cf
Depth of Growing Medium (Soil)=	18	in	**Ratio of Facility Area to Impervious Area=**	0.098	

Pollution Reduction-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.041	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	517	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	0.0	in			
Drawdown Time=	0.2	hours			

Yes **Facility Sizing Meets Pollution Reduction Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

Flow Control-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.304	cfs	Peak Facility Overflow Rate=	0.083	cfs
Total Runoff Volume to Stormwater Facility =	3982	cf	Total Overflow Volume=	104	cf
Max. Depth of Stormwater in Facility=	6.0	in	Peak Off-Site Flow Rate Filtration Facility Underdrain=	N\A	cfs
Drawdown Time=	0.2	hours			

Pre-Development Runoff Data

Peak Flow Rate =	0.304	cfs
Total Runoff Volume =	3990	cf

Yes **Facility Sizing Meets Flow Control Standards?**

YES **Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

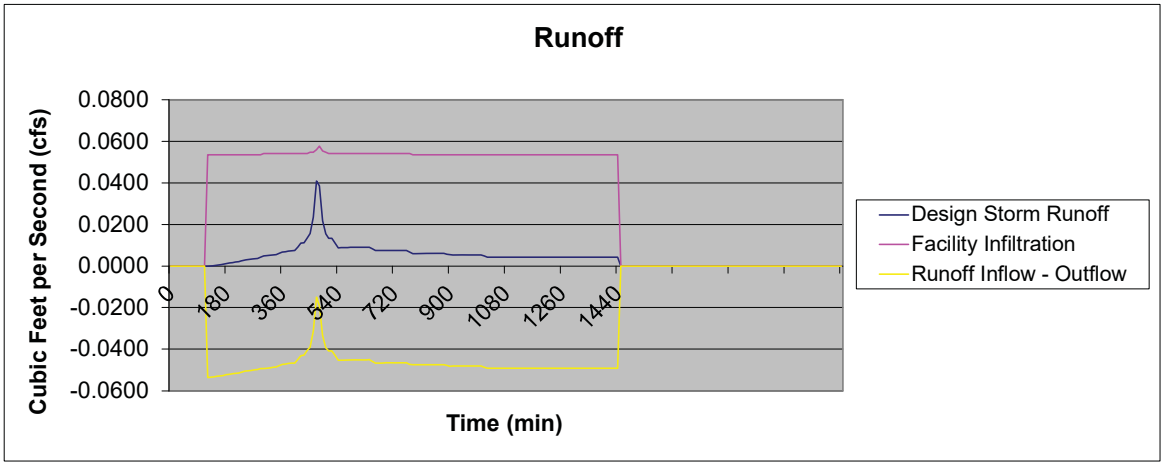
Destination-Calculation Results

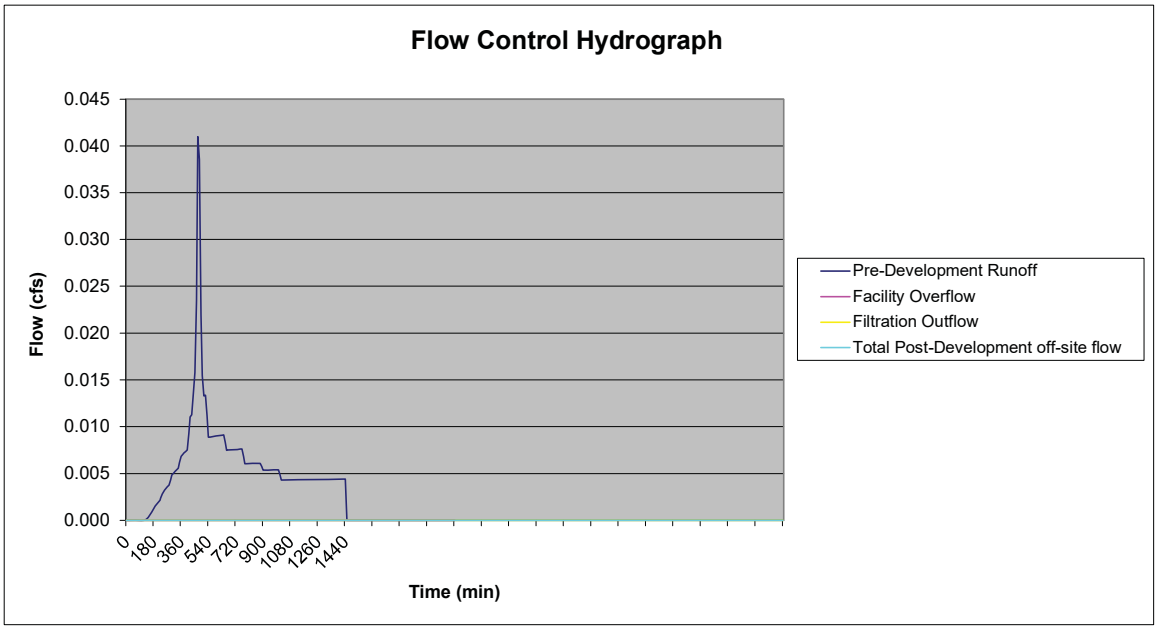
Peak Flow Rate to Stormwater Facility =	0.304	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	3982	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	5.9	in			
Drawdown Time=	0.2	hours			

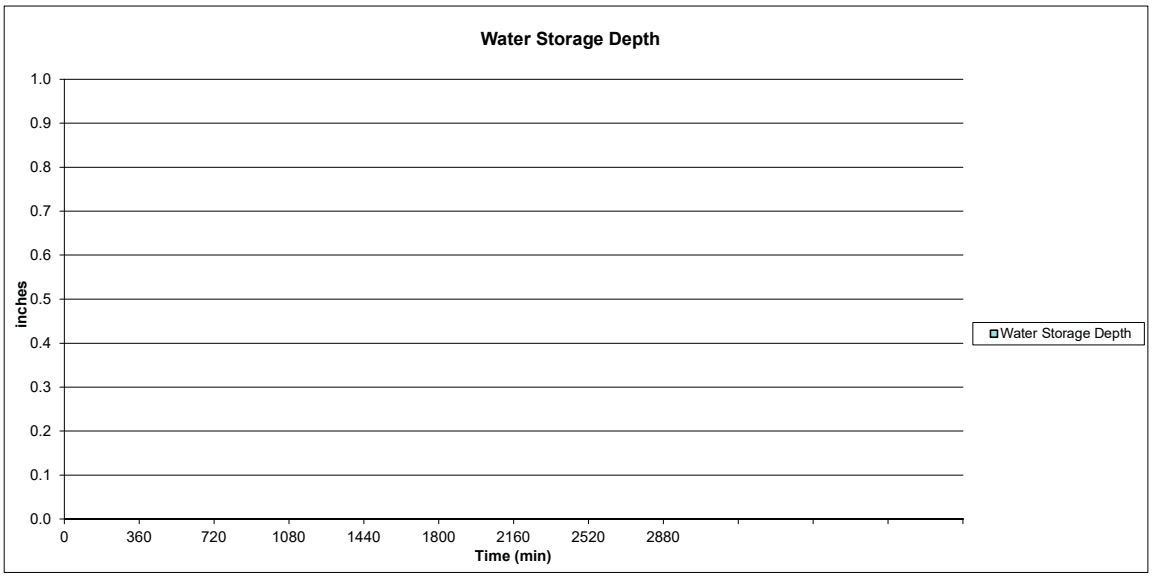
Yes **Facility Sizing Meets Destination Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 30 hour Drawdown Time?**

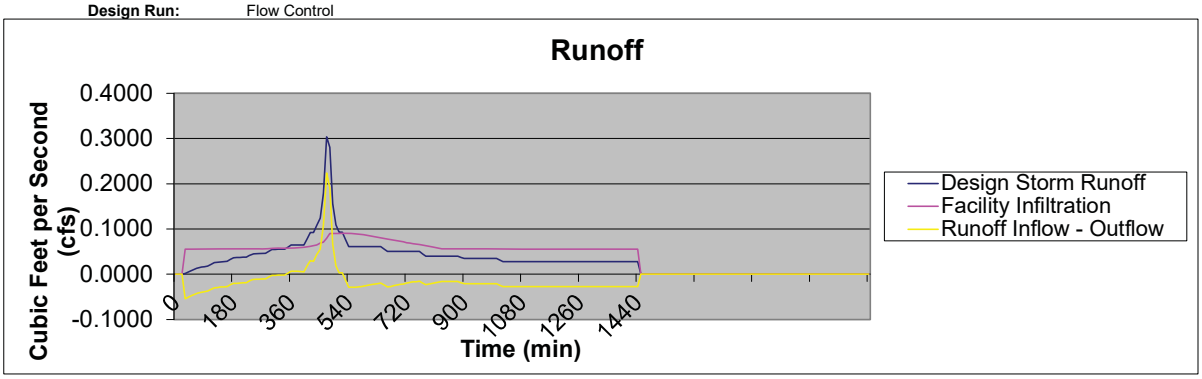
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1E
Design Run: Pollution Reduction

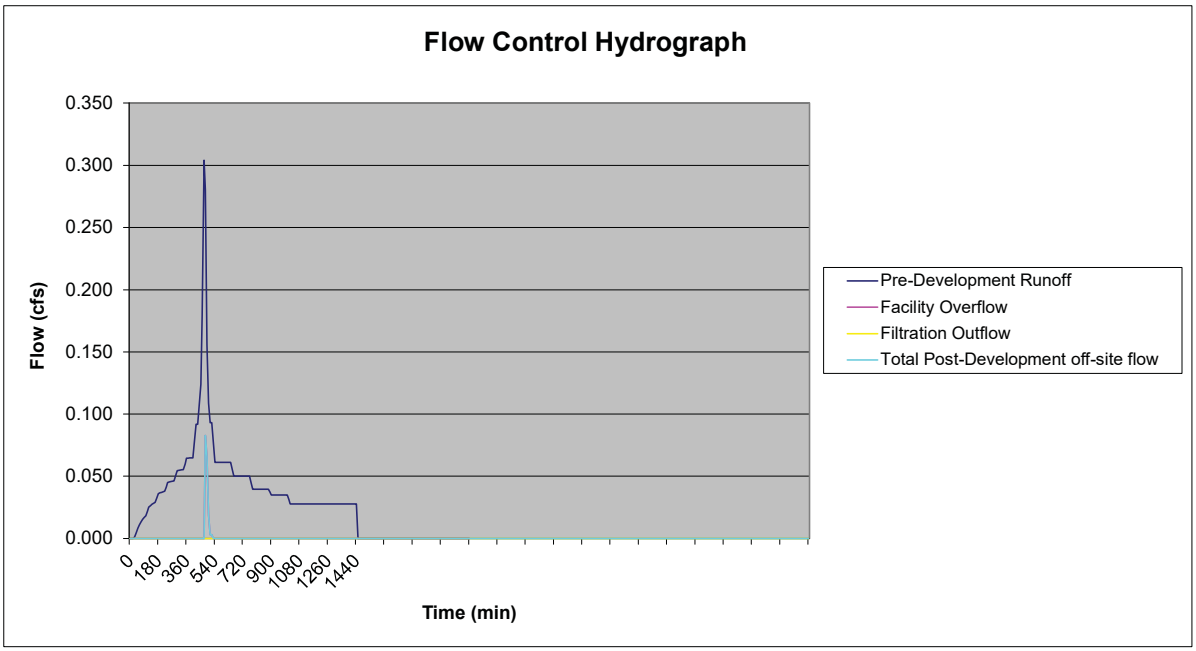


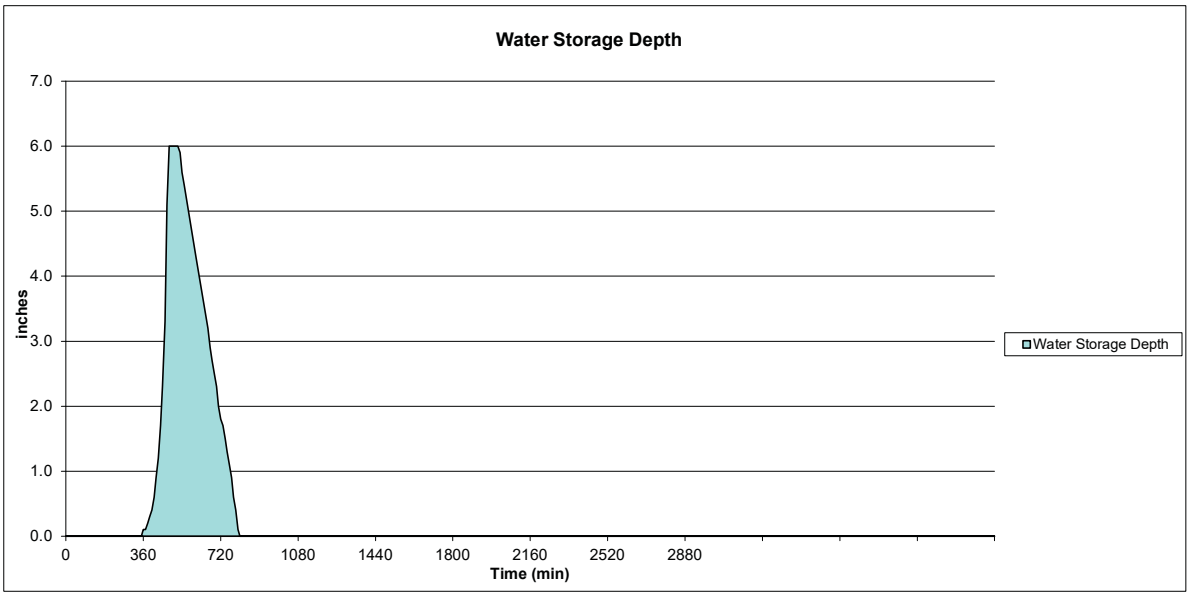




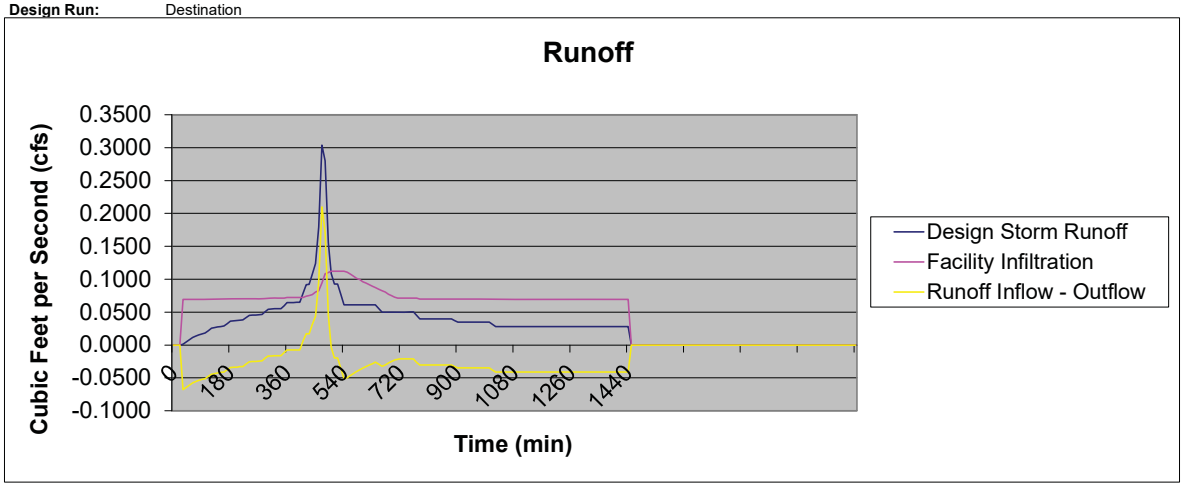
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1E
Design Run: Flow Control

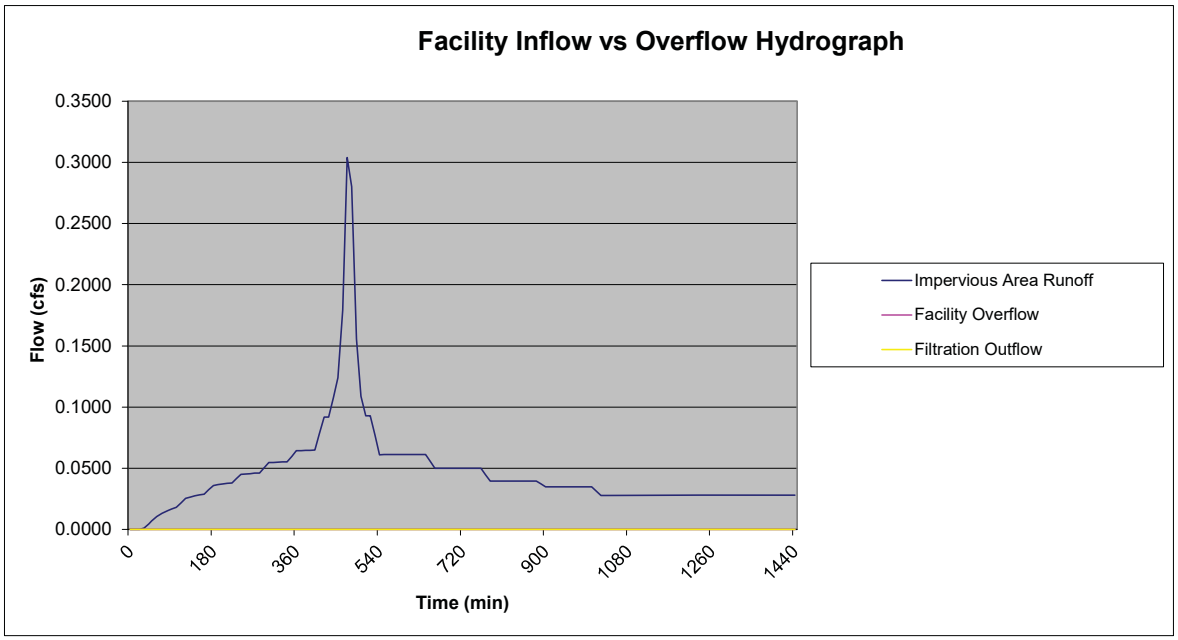


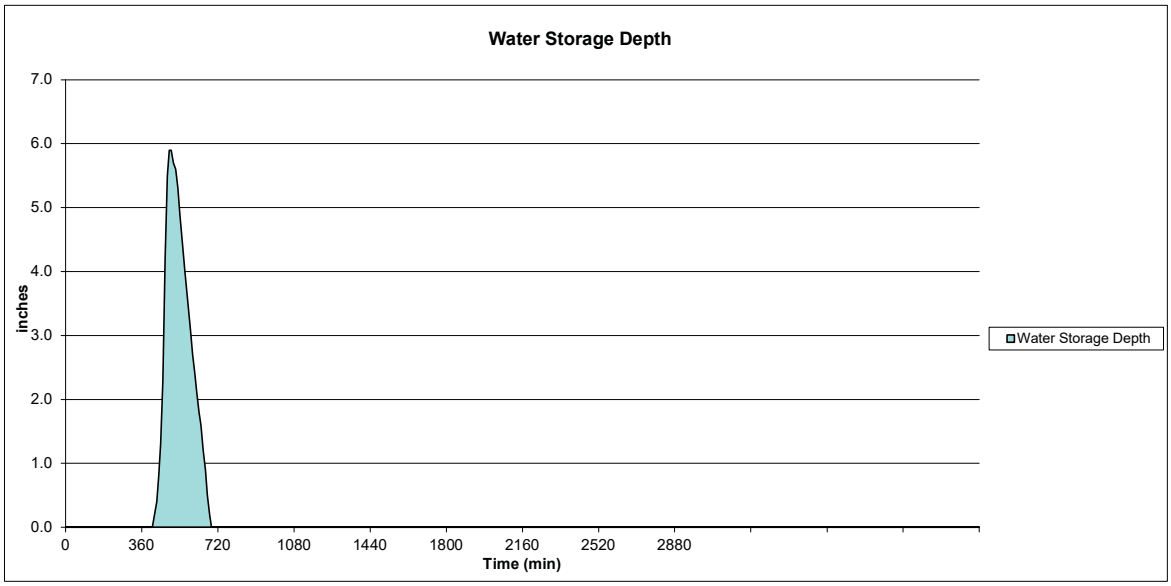




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1E
Design Run: Destination







Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet
24 Hour Storm, NRCS Type 1A Rainfall Distribution
City of Eugene

Version 2.1

Project Information

Project Name:	Three Mile Prairie	**Date:**	12/30/2020
Project Address:	18-12-15-00-00200	**Permit Number:**	NA
	Florence, OR	**Catchment ID:**	1F
Designer:	Clint Beecroft		
Company:	EGR & Associates		

Instructions:

1. Complete this form for each drainage catchment in the project site that is to be sized per the Presumptive Approach.
2. Provide a distinctive Catchment ID for each facility coordinated with the site basin map to correlate the appropriate calculations with the facility.
3. The maximum drainage catchment to be modeled per the Presumptive Approach is 1 acre (43,560 SF)
4. For infiltration facilities in Class A or B soils where no infiltration testing has been perfromed use an infiltration rate of 0.5 in/hr. For all facilities use a maximum soil infiltration rate of 2.5 in/hr for topsoil/growing medium.

Design Requirements:

Choose "Yes" from the dropdown boxes below next to the design standards requirements for this facility.

Pollution Reduction (PR)	Yes
Flow Control (FC)	Yes
Destination (DT)	Yes

*An infiltration facility must be chosen as the facility type to meet destination requirements

Site Data-Post Development

Total Square Footage Impervious Area=	5219	sqft	**Total Square Footage Pervious Area=**	0	sqft
Impervious Area CN=	98		**Pervious Area CN=**	85	
Total Square Footage of Drainage Area=	5219	sft	**Time of Concentration Post Development=**	5	min
Weighted Average CN=	98				

Site Data-Pre Development (Data in this section is only used if Flow Control is required)

Pre-Development CN=	98		**Time of Concentration Pre-Development=**	5	min

Soil Data

Tested Soil Infiltration Rate=	10	in/hr (See Note 4)	**Destination Design=**	5	in/hr
Design Soil Infiltration Rate=	4	in/hr	**Soil Infiltration Rate**		

Design Storms Used For Calculations

Requirement	Rainfall Depth		Design Storm
Pollution Reduction	0.8	inches	Water Quality
Flow Control	5.1	inches	Flood Control
Destination	5.1	inches	Flood Control

Facility Data

Facility Type=	Infiltration Stormwater Planter		**Facility Surface Area=**	336	sqft
Surface Width=	4.2	ft	**Facility Surface Perimeter=**	168.4	ft
Surface Length=	80	ft	**Facility Bottom Area=**	336	sqft
Facility Side Slopes=	0	to 1	**Facility Bottom Perimeter=**	168	ft
Max. Ponding Depth in Stormwater Facility=	10	in	**Basin Volume=**	280.0	cf
Depth of Growing Medium (Soil)=	18	in	**Ratio of Facility Area to Impervious Area=**	0.064	

Pollution Reduction-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.022	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	272	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	0.0	in			
Drawdown Time=	0.2	hours			

Yes **Facility Sizing Meets Pollution Reduction Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

Flow Control-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.160	cfs	Peak Facility Overflow Rate=	0.026	cfs
Total Runoff Volume to Stormwater Facility =	2093	cf	Total Overflow Volume=	56	cf
Max. Depth of Stormwater in Facility=	10.0	in	Peak Off-Site Flow Rate Filtration Facility Underdrain=	N\A	cfs
Drawdown Time=	0.2	hours			

Pre-Development Runoff Data

Peak Flow Rate =	0.160	cfs
Total Runoff Volume =	2098	cf

Yes **Facility Sizing Meets Flow Control Standards?**

YES **Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

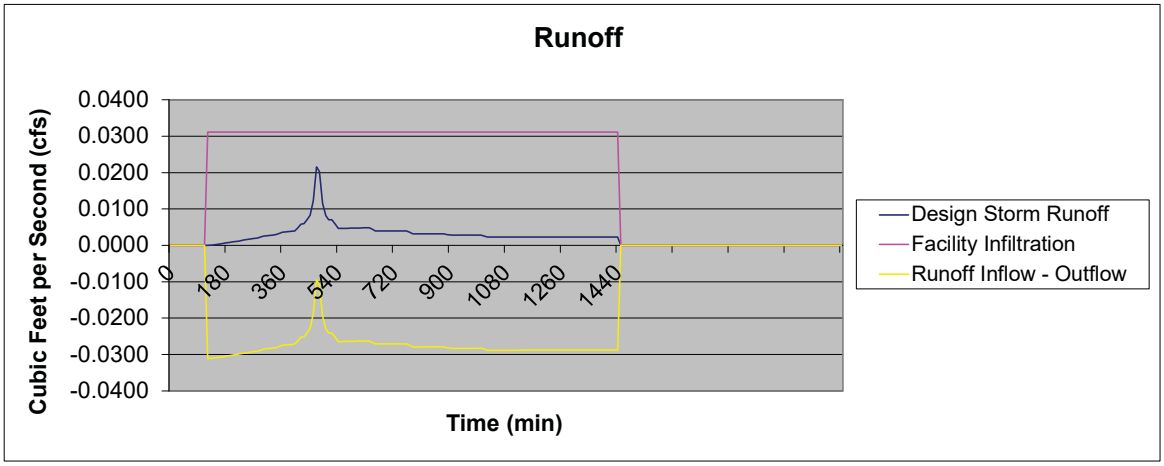
Destination-Calculation Results

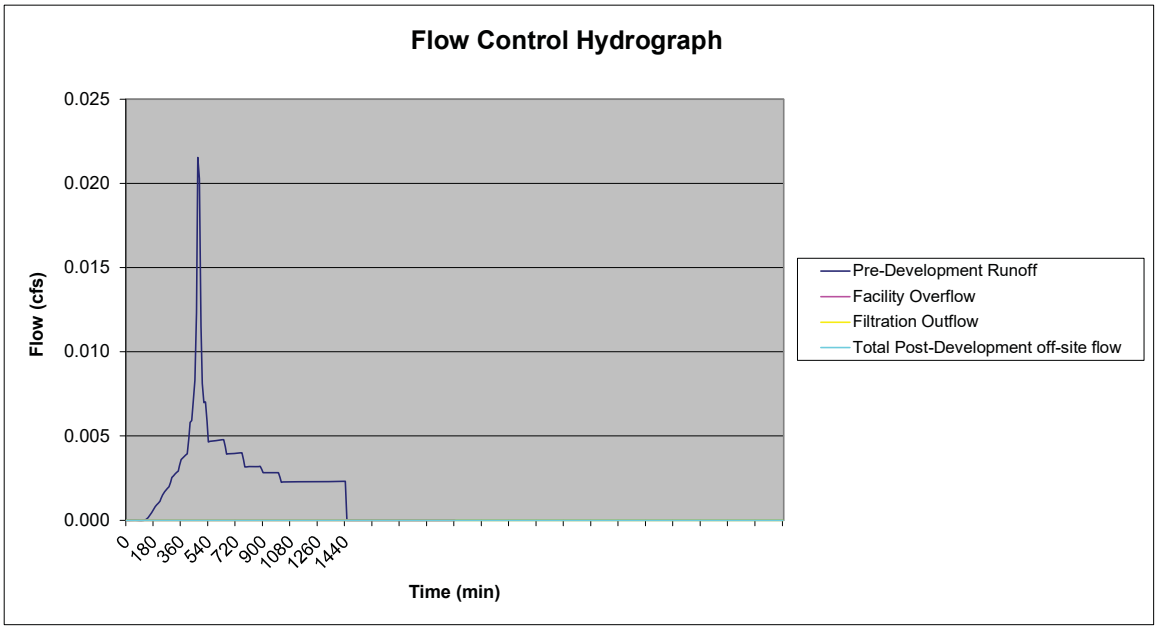
Peak Flow Rate to Stormwater Facility =	0.160	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	2093	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	9.2	in			
Drawdown Time=	0.2	hours			

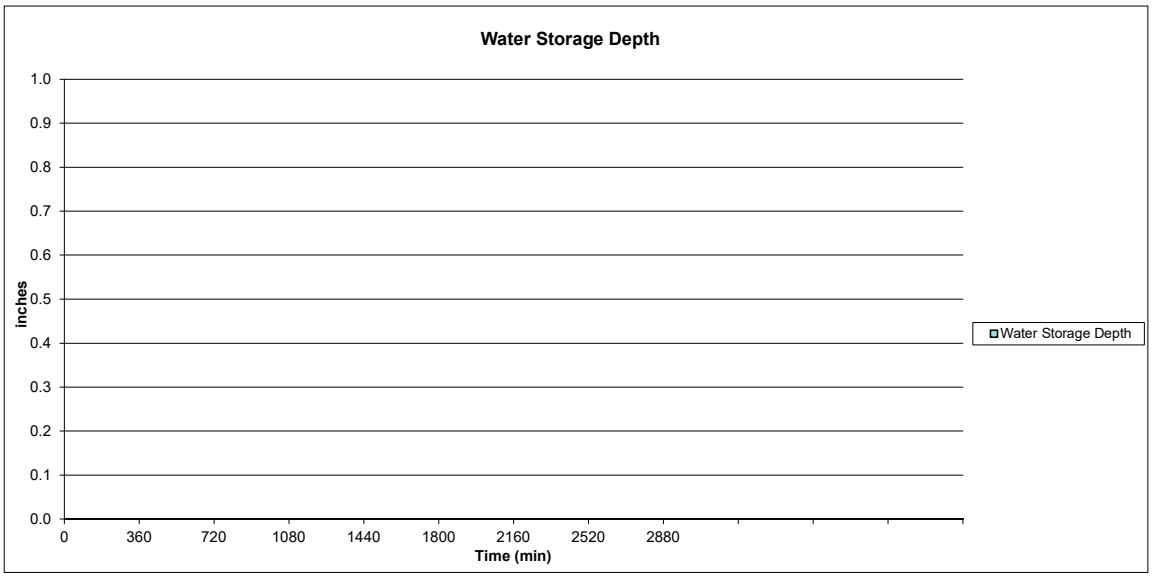
Yes **Facility Sizing Meets Destination Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 30 hour Drawdown Time?**

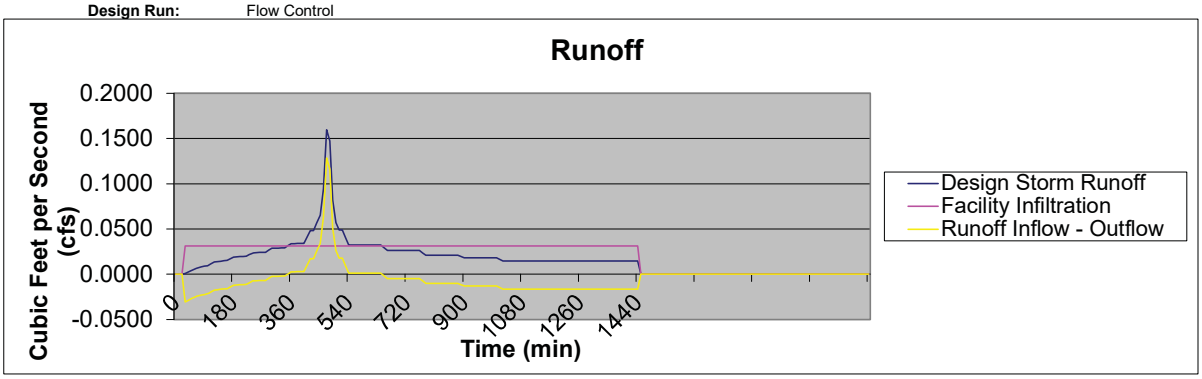
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1F
Design Run: Pollution Reduction

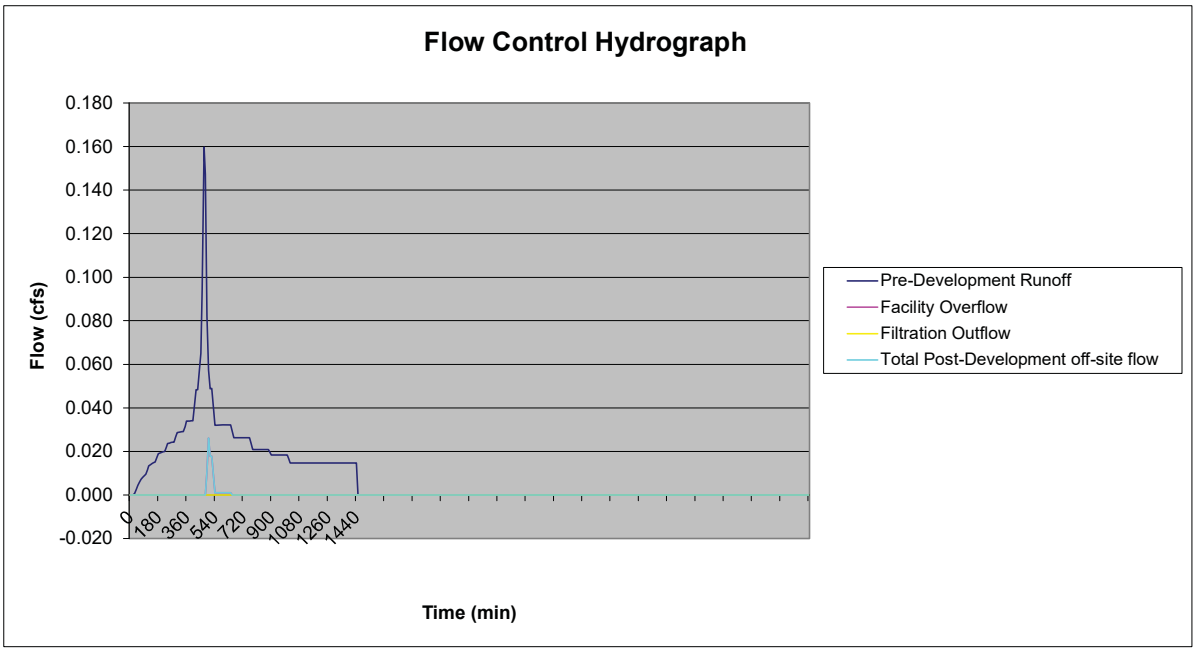


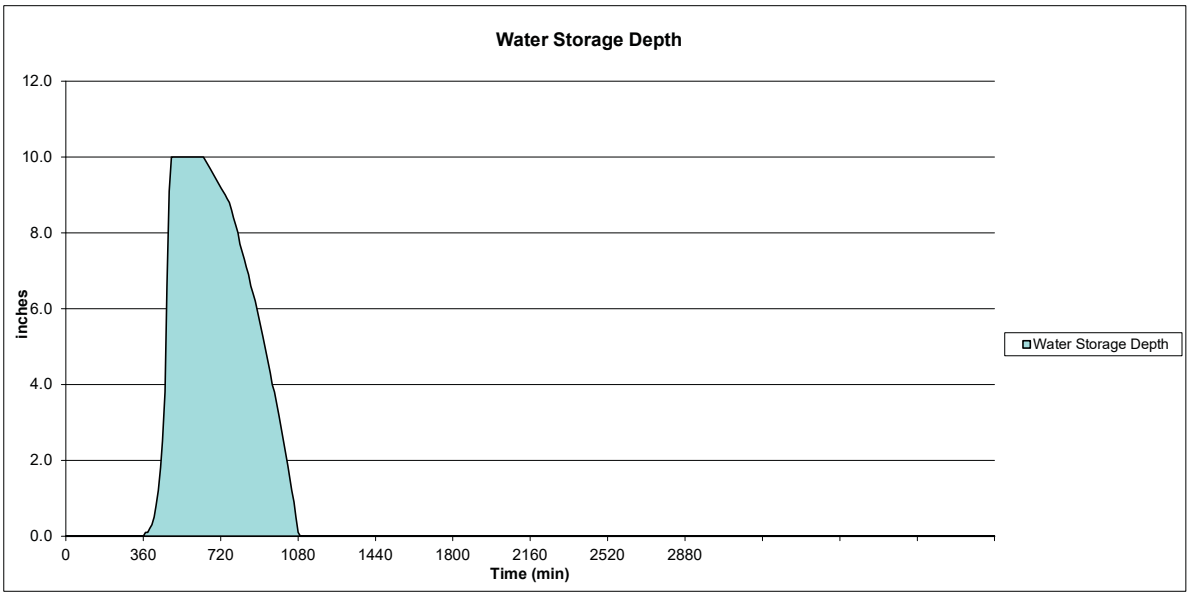




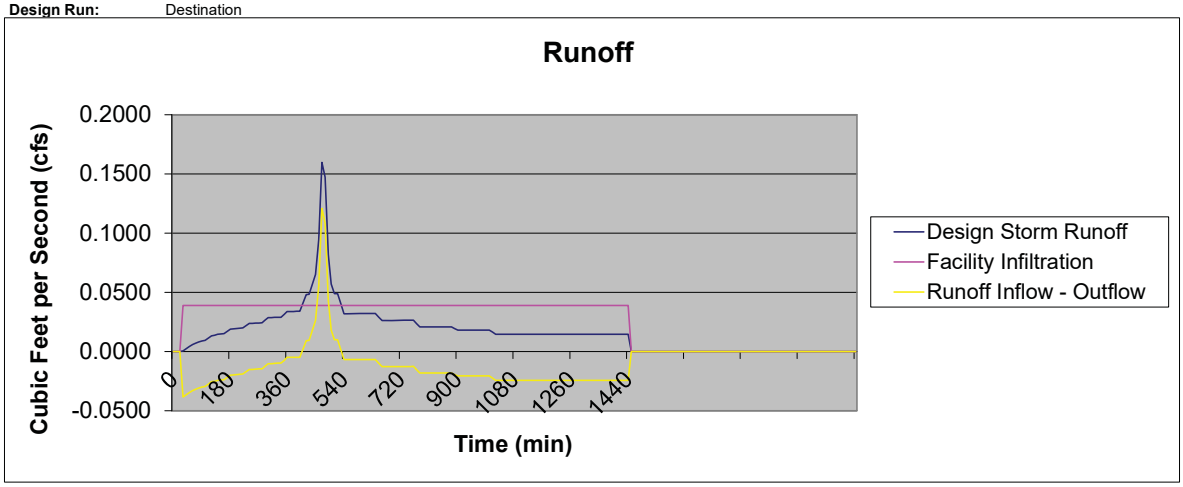
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1F
Design Run: Flow Control

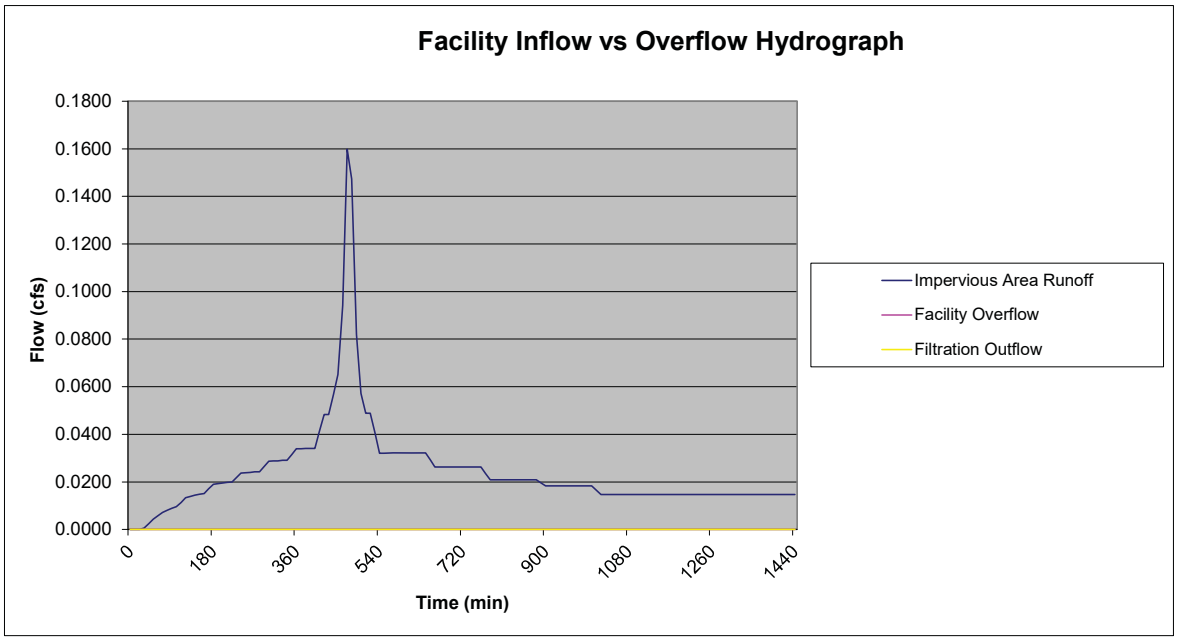


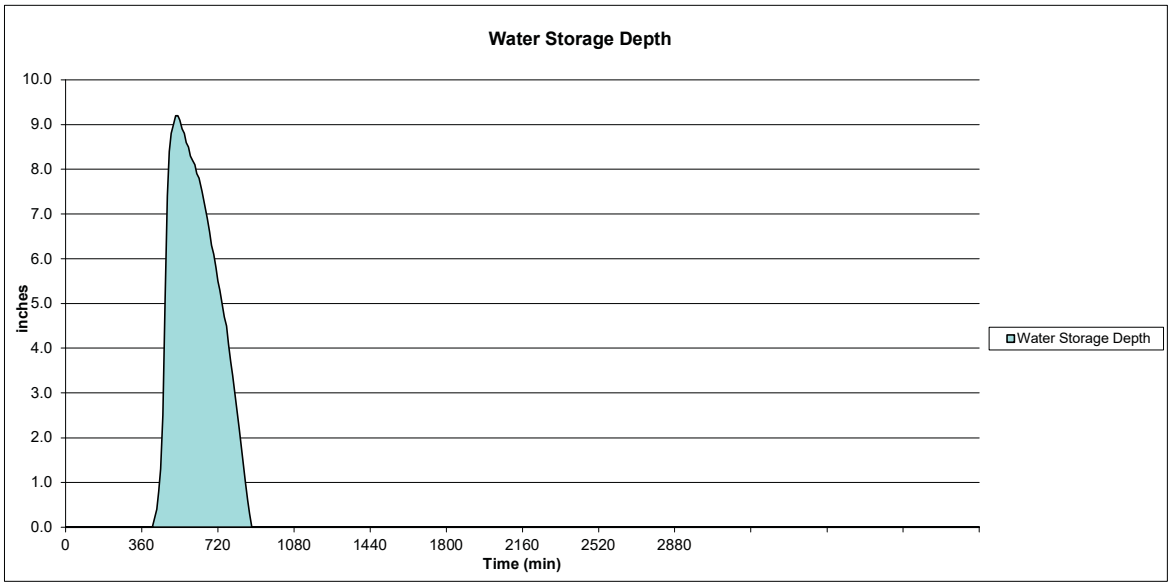




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1F
Design Run: Destination







Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet
24 Hour Storm, NRCS Type 1A Rainfall Distribution
City of Eugene

Version 2.1

Project Information

Project Name:	Three Mile Prairie	**Date:**	12/30/2020
Project Address:	18-12-15-00-00200	**Permit Number:**	NA
	Florence, OR	**Catchment ID:**	1G
Designer:	Clint Beecroft		
Company:	EGR & Associates		

Instructions:

1. Complete this form for each drainage catchment in the project site that is to be sized per the Presumptive Approach.
2. Provide a distinctive Catchment ID for each facility coordinated with the site basin map to correlate the appropriate calculations with the facility.
3. The maximum drainage catchment to be modeled per the Presumptive Approach is 1 acre (43,560 SF)
4. For infiltration facilities in Class A or B soils where no infiltration testing has been perfromed use an infiltration rate of 0.5 in/hr. For all facilities use a maximum soil infiltration rate of 2.5 in/hr for topsoil/growing medium.

Design Requirements:

Choose "Yes" from the dropdown boxes below next to the design standards requirements for this facility.

Pollution Reduction (PR)	Yes
Flow Control (FC)	Yes
Destination (DT)	Yes

*An infiltration facility must be chosen as the facility type to meet destination requirements

Site Data-Post Development

Total Square Footage Impervious Area=	2534	sqft	**Total Square Footage Pervious Area=**	0	sqft
Impervious Area CN=	98		**Pervious Area CN=**	85	
Total Square Footage of Drainage Area=	2534	sft	**Time of Concentration Post Development=**	5	min
Weighted Average CN=	98				

Site Data-Pre Development (Data in this section is only used if Flow Control is required)

Pre-Development CN=	98		**Time of Concentration Pre-Development=**	5	min

Soil Data

Tested Soil Infiltration Rate=	10	in/hr (See Note 4)	**Destination Design=**	5	in/hr
Design Soil Infiltration Rate=	4	in/hr	**Soil Infiltration Rate**		

Design Storms Used For Calculations

Requirement	Rainfall Depth		Design Storm
Pollution Reduction	0.8	inches	Water Quality
Flow Control	5.1	inches	Flood Control
Destination	5.1	inches	Flood Control

Facility Data

Facility Type=	Infiltration Stormwater Planter		**Facility Surface Area=**	254.1	sqft
Surface Width=	7.7	ft	**Facility Surface Perimeter=**	81.4	ft
Surface Length=	33	ft	**Facility Bottom Area=**	141	sqft
Facility Side Slopes=	3	to 1	**Facility Bottom Perimeter=**	69	ft
Max. Ponding Depth in Stormwater Facility=	6	in	**Basin Volume=**	101.0	cf
Depth of Growing Medium (Soil)=	18	in	**Ratio of Facility Area to Impervious Area=**	0.100	

Pollution Reduction-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.010	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	132	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	0.0	in			
Drawdown Time=	0.2	hours			

Yes **Facility Sizing Meets Pollution Reduction Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

Flow Control-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.078	cfs	Peak Facility Overflow Rate=	0.020	cfs
Total Runoff Volume to Stormwater Facility =	1016	cf	Total Overflow Volume=	25	cf
Max. Depth of Stormwater in Facility=	6.0	in	Peak Off-Site Flow Rate Filtration Facility Underdrain=	N\A	cfs
Drawdown Time=	0.2	hours			

Pre-Development Runoff Data

Peak Flow Rate =	0.078	cfs
Total Runoff Volume =	1018	cf

Yes **Facility Sizing Meets Flow Control Standards?**

YES **Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

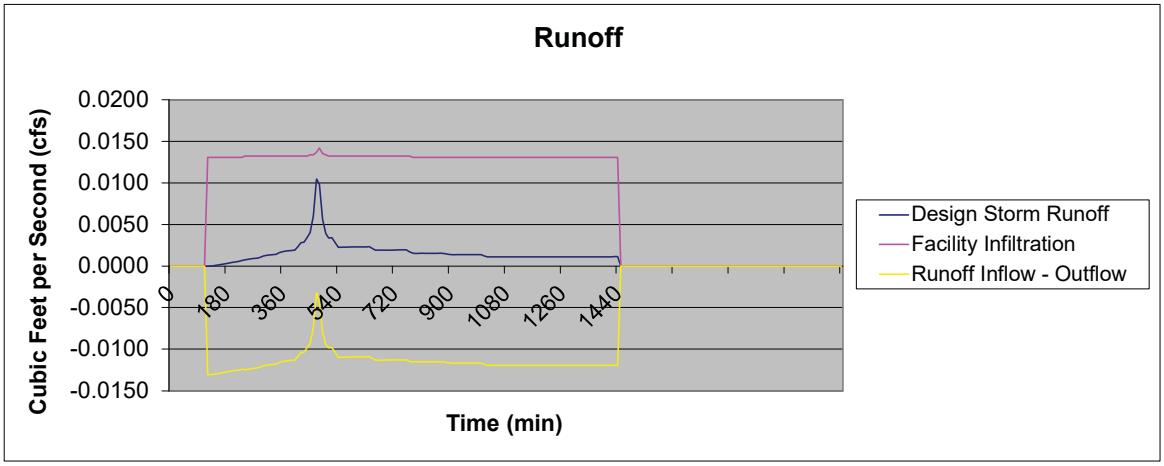
Destination-Calculation Results

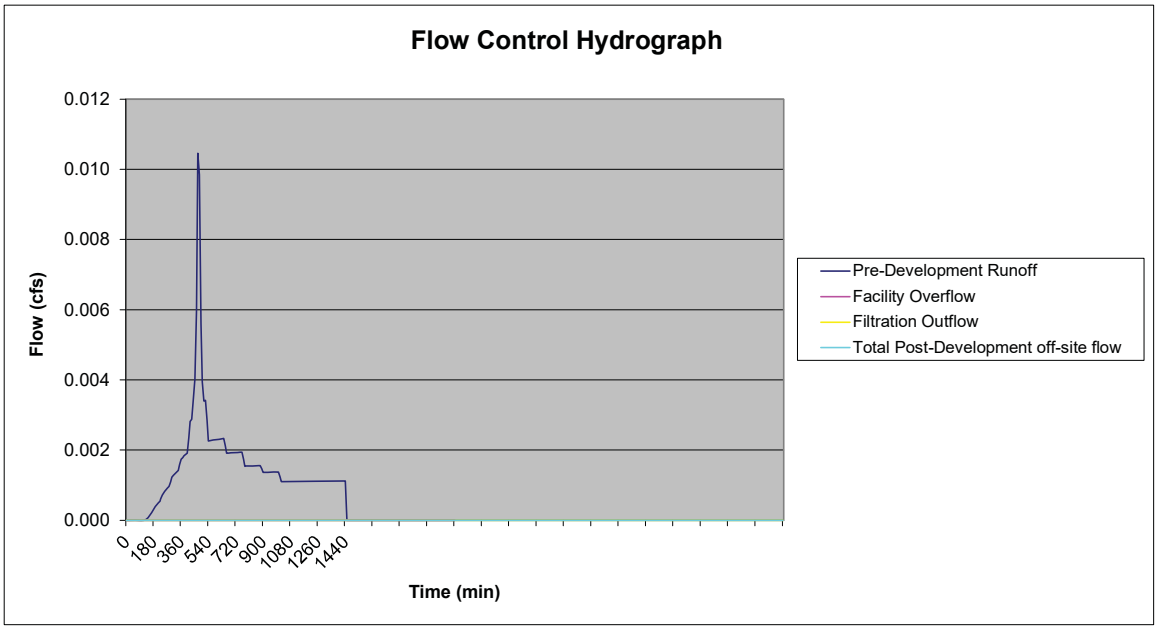
Peak Flow Rate to Stormwater Facility =	0.078	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	1016	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	5.8	in			
Drawdown Time=	0.2	hours			

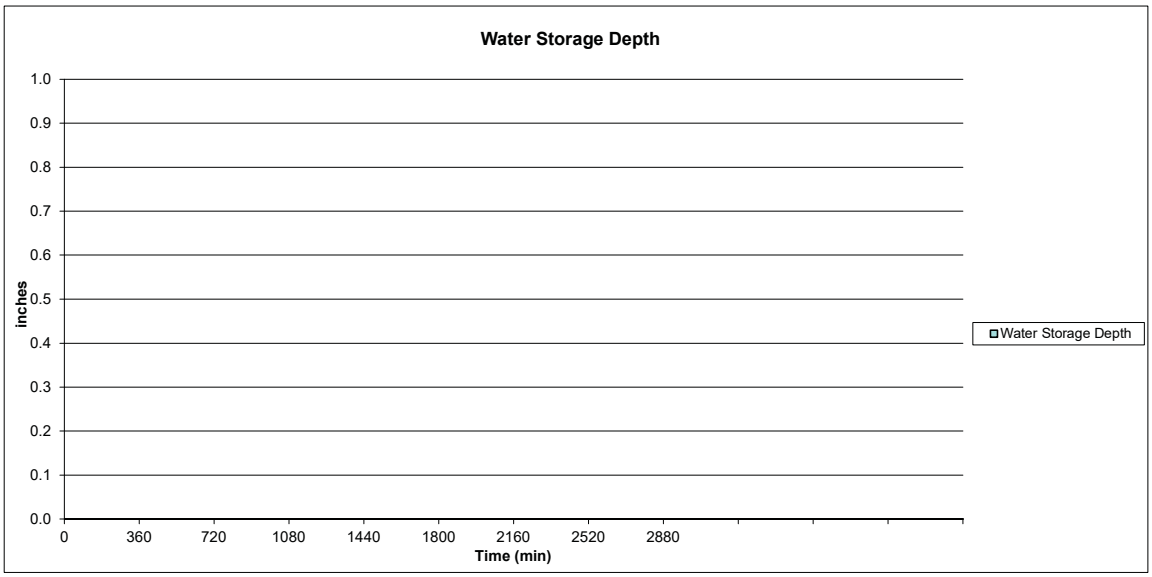
Yes **Facility Sizing Meets Destination Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 30 hour Drawdown Time?**

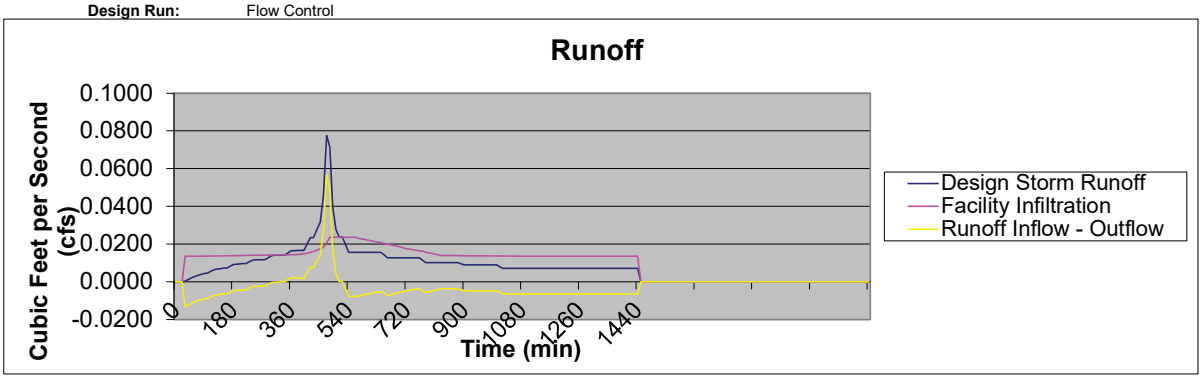
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1G
Design Run: Pollution Reduction

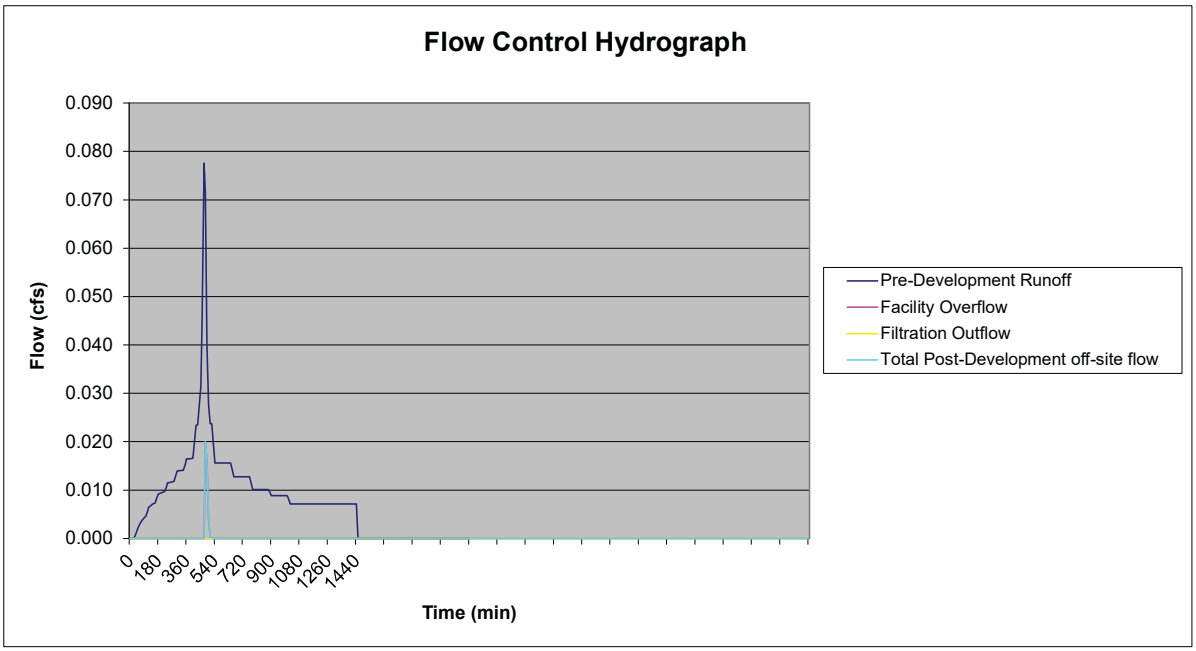


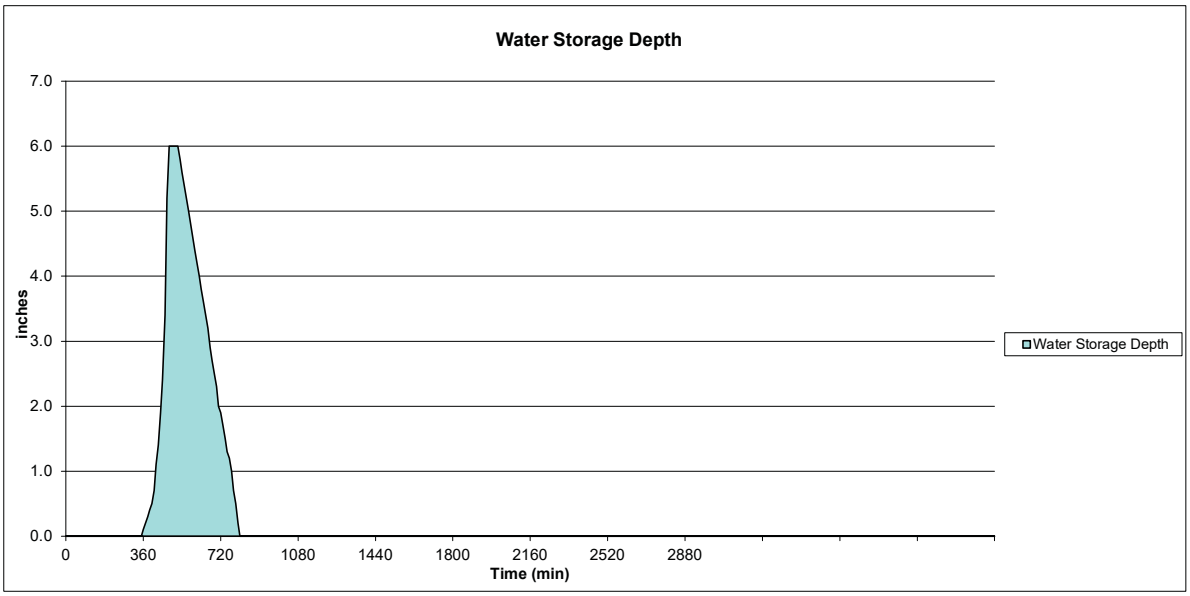




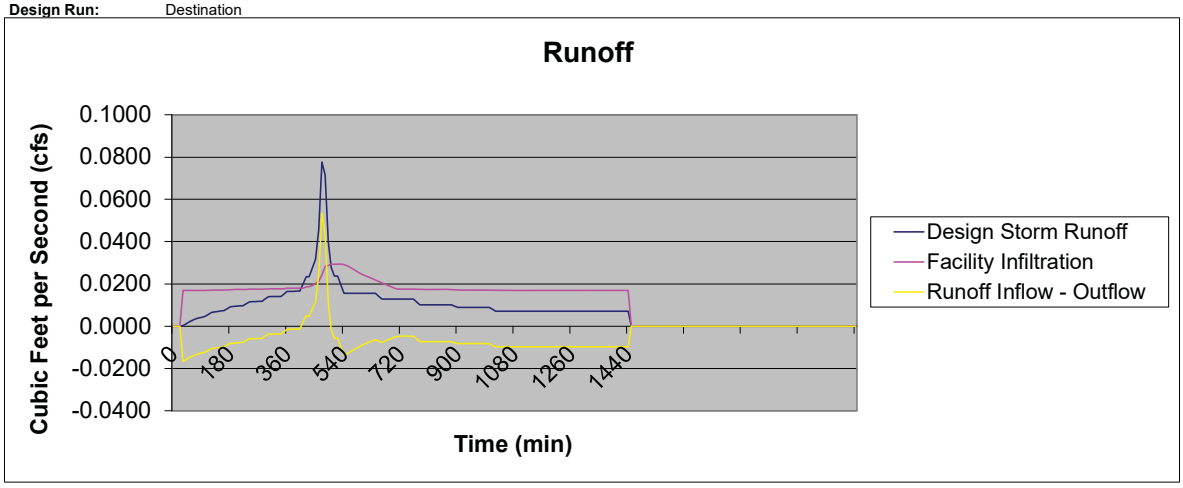
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1G
Design Run: Flow Control

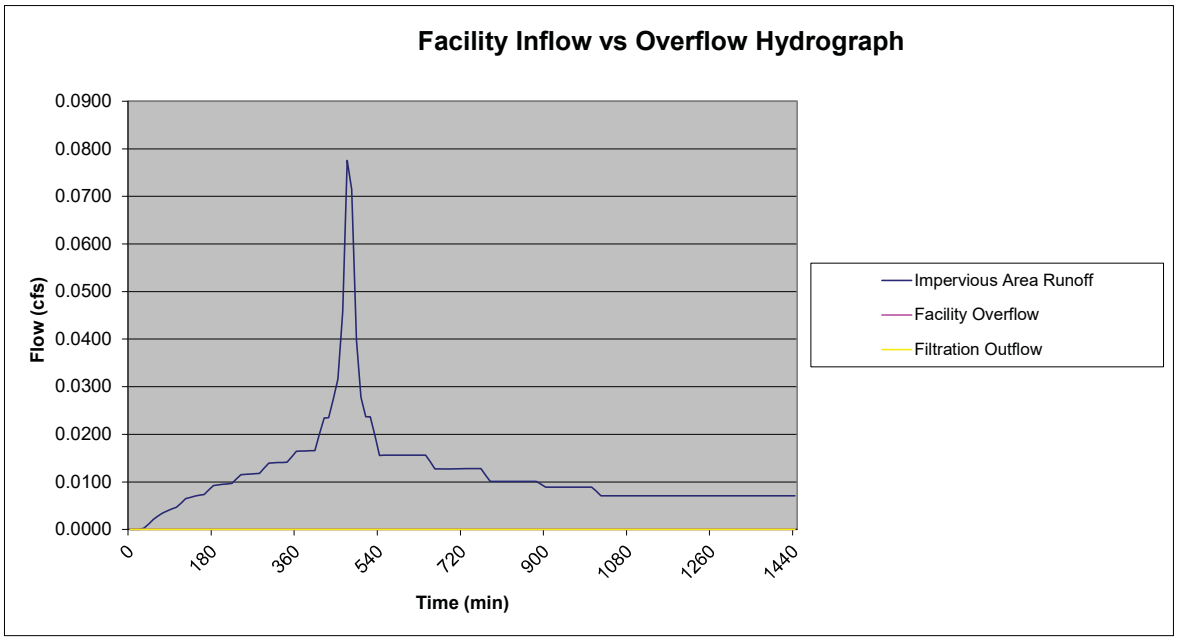


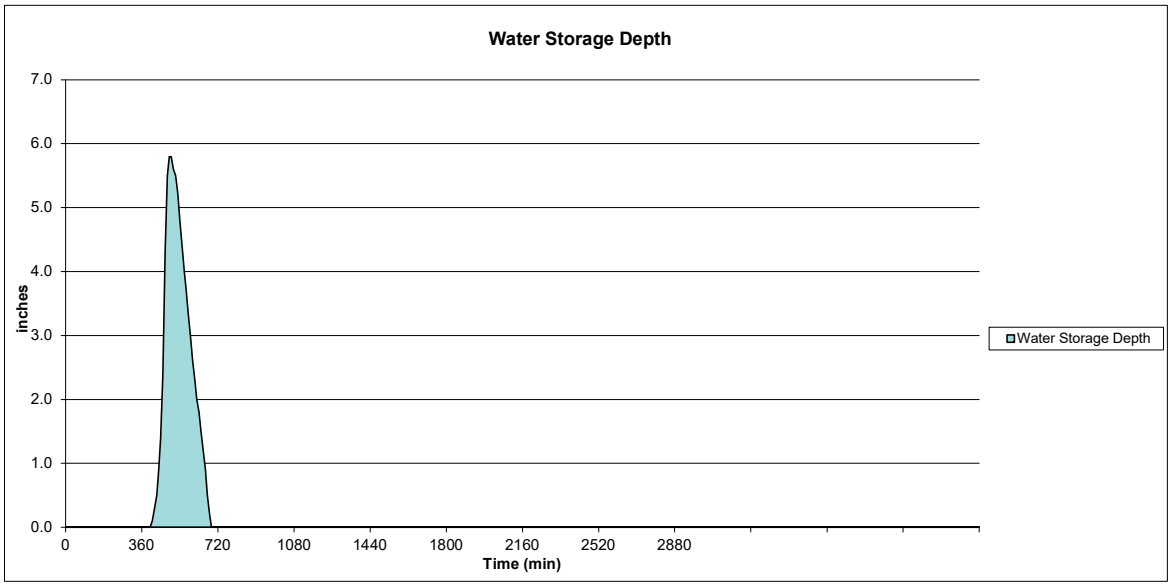




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1G
Design Run: Destination







Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet
24 Hour Storm, NRCS Type 1A Rainfall Distribution
City of Eugene

Version 2.1

Project Information

Project Name:	Three Mile Prairie	**Date:**	12/30/2020
Project Address:	18-12-15-00-00200	**Permit Number:**	NA
	Florence, OR	**Catchment ID:**	1H
Designer:	Clint Beecroft		
Company:	EGR & Associates		

Instructions:

1. Complete this form for each drainage catchment in the project site that is to be sized per the Presumptive Approach.
2. Provide a distinctive Catchment ID for each facility coordinated with the site basin map to correlate the appropriate calculations with the facility.
3. The maximum drainage catchment to be modeled per the Presumptive Approach is 1 acre (43,560 SF)
4. For infiltration facilities in Class A or B soils where no infiltration testing has been perfromed use an infiltration rate of 0.5 in/hr. For all facilities use a maximum soil infiltration rate of 2.5 in/hr for topsoil/growing medium.

Design Requirements:

Choose "Yes" from the dropdown boxes below next to the design standards requirements for this facility.

Pollution Reduction (PR)	Yes
Flow Control (FC)	Yes
Destination (DT)	Yes

*An infiltration facility must be chosen as the facility type to meet destination requirements

Site Data-Post Development

Total Square Footage Impervious Area=	2534	sqft	**Total Square Footage Pervious Area=**	0	sqft
Impervious Area CN=	98		**Pervious Area CN=**	85	
Total Square Footage of Drainage Area=	2534	sft	**Time of Concentration Post Development=**	5	min
Weighted Average CN=	98				

Site Data-Pre Development (Data in this section is only used if Flow Control is required)

Pre-Development CN=	98		**Time of Concentration Pre-Development=**	5	min

Soil Data

Tested Soil Infiltration Rate=	10	in/hr (See Note 4)	**Destination Design=**	5	in/hr
Design Soil Infiltration Rate=	4	in/hr	**Soil Infiltration Rate**		

Design Storms Used For Calculations

Requirement	Rainfall Depth		Design Storm
Pollution Reduction	0.8	inches	Water Quality
Flow Control	5.1	inches	Flood Control
Destination	5.1	inches	Flood Control

Facility Data

Facility Type=	Infiltration Stormwater Planter		**Facility Surface Area=**	254.1	sqft
Surface Width=	7.7	ft	**Facility Surface Perimeter=**	81.4	ft
Surface Length=	33	ft	**Facility Bottom Area=**	141	sqft
Facility Side Slopes=	3	to 1	**Facility Bottom Perimeter=**	69	ft
Max. Ponding Depth in Stormwater Facility=	6	in	**Basin Volume=**	101.0	cf
Depth of Growing Medium (Soil)=	18	in	**Ratio of Facility Area to Impervious Area=**	0.100	

Pollution Reduction-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.010	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	132	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	0.0	in			
Drawdown Time=	0.2	hours			

Yes **Facility Sizing Meets Pollution Reduction Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

Flow Control-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.078	cfs	Peak Facility Overflow Rate=	0.020	cfs
Total Runoff Volume to Stormwater Facility =	1016	cf	Total Overflow Volume=	25	cf
Max. Depth of Stormwater in Facility=	6.0	in	Peak Off-Site Flow Rate Filtration Facility Underdrain=	N\A	cfs
Drawdown Time=	0.2	hours			

Pre-Development Runoff Data

Peak Flow Rate =	0.078	cfs
Total Runoff Volume =	1018	cf

Yes **Facility Sizing Meets Flow Control Standards?**

YES **Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

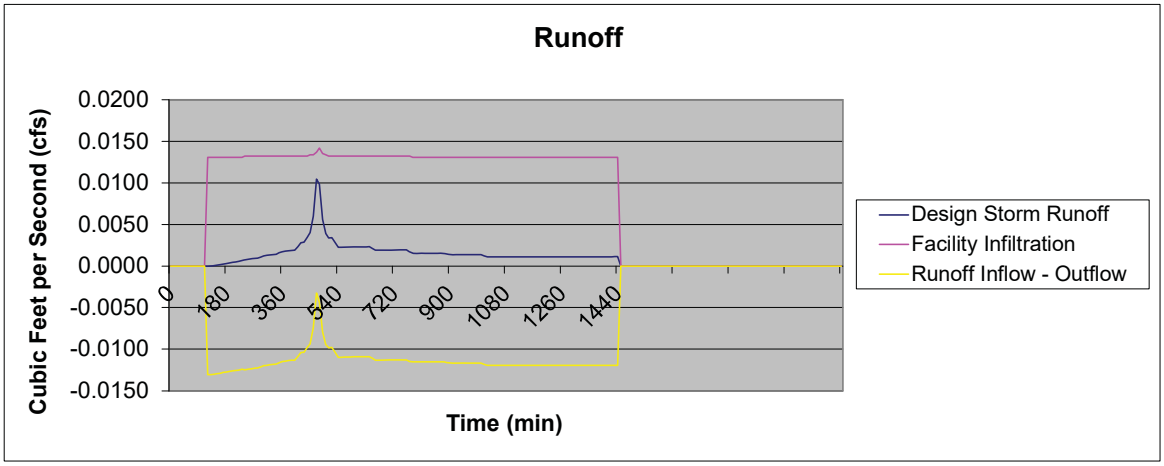
Destination-Calculation Results

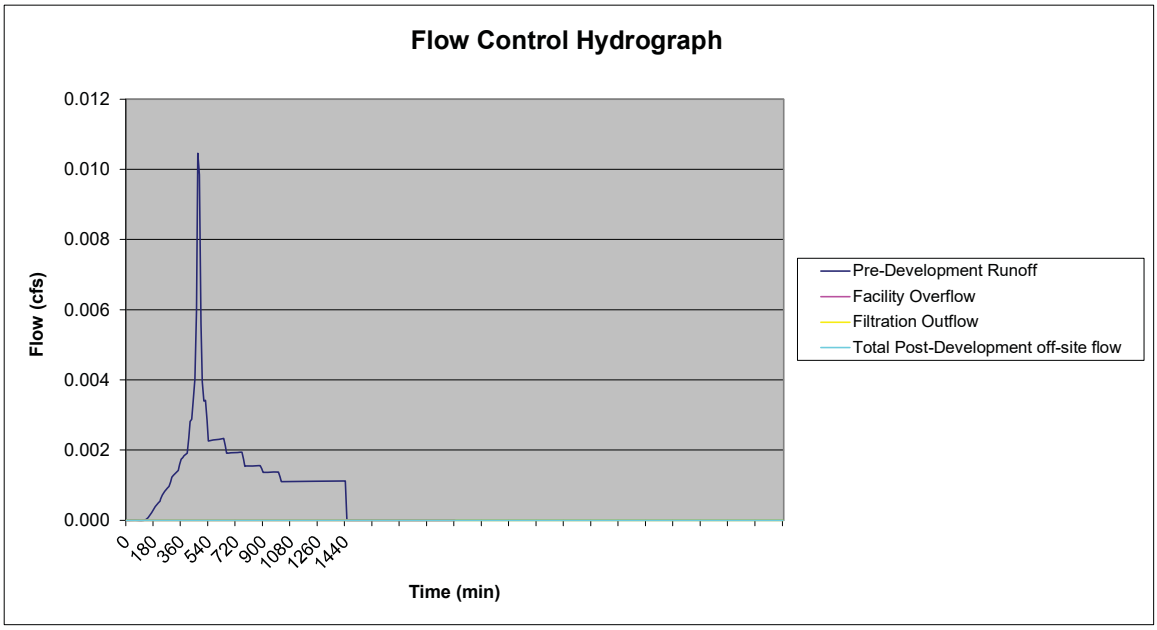
Peak Flow Rate to Stormwater Facility =	0.078	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	1016	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	5.8	in			
Drawdown Time=	0.2	hours			

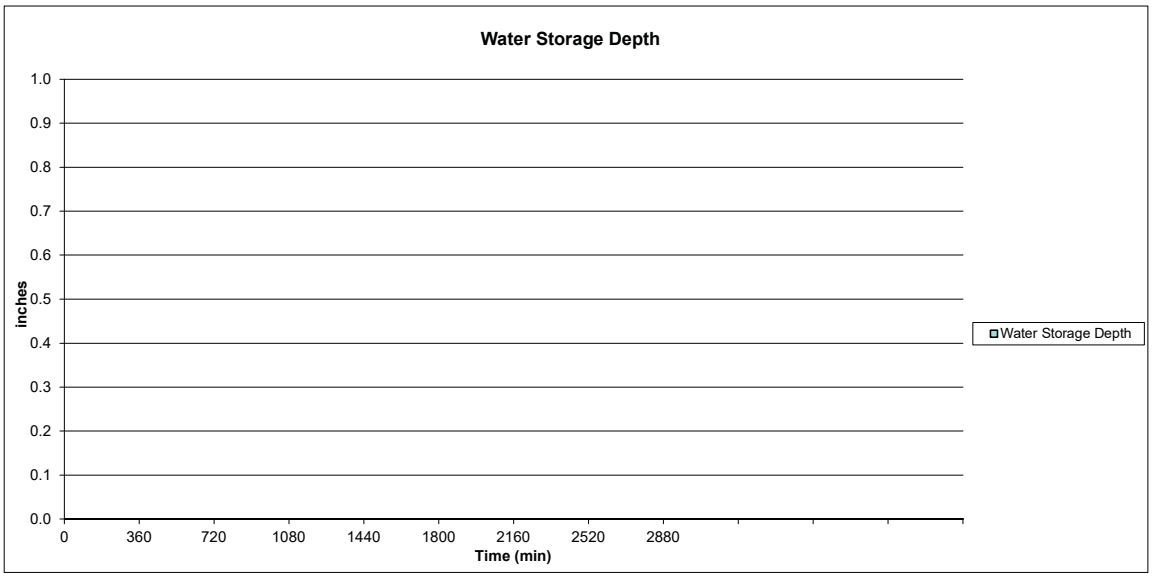
Yes **Facility Sizing Meets Destination Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 30 hour Drawdown Time?**

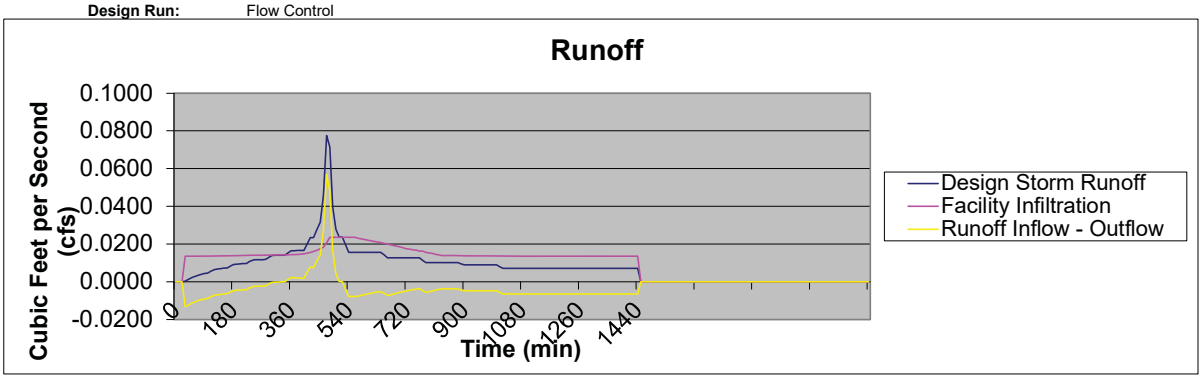
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1H
Design Run: Pollution Reduction

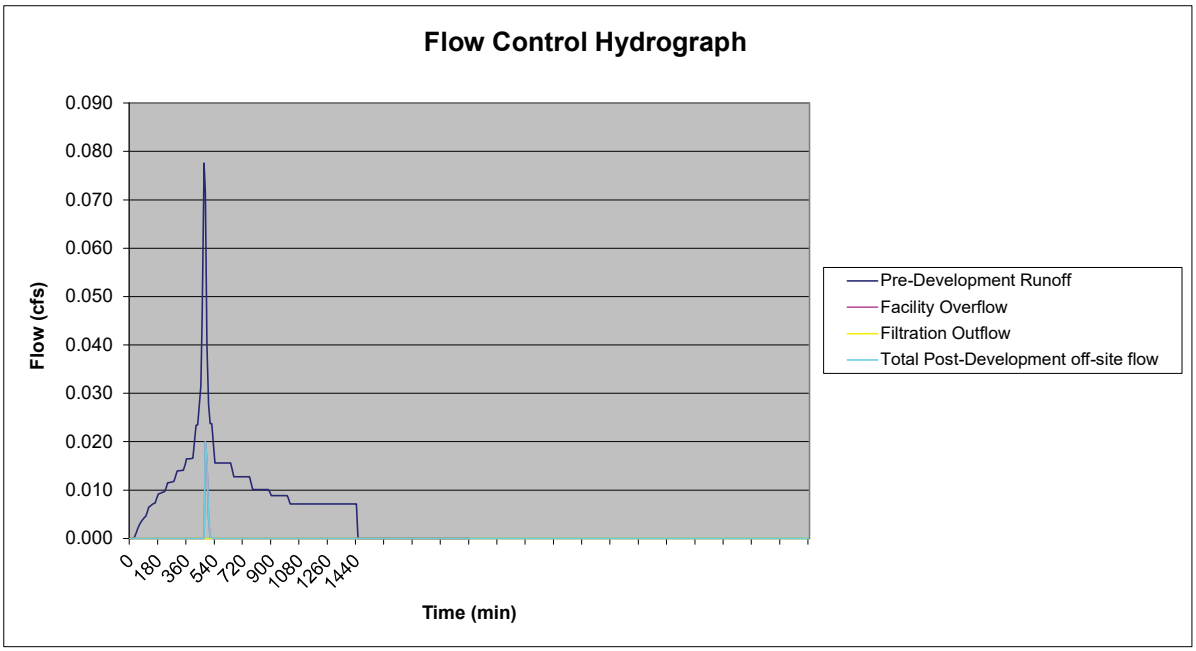


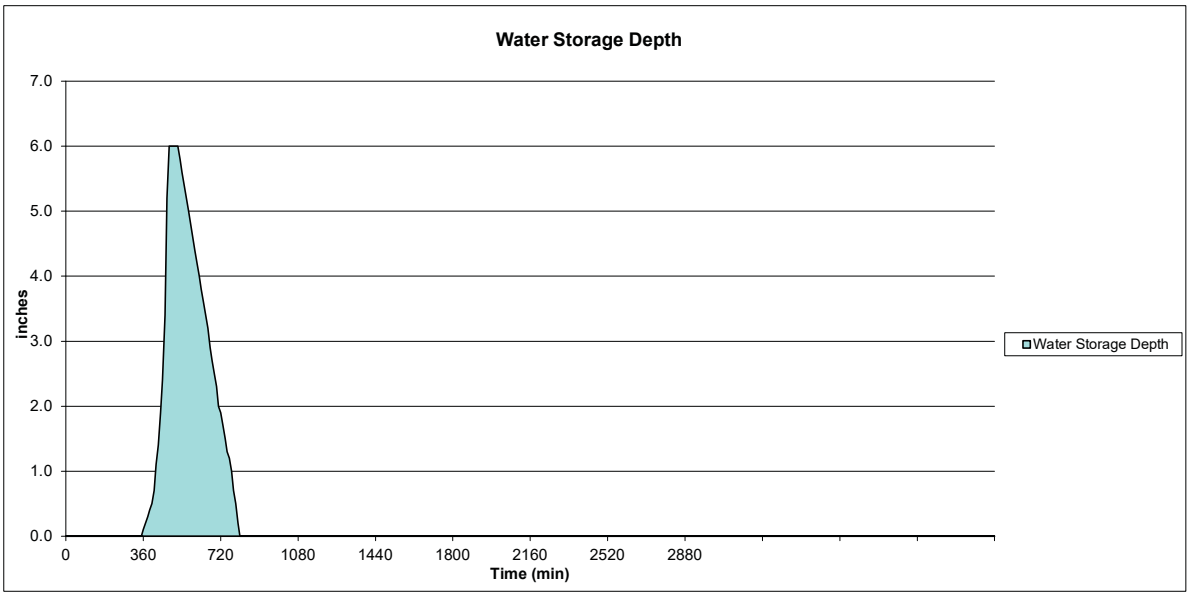




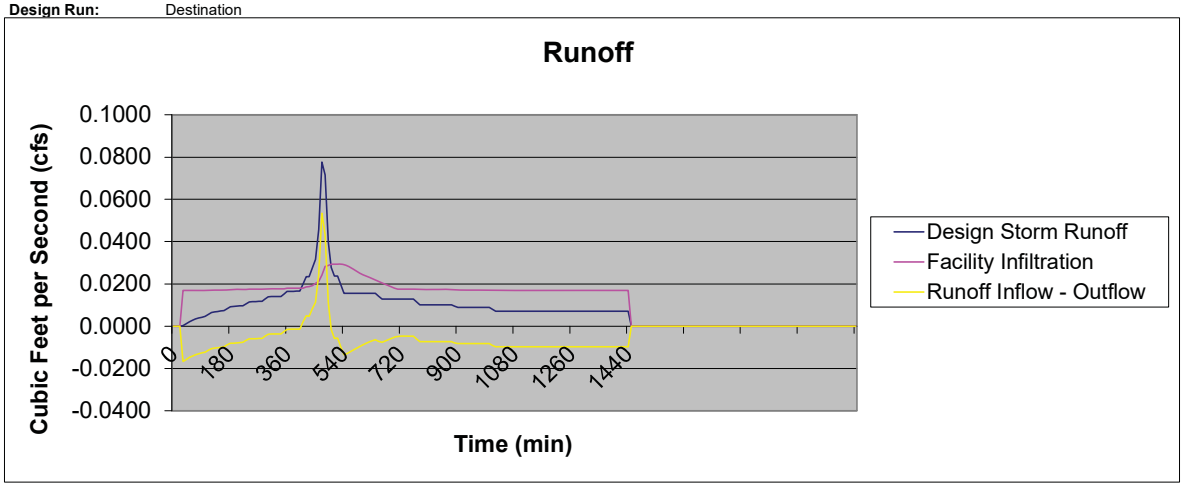
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1H
Design Run: Flow Control

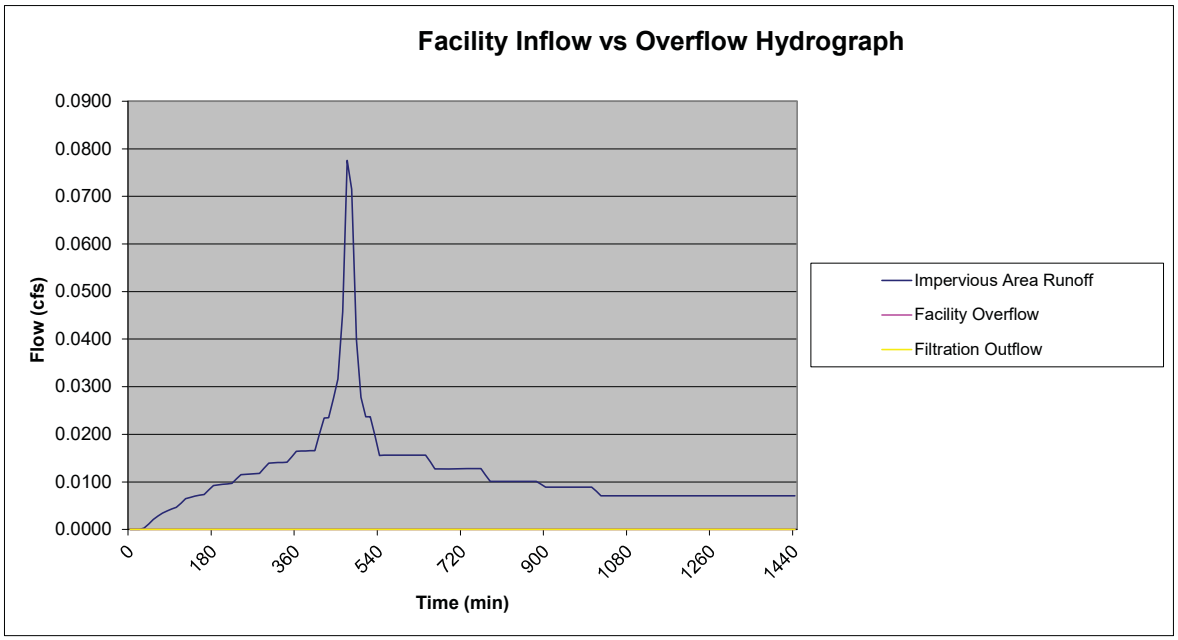


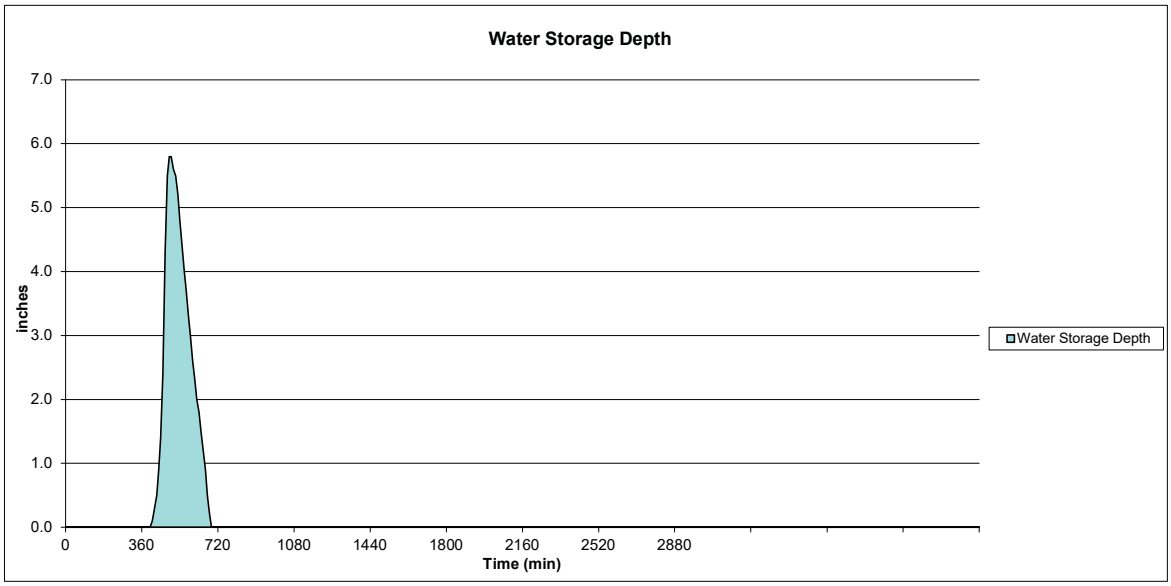




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1H
Design Run: Destination







Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet
24 Hour Storm, NRCS Type 1A Rainfall Distribution
City of Eugene

Version 2.1

Project Information

Project Name:	Three Mile Prairie	**Date:**	12/30/2020
Project Address:	18-12-15-00-00200	**Permit Number:**	NA
	Florence, OR	**Catchment ID:**	1I
Designer:	Clint Beecroft		
Company:	EGR & Associates		

Instructions:

1. Complete this form for each drainage catchment in the project site that is to be sized per the Presumptive Approach.
2. Provide a distinctive Catchment ID for each facility coordinated with the site basin map to correlate the appropriate calculations with the facility.
3. The maximum drainage catchment to be modeled per the Presumptive Approach is 1 acre (43,560 SF)
4. For infiltration facilities in Class A or B soils where no infiltration testing has been perfromed use an infiltration rate of 0.5 in/hr. For all facilities use a maximum soil infiltration rate of 2.5 in/hr for topsoil/growing medium.

Design Requirements:

Choose "Yes" from the dropdown boxes below next to the design standards requirements for this facility.

Pollution Reduction (PR)	**Yes**
Flow Control (FC)	**Yes**
Destination (DT)	**Yes**

*An infiltration facility must be chosen as the facility type to meet destination requirements

Site Data-Post Development

Total Square Footage Impervious Area=	8025	sqft	**Total Square Footage Pervious Area=**	0	sqft
Impervious Area CN=	98		**Pervious Area CN=**	85	
Total Square Footage of Drainage Area=	8025	sft	**Time of Concentration Post Development=**	5	min
Weighted Average CN=	98				

Site Data-Pre Development (Data in this section is only used if Flow Control is required)

Pre-Development CN=	98		**Time of Concentration Pre-Development=**	5	min

Soil Data

Tested Soil Infiltration Rate=	10	in/hr (See Note 4)	**Destination Design=**	5	in/hr
Design Soil Infiltration Rate=	4	in/hr	**Soil Infiltration Rate**		

Design Storms Used For Calculations

Requirement	Rainfall Depth		Design Storm
Pollution Reduction	0.8	inches	Water Quality
Flow Control	5.1	inches	Flood Control
Destination	5.1	inches	Flood Control

Facility Data

Facility Type=	Infiltration Stormwater Planter		**Facility Surface Area=**	630	sqft
Surface Width=	4.2	ft	**Facility Surface Perimeter=**	308.4	ft
Surface Length=	150	ft	**Facility Bottom Area=**	630	sqft
Facility Side Slopes=	0	to 1	**Facility Bottom Perimeter=**	308	ft
Max. Ponding Depth in Stormwater Facility=	6	in	**Basin Volume=**	315.0	cf
Depth of Growing Medium (Soil)=	18	in	**Ratio of Facility Area to Impervious Area=**	0.079	

Pollution Reduction-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.033	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	418	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	0.0	in			
Drawdown Time=	0.2	hours			

Yes **Facility Sizing Meets Pollution Reduction Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

Flow Control-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.246	cfs	Peak Facility Overflow Rate=	0.068	cfs
Total Runoff Volume to Stormwater Facility =	3219	cf	Total Overflow Volume=	96	cf
Max. Depth of Stormwater in Facility=	6.0	in	Peak Off-Site Flow Rate Filtration Facility Underdrain=	N\A	cfs
Drawdown Time=	0.2	hours			

Pre-Development Runoff Data

Peak Flow Rate =	0.246	cfs
Total Runoff Volume =	3225	cf

Yes **Facility Sizing Meets Flow Control Standards?**

YES **Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

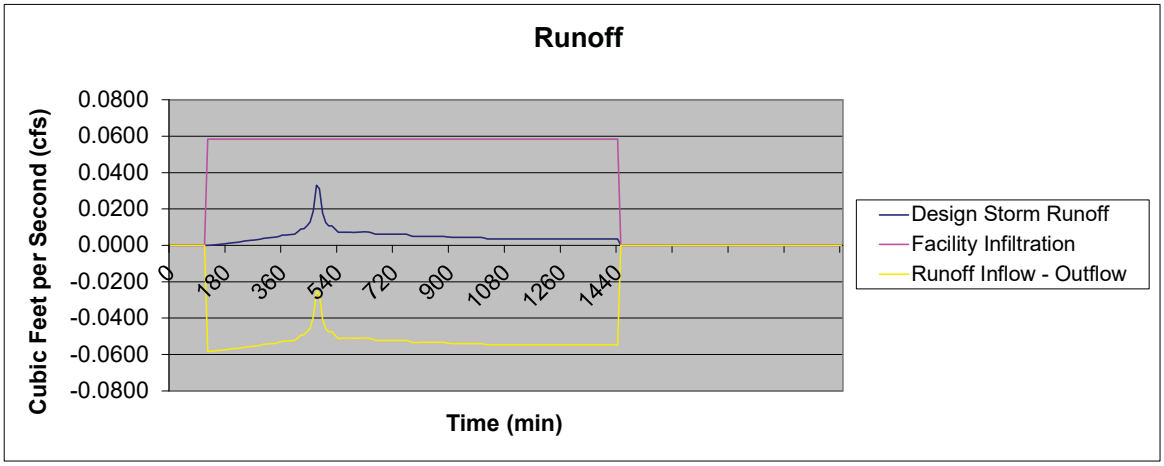
Destination-Calculation Results

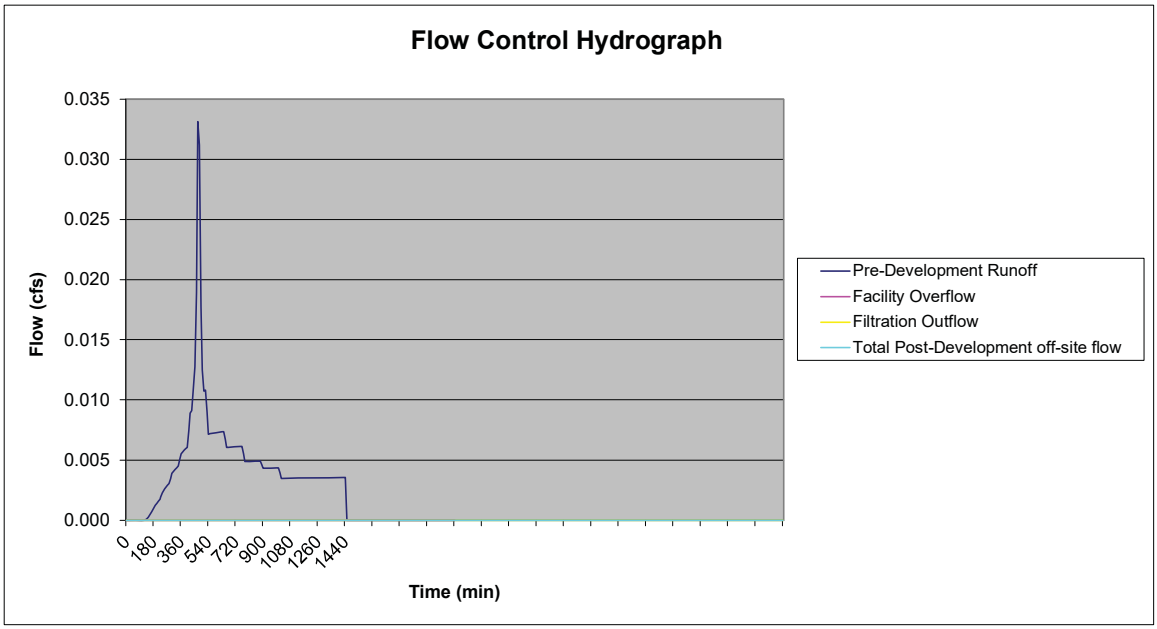
Peak Flow Rate to Stormwater Facility =	0.246	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	3219	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	5.8	in			
Drawdown Time=	0.2	hours			

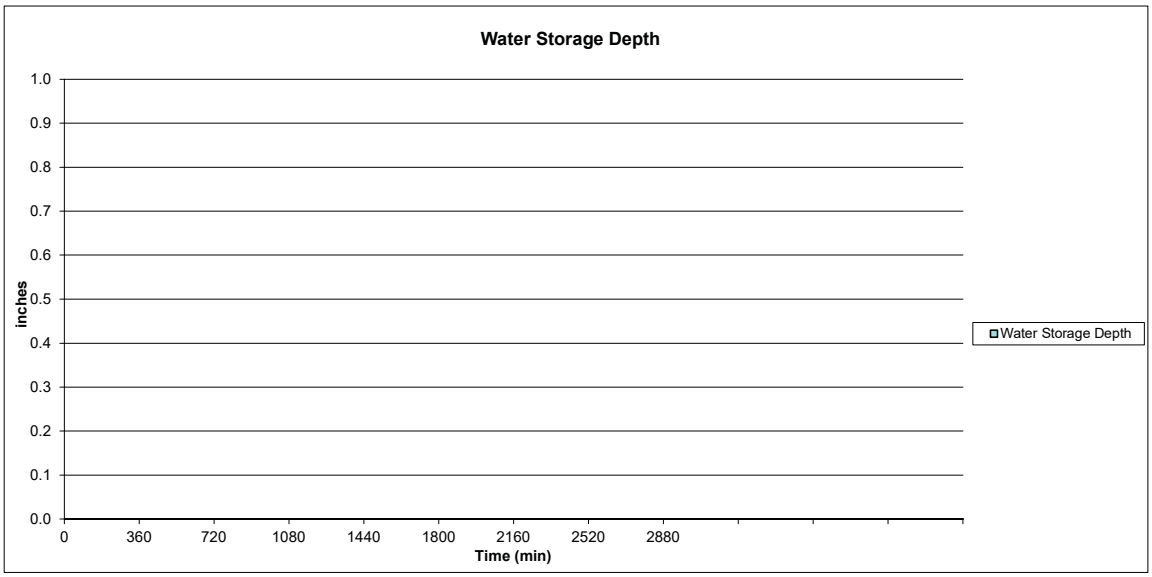
Yes **Facility Sizing Meets Destination Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 30 hour Drawdown Time?**

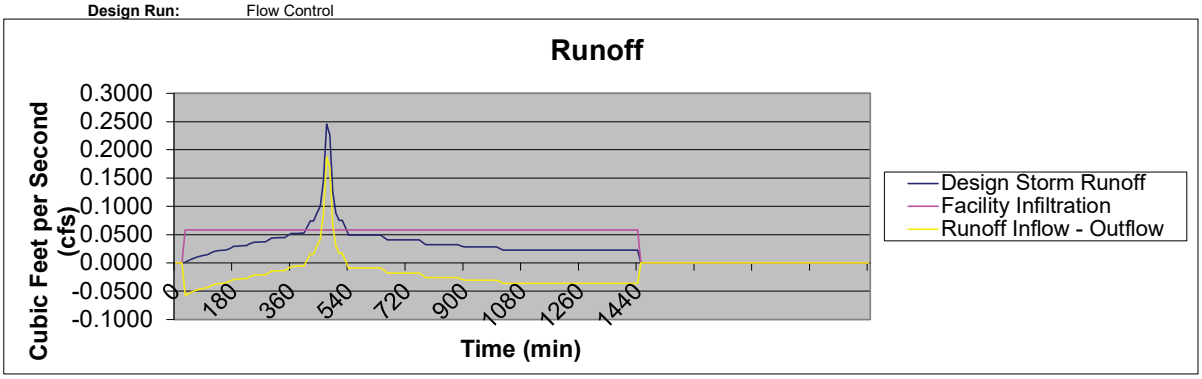
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1I
Design Run: Pollution Reduction

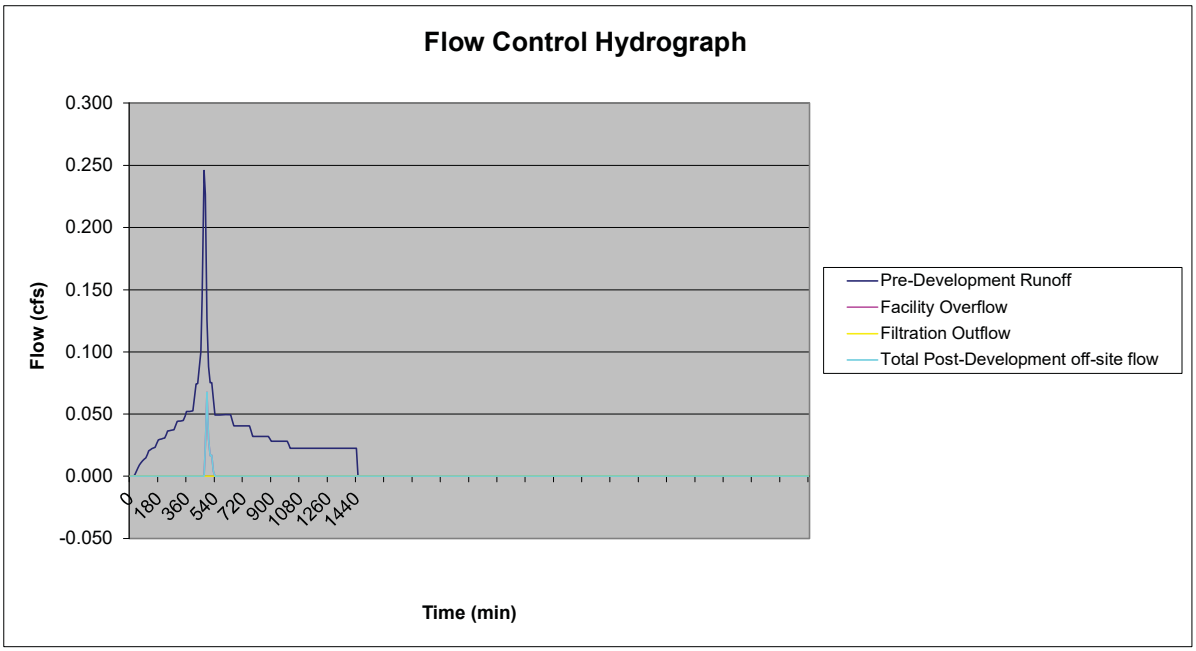


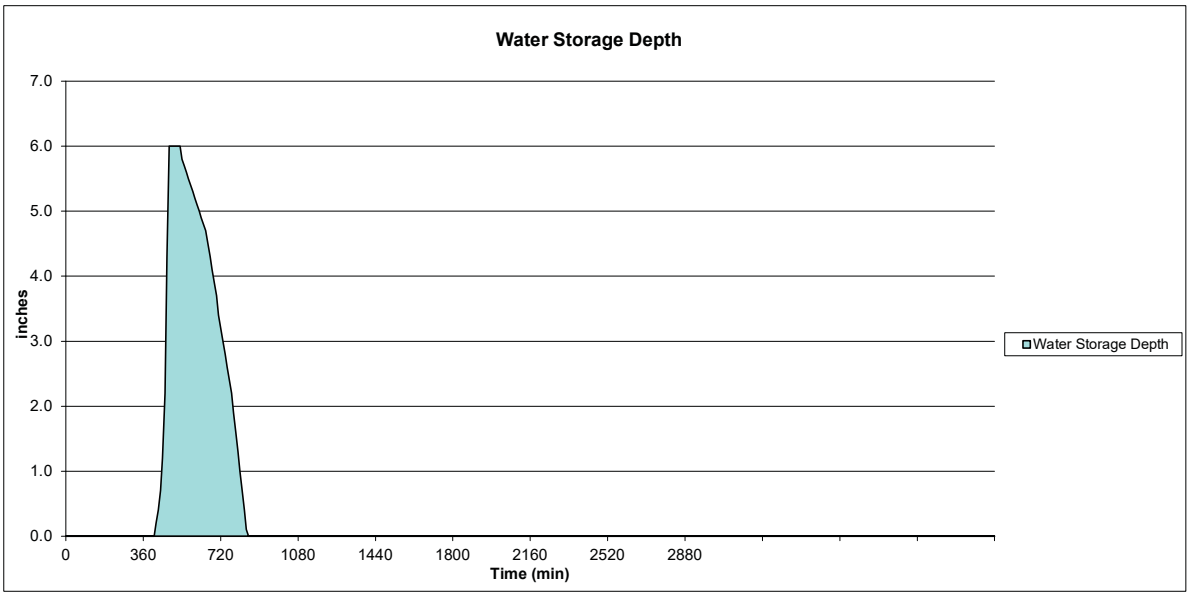




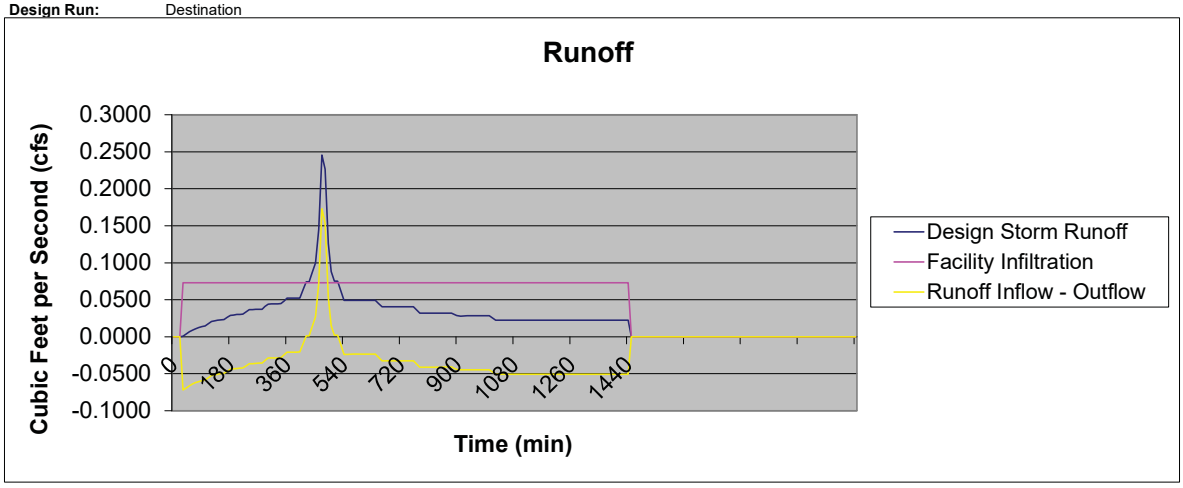
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1I
Design Run: Flow Control

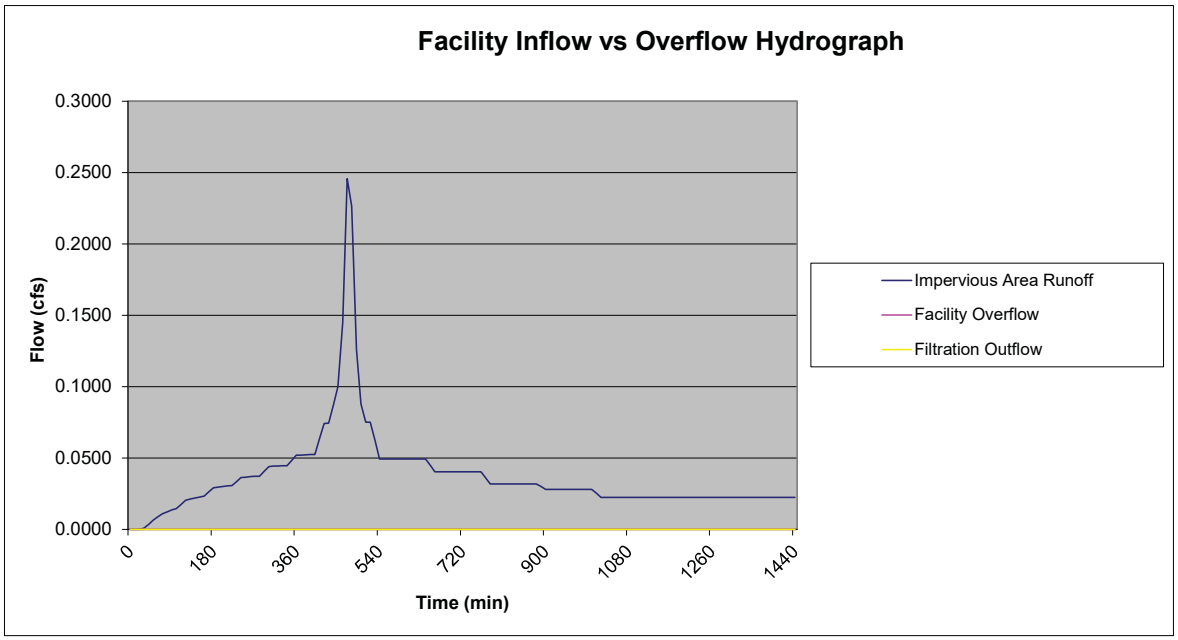


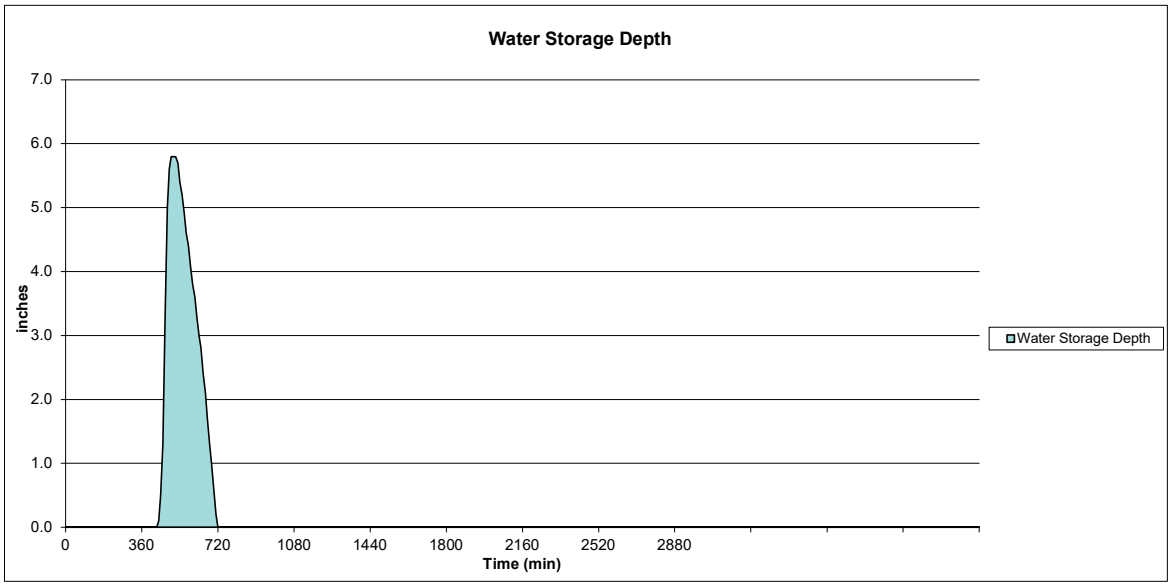




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1I
Design Run: Destination







Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet
24 Hour Storm, NRCS Type 1A Rainfall Distribution
City of Eugene

Version 2.1

Project Information

Project Name:	Three Mile Prairie	**Date:**	12/30/2020
Project Address:	18-12-15-00-00200	**Permit Number:**	NA
	Florence, OR	**Catchment ID:**	1J
Designer:	Clint Beecroft		
Company:	EGR & Associates		

Instructions:

1. Complete this form for each drainage catchment in the project site that is to be sized per the Presumptive Approach.
2. Provide a distinctive Catchment ID for each facility coordinated with the site basin map to correlate the appropriate calculations with the facility.
3. The maximum drainage catchment to be modeled per the Presumptive Approach is 1 acre (43,560 SF)
4. For infiltration facilities in Class A or B soils where no infiltration testing has been perfromed use an infiltration rate of 0.5 in/hr. For all facilities use a maximum soil infiltration rate of 2.5 in/hr for topsoil/growing medium.

Design Requirements:

Choose "Yes" from the dropdown boxes below next to the design standards requirements for this facility.

Pollution Reduction (PR)	Yes
Flow Control (FC)	Yes
Destination (DT)	Yes

*An infiltration facility must be chosen as the facility type to meet destination requirements

Site Data-Post Development

Total Square Footage Impervious Area=	2552	sqft	**Total Square Footage Pervious Area=**	0	sqft
Impervious Area CN=	98		**Pervious Area CN=**	85	
Total Square Footage of Drainage Area=	2552	sft	**Time of Concentration Post Development=**	5	min
Weighted Average CN=	98				

Site Data-Pre Development (Data in this section is only used if Flow Control is required)

Pre-Development CN=	98		**Time of Concentration Pre-Development=**	5	min

Soil Data

Tested Soil Infiltration Rate=	10	in/hr (See Note 4)	**Destination Design=**	5	in/hr
Design Soil Infiltration Rate=	4	in/hr	**Soil Infiltration Rate**		

Design Storms Used For Calculations

Requirement	Rainfall Depth		Design Storm
Pollution Reduction	0.8	inches	Water Quality
Flow Control	5.1	inches	Flood Control
Destination	5.1	inches	Flood Control

Facility Data

Facility Type=	Infiltration Stormwater Planter		**Facility Surface Area=**	254.1	sqft
Surface Width=	7.7	ft	**Facility Surface Perimeter=**	81.4	ft
Surface Length=	33	ft	**Facility Bottom Area=**	141	sqft
Facility Side Slopes=	3	to 1	**Facility Bottom Perimeter=**	69	ft
Max. Ponding Depth in Stormwater Facility=	6	in	**Basin Volume=**	101.0	cf
Depth of Growing Medium (Soil)=	18	in	**Ratio of Facility Area to Impervious Area=**	0.100	

Pollution Reduction-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.011	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	133	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	0.0	in			
Drawdown Time=	0.2	hours			

Yes **Facility Sizing Meets Pollution Reduction Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

Flow Control-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.078	cfs	Peak Facility Overflow Rate=	0.023	cfs
Total Runoff Volume to Stormwater Facility =	1024	cf	Total Overflow Volume=	27	cf
Max. Depth of Stormwater in Facility=	6.0	in	Peak Off-Site Flow Rate Filtration Facility Underdrain=	N\A	cfs
Drawdown Time=	0.2	hours			

Pre-Development Runoff Data

Peak Flow Rate =	0.078	cfs
Total Runoff Volume =	1026	cf

Yes **Facility Sizing Meets Flow Control Standards?**

YES **Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

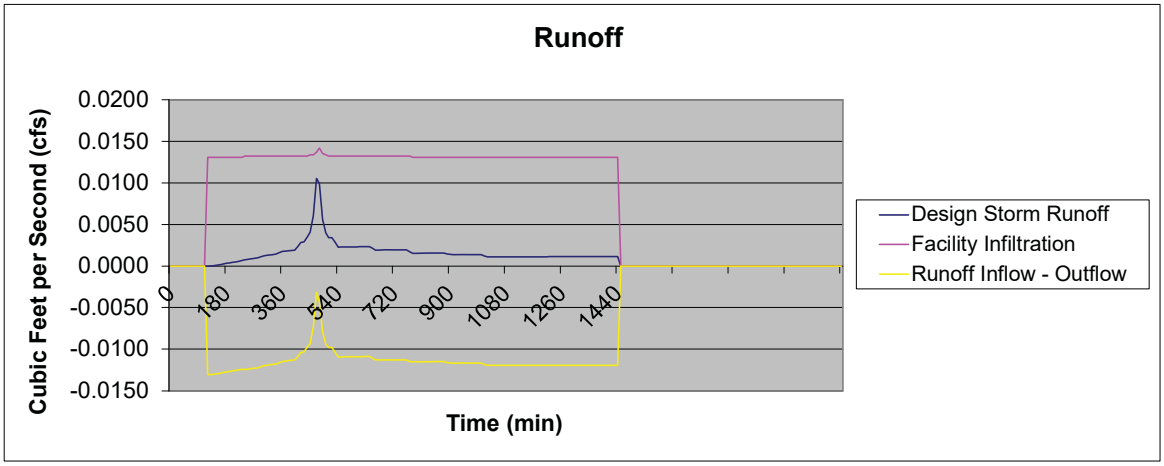
Destination-Calculation Results

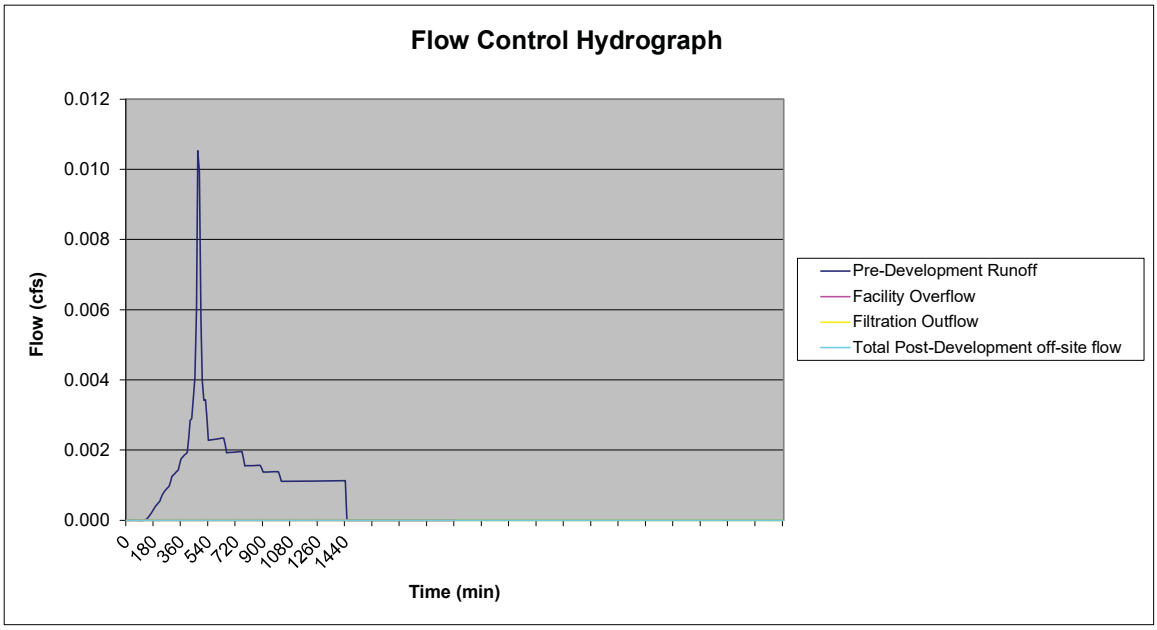
Peak Flow Rate to Stormwater Facility =	0.078	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	1024	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	5.9	in			
Drawdown Time=	0.2	hours			

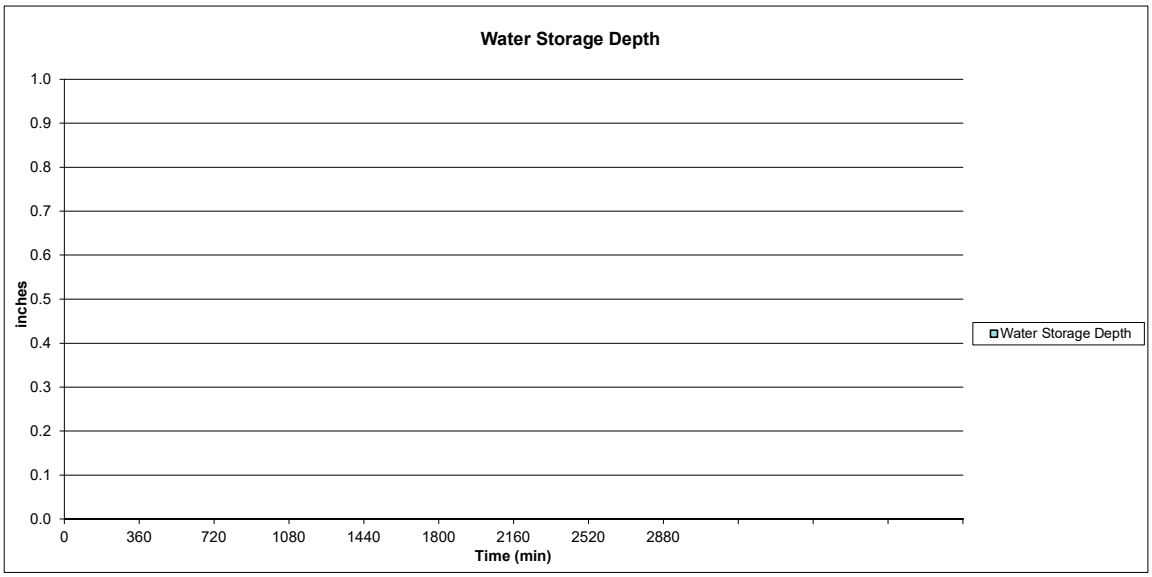
Yes **Facility Sizing Meets Destination Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 30 hour Drawdown Time?**

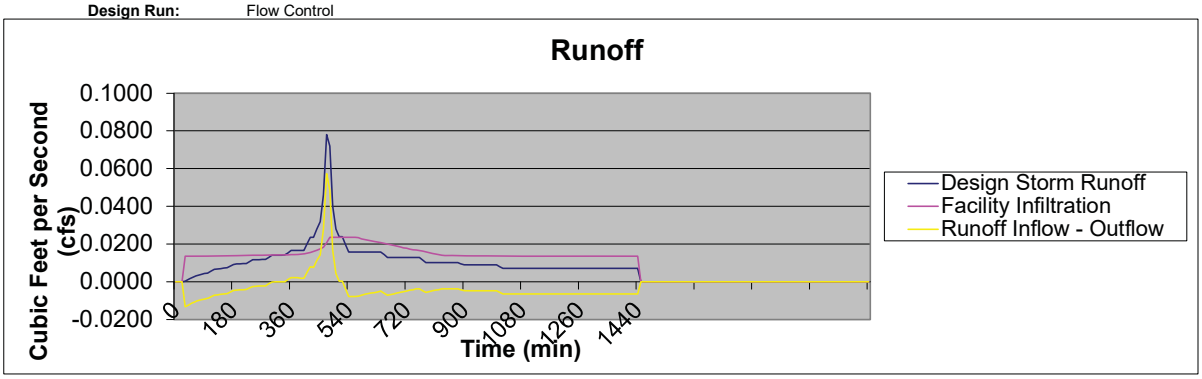
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1J
Design Run: Pollution Reduction

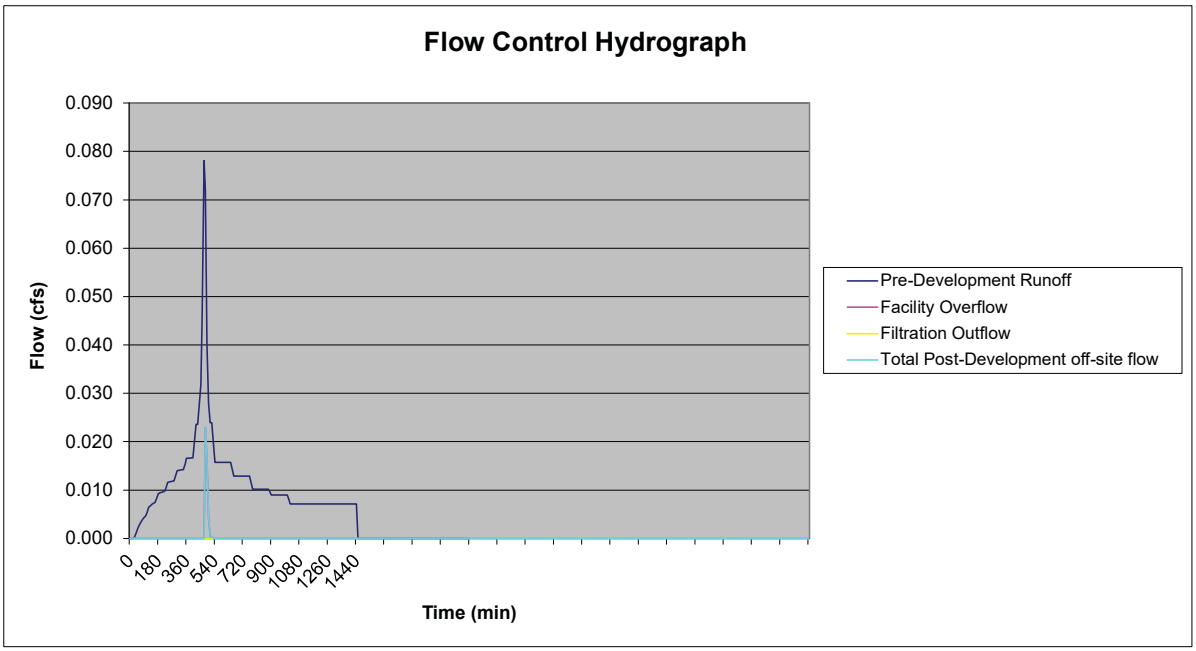


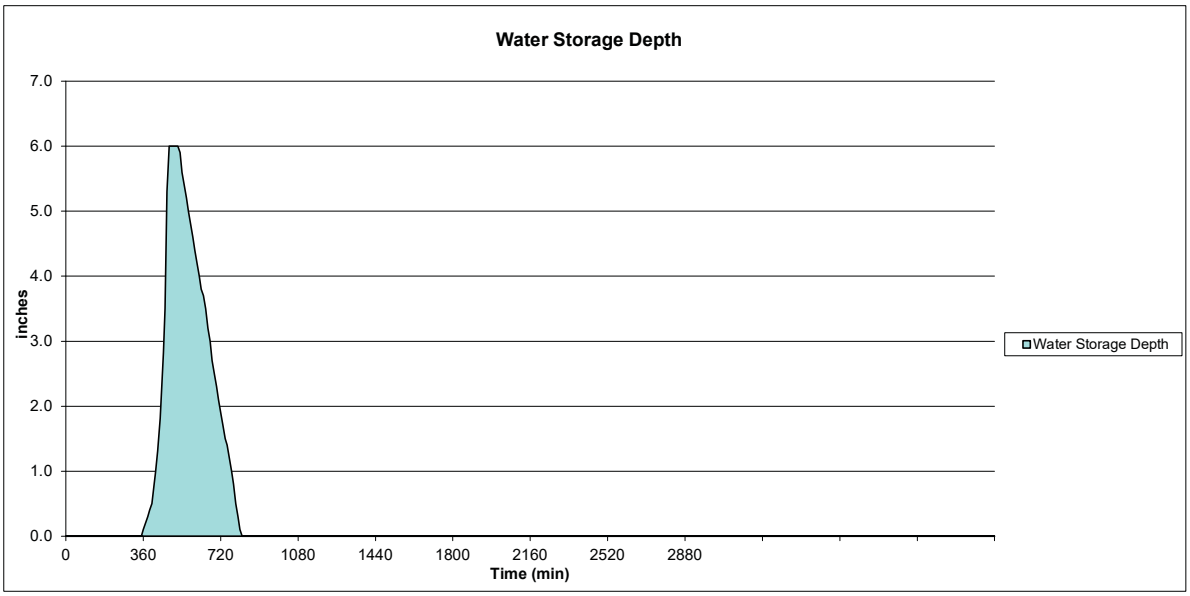




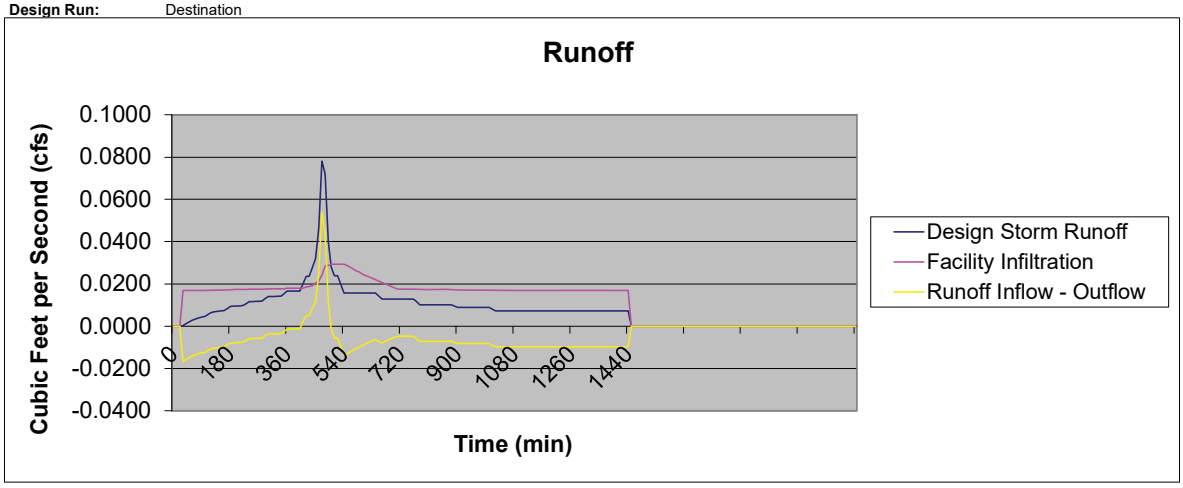
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1J
Design Run: Flow Control

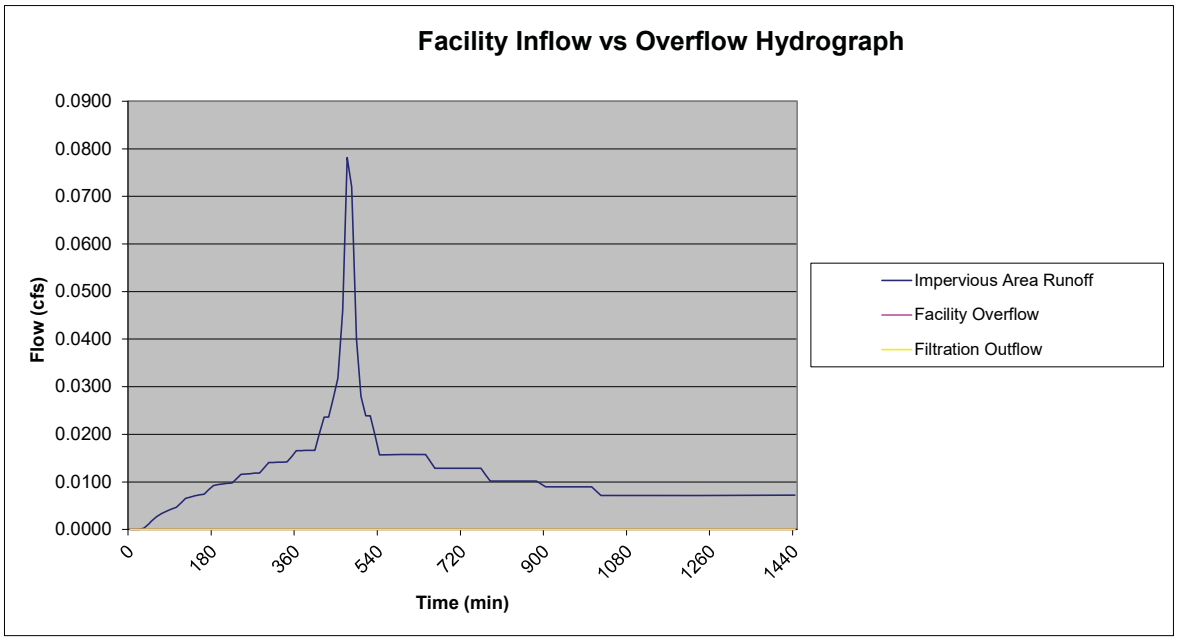


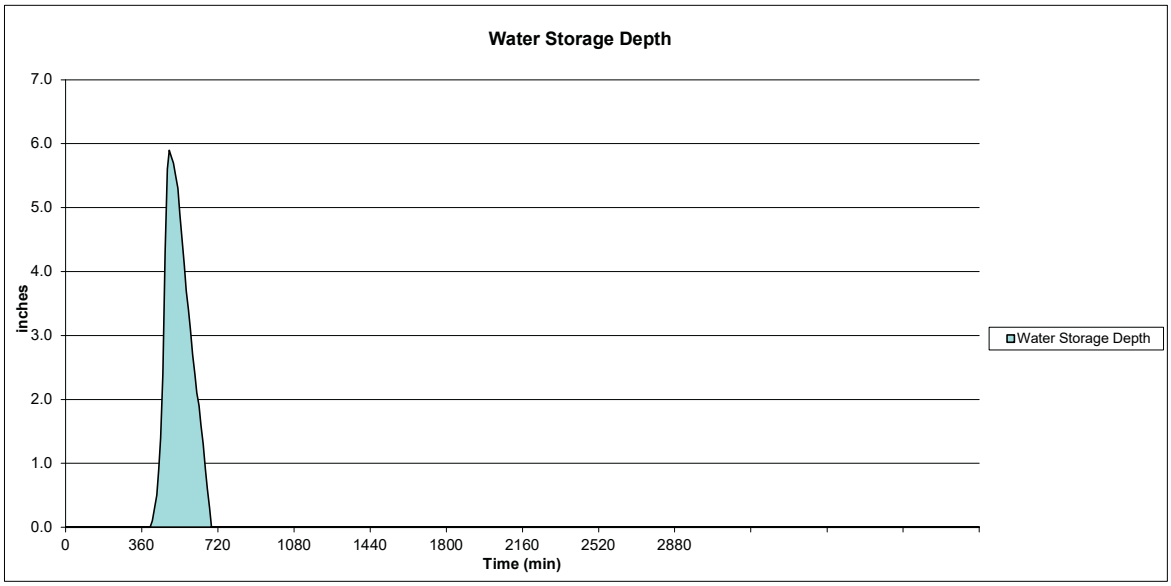




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1J
Design Run: Destination







Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet
24 Hour Storm, NRCS Type 1A Rainfall Distribution
City of Eugene

Version 2.1

Project Information

Project Name:	Three Mile Prairie	**Date:**	12/30/2020
Project Address:	18-12-15-00-00200	**Permit Number:**	NA
	Florence, OR	**Catchment ID:**	1K
Designer:	Clint Beecroft		
Company:	EGR & Associates		

Instructions:

1. Complete this form for each drainage catchment in the project site that is to be sized per the Presumptive Approach.
2. Provide a distinctive Catchment ID for each facility coordinated with the site basin map to correlate the appropriate calculations with the facility.
3. The maximum drainage catchment to be modeled per the Presumptive Approach is 1 acre (43,560 SF)
4. For infiltration facilities in Class A or B soils where no infiltration testing has been perfromed use an infiltration rate of 0.5 in/hr. For all facilities use a maximum soil infiltration rate of 2.5 in/hr for topsoil/growing medium.

Design Requirements:

Choose "Yes" from the dropdown boxes below next to the design standards requirements for this facility.

Pollution Reduction (PR)	Yes
Flow Control (FC)	Yes
Destination (DT)	Yes

*An infiltration facility must be chosen as the facility type to meet destination requirements

Site Data-Post Development

Total Square Footage Impervious Area=	2686	sqft	**Total Square Footage Pervious Area=**	0	sqft
Impervious Area CN=	98		**Pervious Area CN=**	85	
Total Square Footage of Drainage Area=	2686	sft	**Time of Concentration Post Development=**	5	min
Weighted Average CN=	98				

Site Data-Pre Development (Data in this section is only used if Flow Control is required)

Pre-Development CN=	98		**Time of Concentration Pre-Development=**	5	min

Soil Data

Tested Soil Infiltration Rate=	10	in/hr (See Note 4)	**Destination Design=**	5	in/hr
Design Soil Infiltration Rate=	4	in/hr	**Soil Infiltration Rate**		

Design Storms Used For Calculations

Requirement	Rainfall Depth		Design Storm
Pollution Reduction	0.8	inches	Water Quality
Flow Control	5.1	inches	Flood Control
Destination	5.1	inches	Flood Control

Facility Data

Facility Type=	Infiltration Stormwater Planter		**Facility Surface Area=**	254.1	sqft
Surface Width=	7.7	ft	**Facility Surface Perimeter=**	81.4	ft
Surface Length=	33	ft	**Facility Bottom Area=**	107	sqft
Facility Side Slopes=	3	to 1	**Facility Bottom Perimeter=**	65	ft
Max. Ponding Depth in Stormwater Facility=	8	in	**Basin Volume=**	125.8	cf
Depth of Growing Medium (Soil)=	18	in	**Ratio of Facility Area to Impervious Area=**	0.095	

Pollution Reduction-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.011	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	140	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	0.0	in			
Drawdown Time=	0.2	hours			

Yes **Facility Sizing Meets Pollution Reduction Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

Flow Control-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.082	cfs	Peak Facility Overflow Rate=	0.030	cfs
Total Runoff Volume to Stormwater Facility =	1077	cf	Total Overflow Volume=	34	cf
Max. Depth of Stormwater in Facility=	8.0	in	Peak Off-Site Flow Rate Filtration Facility Underdrain=	N\A	cfs
Drawdown Time=	0.2	hours			

Pre-Development Runoff Data

Peak Flow Rate =	0.082	cfs
Total Runoff Volume =	1080	cf

Yes **Facility Sizing Meets Flow Control Standards?**

YES **Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

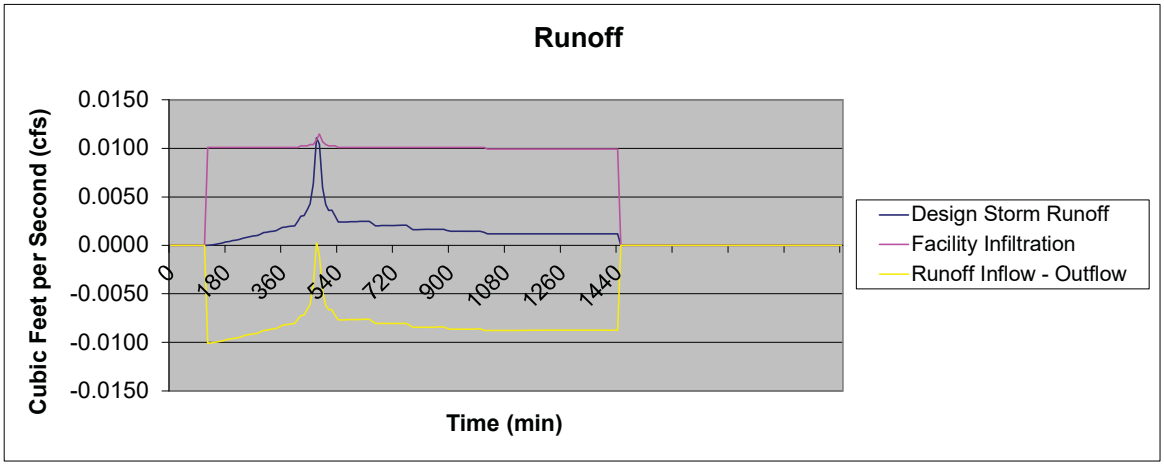
Destination-Calculation Results

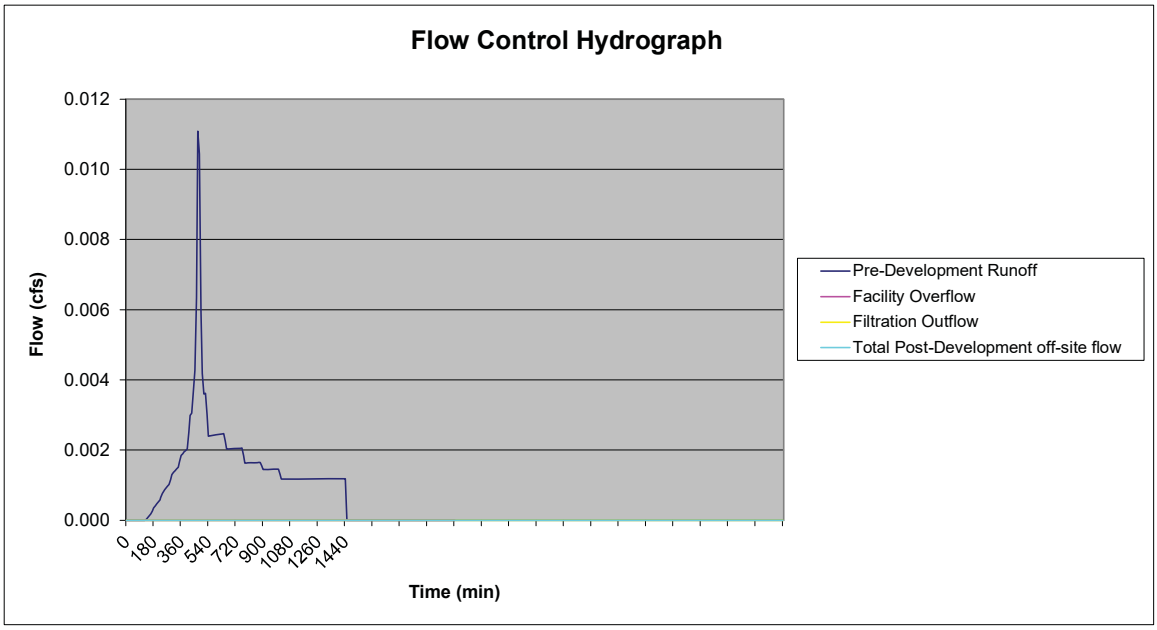
Peak Flow Rate to Stormwater Facility =	0.082	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	1077	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	7.9	in			
Drawdown Time=	0.2	hours			

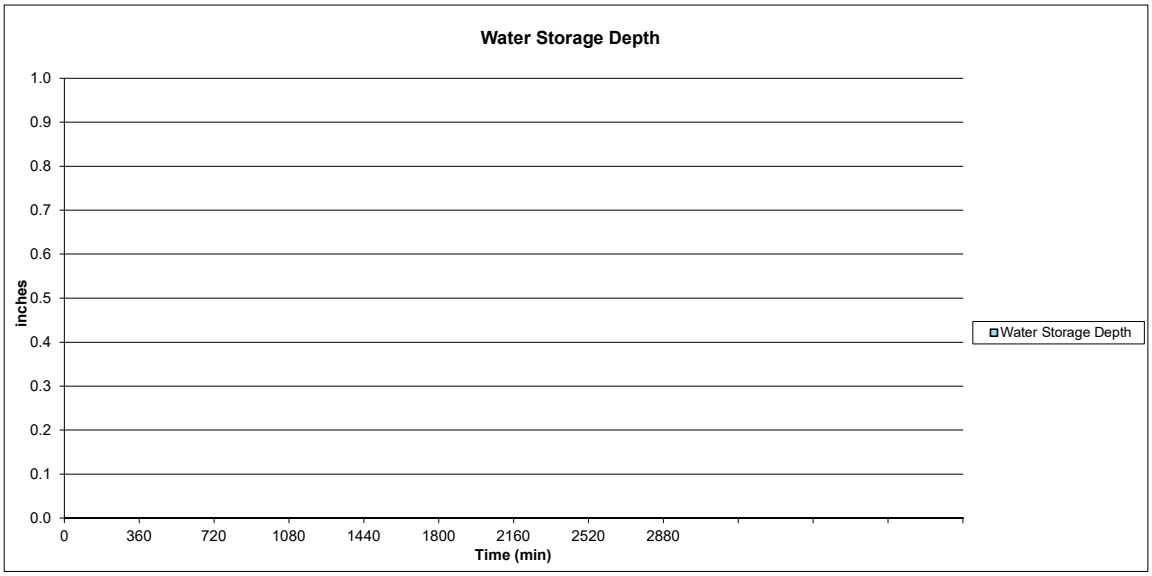
Yes **Facility Sizing Meets Destination Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 30 hour Drawdown Time?**

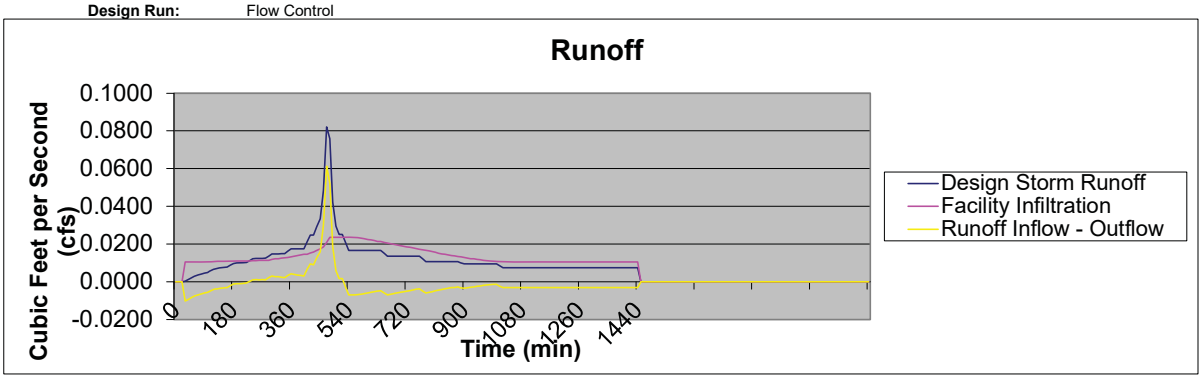
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1K
Design Run: Pollution Reduction

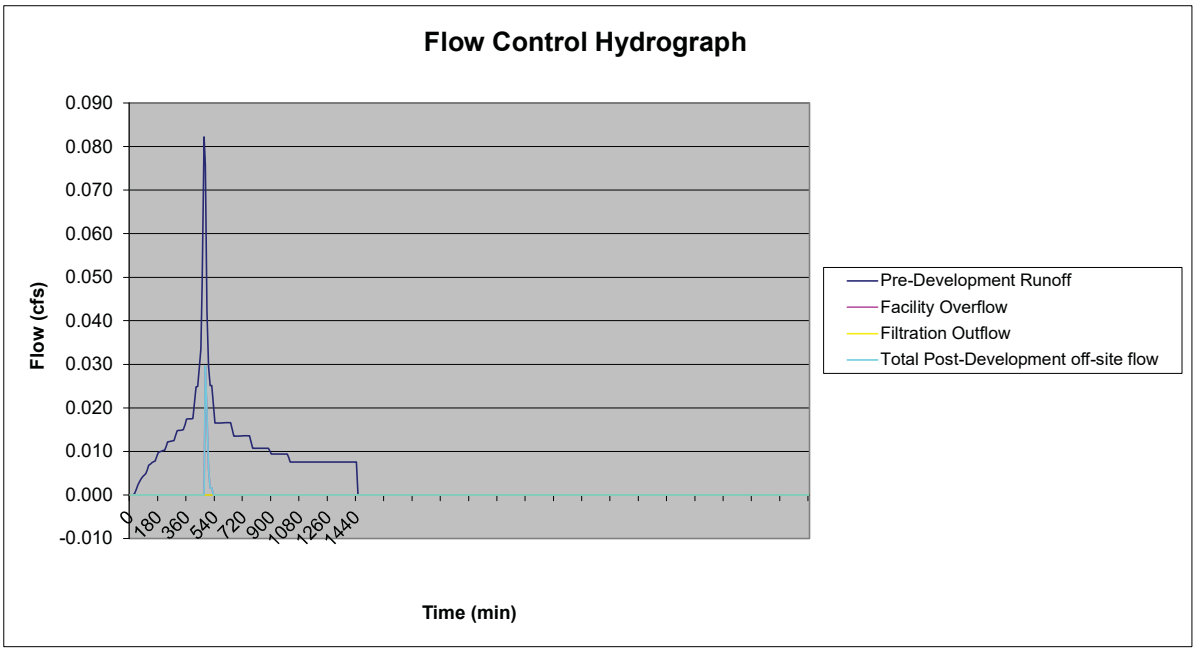


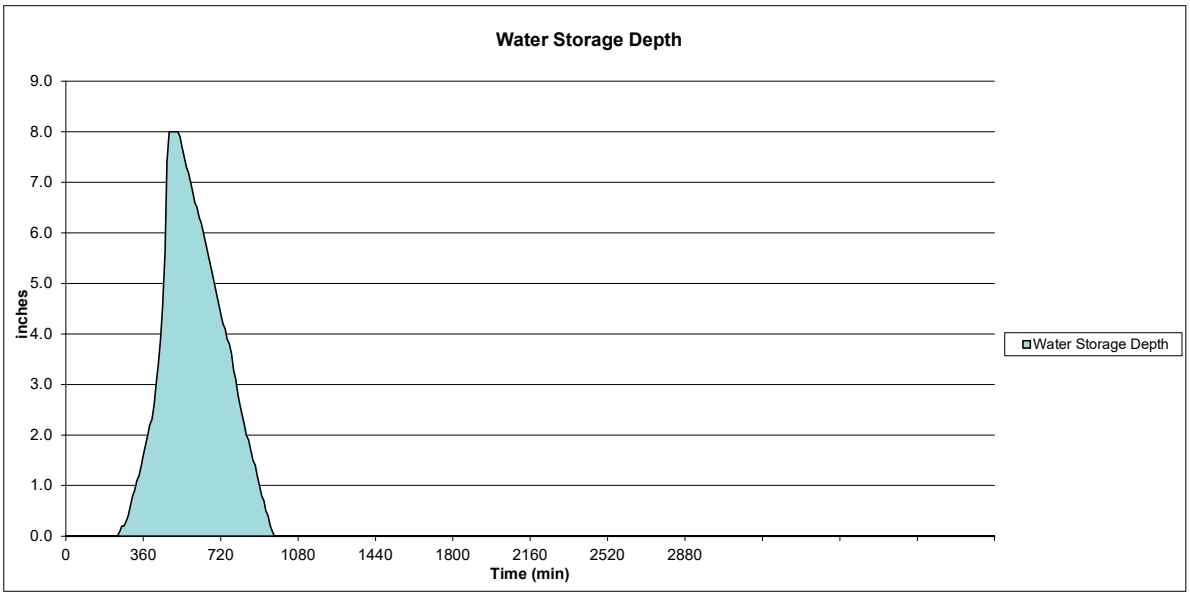




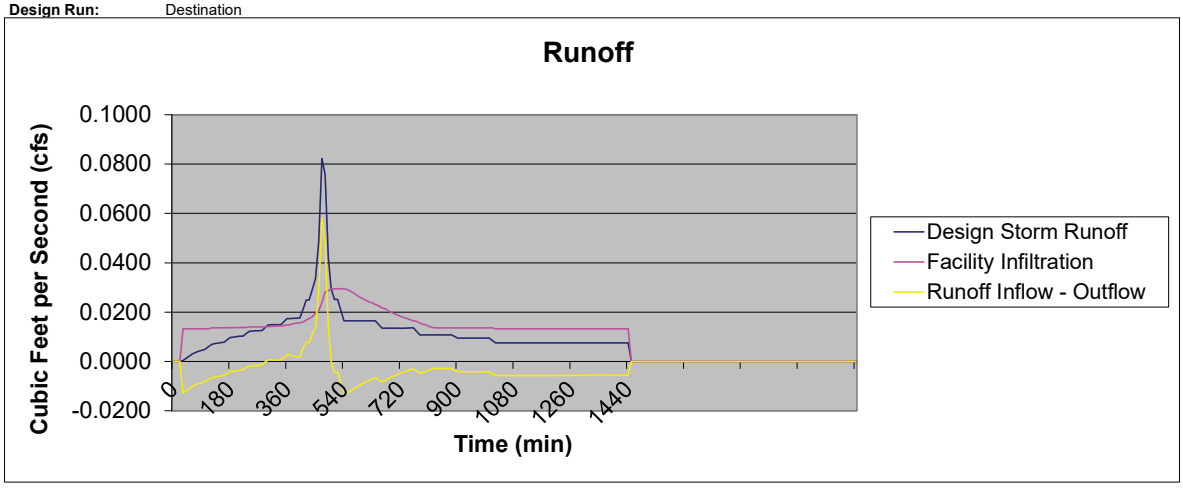
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1K
Design Run: Flow Control

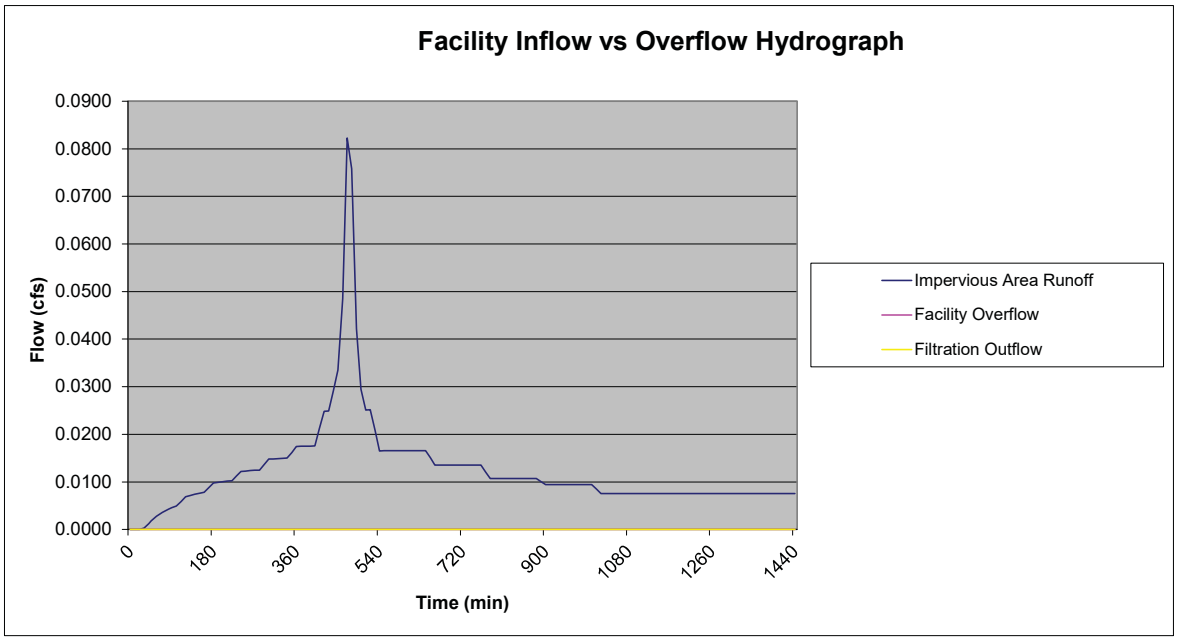


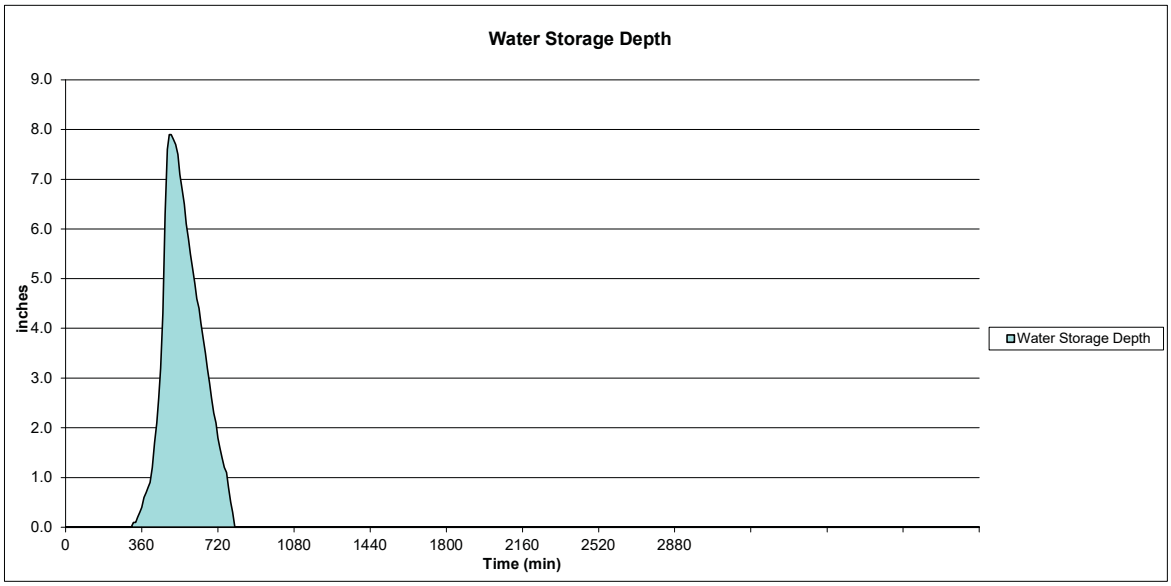




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1K
Design Run: Destination







Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet
24 Hour Storm, NRCS Type 1A Rainfall Distribution
City of Eugene

Version 2.1

Project Information

Project Name:	Three Mile Prairie	**Date:**	12/30/2020
Project Address:	18-12-15-00-00200	**Permit Number:**	NA
	Florence, OR	**Catchment ID:**	1L
Designer:	Clint Beecroft		
Company:	EGR & Associates		

Instructions:

1. Complete this form for each drainage catchment in the project site that is to be sized per the Presumptive Approach.
2. Provide a distinctive Catchment ID for each facility coordinated with the site basin map to correlate the appropriate calculations with the facility.
3. The maximum drainage catchment to be modeled per the Presumptive Approach is 1 acre (43,560 SF)
4. For infiltration facilities in Class A or B soils where no infiltration testing has been perfromed use an infiltration rate of 0.5 in/hr. For all facilities use a maximum soil infiltration rate of 2.5 in/hr for topsoil/growing medium.

Design Requirements:

Choose "Yes" from the dropdown boxes below next to the design standards requirements for this facility.

Pollution Reduction (PR)	Yes
Flow Control (FC)	Yes
Destination (DT)	Yes

*An infiltration facility must be chosen as the facility type to meet destination requirements

Site Data-Post Development

Total Square Footage Impervious Area=	2348	sqft	**Total Square Footage Pervious Area=**	0	sqft
Impervious Area CN=	98		**Pervious Area CN=**	85	
Total Square Footage of Drainage Area=	2348	sft	**Time of Concentration Post Development=**	5	min
Weighted Average CN=	98				

Site Data-Pre Development (Data in this section is only used if Flow Control is required)

Pre-Development CN=	98		**Time of Concentration Pre-Development=**	5	min

Soil Data

Tested Soil Infiltration Rate=	10	in/hr (See Note 4)	**Destination Design=**	5	in/hr
Design Soil Infiltration Rate=	4	in/hr	**Soil Infiltration Rate**		

Design Storms Used For Calculations

Requirement	Rainfall Depth		Design Storm
Pollution Reduction	0.8	inches	Water Quality
Flow Control	5.1	inches	Flood Control
Destination	5.1	inches	Flood Control

Facility Data

Facility Type=	Infiltration Stormwater Planter		**Facility Surface Area=**	184.8	sqft
Surface Width=	6.6	ft	**Facility Surface Perimeter=**	69.2	ft
Surface Length=	28	ft	**Facility Bottom Area=**	185	sqft
Facility Side Slopes=	0	to 1	**Facility Bottom Perimeter=**	69	ft
Max. Ponding Depth in Stormwater Facility=	6	in	**Basin Volume=**	92.4	cf
Depth of Growing Medium (Soil)=	18	in	**Ratio of Facility Area to Impervious Area=**	0.079	

Pollution Reduction-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.010	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	122	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	0.0	in			
Drawdown Time=	0.2	hours			

Yes **Facility Sizing Meets Pollution Reduction Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

Flow Control-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.072	cfs	Peak Facility Overflow Rate=	0.020	cfs
Total Runoff Volume to Stormwater Facility =	942	cf	Total Overflow Volume=	27	cf
Max. Depth of Stormwater in Facility=	6.0	in	Peak Off-Site Flow Rate Filtration Facility Underdrain=	N\A	cfs
Drawdown Time=	0.2	hours			

Pre-Development Runoff Data

Peak Flow Rate =	0.072	cfs
Total Runoff Volume =	944	cf

Yes **Facility Sizing Meets Flow Control Standards?**

YES **Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

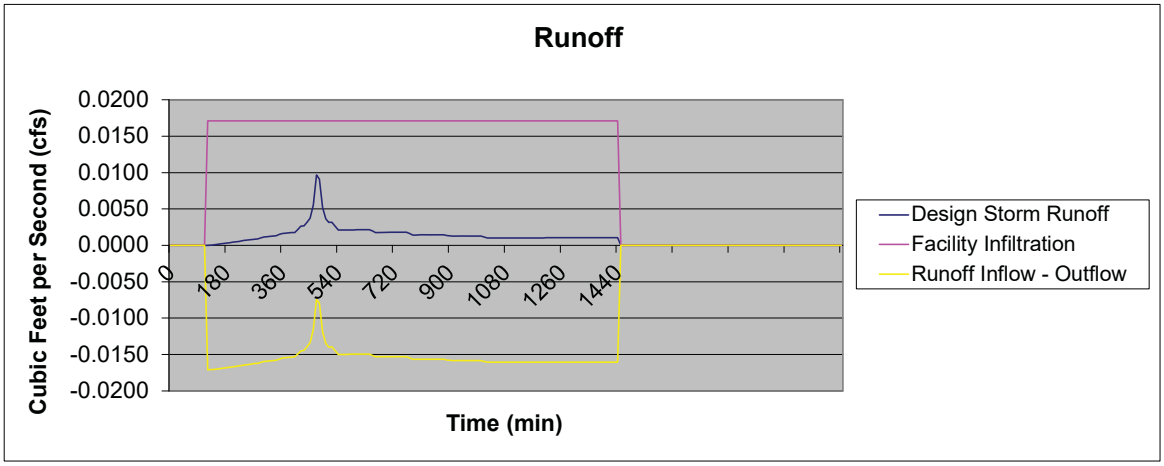
Destination-Calculation Results

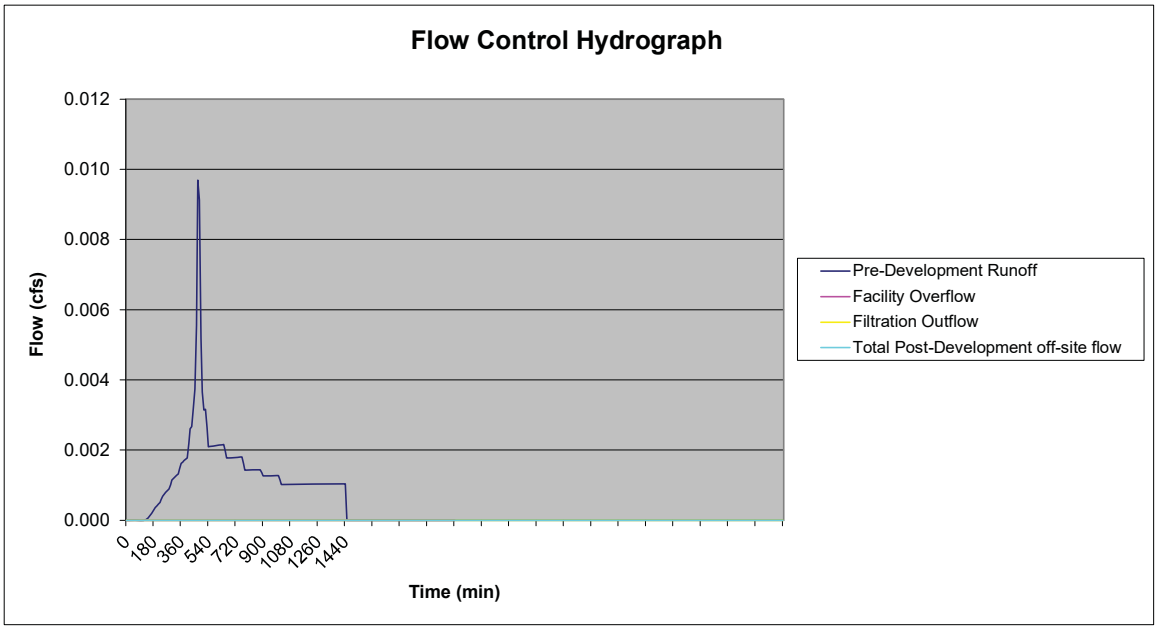
Peak Flow Rate to Stormwater Facility =	0.072	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	942	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	5.8	in			
Drawdown Time=	0.2	hours			

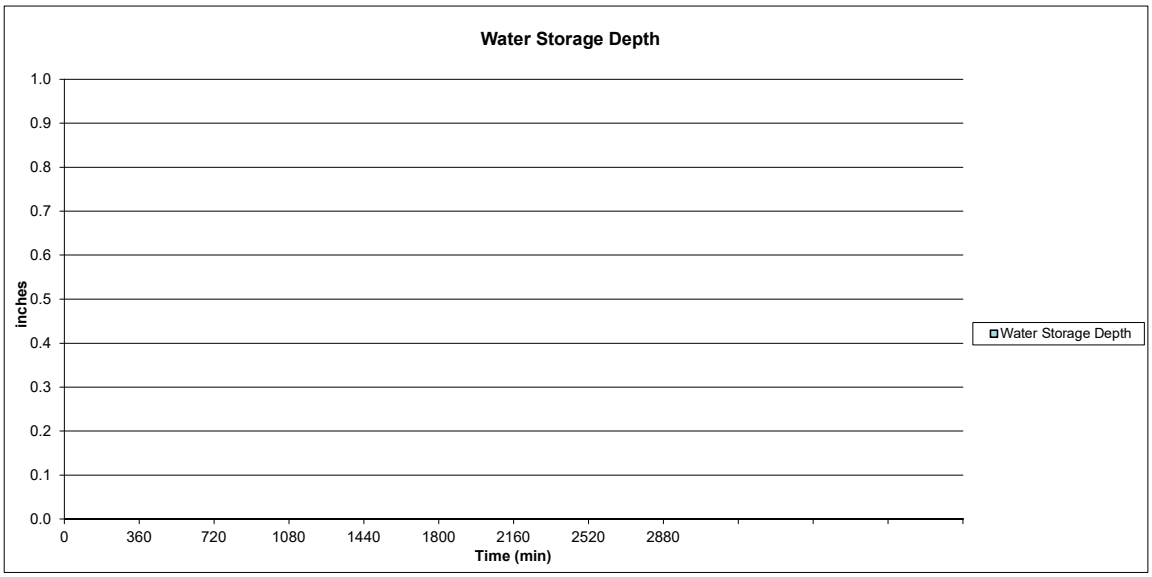
Yes **Facility Sizing Meets Destination Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 30 hour Drawdown Time?**

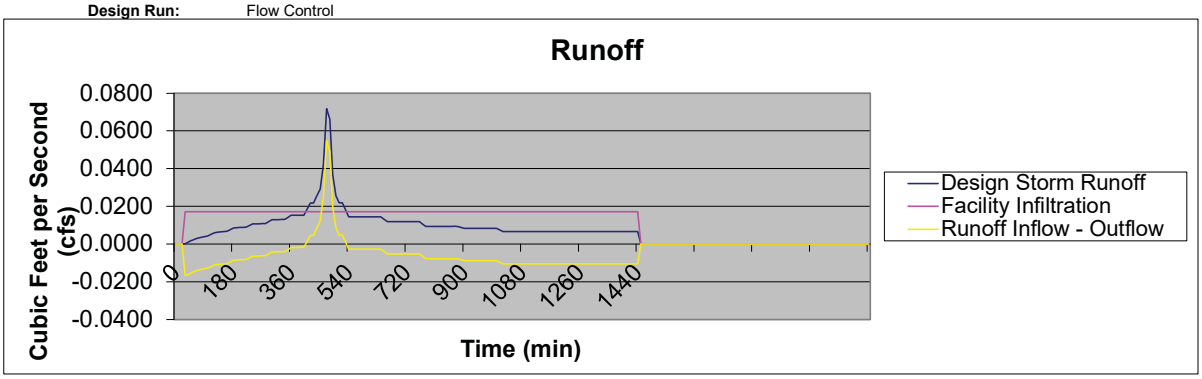
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1L
Design Run: Pollution Reduction

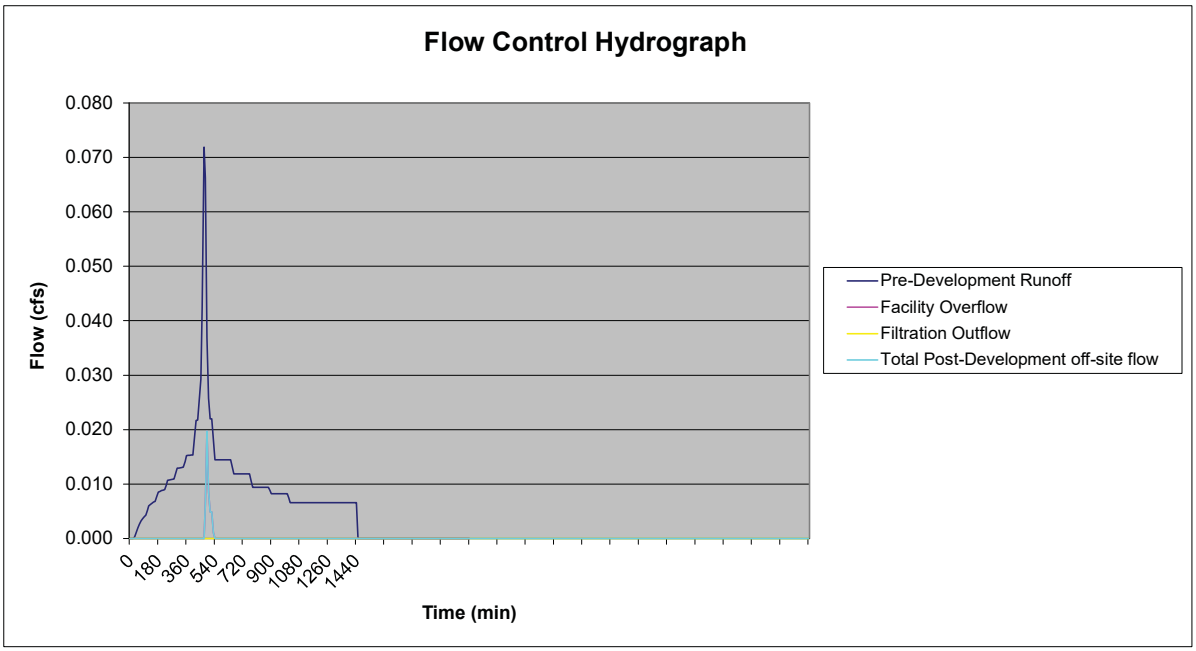


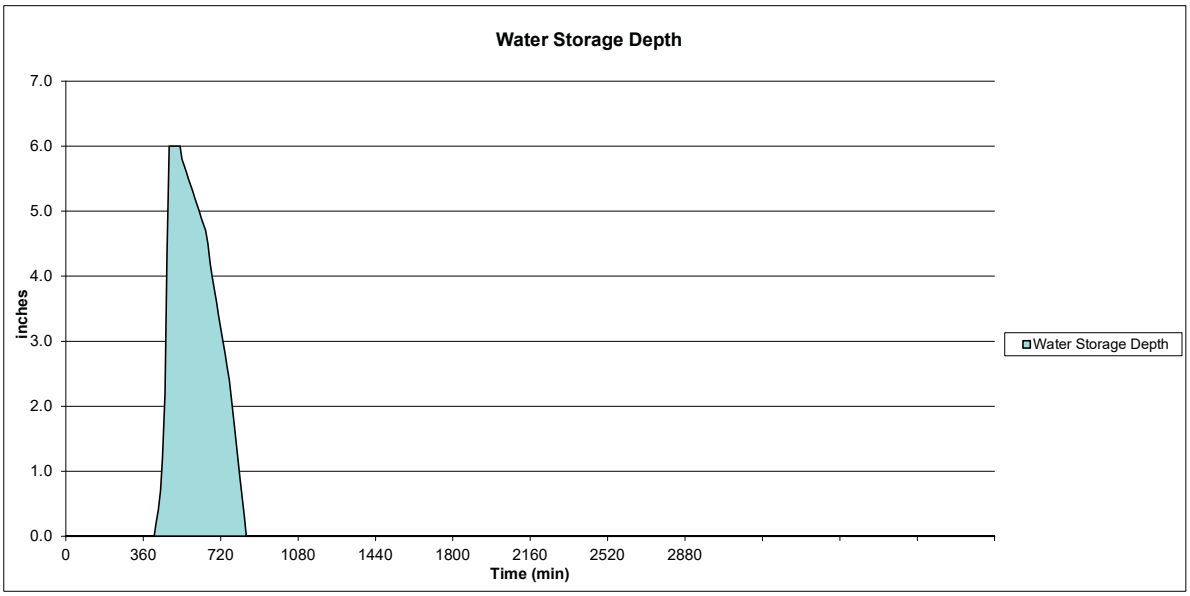




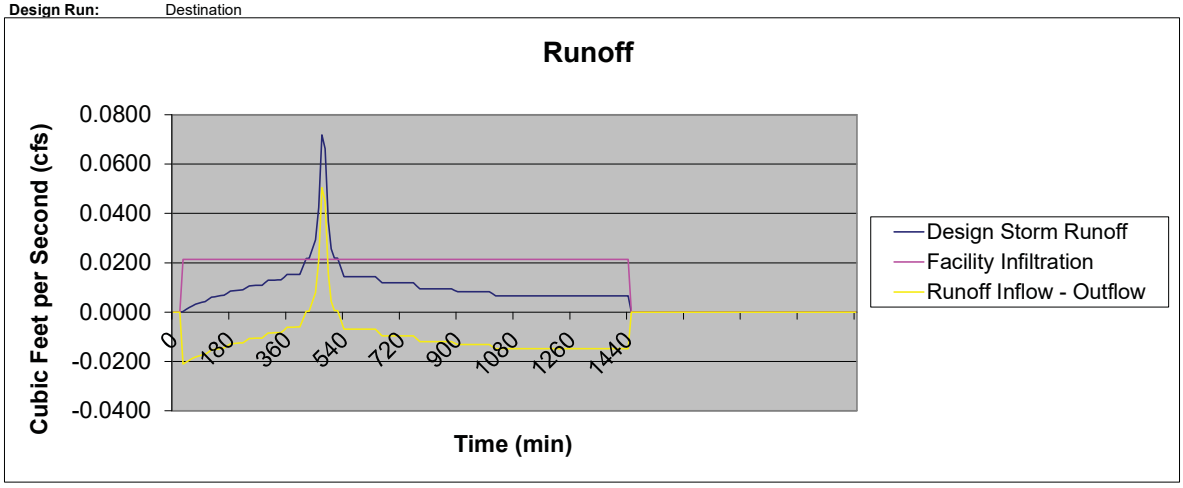
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1L
Design Run: Flow Control

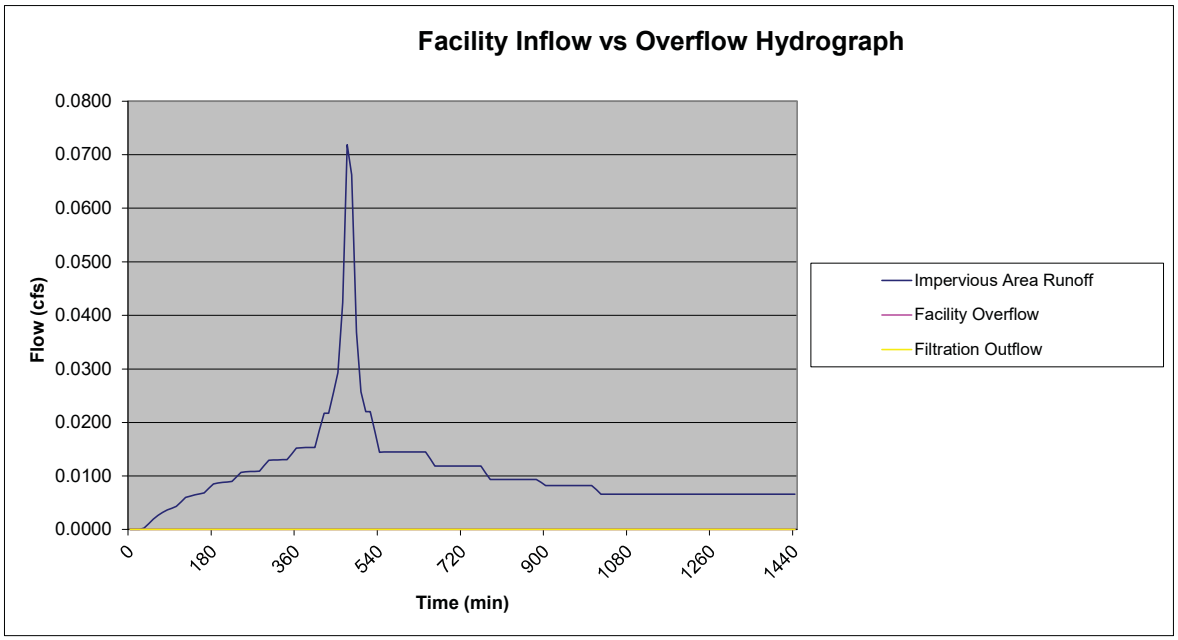


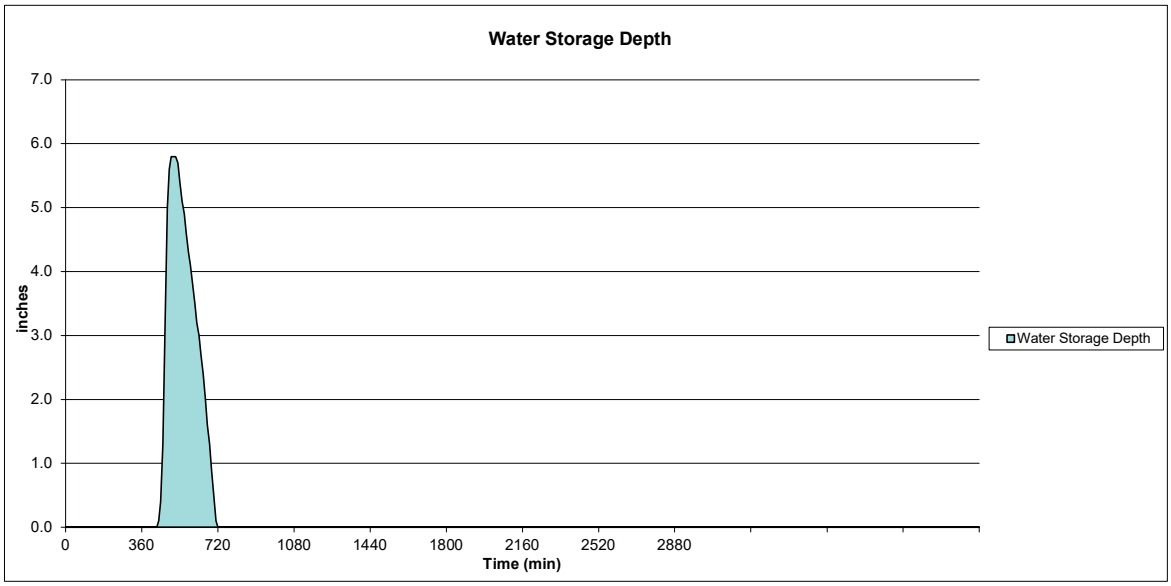




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1L
Design Run: Destination







Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet
24 Hour Storm, NRCS Type 1A Rainfall Distribution
City of Eugene

Version 2.1

Project Information

Project Name:	Three Mile Prairie	**Date:**	12/30/2020
Project Address:	18-12-15-00-00200	**Permit Number:**	NA
	Florence, OR	**Catchment ID:**	1M
Designer:	Clint Beecroft		
Company:	EGR & Associates		

Instructions:

1. Complete this form for each drainage catchment in the project site that is to be sized per the Presumptive Approach.
2. Provide a distinctive Catchment ID for each facility coordinated with the site basin map to correlate the appropriate calculations with the facility.
3. The maximum drainage catchment to be modeled per the Presumptive Approach is 1 acre (43,560 SF)
4. For infiltration facilities in Class A or B soils where no infiltration testing has been perfromed use an infiltration rate of 0.5 in/hr. For all facilities use a maximum soil infiltration rate of 2.5 in/hr for topsoil/growing medium.

Design Requirements:

Choose "Yes" from the dropdown boxes below next to the design standards requirements for this facility.

Pollution Reduction (PR)	Yes
Flow Control (FC)	Yes
Destination (DT)	Yes

*An infiltration facility must be chosen as the facility type to meet destination requirements

Site Data-Post Development

Total Square Footage Impervious Area=	2447	sqft	**Total Square Footage Pervious Area=**	0	sqft
Impervious Area CN=	98		**Pervious Area CN=**	85	
Total Square Footage of Drainage Area=	2447	sft	**Time of Concentration Post Development=**	5	min
Weighted Average CN=	98				

Site Data-Pre Development (Data in this section is only used if Flow Control is required)

Pre-Development CN=	98		**Time of Concentration Pre-Development=**	5	min

Soil Data

Tested Soil Infiltration Rate=	10	in/hr (See Note 4)	**Destination Design=**	5	in/hr
Design Soil Infiltration Rate=	4	in/hr	**Soil Infiltration Rate**		

Design Storms Used For Calculations

Requirement	Rainfall Depth		Design Storm
Pollution Reduction	0.8	inches	Water Quality
Flow Control	5.1	inches	Flood Control
Destination	5.1	inches	Flood Control

Facility Data

Facility Type=	Infiltration Stormwater Planter		**Facility Surface Area=**	238.7	sqft
Surface Width=	7.7	ft	**Facility Surface Perimeter=**	77.4	ft
Surface Length=	31	ft	**Facility Bottom Area=**	116	sqft
Facility Side Slopes=	3	to 1	**Facility Bottom Perimeter=**	63	ft
Max. Ponding Depth in Stormwater Facility=	7	in	**Basin Volume=**	106.9	cf
Depth of Growing Medium (Soil)=	18	in	**Ratio of Facility Area to Impervious Area=**	0.098	

Pollution Reduction-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.010	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	128	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	0.0	in			
Drawdown Time=	0.2	hours			

Yes **Facility Sizing Meets Pollution Reduction Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

Flow Control-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.075	cfs	Peak Facility Overflow Rate=	0.023	cfs
Total Runoff Volume to Stormwater Facility =	981	cf	Total Overflow Volume=	27	cf
Max. Depth of Stormwater in Facility=	7.0	in	Peak Off-Site Flow Rate Filtration Facility Underdrain=	N\A	cfs
Drawdown Time=	0.2	hours			

Pre-Development Runoff Data

Peak Flow Rate =	0.075	cfs
Total Runoff Volume =	984	cf

Yes **Facility Sizing Meets Flow Control Standards?**

YES **Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

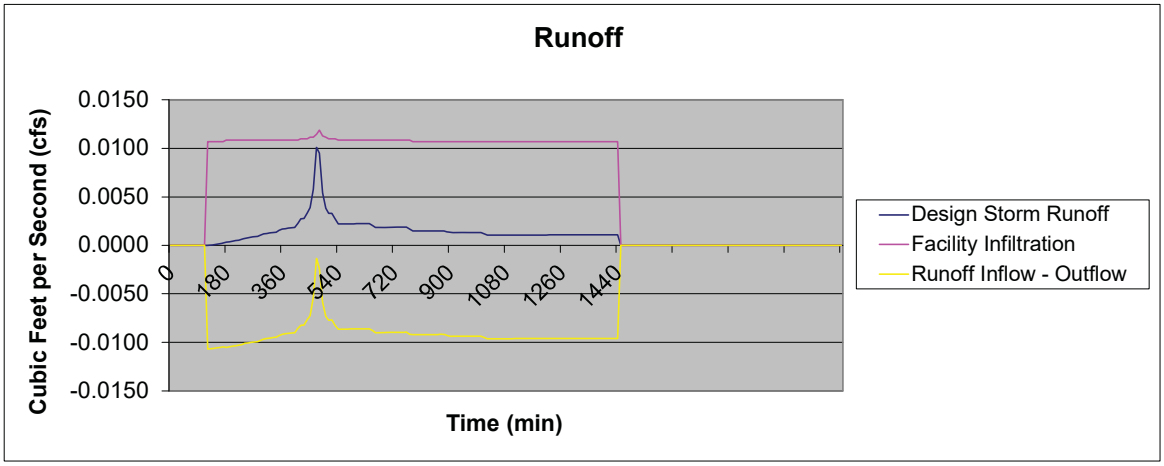
Destination-Calculation Results

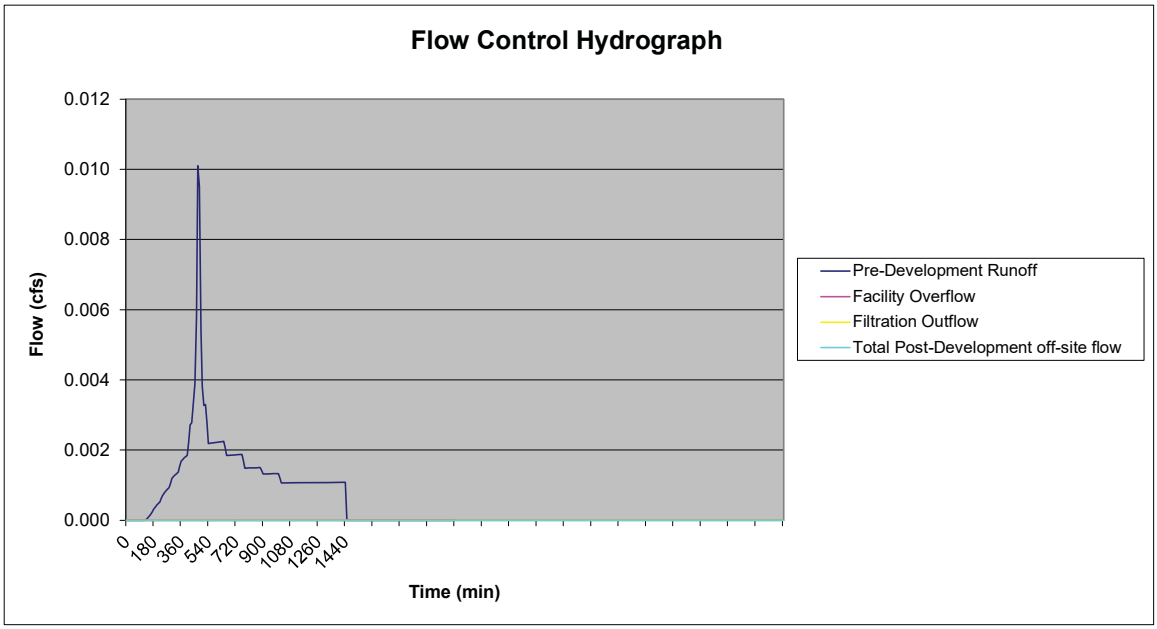
Peak Flow Rate to Stormwater Facility =	0.075	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	981	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	6.8	in			
Drawdown Time=	0.2	hours			

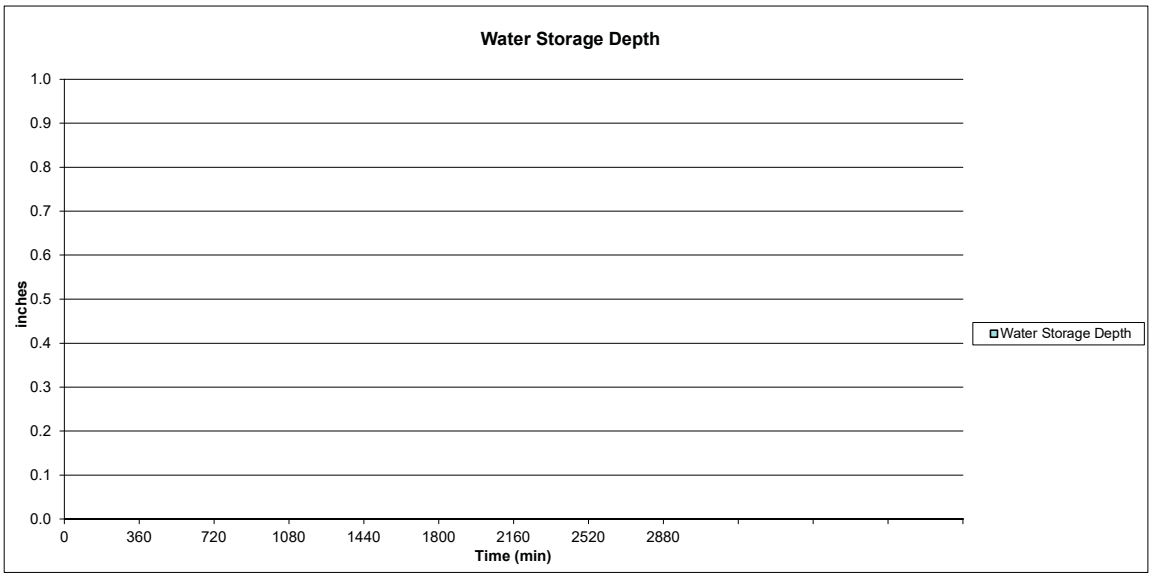
Yes **Facility Sizing Meets Destination Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 30 hour Drawdown Time?**

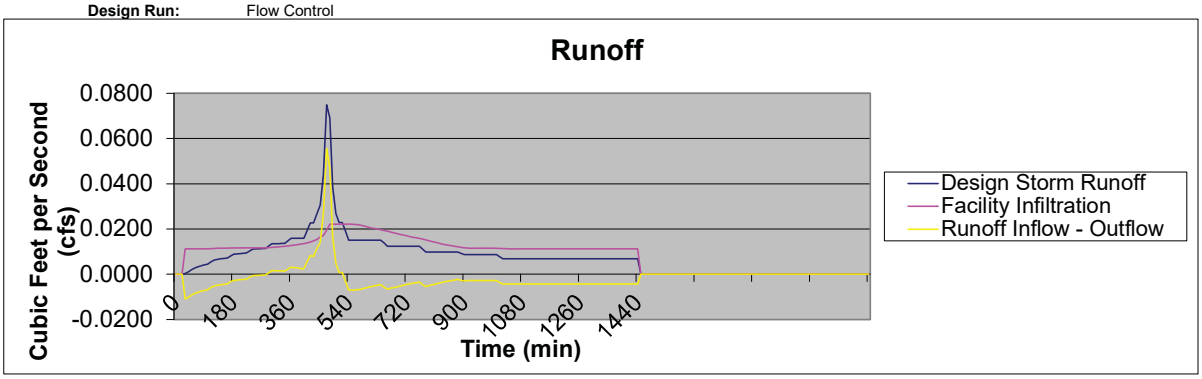
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1M
Design Run: Pollution Reduction

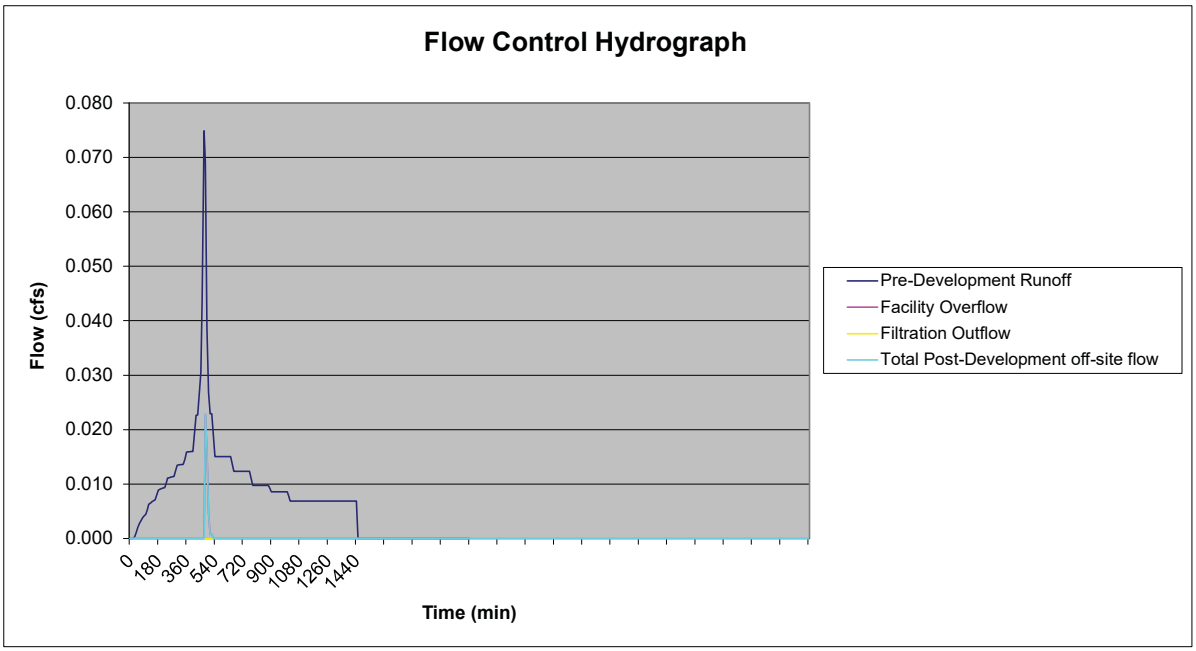


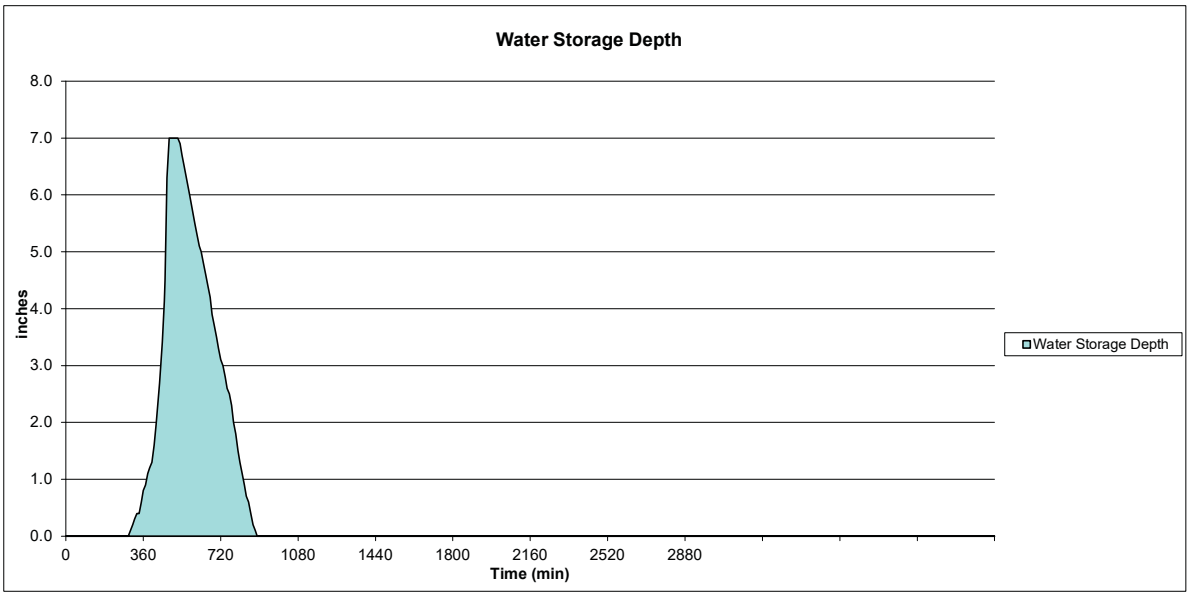




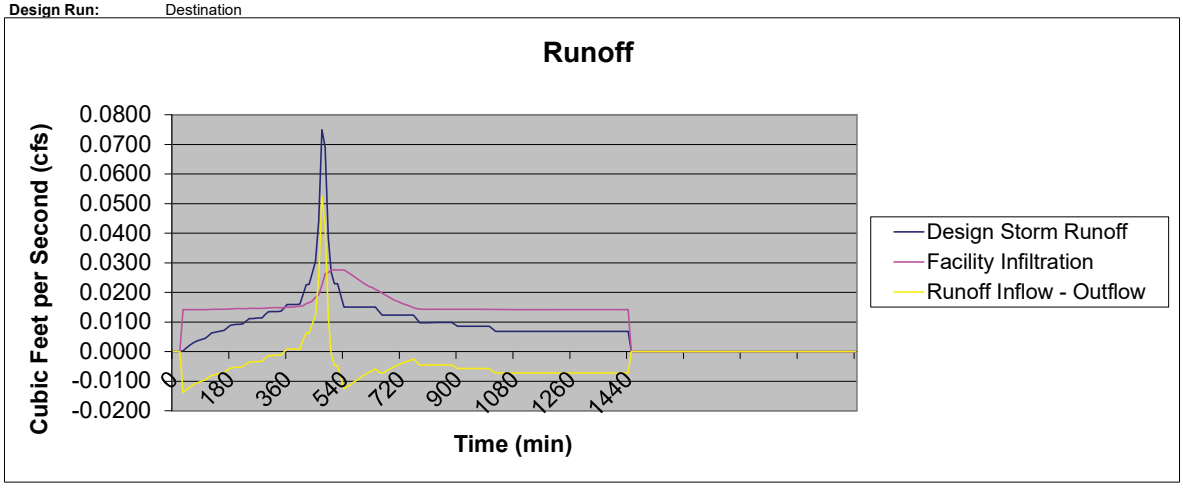
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1M
Design Run: Flow Control

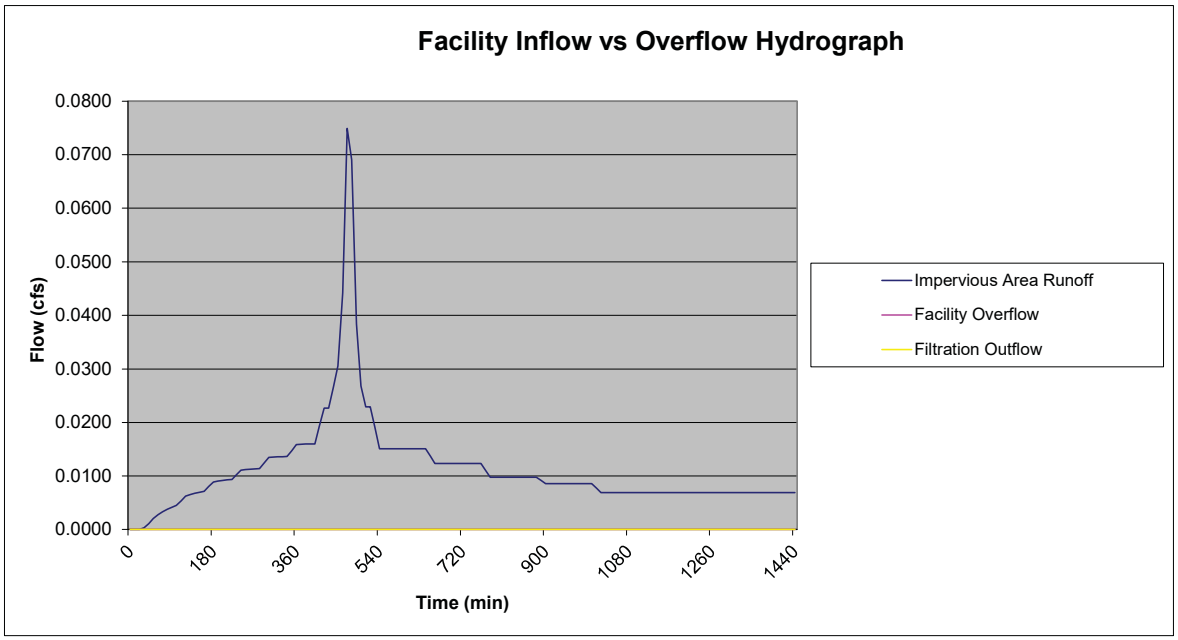


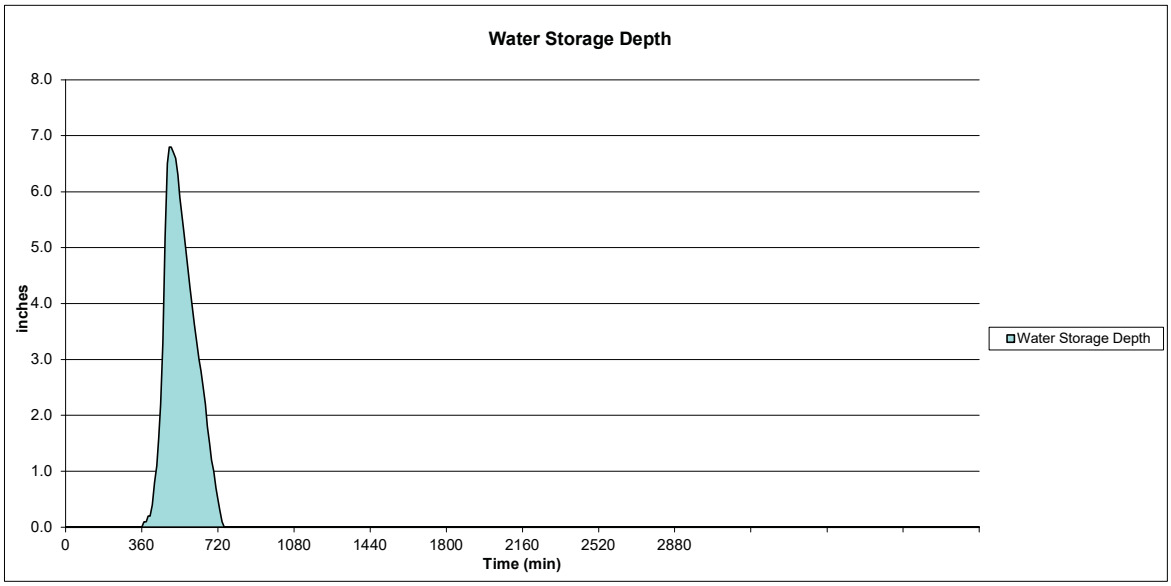




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1M
Design Run: Destination







Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet
24 Hour Storm, NRCS Type 1A Rainfall Distribution
City of Eugene

Version 2.1

Project Information

Project Name:	Three Mile Prairie	**Date:**	12/30/2020
Project Address:	18-12-15-00-00200	**Permit Number:**	NA
	Florence, OR	**Catchment ID:**	1N
Designer:	Clint Beecroft		
Company:	EGR & Associates		

Instructions:

1. Complete this form for each drainage catchment in the project site that is to be sized per the Presumptive Approach.
2. Provide a distinctive Catchment ID for each facility coordinated with the site basin map to correlate the appropriate calculations with the facility.
3. The maximum drainage catchment to be modeled per the Presumptive Approach is 1 acre (43,560 SF)
4. For infiltration facilities in Class A or B soils where no infiltration testing has been perfromed use an infiltration rate of 0.5 in/hr. For all facilities use a maximum soil infiltration rate of 2.5 in/hr for topsoil/growing medium.

Design Requirements:

Choose "Yes" from the dropdown boxes below next to the design standards requirements for this facility.

Pollution Reduction (PR)	Yes
Flow Control (FC)	Yes
Destination (DT)	Yes

*An infiltration facility must be chosen as the facility type to meet destination requirements

Site Data-Post Development

Total Square Footage Impervious Area=	2822	sqft	**Total Square Footage Pervious Area=**	0	sqft
Impervious Area CN=	98		**Pervious Area CN=**	85	
Total Square Footage of Drainage Area=	2822	sft	**Time of Concentration Post Development=**	5	min
Weighted Average CN=	98				

Site Data-Pre Development (Data in this section is only used if Flow Control is required)

Pre-Development CN=	98		**Time of Concentration Pre-Development=**	5	min

Soil Data

Tested Soil Infiltration Rate=	10	in/hr (See Note 4)	**Destination Design=**	5	in/hr
Design Soil Infiltration Rate=	4	in/hr	**Soil Infiltration Rate**		

Design Storms Used For Calculations

Requirement	Rainfall Depth		Design Storm
Pollution Reduction	0.8	inches	Water Quality
Flow Control	5.1	inches	Flood Control
Destination	5.1	inches	Flood Control

Facility Data

Facility Type=	Infiltration Stormwater Planter		**Facility Surface Area=**	226.8	sqft
Surface Width=	4.2	ft	**Facility Surface Perimeter=**	116.4	ft
Surface Length=	54	ft	**Facility Bottom Area=**	227	sqft
Facility Side Slopes=	0	to 1	**Facility Bottom Perimeter=**	116	ft
Max. Ponding Depth in Stormwater Facility=	6	in	**Basin Volume=**	113.4	cf
Depth of Growing Medium (Soil)=	18	in	**Ratio of Facility Area to Impervious Area=**	0.080	

Pollution Reduction-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.012	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	147	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	0.0	in			
Drawdown Time=	0.2	hours			

Yes **Facility Sizing Meets Pollution Reduction Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

Flow Control-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.086	cfs	Peak Facility Overflow Rate=	0.023	cfs
Total Runoff Volume to Stormwater Facility =	1132	cf	Total Overflow Volume=	27	cf
Max. Depth of Stormwater in Facility=	6.0	in	Peak Off-Site Flow Rate Filtration Facility Underdrain=	N\A	cfs
Drawdown Time=	0.2	hours			

Pre-Development Runoff Data

Peak Flow Rate =	0.086	cfs
Total Runoff Volume =	1134	cf

Yes **Facility Sizing Meets Flow Control Standards?**

YES **Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

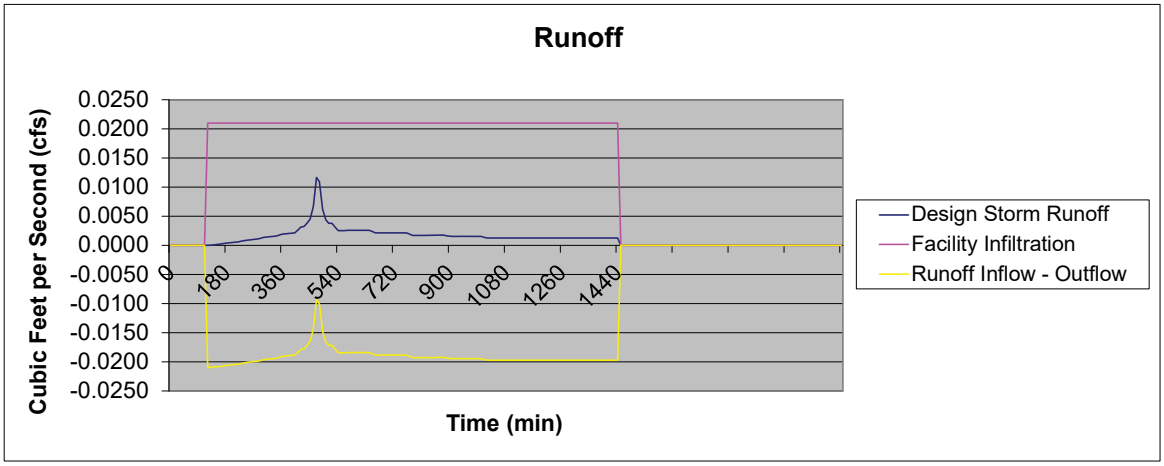
Destination-Calculation Results

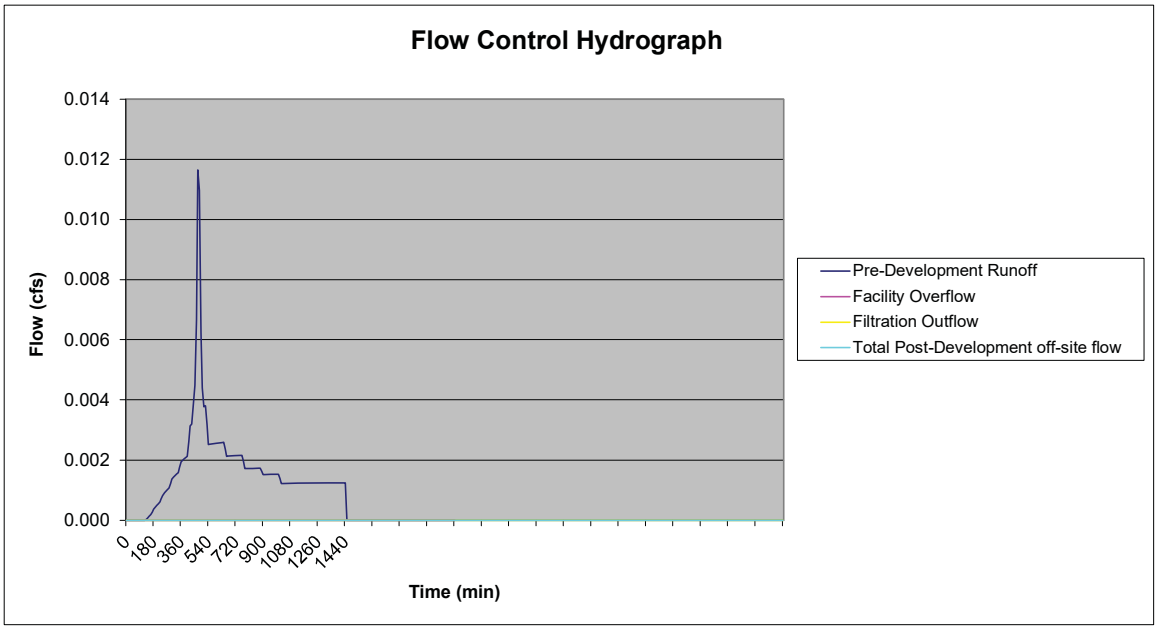
Peak Flow Rate to Stormwater Facility =	0.086	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	1132	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	5.5	in			
Drawdown Time=	0.2	hours			

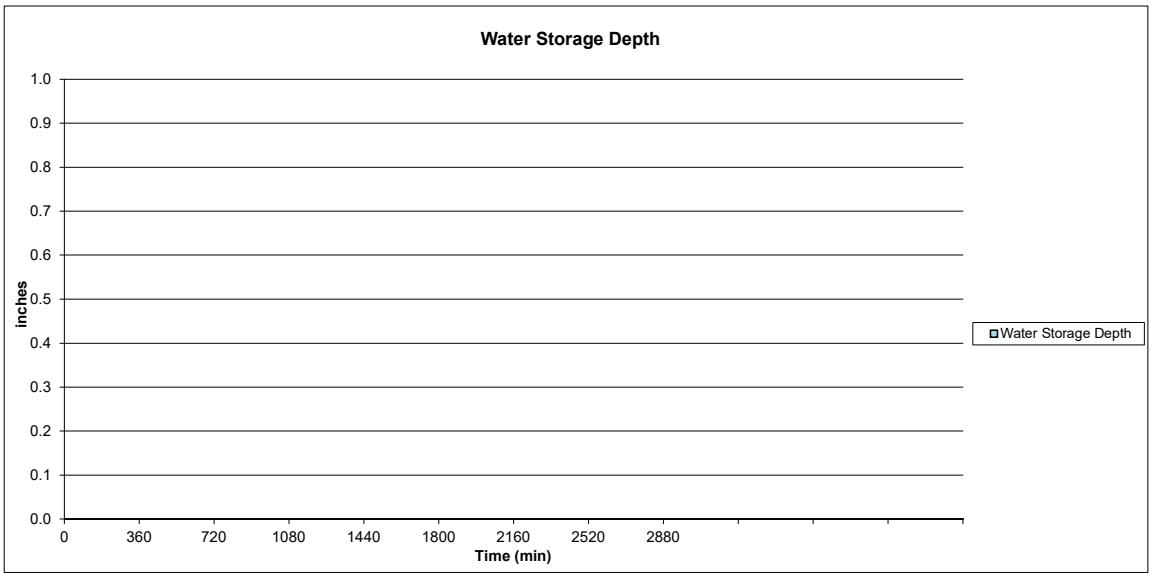
Yes **Facility Sizing Meets Destination Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 30 hour Drawdown Time?**

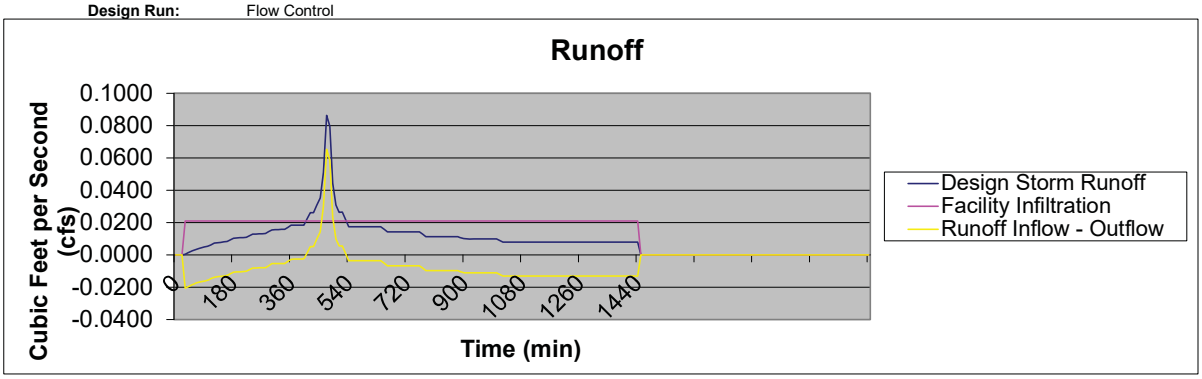
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1N
Design Run: Pollution Reduction

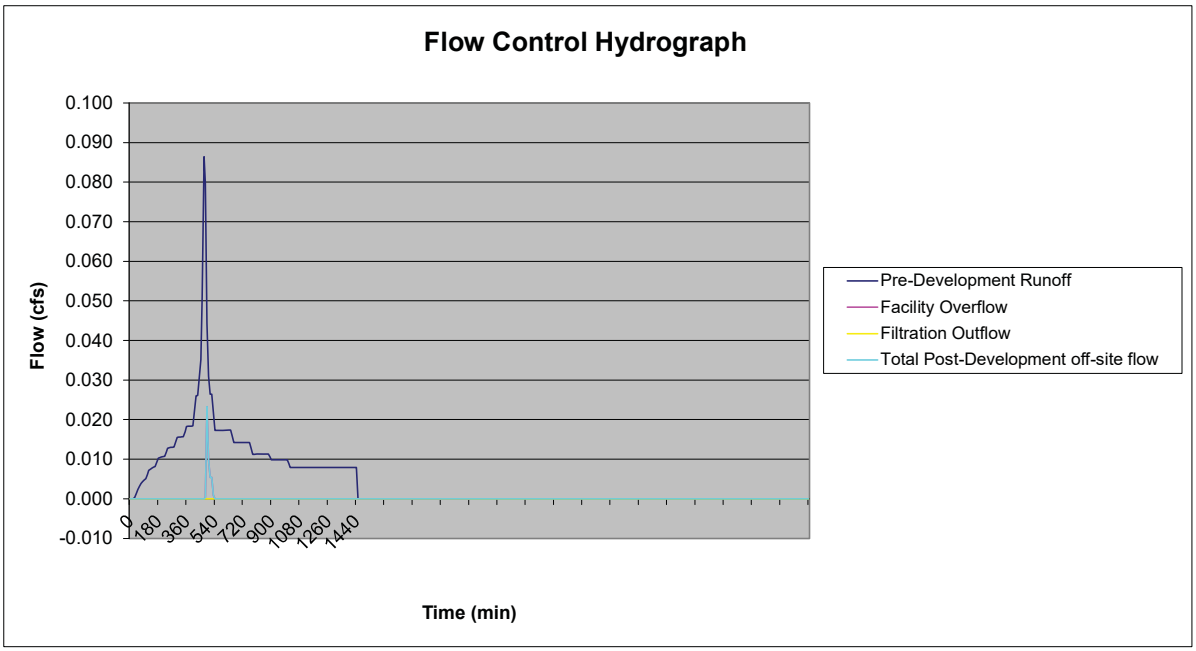


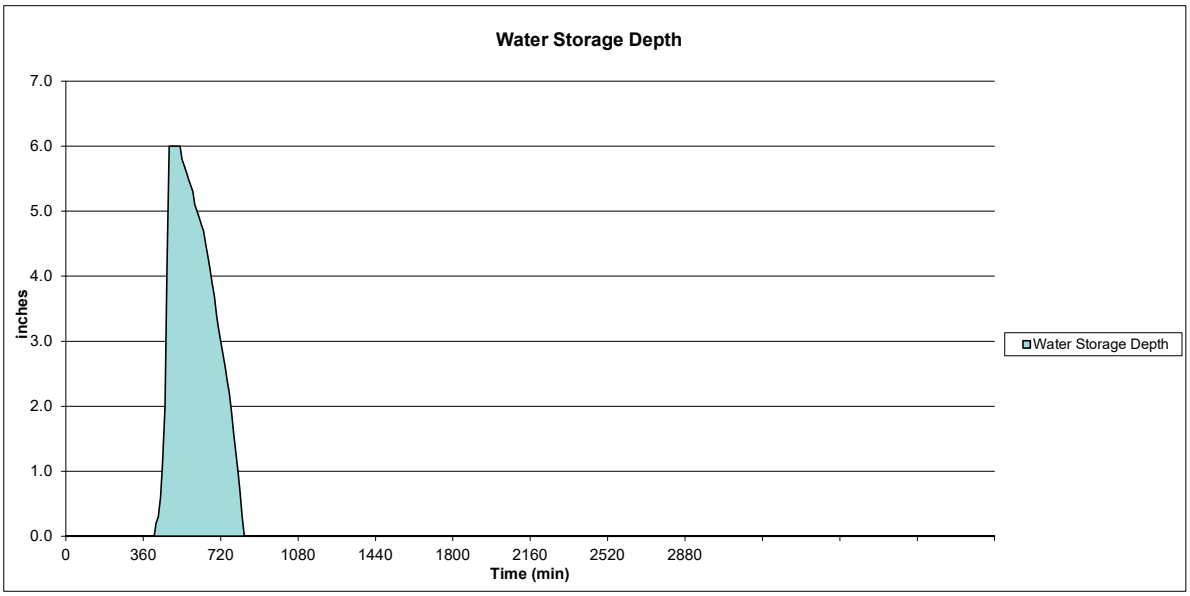




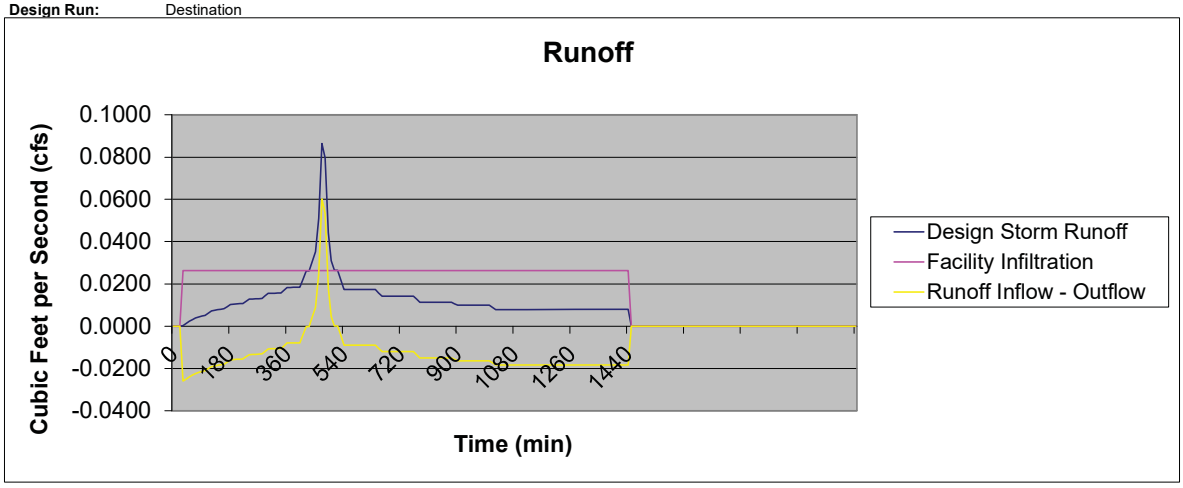
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1N
Design Run: Flow Control

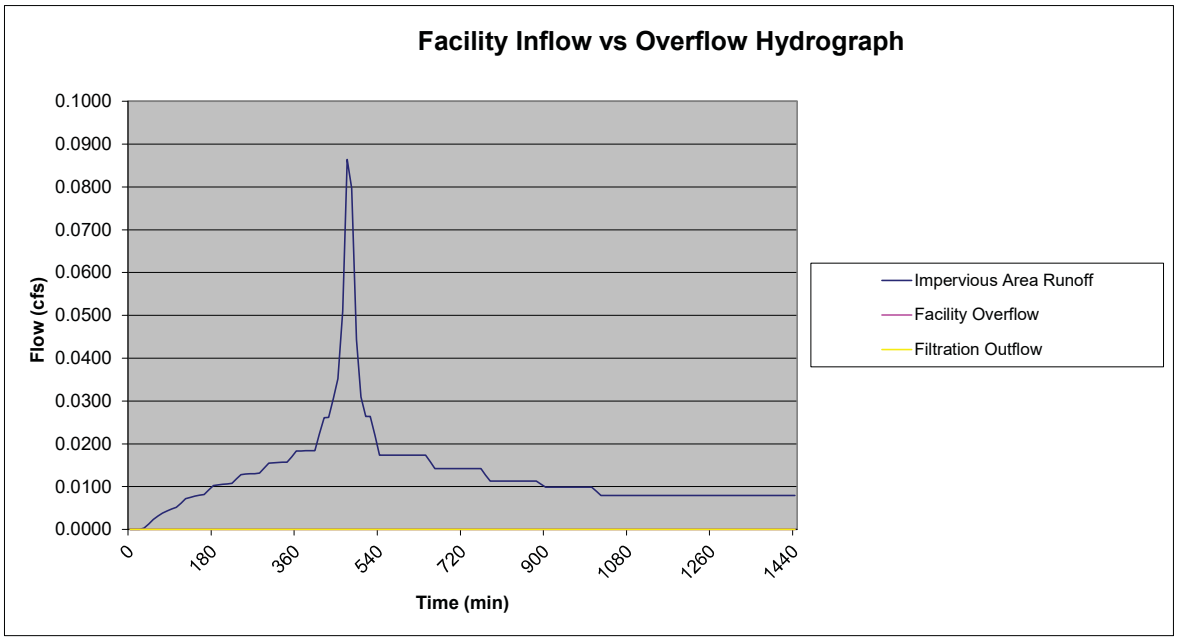


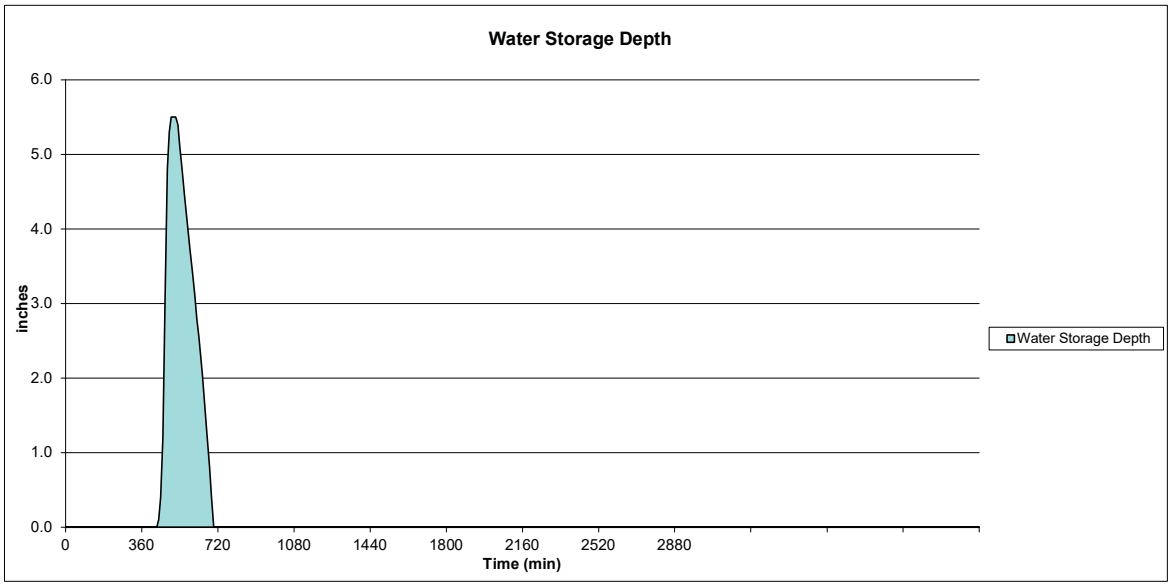




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1N
Design Run: Destination







Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet
24 Hour Storm, NRCS Type 1A Rainfall Distribution
City of Eugene

Version 2.1

Project Information

Project Name:	Three Mile Prairie	**Date:**	12/30/2020
Project Address:	18-12-15-00-00200	**Permit Number:**	NA
	Florence, OR	**Catchment ID:**	1O
Designer:	Clint Beecroft		
Company:	EGR & Associates		

Instructions:

1. Complete this form for each drainage catchment in the project site that is to be sized per the Presumptive Approach.
2. Provide a distinctive Catchment ID for each facility coordinated with the site basin map to correlate the appropriate calculations with the facility.
3. The maximum drainage catchment to be modeled per the Presumptive Approach is 1 acre (43,560 SF)
4. For infiltration facilities in Class A or B soils where no infiltration testing has been perfromed use an infiltration rate of 0.5 in/hr. For all facilities use a maximum soil infiltration rate of 2.5 in/hr for topsoil/growing medium.

Design Requirements:

Choose "Yes" from the dropdown boxes below next to the design standards requirements for this facility.

Pollution Reduction (PR)	Yes
Flow Control (FC)	Yes
Destination (DT)	Yes

*An infiltration facility must be chosen as the facility type to meet destination requirements

Site Data-Post Development

Total Square Footage Impervious Area=	549	sqft	**Total Square Footage Pervious Area=**	0	sqft
Impervious Area CN=	98		**Pervious Area CN=**	85	
Total Square Footage of Drainage Area=	549	sft	**Time of Concentration Post Development=**	5	min
Weighted Average CN=	98				

Site Data-Pre Development (Data in this section is only used if Flow Control is required)

Pre-Development CN=	98		**Time of Concentration Pre-Development=**	5	min

Soil Data

Tested Soil Infiltration Rate=	10	in/hr (See Note 4)	**Destination Design=**	5	in/hr
Design Soil Infiltration Rate=	4	in/hr	**Soil Infiltration Rate**		

Design Storms Used For Calculations

Requirement	Rainfall Depth		Design Storm
Pollution Reduction	0.8	inches	Water Quality
Flow Control	5.1	inches	Flood Control
Destination	5.1	inches	Flood Control

Facility Data

Facility Type=	Infiltration Stormwater Planter		**Facility Surface Area=**	69.3	sqft
Surface Width=	7.7	ft	**Facility Surface Perimeter=**	33.4	ft
Surface Length=	9	ft	**Facility Bottom Area=**	28	sqft
Facility Side Slopes=	3	to 1	**Facility Bottom Perimeter=**	21	ft
Max. Ponding Depth in Stormwater Facility=	6	in	**Basin Volume=**	26.6	cf
Depth of Growing Medium (Soil)=	18	in	**Ratio of Facility Area to Impervious Area=**	0.126	

Pollution Reduction-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.002	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	29	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	0.0	in			
Drawdown Time=	0.2	hours			

Yes **Facility Sizing Meets Pollution Reduction Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

Flow Control-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.017	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	220	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	5.7	in	Peak Off-Site Flow Rate Filtration Facility Underdrain=	N\A	cfs
Drawdown Time=	0.2	hours			

Pre-Development Runoff Data

Peak Flow Rate =	0.017	cfs
Total Runoff Volume =	221	cf

Yes **Facility Sizing Meets Flow Control Standards?**

YES **Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

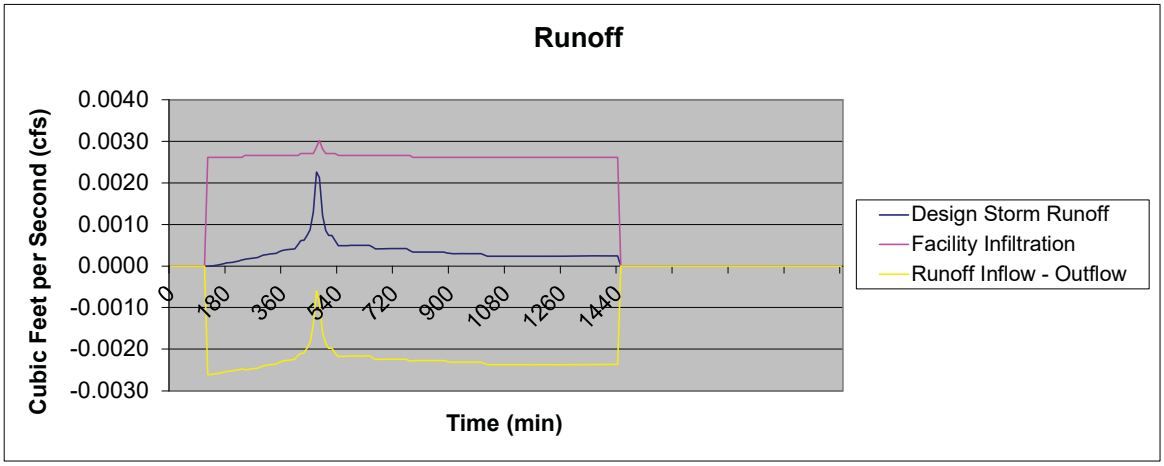
Destination-Calculation Results

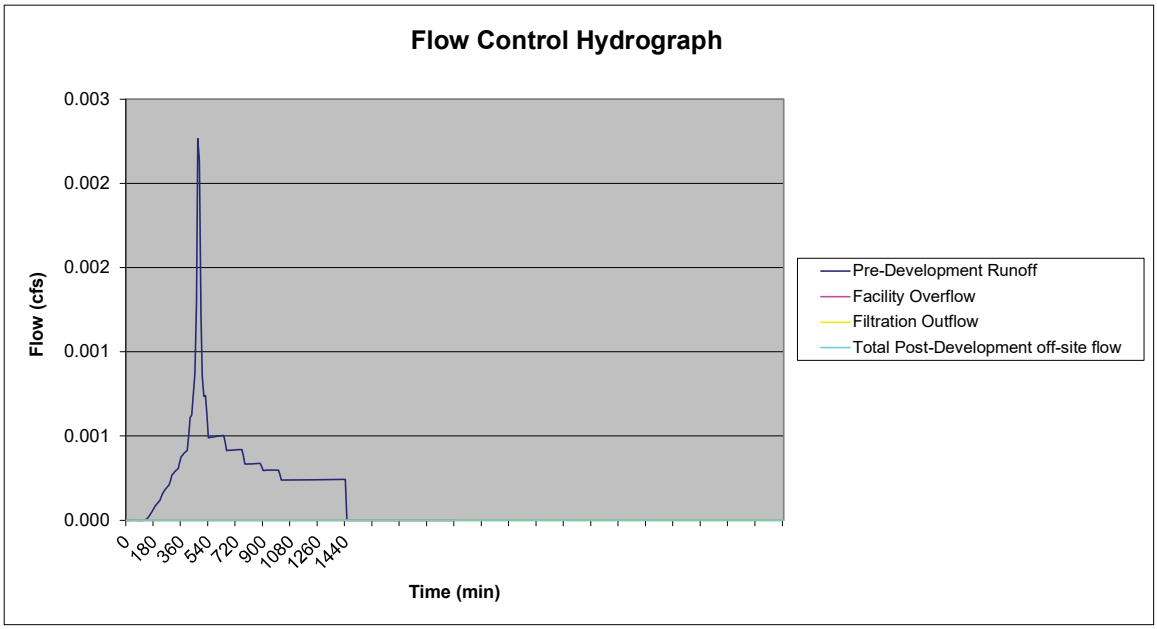
Peak Flow Rate to Stormwater Facility =	0.017	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	220	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	4.9	in			
Drawdown Time=	0.2	hours			

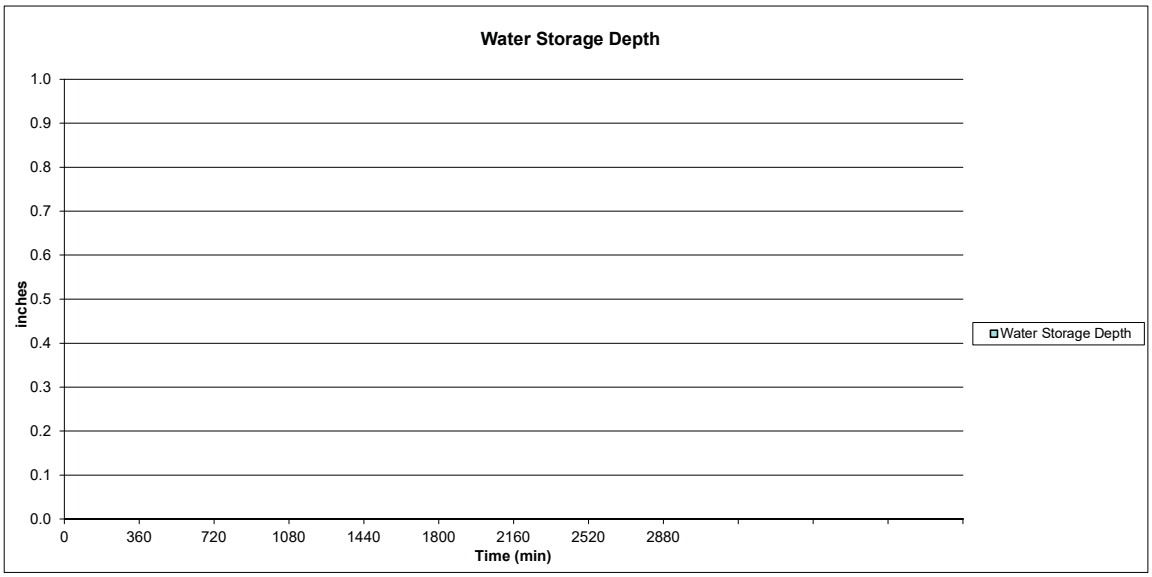
Yes **Facility Sizing Meets Destination Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 30 hour Drawdown Time?**

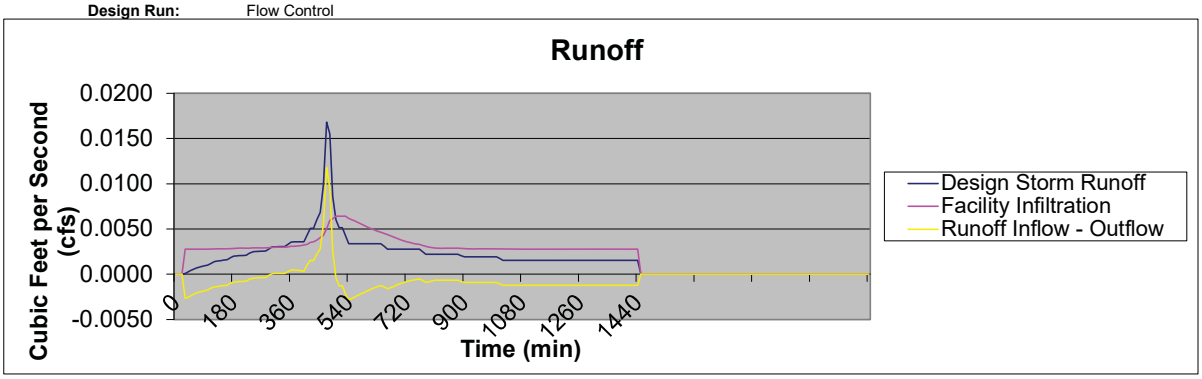
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1O
Design Run: Pollution Reduction

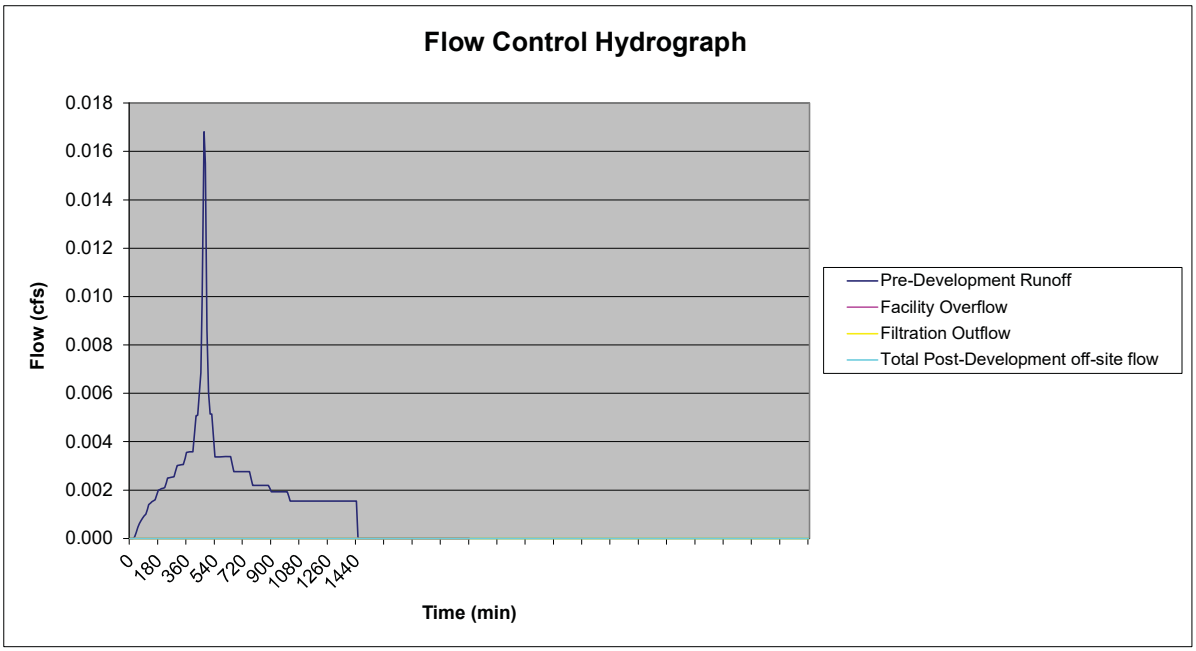


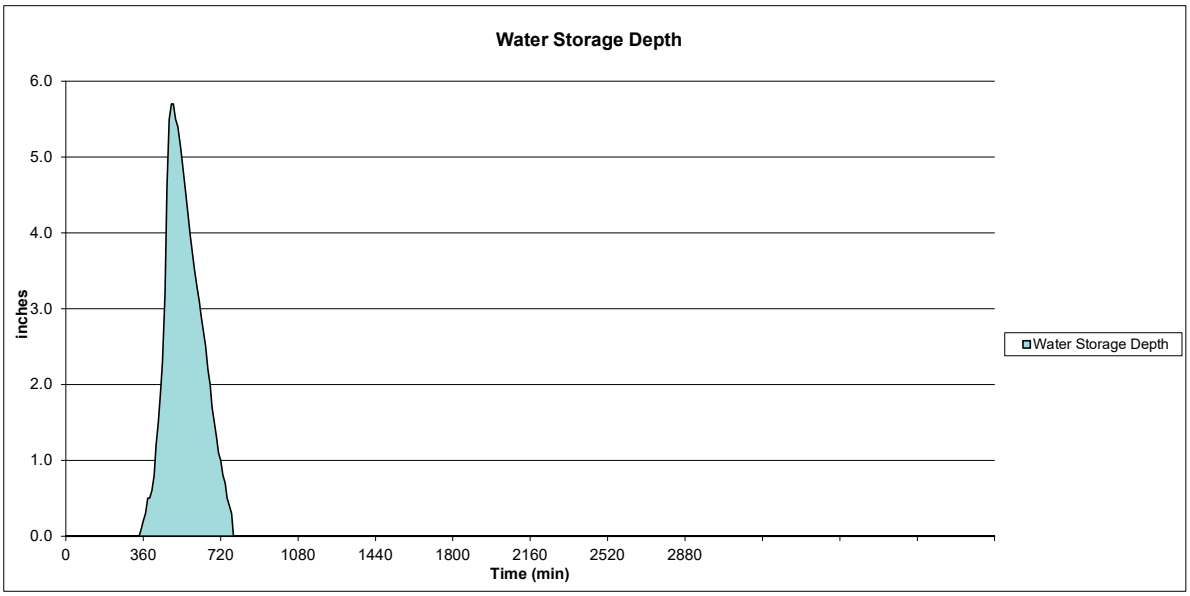




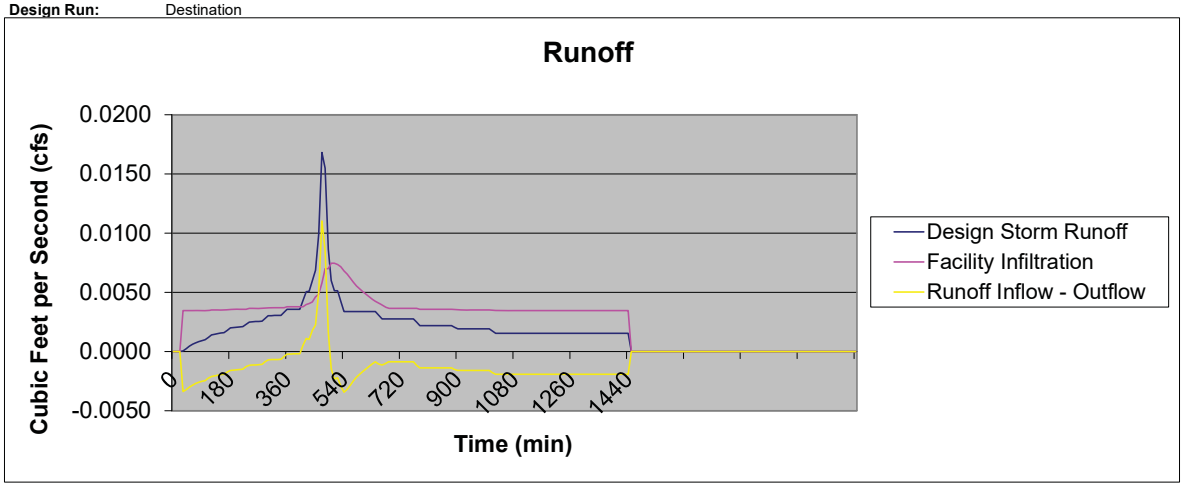
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1O
Design Run: Flow Control

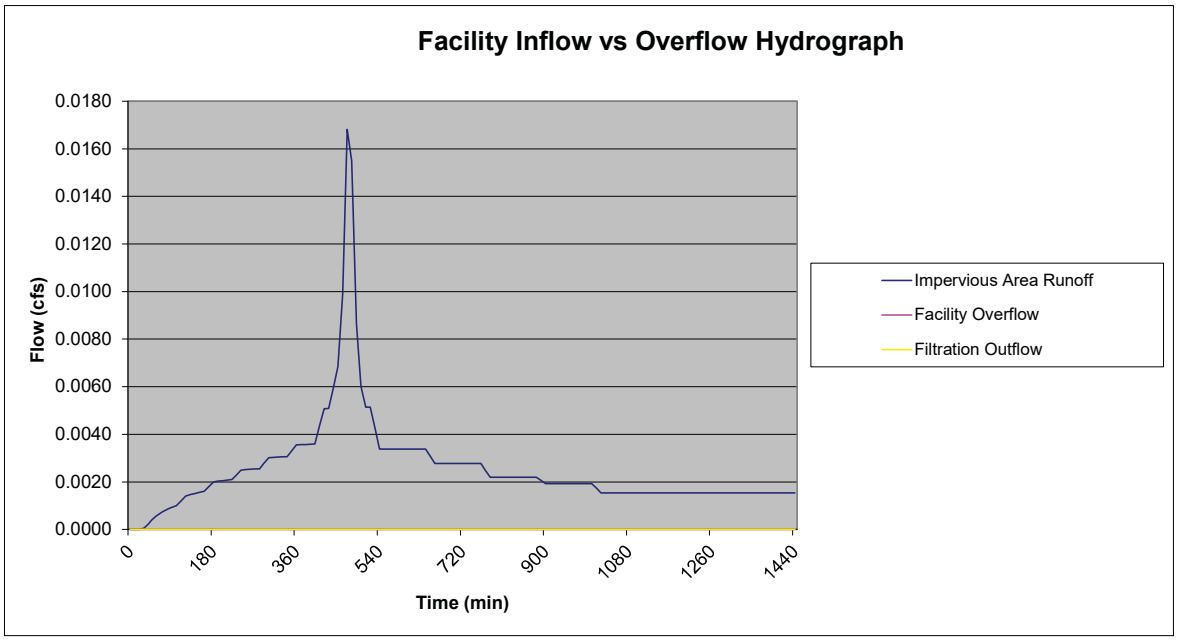


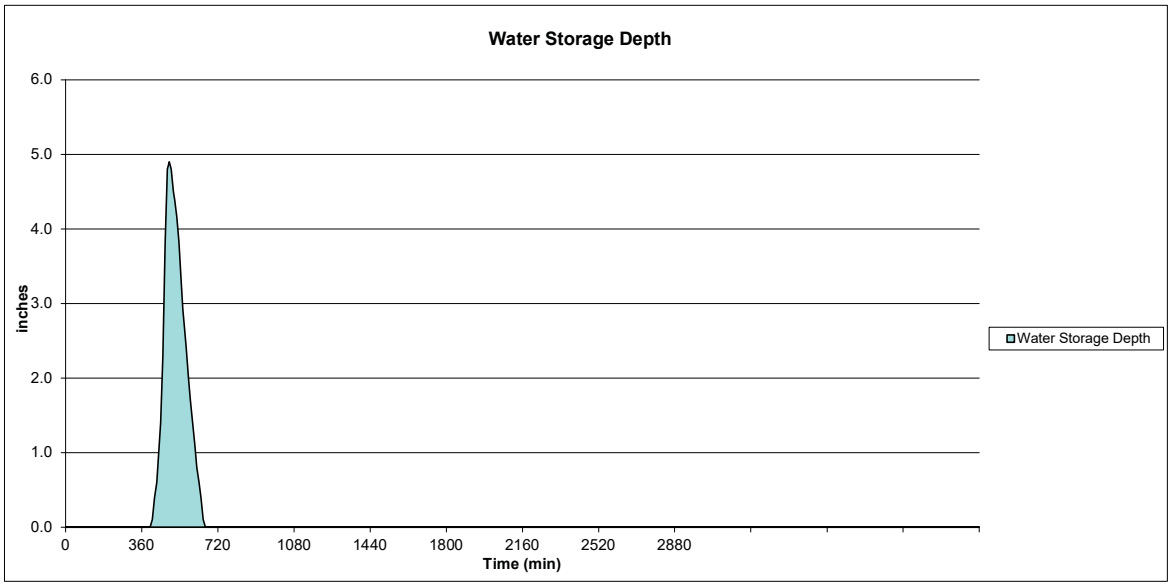




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 1O
Design Run: Destination







Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet
24 Hour Storm, NRCS Type 1A Rainfall Distribution
City of Eugene

Version 2.1

Project Information

Project Name:	Three Mile Prairie	**Date:**	12/30/2020
Project Address:	18-12-15-00-00200	**Permit Number:**	NA
	Florence, OR	**Catchment ID:**	2A
Designer:	Clint Beecroft		
Company:	EGR & Associates		

Instructions:

1. Complete this form for each drainage catchment in the project site that is to be sized per the Presumptive Approach.
2. Provide a distinctive Catchment ID for each facility coordinated with the site basin map to correlate the appropriate calculations with the facility.
3. The maximum drainage catchment to be modeled per the Presumptive Approach is 1 acre (43,560 SF)
4. For infiltration facilities in Class A or B soils where no infiltration testing has been perfromed use an infiltration rate of 0.5 in/hr. For all facilities use a maximum soil infiltration rate of 2.5 in/hr for topsoil/growing medium.

Design Requirements:

Choose "Yes" from the dropdown boxes below next to the design standards requirements for this facility.

Pollution Reduction (PR)	Yes
Flow Control (FC)	Yes
Destination (DT)	Yes

*An infiltration facility must be chosen as the facility type to meet destination requirements

Site Data-Post Development

Total Square Footage Impervious Area=	4201	sqft	**Total Square Footage Pervious Area=**	0	sqft
Impervious Area CN=	98		**Pervious Area CN=**	85	
Total Square Footage of Drainage Area=	4201	sft	**Time of Concentration Post Development=**	5	min
Weighted Average CN=	98				

Site Data-Pre Development (Data in this section is only used if Flow Control is required)

Pre-Development CN=	98		**Time of Concentration Pre-Development=**	5	min

Soil Data

Tested Soil Infiltration Rate=	10	in/hr (See Note 4)	**Destination Design=**	5	in/hr
Design Soil Infiltration Rate=	4	in/hr	**Soil Infiltration Rate**		

Design Storms Used For Calculations

Requirement	Rainfall Depth		Design Storm
Pollution Reduction	0.8	inches	Water Quality
Flow Control	5.1	inches	Flood Control
Destination	5.1	inches	Flood Control

Facility Data

Facility Type=	Infiltration Stormwater Planter		**Facility Surface Area=**	327.6	sqft
Surface Width=	4.2	ft	**Facility Surface Perimeter=**	164.4	ft
Surface Length=	78	ft	**Facility Bottom Area=**	328	sqft
Facility Side Slopes=	0	to 1	**Facility Bottom Perimeter=**	164	ft
Max. Ponding Depth in Stormwater Facility=	6	in	**Basin Volume=**	163.8	cf
Depth of Growing Medium (Soil)=	18	in	**Ratio of Facility Area to Impervious Area=**	0.078	

Pollution Reduction-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.017	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	219	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	0.0	in			
Drawdown Time=	0.2	hours			

Yes **Facility Sizing Meets Pollution Reduction Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

Flow Control-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.129	cfs	Peak Facility Overflow Rate=	0.036	cfs
Total Runoff Volume to Stormwater Facility =	1685	cf	Total Overflow Volume=	53	cf
Max. Depth of Stormwater in Facility=	6.0	in	Peak Off-Site Flow Rate Filtration Facility Underdrain=	N\A	cfs
Drawdown Time=	0.2	hours			

Pre-Development Runoff Data

Peak Flow Rate =	0.129	cfs
Total Runoff Volume =	1688	cf

Yes **Facility Sizing Meets Flow Control Standards?**

YES **Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

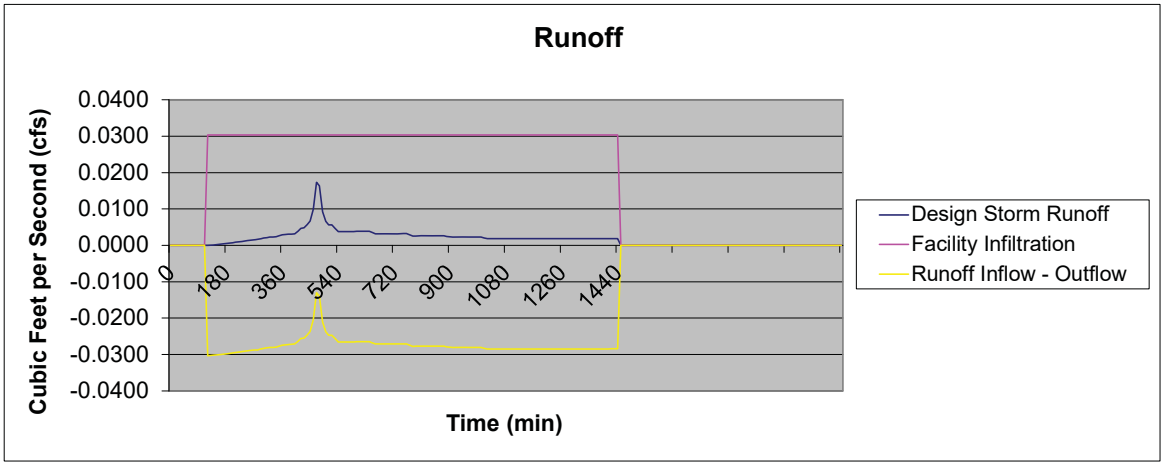
Destination-Calculation Results

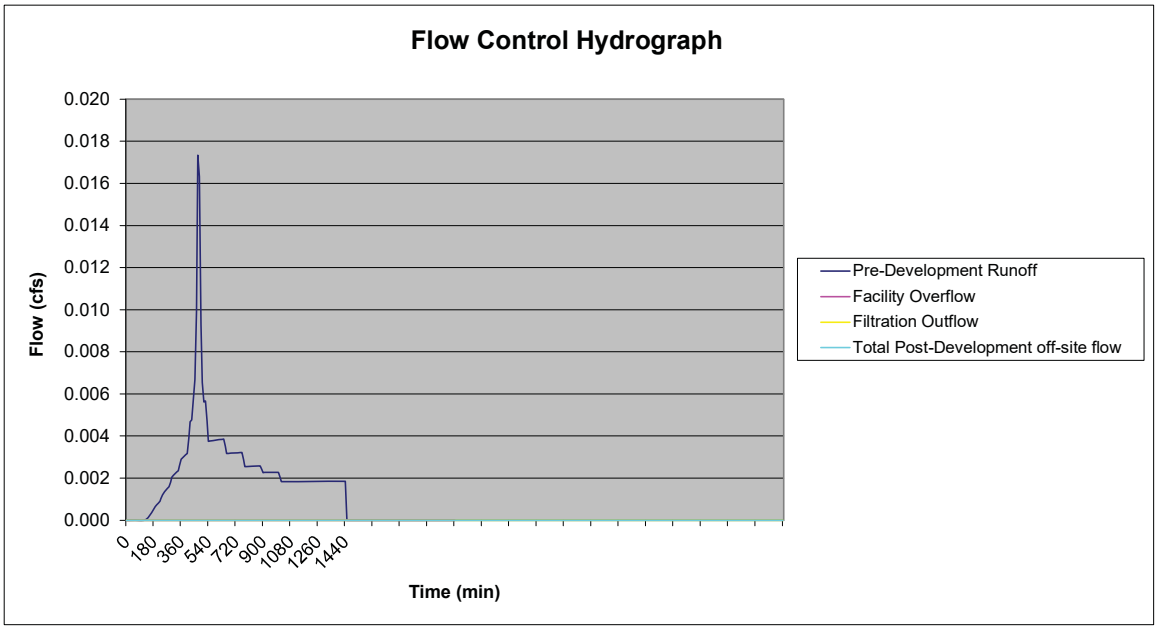
Peak Flow Rate to Stormwater Facility =	0.129	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	1685	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	5.9	in			
Drawdown Time=	0.2	hours			

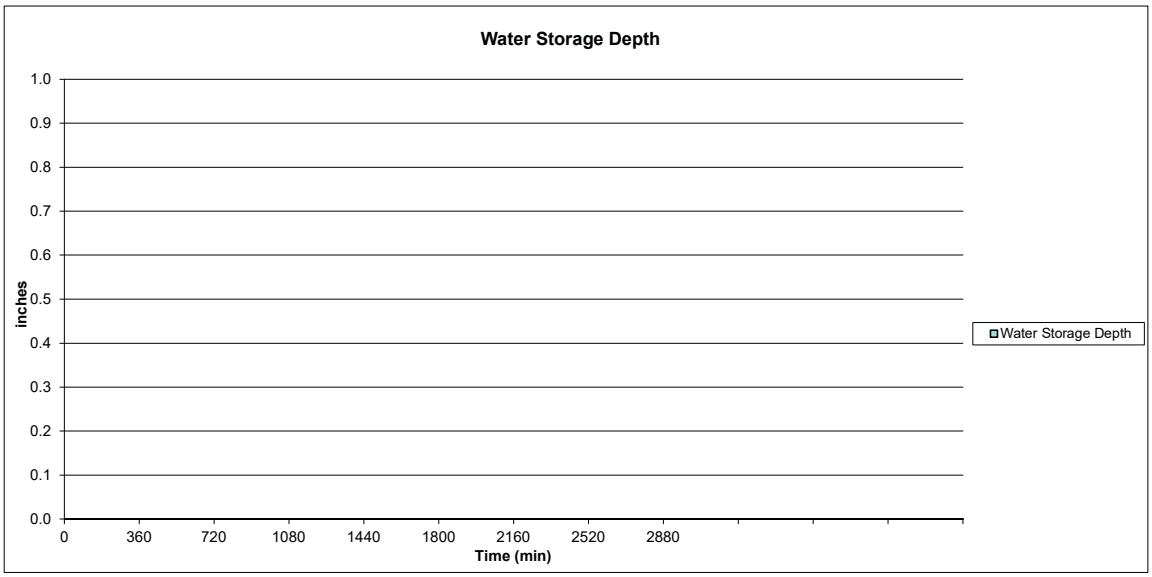
Yes **Facility Sizing Meets Destination Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 30 hour Drawdown Time?**

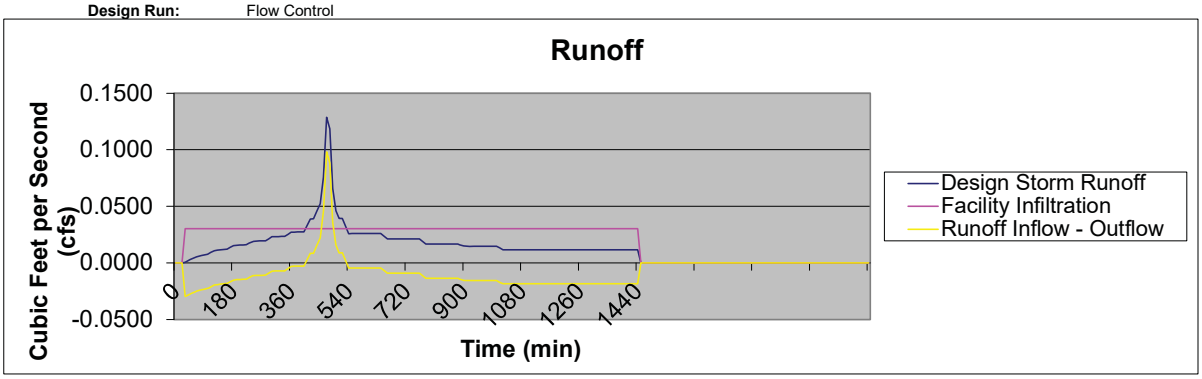
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 2A
Design Run: Pollution Reduction

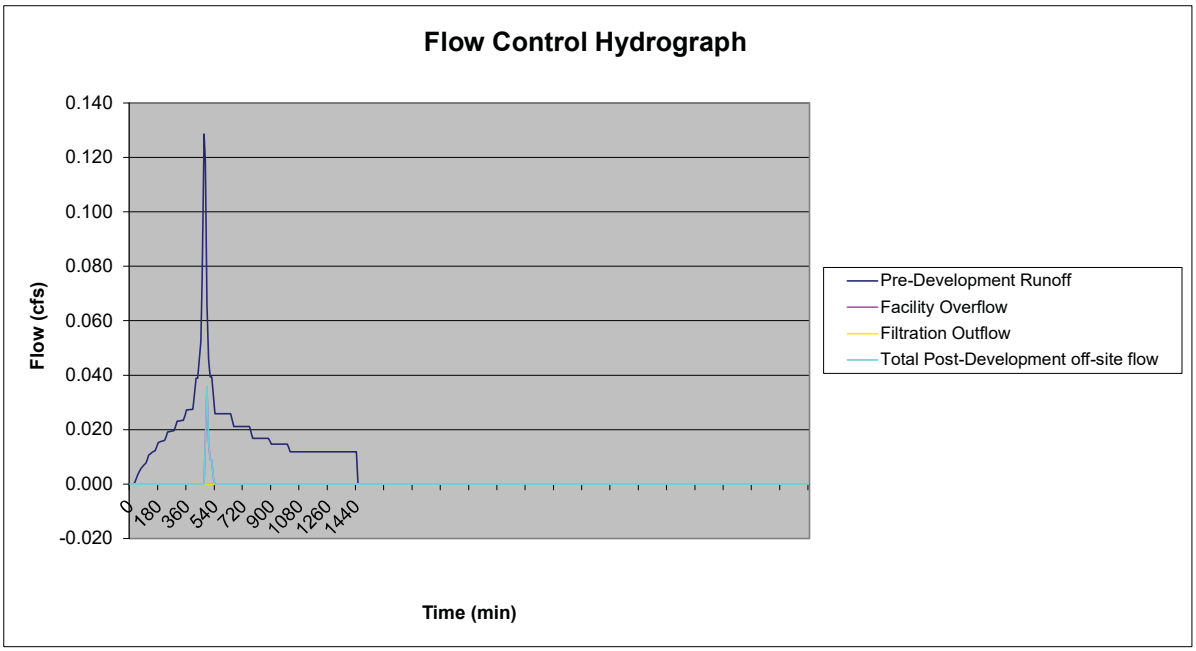


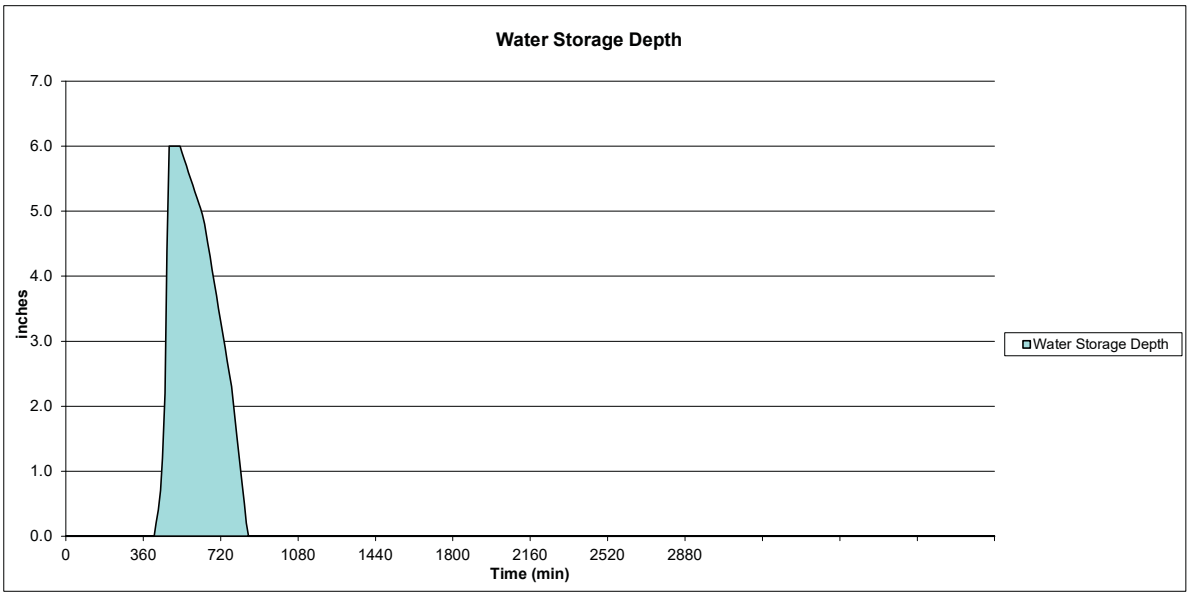




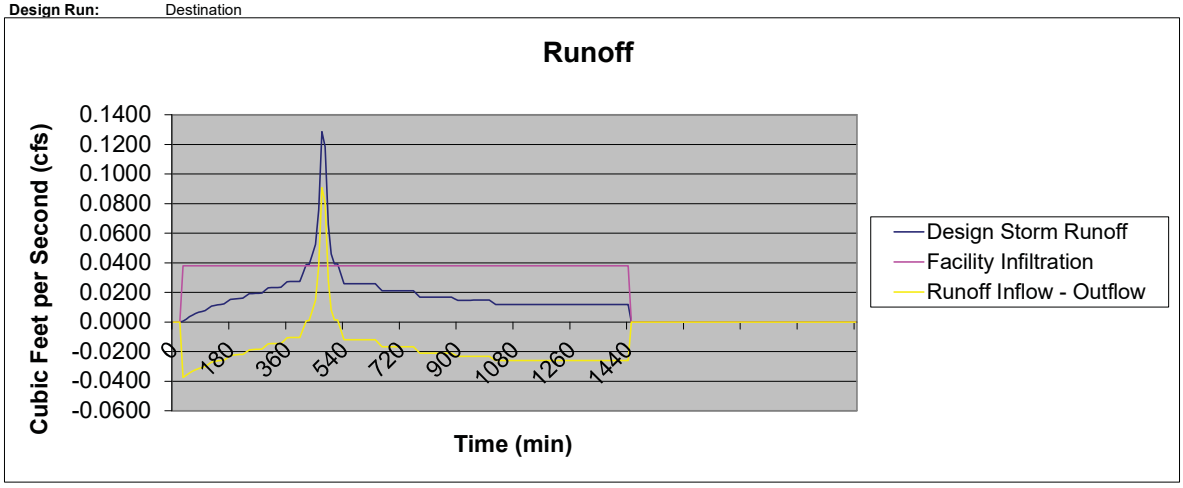
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 2A
Design Run: Flow Control

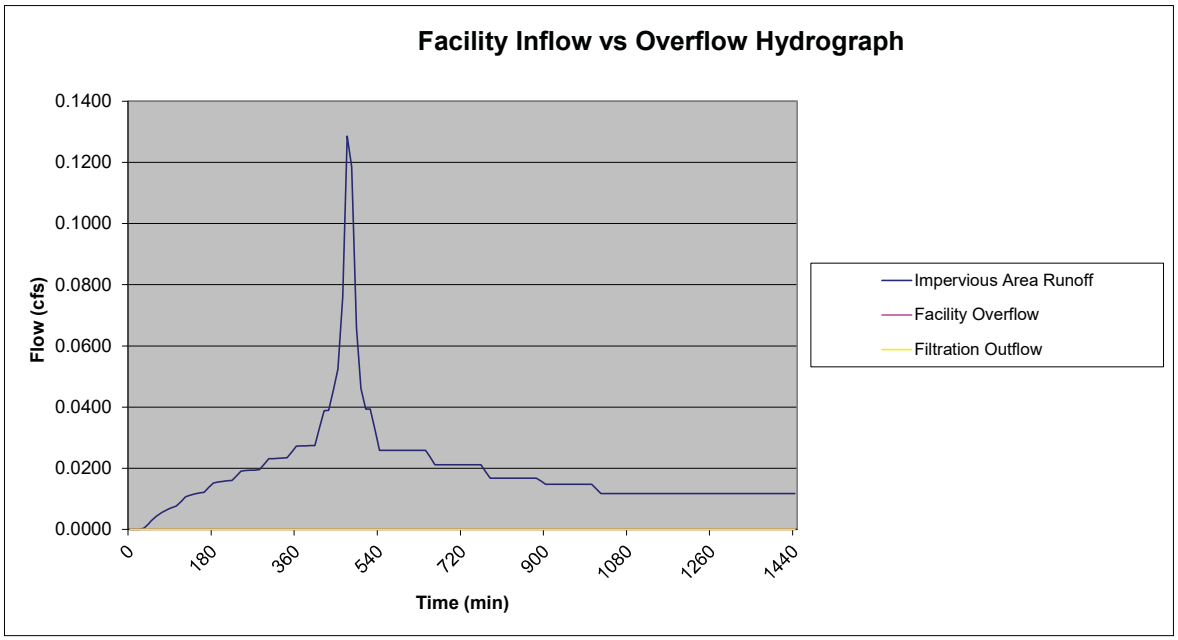


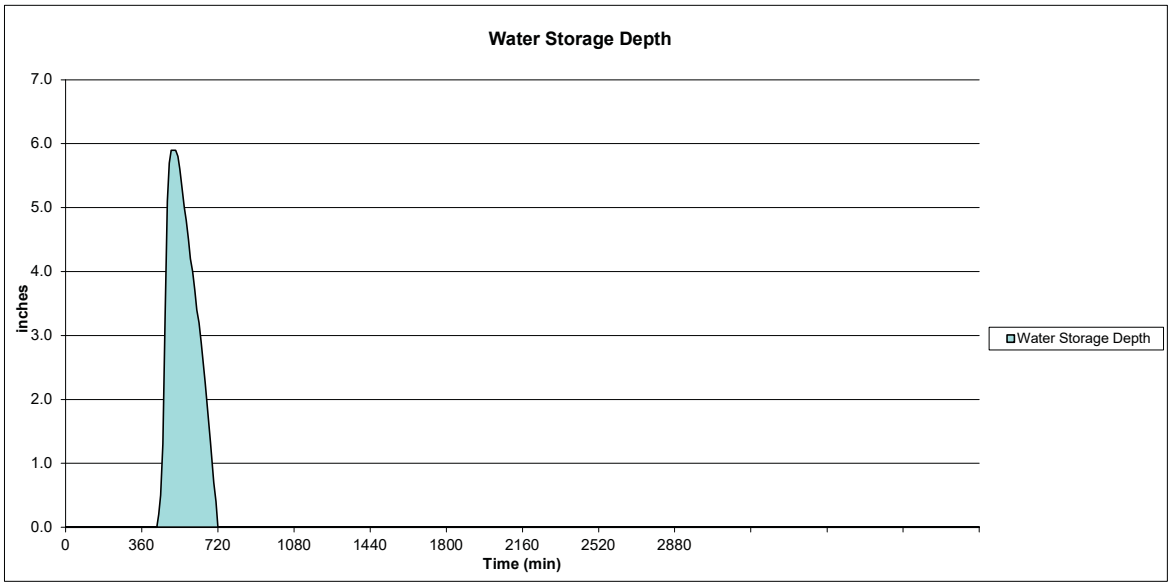




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 2A
Design Run: Destination







Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet
24 Hour Storm, NRCS Type 1A Rainfall Distribution
City of Eugene

Version 2.1

Project Information

Project Name:	Three Mile Prairie	**Date:**	12/30/2020
Project Address:	18-12-15-00-00200	**Permit Number:**	NA
	Florence, OR	**Catchment ID:**	2B
Designer:	Clint Beecroft		
Company:	EGR & Associates		

Instructions:

1. Complete this form for each drainage catchment in the project site that is to be sized per the Presumptive Approach.
2. Provide a distinctive Catchment ID for each facility coordinated with the site basin map to correlate the appropriate calculations with the facility.
3. The maximum drainage catchment to be modeled per the Presumptive Approach is 1 acre (43,560 SF)
4. For infiltration facilities in Class A or B soils where no infiltration testing has been perfromed use an infiltration rate of 0.5 in/hr. For all facilities use a maximum soil infiltration rate of 2.5 in/hr for topsoil/growing medium.

Design Requirements:

Choose "Yes" from the dropdown boxes below next to the design standards requirements for this facility.

Pollution Reduction (PR)	Yes
Flow Control (FC)	Yes
Destination (DT)	Yes

*An infiltration facility must be chosen as the facility type to meet destination requirements

Site Data-Post Development

Total Square Footage Impervious Area=	5354	sqft	**Total Square Footage Pervious Area=**	0	sqft
Impervious Area CN=	98		**Pervious Area CN=**	85	
Total Square Footage of Drainage Area=	5354	sft	**Time of Concentration Post Development=**	5	min
Weighted Average CN=	98				

Site Data-Pre Development (Data in this section is only used if Flow Control is required)

Pre-Development CN=	98		**Time of Concentration Pre-Development=**	5	min

Soil Data

Tested Soil Infiltration Rate=	10	in/hr (See Note 4)	**Destination Design=**	5	in/hr
Design Soil Infiltration Rate=	4	in/hr	**Soil Infiltration Rate**		

Design Storms Used For Calculations

Requirement	Rainfall Depth		Design Storm
Pollution Reduction	0.8	inches	Water Quality
Flow Control	5.1	inches	Flood Control
Destination	5.1	inches	Flood Control

Facility Data

Facility Type=	Infiltration Stormwater Planter		**Facility Surface Area=**	326.76	sqft
Surface Width=	4.2	ft	**Facility Surface Perimeter=**	164	ft
Surface Length=	77.8	ft	**Facility Bottom Area=**	327	sqft
Facility Side Slopes=	0	to 1	**Facility Bottom Perimeter=**	164	ft
Max. Ponding Depth in Stormwater Facility=	11	in	**Basin Volume=**	299.5	cf
Depth of Growing Medium (Soil)=	18	in	**Ratio of Facility Area to Impervious Area=**	0.061	

Pollution Reduction-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.022	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	279	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	0.0	in			
Drawdown Time=	0.2	hours			

Yes **Facility Sizing Meets Pollution Reduction Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

Flow Control-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.164	cfs	Peak Facility Overflow Rate=	0.028	cfs
Total Runoff Volume to Stormwater Facility =	2147	cf	Total Overflow Volume=	75	cf
Max. Depth of Stormwater in Facility=	11.0	in	Peak Off-Site Flow Rate Filtration Facility Underdrain=	N\A	cfs
Drawdown Time=	0.2	hours			

Pre-Development Runoff Data

Peak Flow Rate =	0.164	cfs
Total Runoff Volume =	2152	cf

Yes **Facility Sizing Meets Flow Control Standards?**

YES **Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

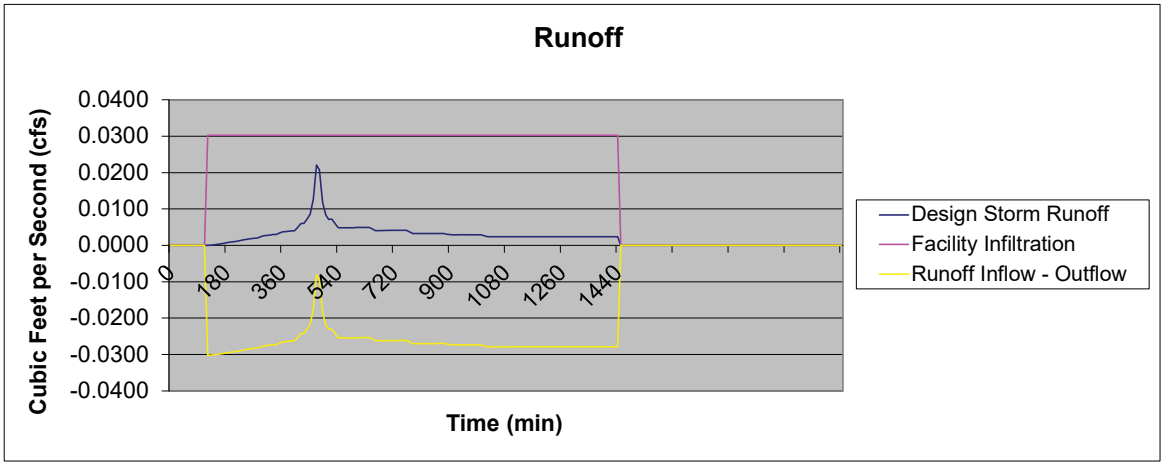
Destination-Calculation Results

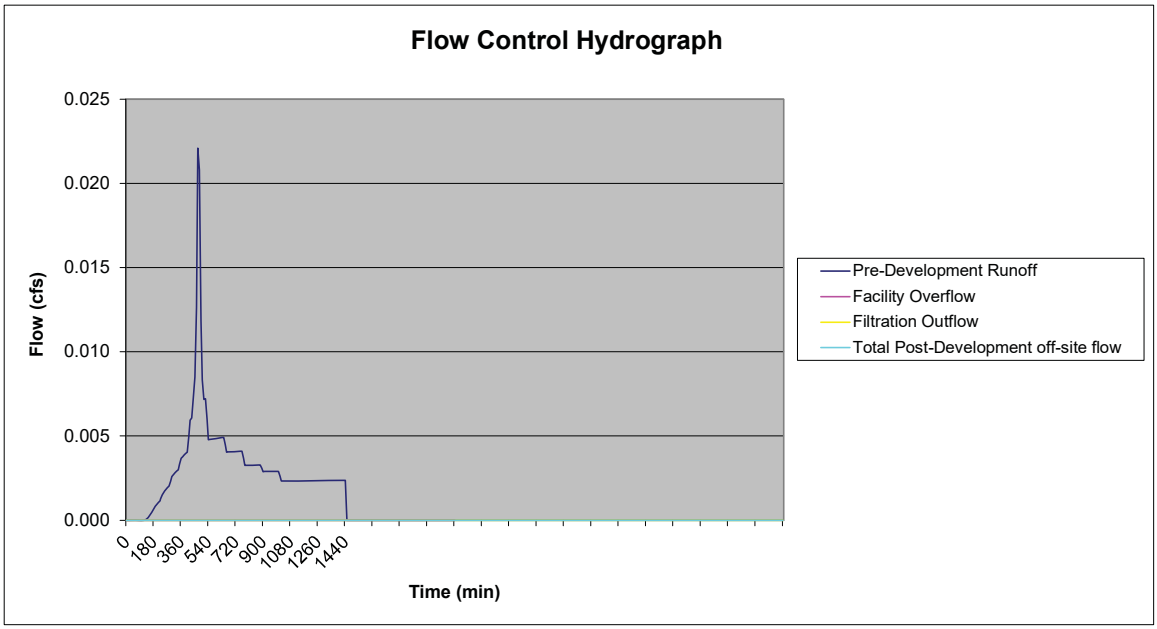
Peak Flow Rate to Stormwater Facility =	0.164	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	2147	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	10.3	in			
Drawdown Time=	0.2	hours			

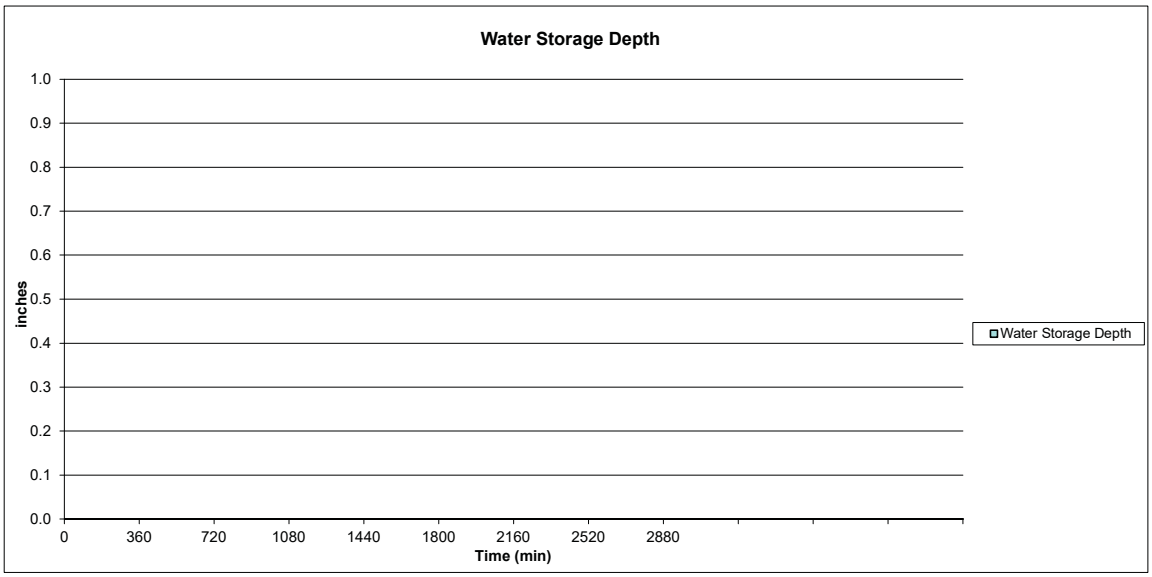
Yes **Facility Sizing Meets Destination Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 30 hour Drawdown Time?**

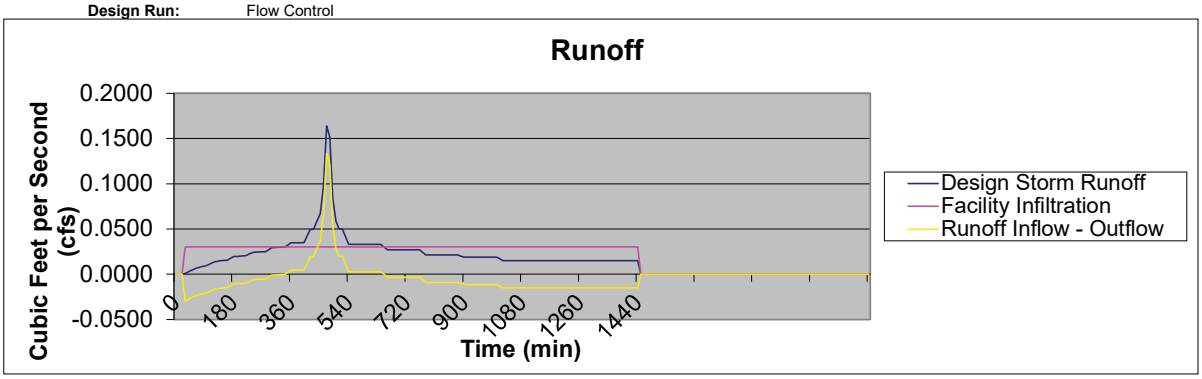
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 2B
Design Run: Pollution Reduction

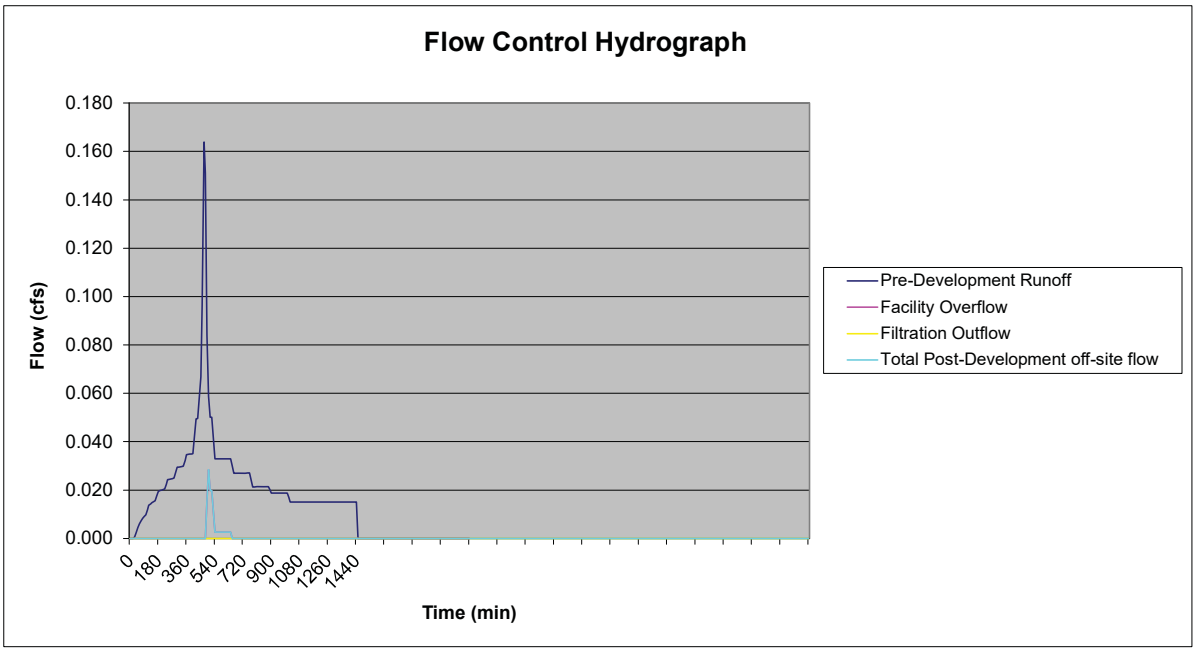


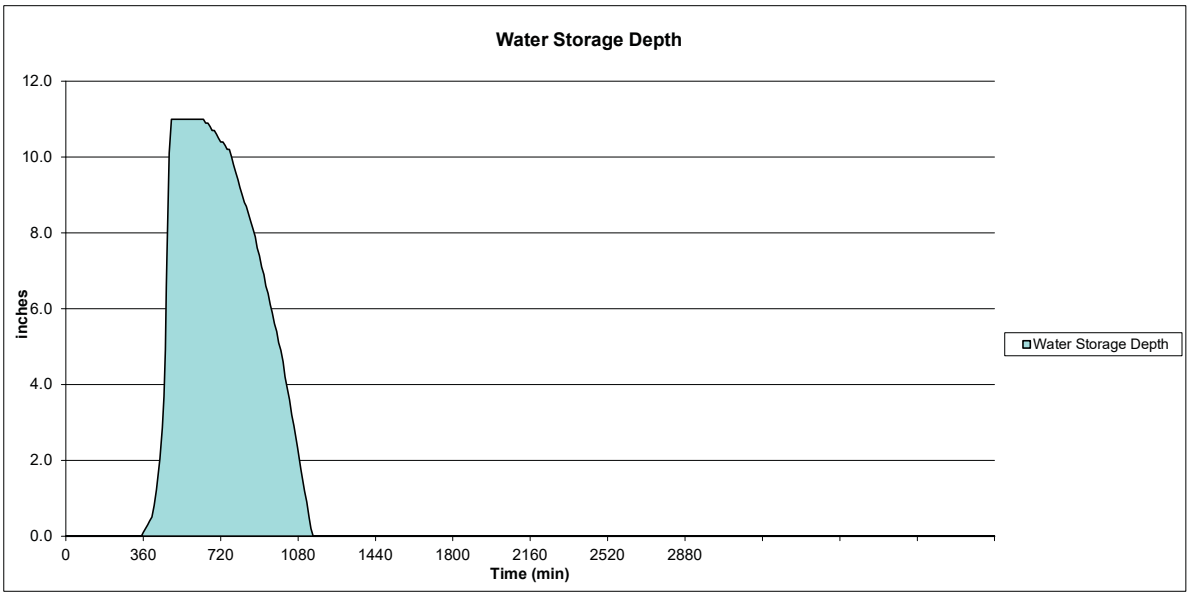




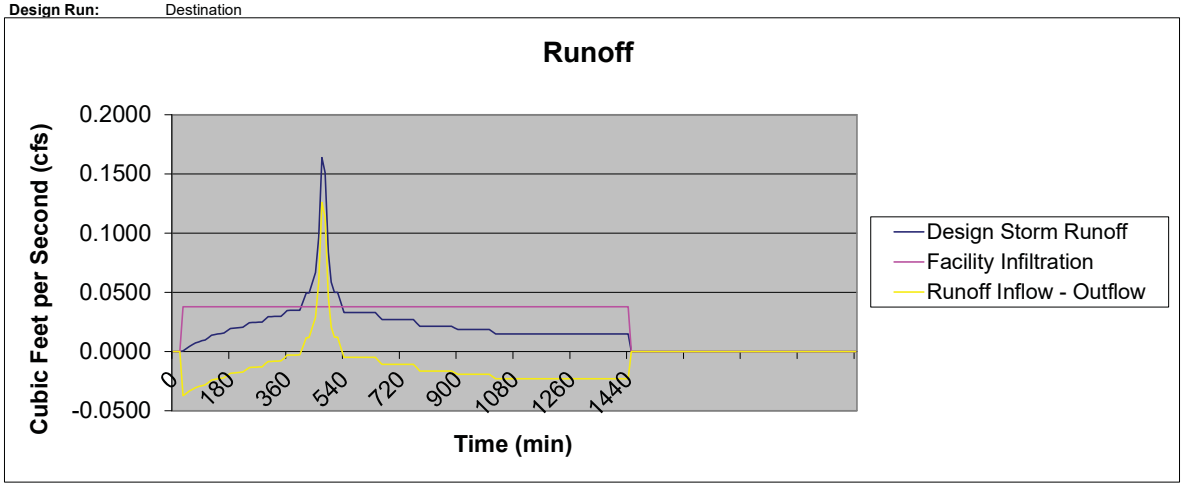
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 2B
Design Run: Flow Control

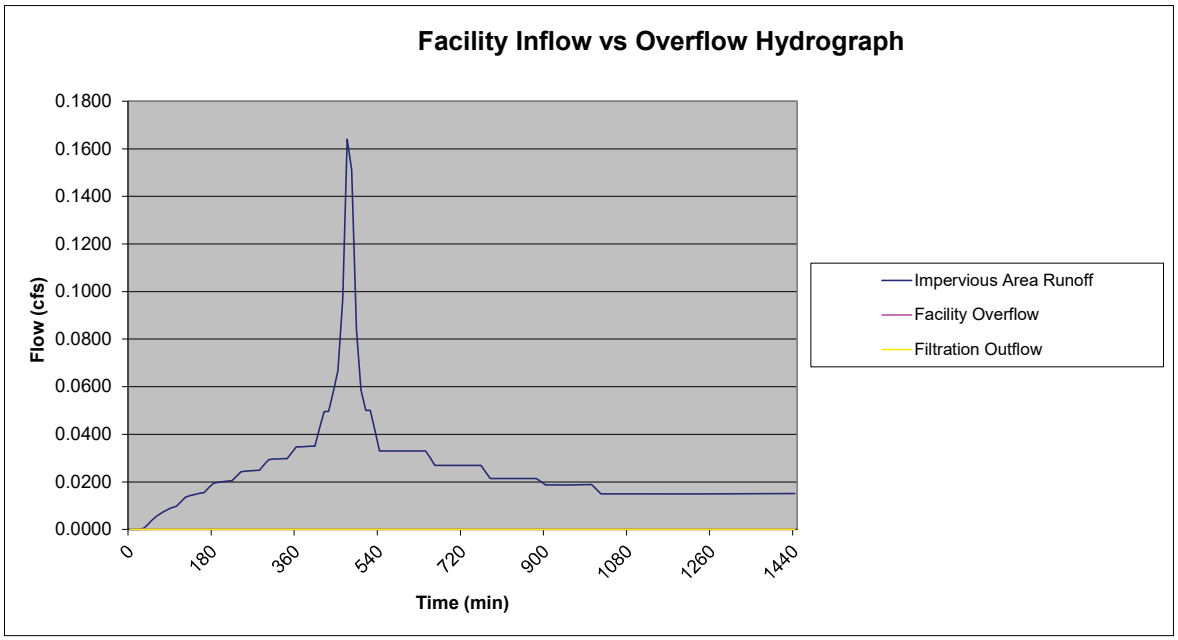


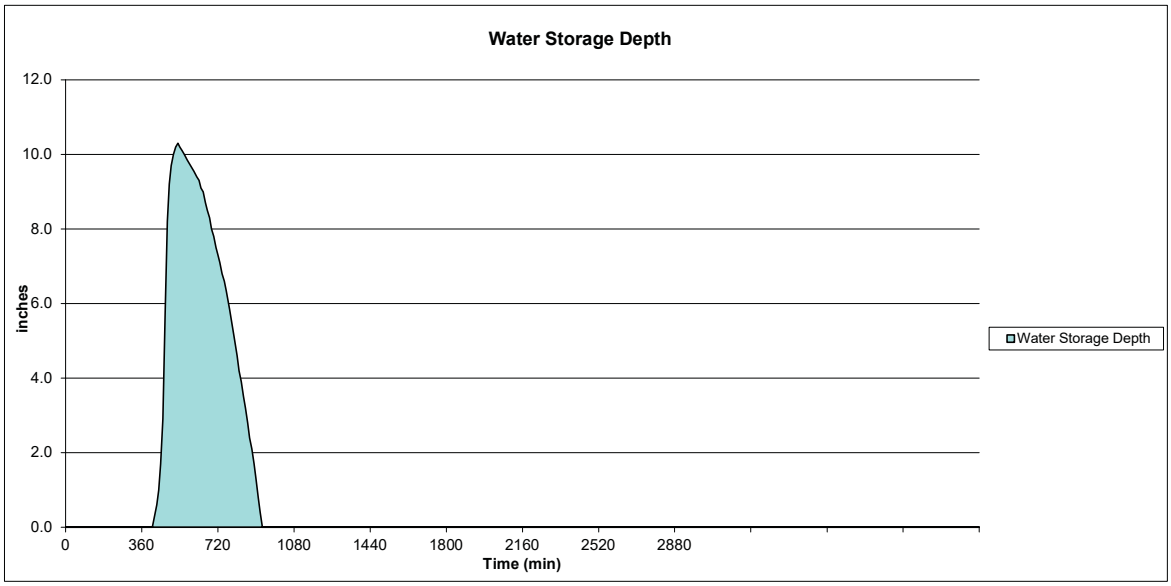




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 2B
Design Run: Destination







Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet
24 Hour Storm, NRCS Type 1A Rainfall Distribution
City of Eugene

Version 2.1

Project Information

Project Name:	Three Mile Prairie	**Date:**	12/30/2020
Project Address:	18-12-15-00-00200	**Permit Number:**	NA
	Florence, OR	**Catchment ID:**	2C
Designer:	Clint Beecroft		
Company:	EGR & Associates		

Instructions:

1. Complete this form for each drainage catchment in the project site that is to be sized per the Presumptive Approach.
2. Provide a distinctive Catchment ID for each facility coordinated with the site basin map to correlate the appropriate calculations with the facility.
3. The maximum drainage catchment to be modeled per the Presumptive Approach is 1 acre (43,560 SF)
4. For infiltration facilities in Class A or B soils where no infiltration testing has been perfromed use an infiltration rate of 0.5 in/hr. For all facilities use a maximum soil infiltration rate of 2.5 in/hr for topsoil/growing medium.

Design Requirements:

Choose "Yes" from the dropdown boxes below next to the design standards requirements for this facility.

Pollution Reduction (PR)	Yes
Flow Control (FC)	Yes
Destination (DT)	Yes

*An infiltration facility must be chosen as the facility type to meet destination requirements

Site Data-Post Development

Total Square Footage Impervious Area=	6875	sqft	**Total Square Footage Pervious Area=**	0	sqft
Impervious Area CN=	98		**Pervious Area CN=**	85	
Total Square Footage of Drainage Area=	6875	sft	**Time of Concentration Post Development=**	5	min
Weighted Average CN=	98				

Site Data-Pre Development (Data in this section is only used if Flow Control is required)

Pre-Development CN=	98		**Time of Concentration Pre-Development=**	5	min

Soil Data

Tested Soil Infiltration Rate=	10	in/hr (See Note 4)	**Destination Design=**	5	in/hr
Design Soil Infiltration Rate=	4	in/hr	**Soil Infiltration Rate**		

Design Storms Used For Calculations

Requirement	Rainfall Depth		Design Storm
Pollution Reduction	0.8	inches	Water Quality
Flow Control	5.1	inches	Flood Control
Destination	5.1	inches	Flood Control

Facility Data

Facility Type=	Infiltration Stormwater Planter		**Facility Surface Area=**	537.6	sqft
Surface Width=	4.2	ft	**Facility Surface Perimeter=**	264.4	ft
Surface Length=	128	ft	**Facility Bottom Area=**	538	sqft
Facility Side Slopes=	0	to 1	**Facility Bottom Perimeter=**	264	ft
Max. Ponding Depth in Stormwater Facility=	6	in	**Basin Volume=**	268.8	cf
Depth of Growing Medium (Soil)=	18	in	**Ratio of Facility Area to Impervious Area=**	0.078	

Pollution Reduction-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.028	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	358	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	0.0	in			
Drawdown Time=	0.2	hours			

Yes **Facility Sizing Meets Pollution Reduction Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

Flow Control-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.210	cfs	Peak Facility Overflow Rate=	0.058	cfs
Total Runoff Volume to Stormwater Facility =	2757	cf	Total Overflow Volume=	84	cf
Max. Depth of Stormwater in Facility=	6.0	in	Peak Off-Site Flow Rate Filtration Facility Underdrain=	N\A	cfs
Drawdown Time=	0.2	hours			

Pre-Development Runoff Data

Peak Flow Rate =	0.210	cfs
Total Runoff Volume =	2763	cf

Yes **Facility Sizing Meets Flow Control Standards?**

YES **Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

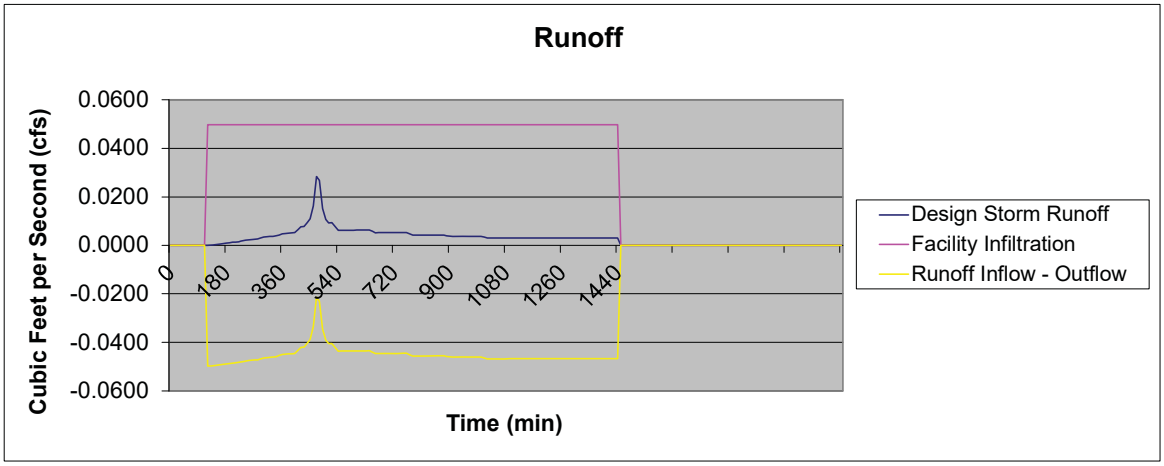
Destination-Calculation Results

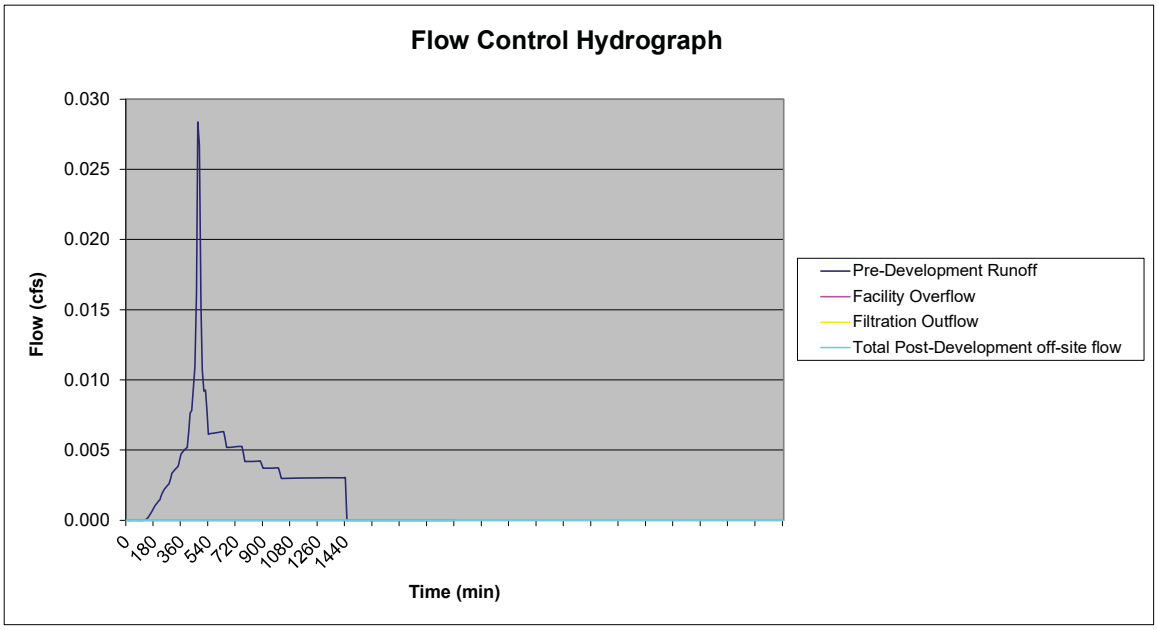
Peak Flow Rate to Stormwater Facility =	0.210	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	2757	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	5.9	in			
Drawdown Time=	0.2	hours			

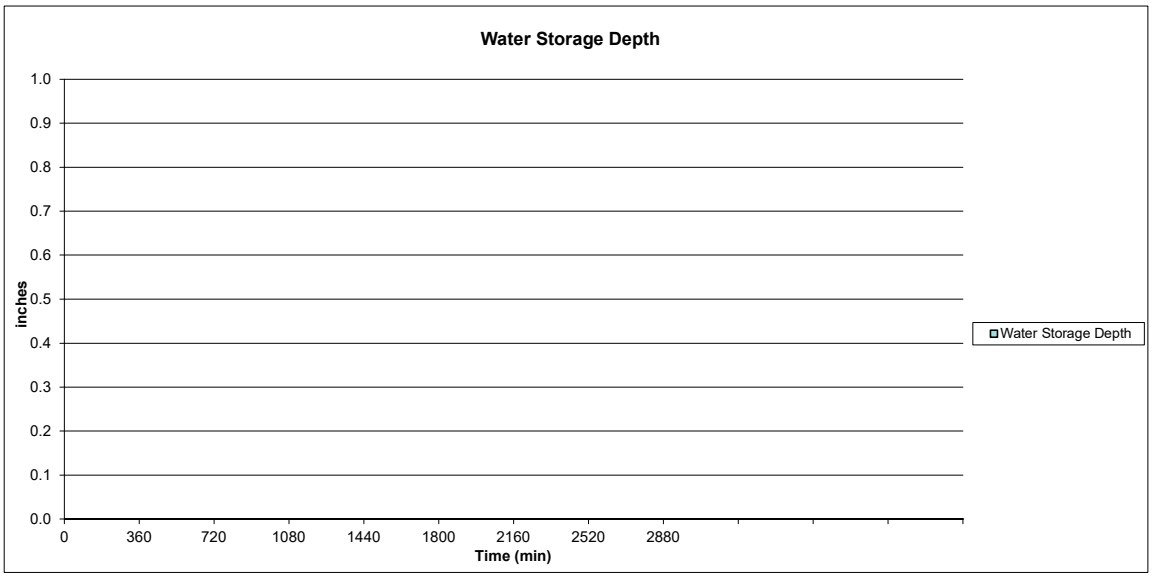
Yes **Facility Sizing Meets Destination Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 30 hour Drawdown Time?**

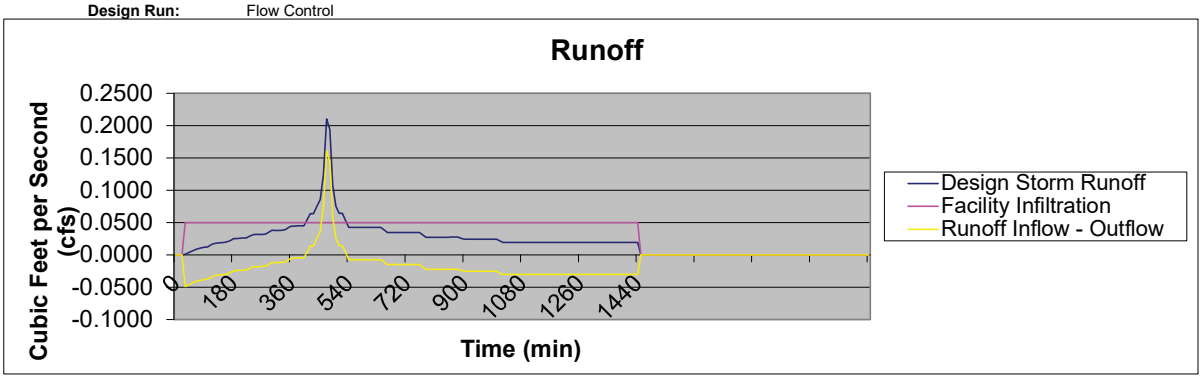
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 2C
Design Run: Pollution Reduction

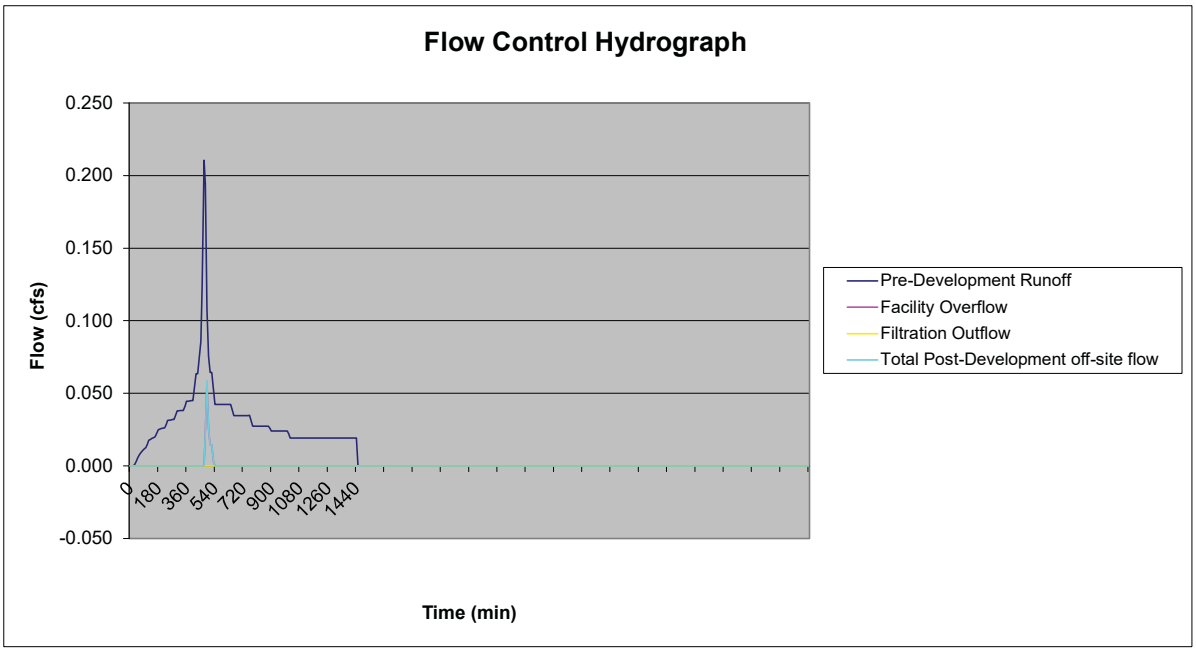


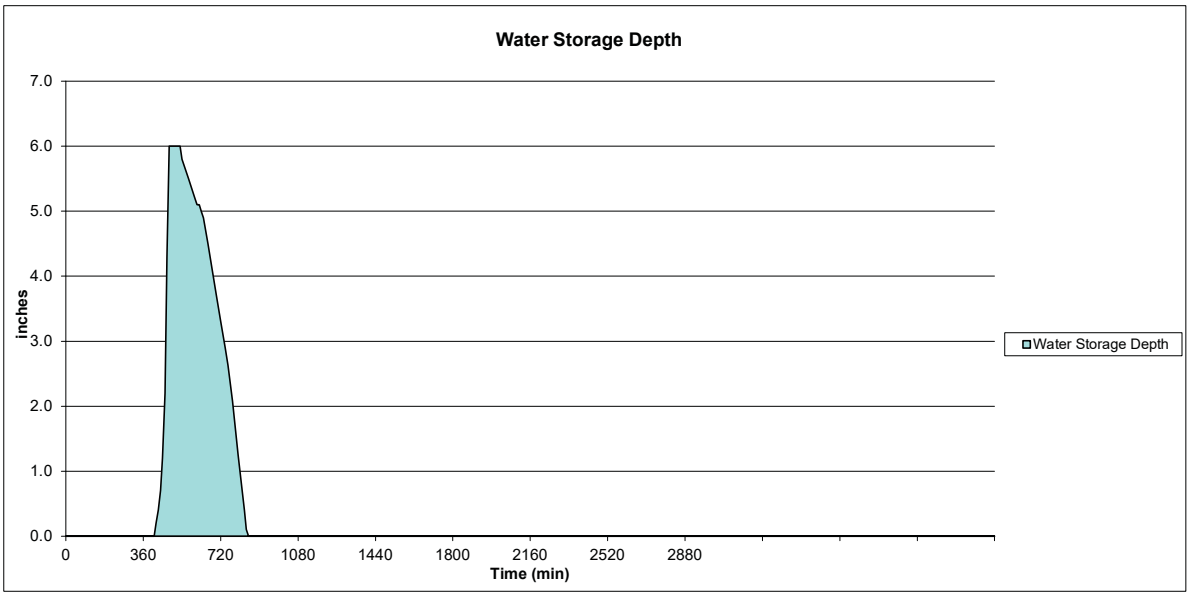




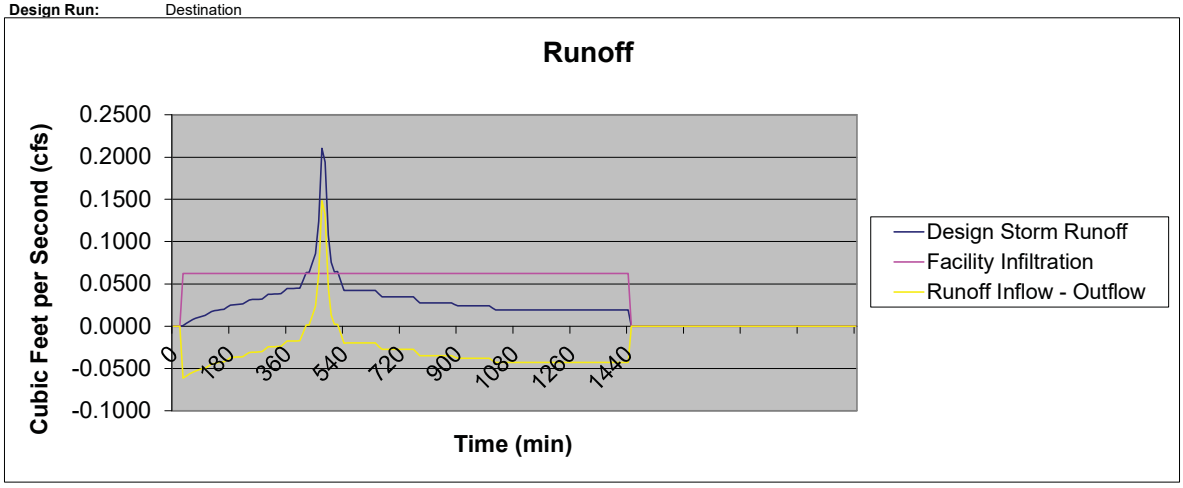
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 2C
Design Run: Flow Control

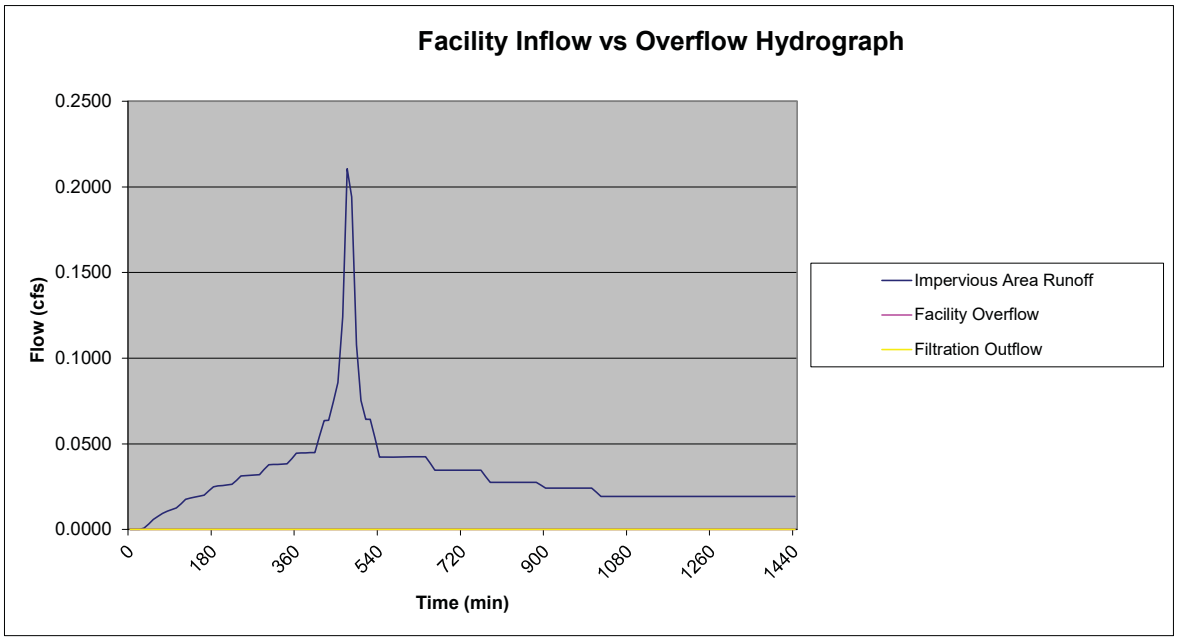


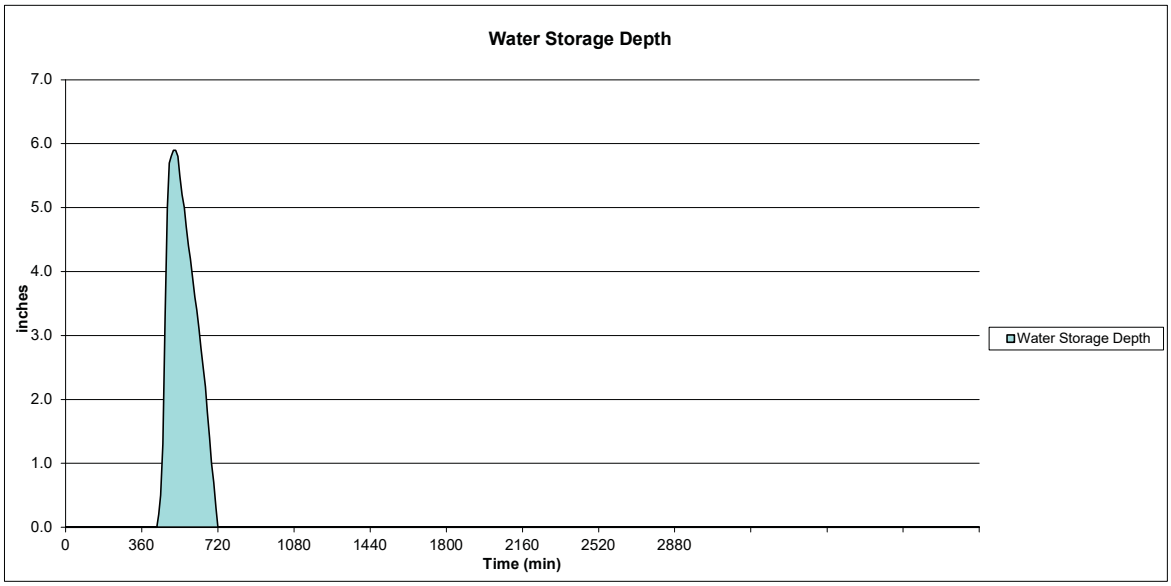




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 2C
Design Run: Destination







Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet
24 Hour Storm, NRCS Type 1A Rainfall Distribution
City of Eugene

Version 2.1

Project Information

Project Name:	Three Mile Prairie	**Date:**	12/30/2020
Project Address:	18-12-15-00-00200	**Permit Number:**	NA
	Florence, OR	**Catchment ID:**	2D
Designer:	Clint Beecroft		
Company:	EGR & Associates		

Instructions:

1. Complete this form for each drainage catchment in the project site that is to be sized per the Presumptive Approach.
2. Provide a distinctive Catchment ID for each facility coordinated with the site basin map to correlate the appropriate calculations with the facility.
3. The maximum drainage catchment to be modeled per the Presumptive Approach is 1 acre (43,560 SF)
4. For infiltration facilities in Class A or B soils where no infiltration testing has been perfromed use an infiltration rate of 0.5 in/hr. For all facilities use a maximum soil infiltration rate of 2.5 in/hr for topsoil/growing medium.

Design Requirements:

Choose "Yes" from the dropdown boxes below next to the design standards requirements for this facility.

Pollution Reduction (PR)	Yes
Flow Control (FC)	Yes
Destination (DT)	Yes

*An infiltration facility must be chosen as the facility type to meet destination requirements

Site Data-Post Development

Total Square Footage Impervious Area=	8037	sqft	**Total Square Footage Pervious Area=**	0	sqft
Impervious Area CN=	98		**Pervious Area CN=**	85	
Total Square Footage of Drainage Area=	8037	sft	**Time of Concentration Post Development=**	5	min
Weighted Average CN=	98				

Site Data-Pre Development (Data in this section is only used if Flow Control is required)

Pre-Development CN=	98		**Time of Concentration Pre-Development=**	5	min

Soil Data

Tested Soil Infiltration Rate=	10	in/hr (See Note 4)	**Destination Design=**	5	in/hr
Design Soil Infiltration Rate=	4	in/hr	**Soil Infiltration Rate**		

Design Storms Used For Calculations

Requirement	Rainfall Depth		Design Storm
Pollution Reduction	0.8	inches	Water Quality
Flow Control	5.1	inches	Flood Control
Destination	5.1	inches	Flood Control

Facility Data

Facility Type=	Infiltration Stormwater Planter		**Facility Surface Area=**	630	sqft
Surface Width=	4.2	ft	**Facility Surface Perimeter=**	308.4	ft
Surface Length=	150	ft	**Facility Bottom Area=**	630	sqft
Facility Side Slopes=	0	to 1	**Facility Bottom Perimeter=**	308	ft
Max. Ponding Depth in Stormwater Facility=	6	in	**Basin Volume=**	315.0	cf
Depth of Growing Medium (Soil)=	18	in	**Ratio of Facility Area to Impervious Area=**	0.078	

Pollution Reduction-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.033	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	419	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	0.0	in			
Drawdown Time=	0.2	hours			

Yes **Facility Sizing Meets Pollution Reduction Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

Flow Control-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.246	cfs	Peak Facility Overflow Rate=	0.068	cfs
Total Runoff Volume to Stormwater Facility =	3223	cf	Total Overflow Volume=	97	cf
Max. Depth of Stormwater in Facility=	6.0	in	Peak Off-Site Flow Rate Filtration Facility Underdrain=	N\A	cfs
Drawdown Time=	0.2	hours			

Pre-Development Runoff Data

Peak Flow Rate =	0.246	cfs
Total Runoff Volume =	3230	cf

Yes **Facility Sizing Meets Flow Control Standards?**

YES **Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

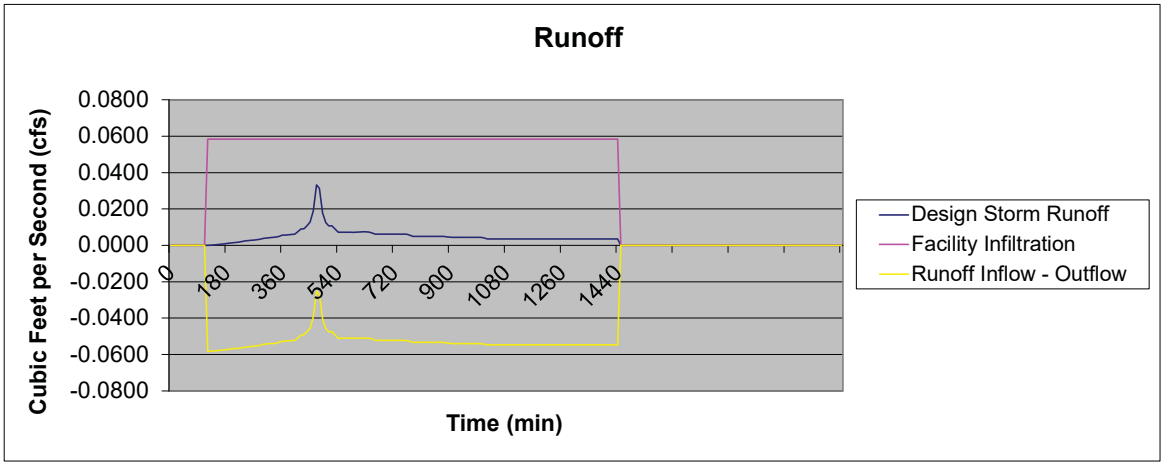
Destination-Calculation Results

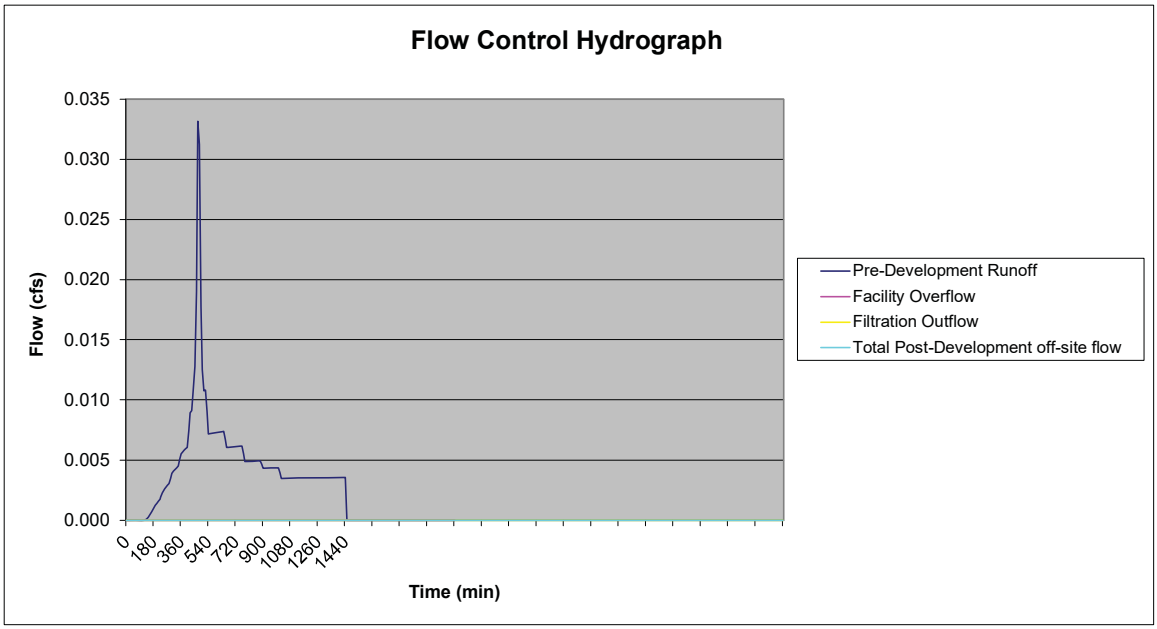
Peak Flow Rate to Stormwater Facility =	0.246	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	3223	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	5.9	in			
Drawdown Time=	0.2	hours			

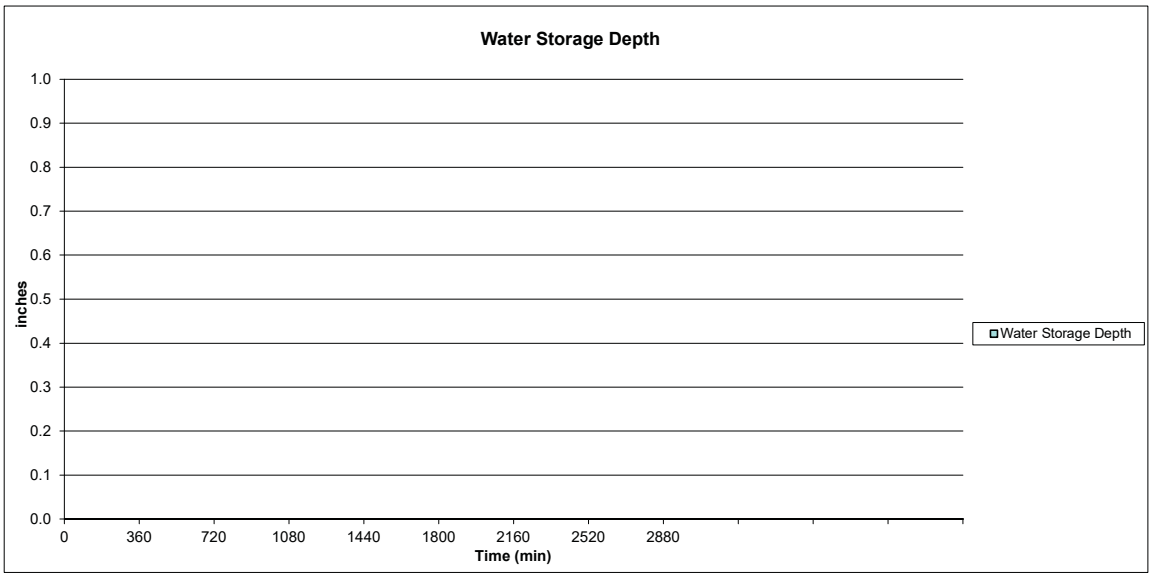
Yes **Facility Sizing Meets Destination Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 30 hour Drawdown Time?**

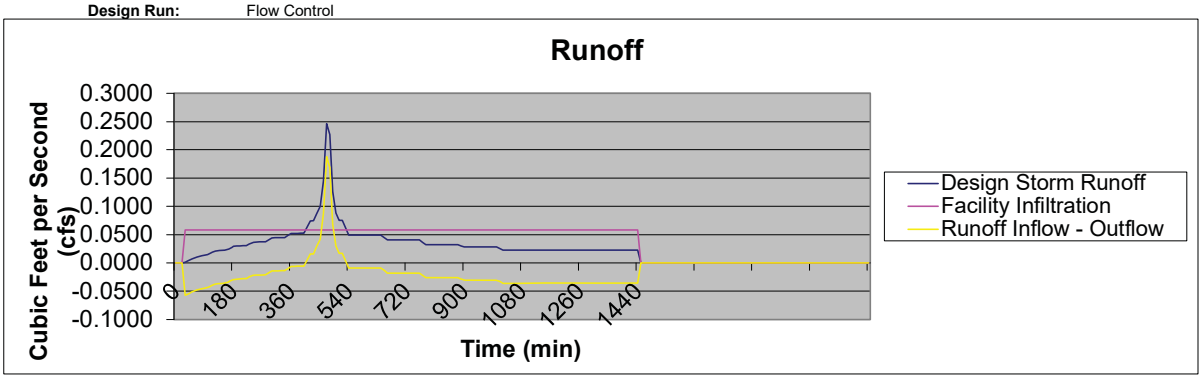
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 2D
Design Run: Pollution Reduction

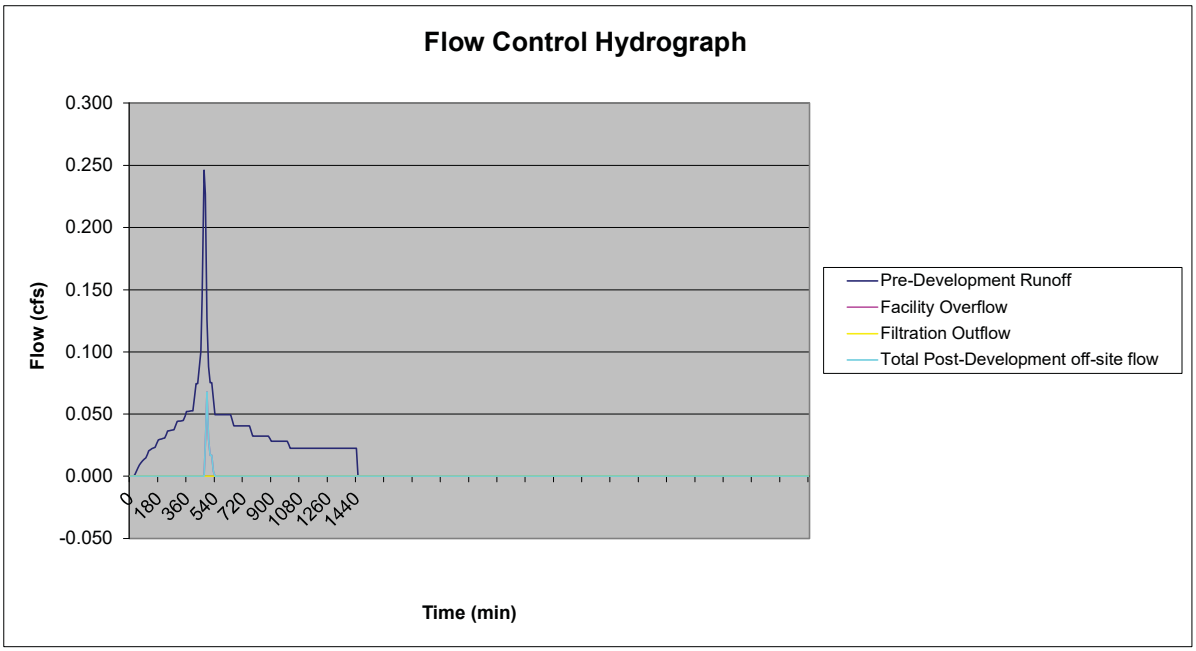


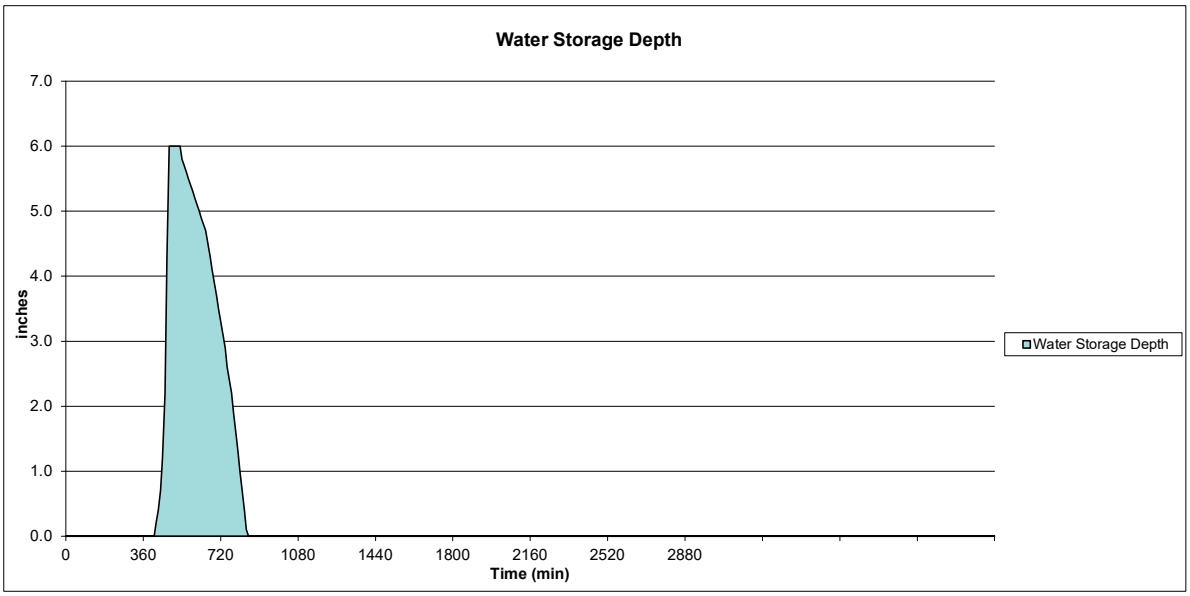




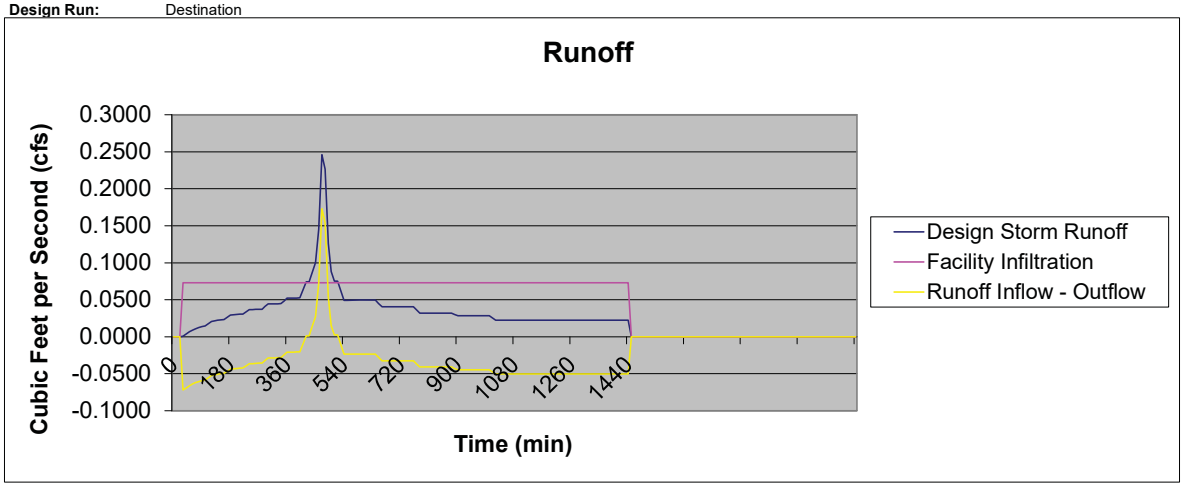
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 2D
Design Run: Flow Control

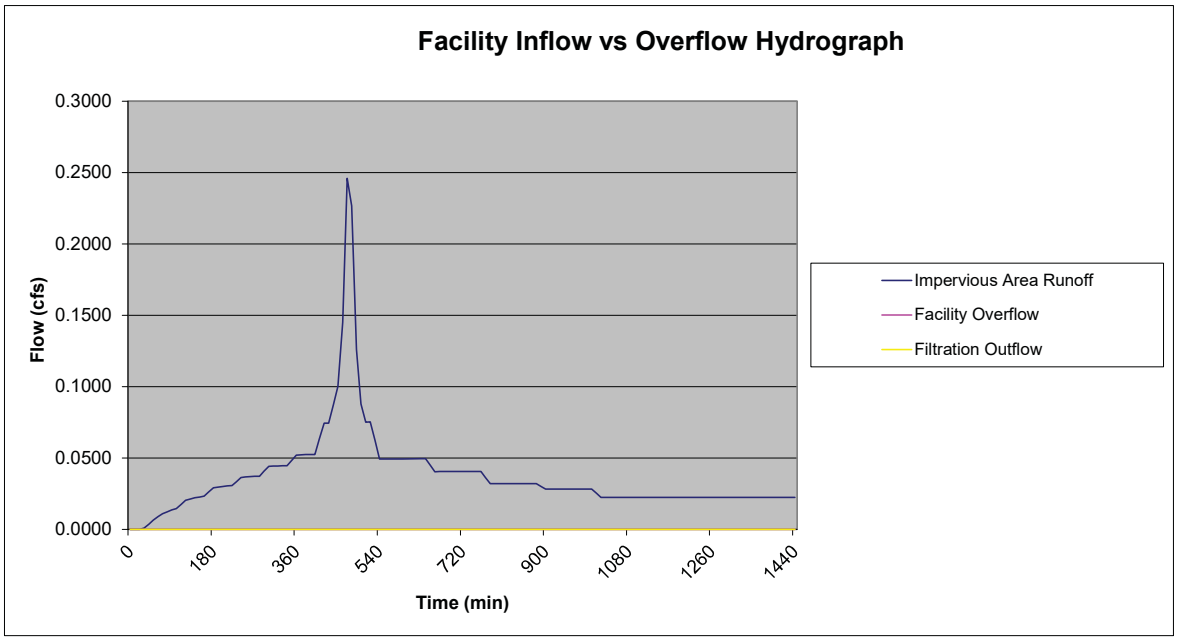


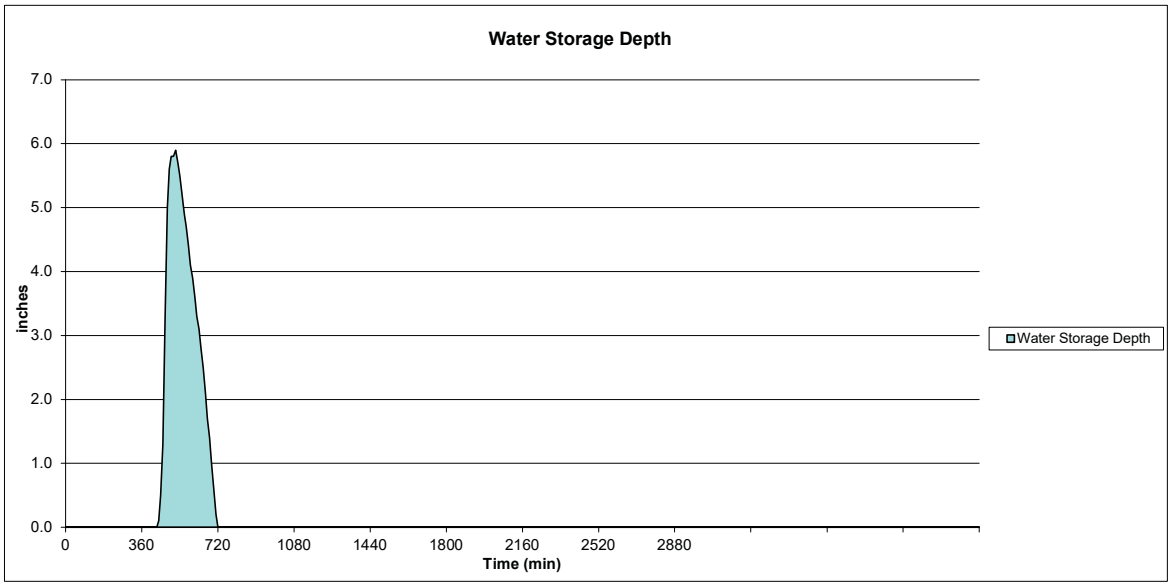




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 2D
Design Run: Destination







Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet
24 Hour Storm, NRCS Type 1A Rainfall Distribution
City of Eugene

Version 2.1

Project Information

Project Name:	Three Mile Prairie	**Date:**	12/30/2020
Project Address:	18-12-15-00-00200	**Permit Number:**	NA
	Florence, OR	**Catchment ID:**	2E
Designer:	Clint Beecroft		
Company:	EGR & Associates		

Instructions:

1. Complete this form for each drainage catchment in the project site that is to be sized per the Presumptive Approach.
2. Provide a distinctive Catchment ID for each facility coordinated with the site basin map to correlate the appropriate calculations with the facility.
3. The maximum drainage catchment to be modeled per the Presumptive Approach is 1 acre (43,560 SF)
4. For infiltration facilities in Class A or B soils where no infiltration testing has been perfromed use an infiltration rate of 0.5 in/hr. For all facilities use a maximum soil infiltration rate of 2.5 in/hr for topsoil/growing medium.

Design Requirements:

Choose "Yes" from the dropdown boxes below next to the design standards requirements for this facility.

Pollution Reduction (PR)	Yes
Flow Control (FC)	Yes
Destination (DT)	Yes

*An infiltration facility must be chosen as the facility type to meet destination requirements

Site Data-Post Development

Total Square Footage Impervious Area=	2594	sqft	**Total Square Footage Pervious Area=**	0	sqft
Impervious Area CN=	98		**Pervious Area CN=**	85	
Total Square Footage of Drainage Area=	2594	sft	**Time of Concentration Post Development=**	5	min
Weighted Average CN=	98				

Site Data-Pre Development (Data in this section is only used if Flow Control is required)

Pre-Development CN=	98		**Time of Concentration Pre-Development=**	5	min

Soil Data

Tested Soil Infiltration Rate=	10	in/hr (See Note 4)	**Destination Design=**	5	in/hr
Design Soil Infiltration Rate=	4	in/hr	**Soil Infiltration Rate**		

Design Storms Used For Calculations

Requirement	Rainfall Depth		Design Storm
Pollution Reduction	0.8	inches	Water Quality
Flow Control	5.1	inches	Flood Control
Destination	5.1	inches	Flood Control

Facility Data

Facility Type=	Infiltration Stormwater Planter		**Facility Surface Area=**	205.8	sqft
Surface Width=	4.2	ft	**Facility Surface Perimeter=**	106.4	ft
Surface Length=	49	ft	**Facility Bottom Area=**	206	sqft
Facility Side Slopes=	0	to 1	**Facility Bottom Perimeter=**	106	ft
Max. Ponding Depth in Stormwater Facility=	6	in	**Basin Volume=**	102.9	cf
Depth of Growing Medium (Soil)=	18	in	**Ratio of Facility Area to Impervious Area=**	0.079	

Pollution Reduction-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.011	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	135	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	0.0	in			
Drawdown Time=	0.2	hours			

Yes **Facility Sizing Meets Pollution Reduction Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

Flow Control-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.079	cfs	Peak Facility Overflow Rate=	0.022	cfs
Total Runoff Volume to Stormwater Facility =	1040	cf	Total Overflow Volume=	28	cf
Max. Depth of Stormwater in Facility=	6.0	in	Peak Off-Site Flow Rate Filtration Facility Underdrain=	N\A	cfs
Drawdown Time=	0.2	hours			

Pre-Development Runoff Data

Peak Flow Rate =	0.079	cfs
Total Runoff Volume =	1043	cf

Yes **Facility Sizing Meets Flow Control Standards?**

YES **Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

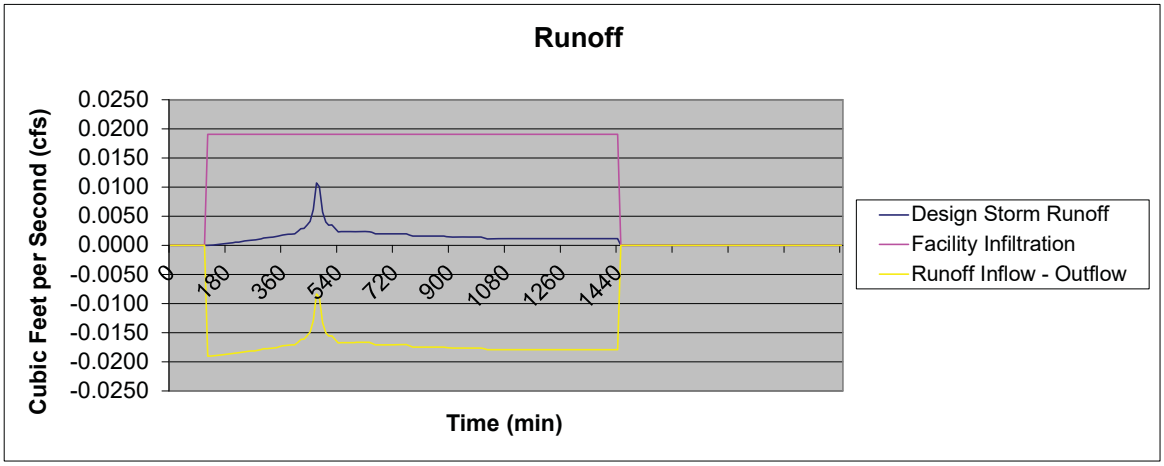
Destination-Calculation Results

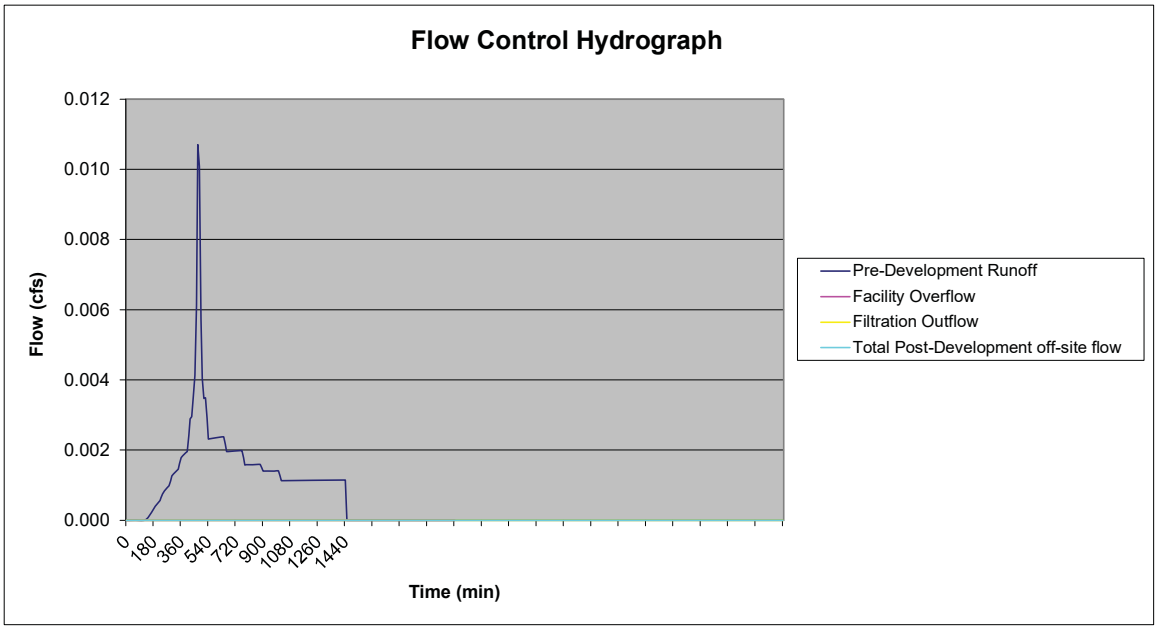
Peak Flow Rate to Stormwater Facility =	0.079	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	1040	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	5.7	in			
Drawdown Time=	0.2	hours			

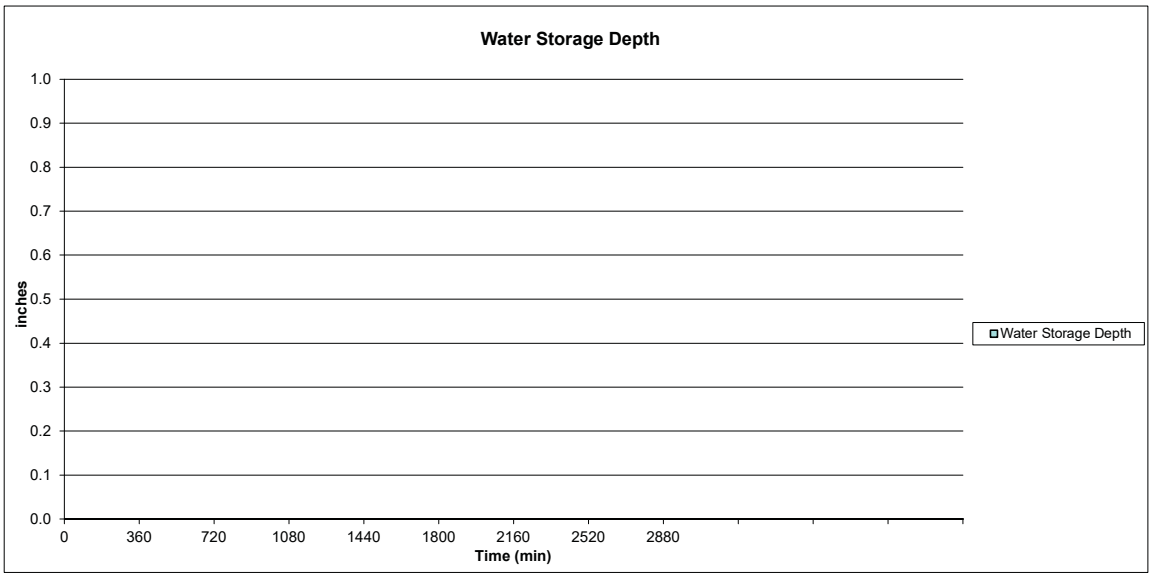
Yes **Facility Sizing Meets Destination Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 30 hour Drawdown Time?**

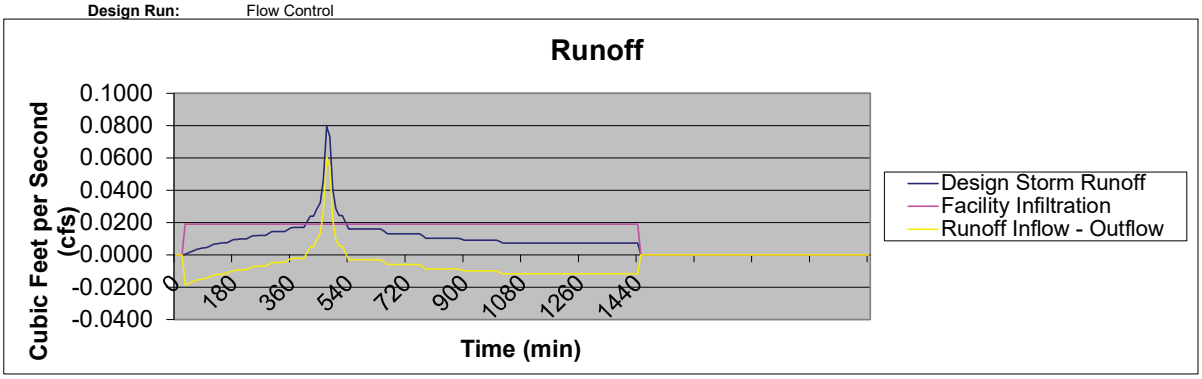
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 2E
Design Run: Pollution Reduction

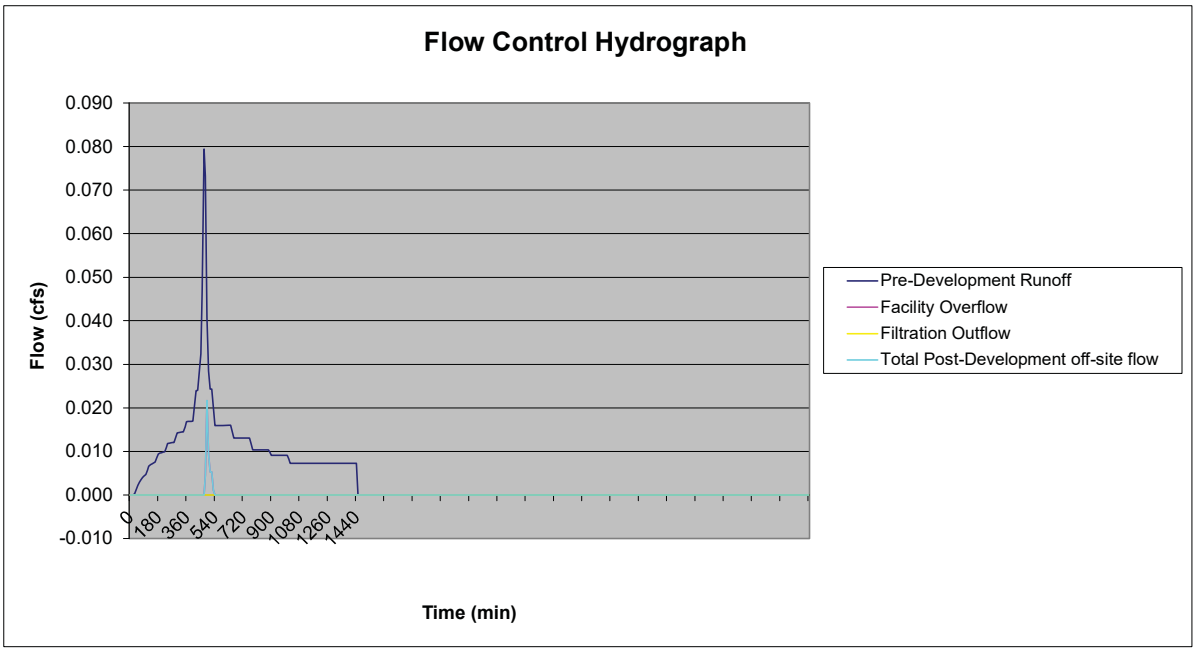


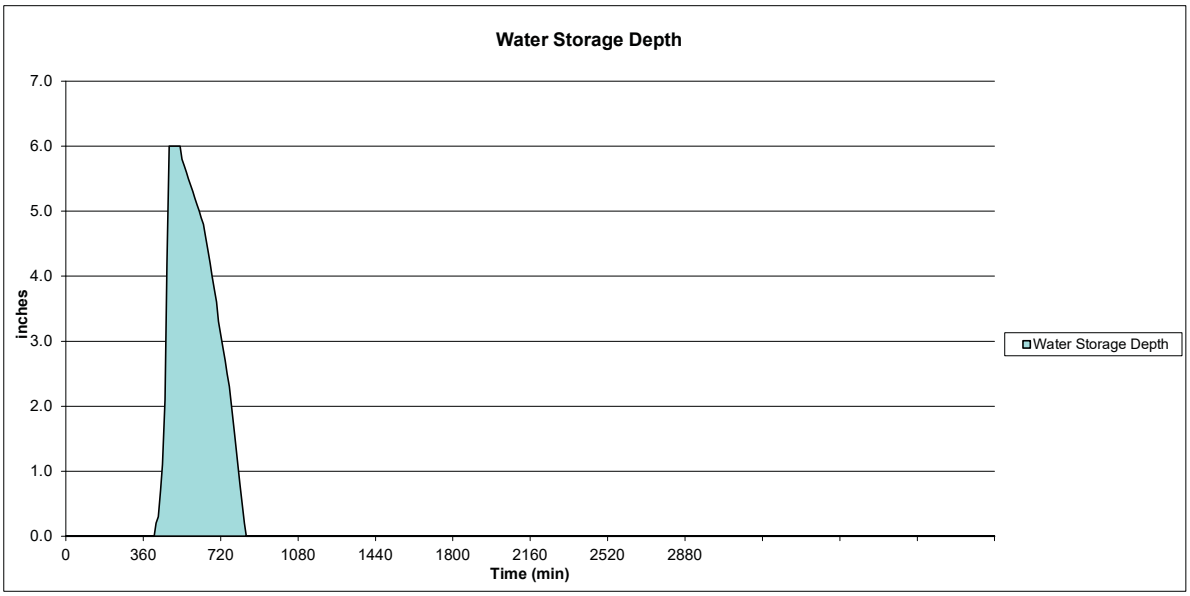




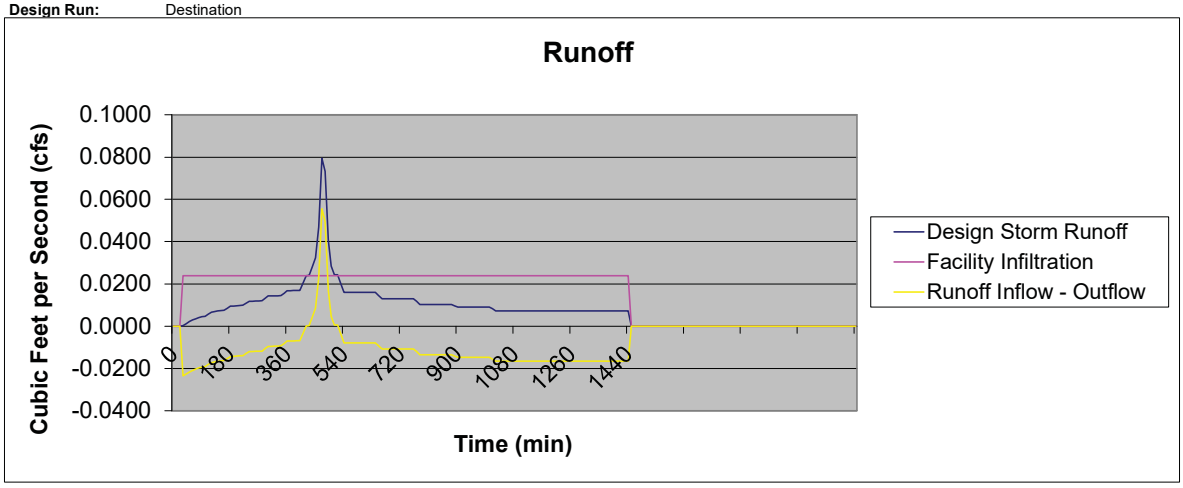
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 2E
Design Run: Flow Control

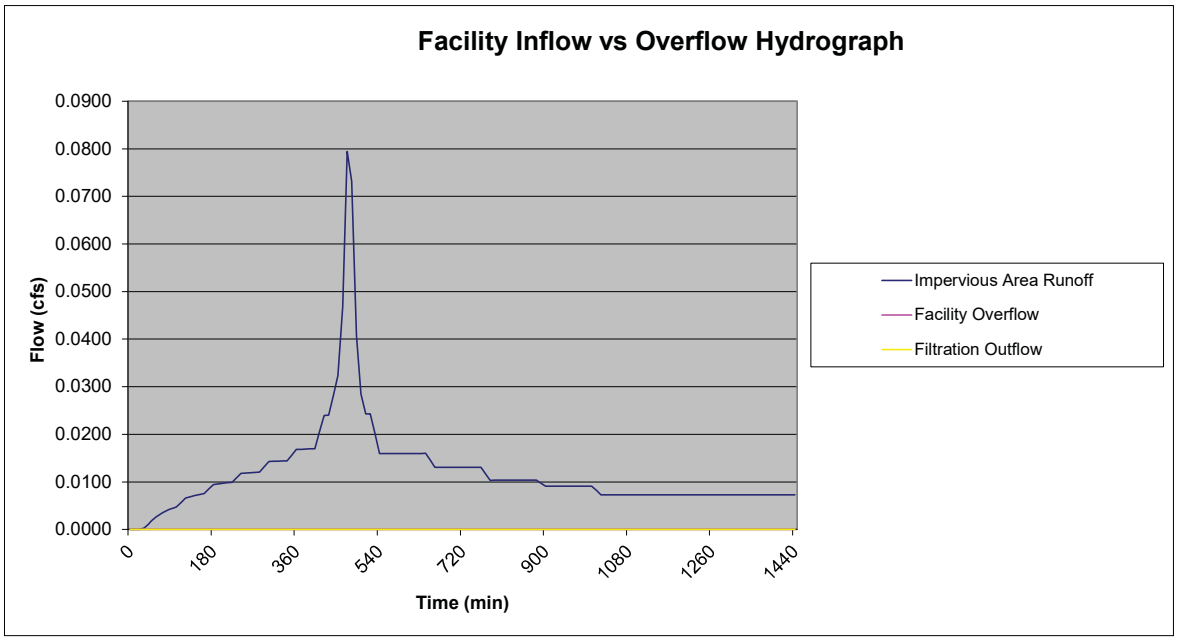


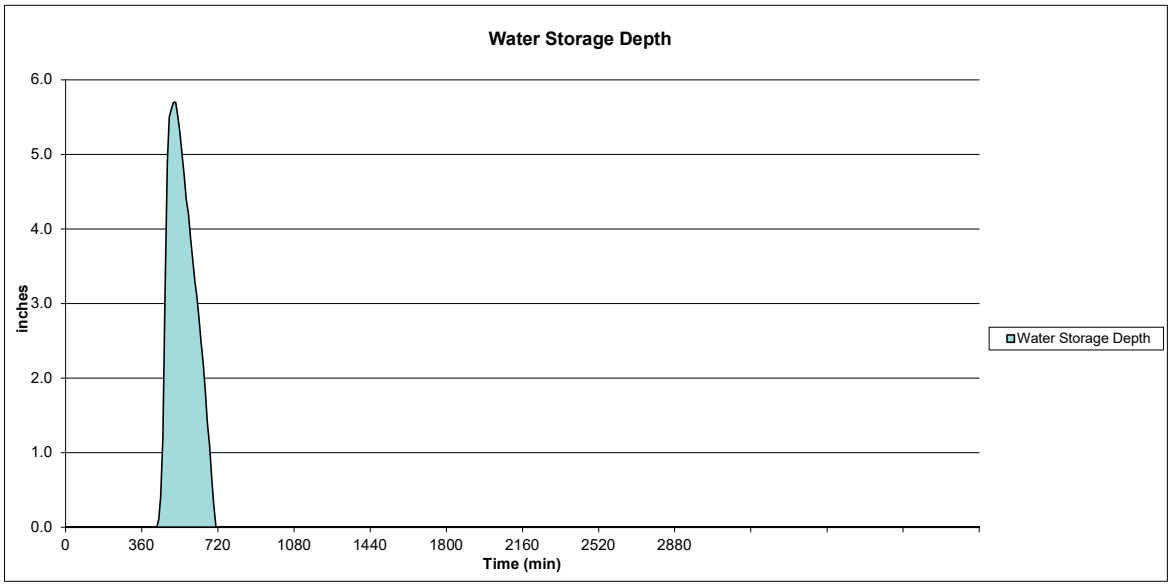




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 2E
Design Run: Destination







Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet
24 Hour Storm, NRCS Type 1A Rainfall Distribution
City of Eugene

Version 2.1

Project Information

Project Name:	Three Mile Prairie	**Date:**	12/30/2020
Project Address:	18-12-15-00-00200	**Permit Number:**	NA
	Florence, OR	**Catchment ID:**	2F
Designer:	Clint Beecroft		
Company:	EGR & Associates		

Instructions:

1. Complete this form for each drainage catchment in the project site that is to be sized per the Presumptive Approach.
2. Provide a distinctive Catchment ID for each facility coordinated with the site basin map to correlate the appropriate calculations with the facility.
3. The maximum drainage catchment to be modeled per the Presumptive Approach is 1 acre (43,560 SF)
4. For infiltration facilities in Class A or B soils where no infiltration testing has been perfromed use an infiltration rate of 0.5 in/hr. For all facilities use a maximum soil infiltration rate of 2.5 in/hr for topsoil/growing medium.

Design Requirements:

Choose "Yes" from the dropdown boxes below next to the design standards requirements for this facility.

Pollution Reduction (PR)	Yes
Flow Control (FC)	Yes
Destination (DT)	Yes

*An infiltration facility must be chosen as the facility type to meet destination requirements

Site Data-Post Development

Total Square Footage Impervious Area=	2601	sqft	**Total Square Footage Pervious Area=**	0	sqft
Impervious Area CN=	98		**Pervious Area CN=**	85	
Total Square Footage of Drainage Area=	2601	sft	**Time of Concentration Post Development=**	5	min
Weighted Average CN=	98				

Site Data-Pre Development (Data in this section is only used if Flow Control is required)

Pre-Development CN=	98		**Time of Concentration Pre-Development=**	5	min

Soil Data

Tested Soil Infiltration Rate=	10	in/hr (See Note 4)	**Destination Design=**	5	in/hr
Design Soil Infiltration Rate=	4	in/hr	**Soil Infiltration Rate**		

Design Storms Used For Calculations

Requirement	Rainfall Depth		Design Storm
Pollution Reduction	0.8	inches	Water Quality
Flow Control	5.1	inches	Flood Control
Destination	5.1	inches	Flood Control

Facility Data

Facility Type=	Infiltration Stormwater Planter		**Facility Surface Area=**	205.8	sqft
Surface Width=	4.2	ft	**Facility Surface Perimeter=**	106.4	ft
Surface Length=	49	ft	**Facility Bottom Area=**	206	sqft
Facility Side Slopes=	0	to 1	**Facility Bottom Perimeter=**	106	ft
Max. Ponding Depth in Stormwater Facility=	6	in	**Basin Volume=**	102.9	cf
Depth of Growing Medium (Soil)=	18	in	**Ratio of Facility Area to Impervious Area=**	0.079	

Pollution Reduction-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.011	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	136	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	0.0	in			
Drawdown Time=	0.2	hours			

Yes **Facility Sizing Meets Pollution Reduction Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

Flow Control-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.080	cfs	Peak Facility Overflow Rate=	0.022	cfs
Total Runoff Volume to Stormwater Facility =	1043	cf	Total Overflow Volume=	29	cf
Max. Depth of Stormwater in Facility=	6.0	in	Peak Off-Site Flow Rate Filtration Facility Underdrain=	N\A	cfs
Drawdown Time=	0.2	hours			

Pre-Development Runoff Data

Peak Flow Rate =	0.080	cfs
Total Runoff Volume =	1045	cf

Yes **Facility Sizing Meets Flow Control Standards?**

YES **Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

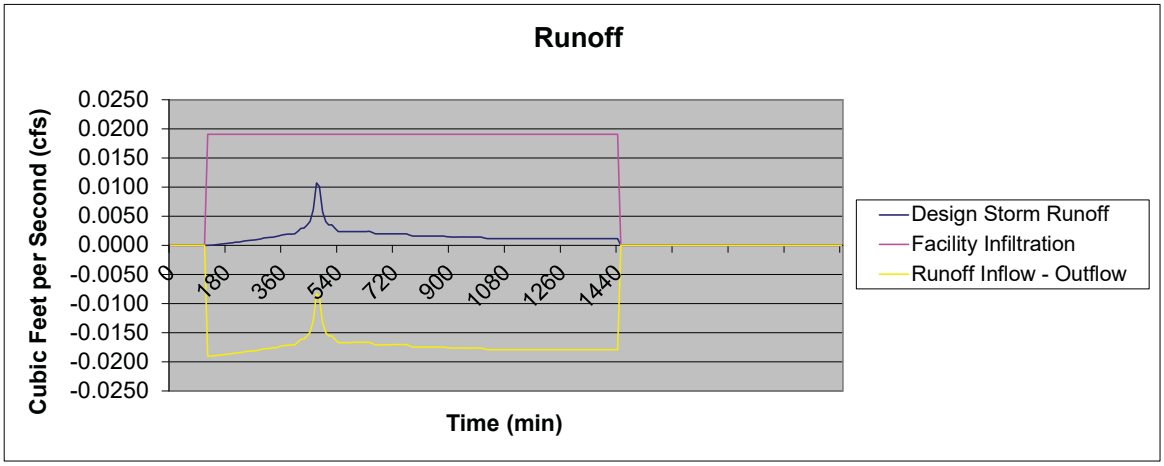
Destination-Calculation Results

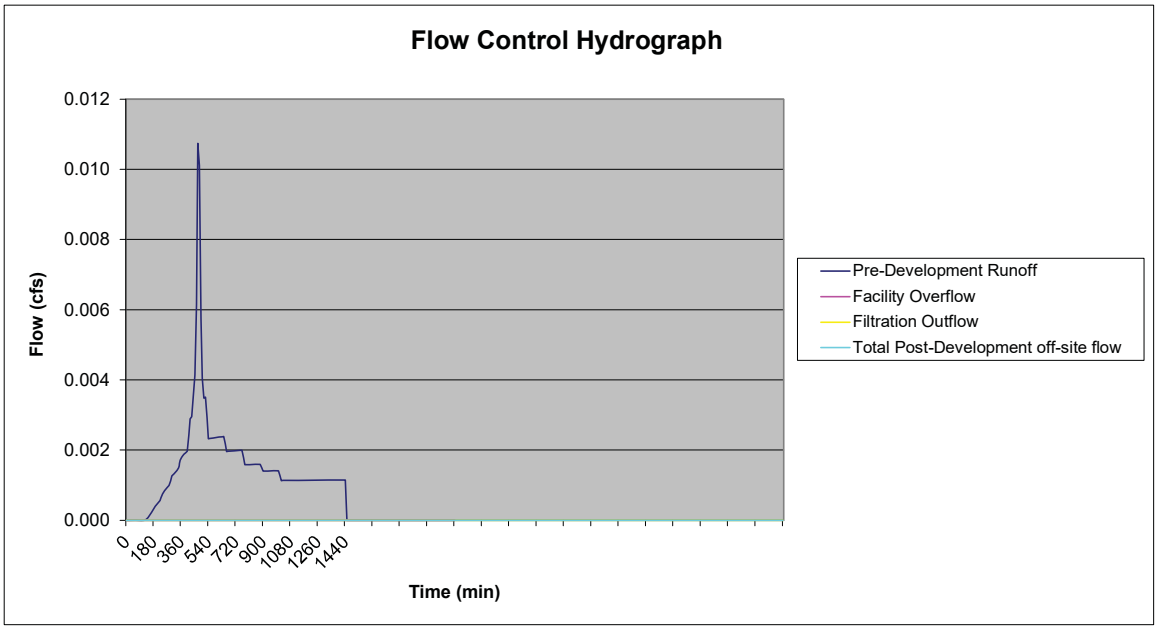
Peak Flow Rate to Stormwater Facility =	0.080	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	1043	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	5.7	in			
Drawdown Time=	0.2	hours			

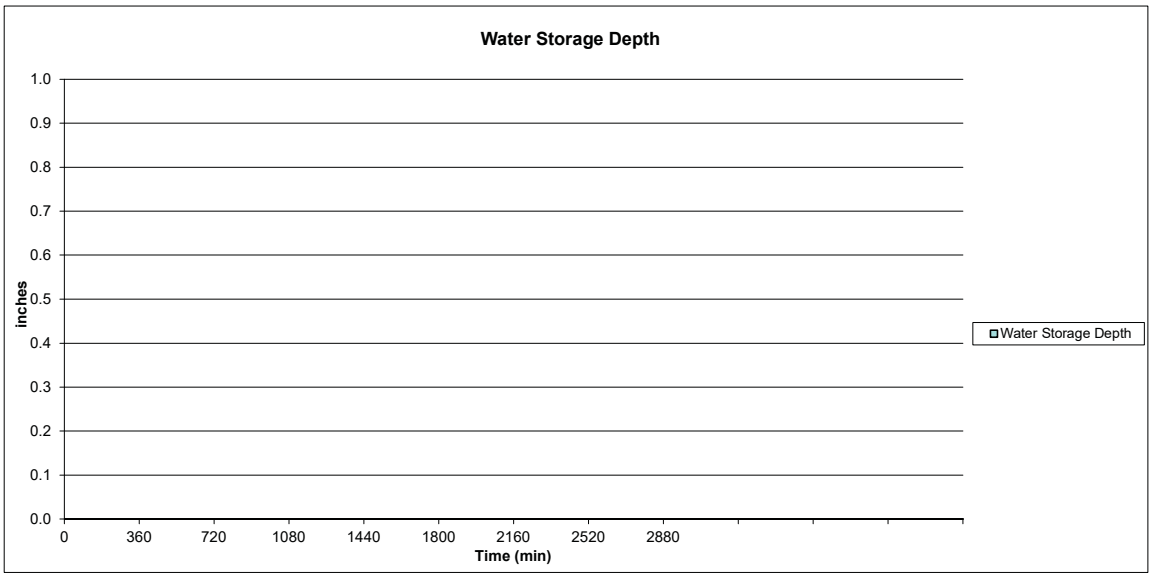
Yes **Facility Sizing Meets Destination Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 30 hour Drawdown Time?**

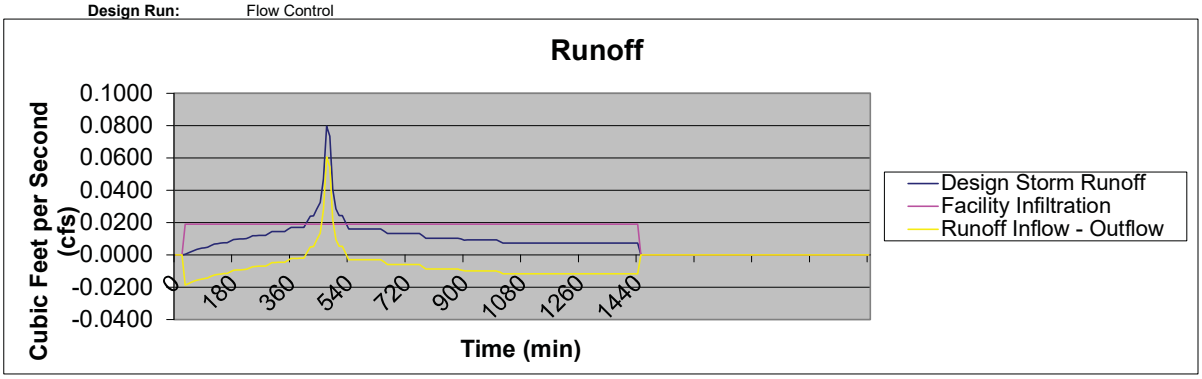
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 2F
Design Run: Pollution Reduction

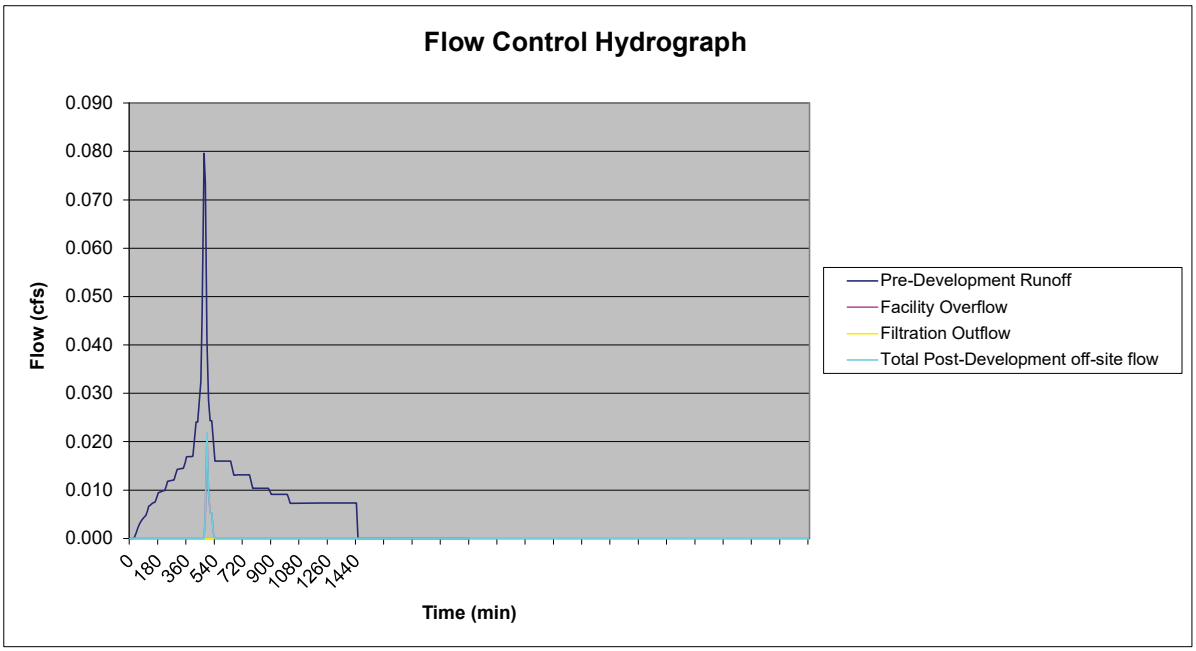


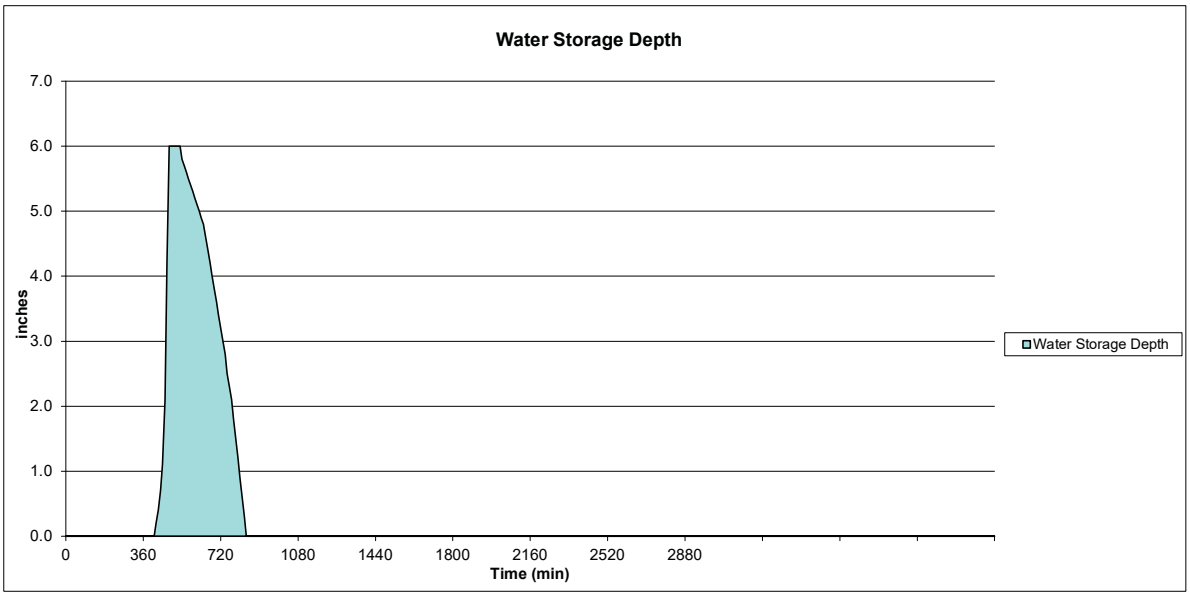




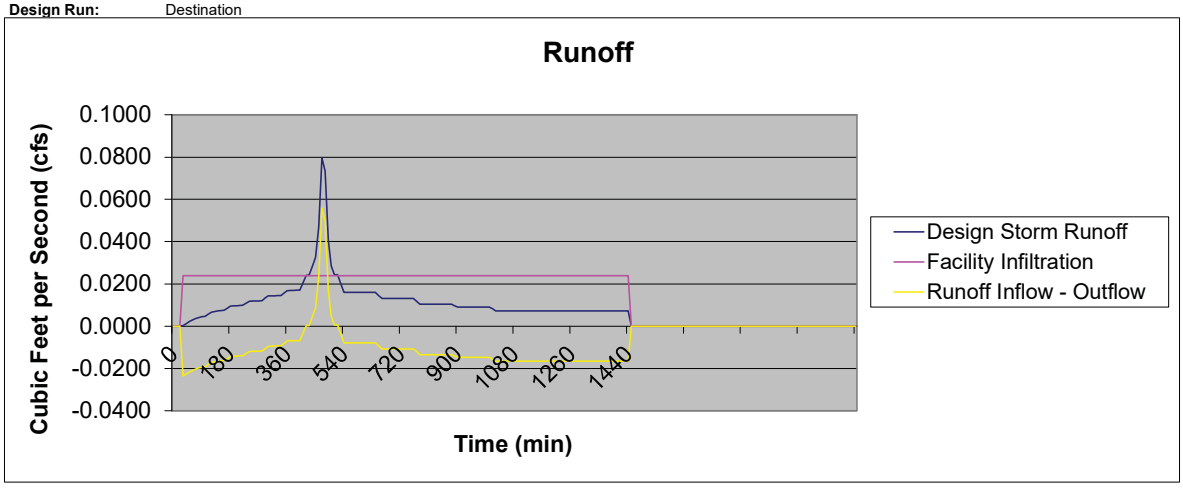
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 2F
Design Run: Flow Control

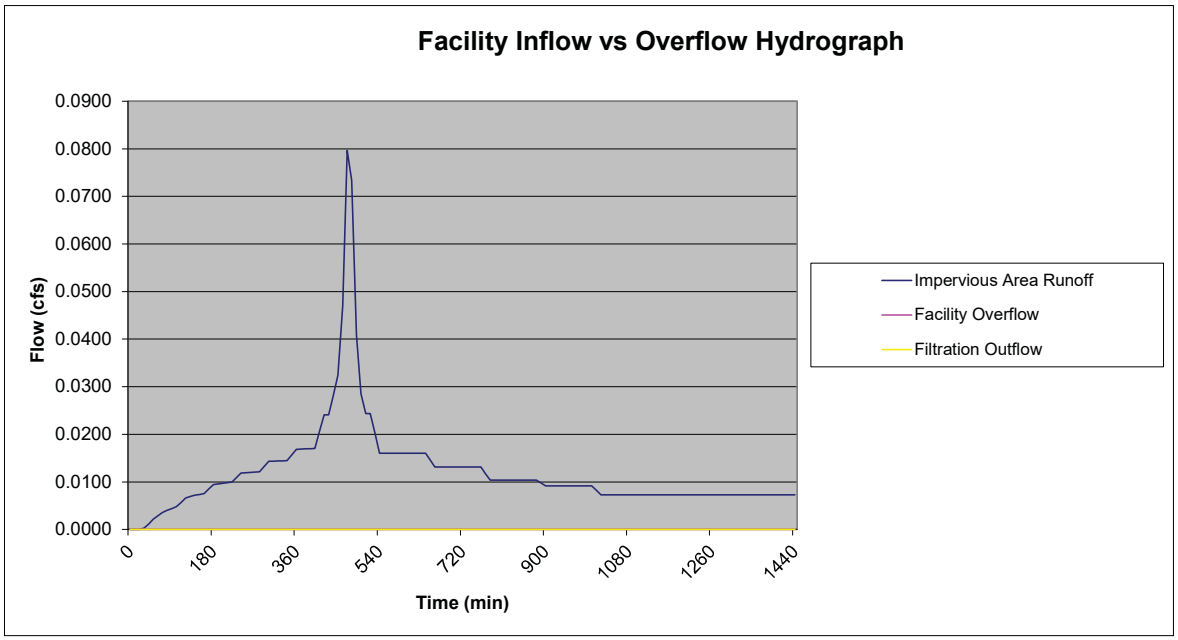


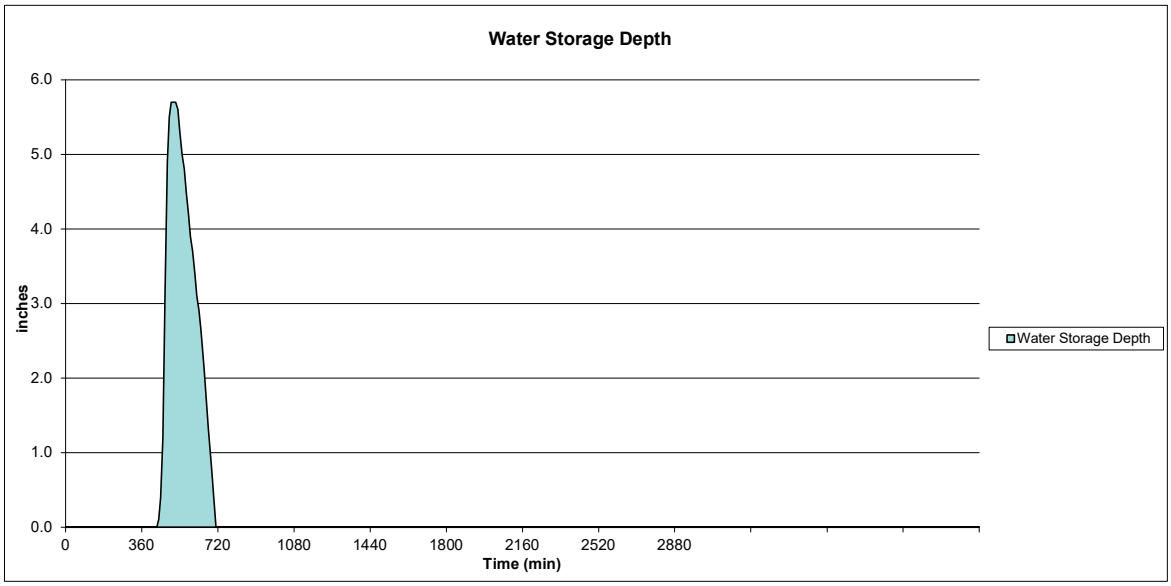




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 2F
Design Run: Destination







Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet
24 Hour Storm, NRCS Type 1A Rainfall Distribution
City of Eugene

Version 2.1

Project Information

Project Name:	Three Mile Prairie	**Date:**	12/30/2020
Project Address:	18-12-15-00-00200	**Permit Number:**	NA
	Florence, OR	**Catchment ID:**	3A
Designer:	Clint Beecroft		
Company:	EGR & Associates		

Instructions:

1. Complete this form for each drainage catchment in the project site that is to be sized per the Presumptive Approach.
2. Provide a distinctive Catchment ID for each facility coordinated with the site basin map to correlate the appropriate calculations with the facility.
3. The maximum drainage catchment to be modeled per the Presumptive Approach is 1 acre (43,560 SF)
4. For infiltration facilities in Class A or B soils where no infiltration testing has been perfromed use an infiltration rate of 0.5 in/hr. For all facilities use a maximum soil infiltration rate of 2.5 in/hr for topsoil/growing medium.

Design Requirements:

Choose "Yes" from the dropdown boxes below next to the design standards requirements for this facility.

Pollution Reduction (PR)	Yes
Flow Control (FC)	Yes
Destination (DT)	Yes

*An infiltration facility must be chosen as the facility type to meet destination requirements

Site Data-Post Development

Total Square Footage Impervious Area=	1698	sqft	**Total Square Footage Pervious Area=**	0	sqft
Impervious Area CN=	98		**Pervious Area CN=**	85	
Total Square Footage of Drainage Area=	1698	sft	**Time of Concentration Post Development=**	5	min
Weighted Average CN=	98				

Site Data-Pre Development (Data in this section is only used if Flow Control is required)

Pre-Development CN=	98		**Time of Concentration Pre-Development=**	5	min

Soil Data

Tested Soil Infiltration Rate=	10	in/hr (See Note 4)	**Destination Design=**	5	in/hr
Design Soil Infiltration Rate=	4	in/hr	**Soil Infiltration Rate**		

Design Storms Used For Calculations

Requirement	Rainfall Depth		Design Storm
Pollution Reduction	0.8	inches	Water Quality
Flow Control	5.1	inches	Flood Control
Destination	5.1	inches	Flood Control

Facility Data

Facility Type=	Infiltration Stormwater Planter		**Facility Surface Area=**	117	sqft
Surface Width=	11.7	ft	**Facility Surface Perimeter=**	43.4	ft
Surface Length=	10	ft	**Facility Bottom Area=**	117	sqft
Facility Side Slopes=	0	to 1	**Facility Bottom Perimeter=**	43	ft
Max. Ponding Depth in Stormwater Facility=	8	in	**Basin Volume=**	78.0	cf
Depth of Growing Medium (Soil)=	18	in	**Ratio of Facility Area to Impervious Area=**	0.069	

Pollution Reduction-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.007	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	89	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	0.0	in			
Drawdown Time=	0.2	hours			

Yes **Facility Sizing Meets Pollution Reduction Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

Flow Control-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.052	cfs	Peak Facility Overflow Rate=	0.015	cfs
Total Runoff Volume to Stormwater Facility =	681	cf	Total Overflow Volume=	21	cf
Max. Depth of Stormwater in Facility=	8.0	in	Peak Off-Site Flow Rate Filtration Facility Underdrain=	N\A	cfs
Drawdown Time=	0.2	hours			

Pre-Development Runoff Data

Peak Flow Rate =	0.052	cfs
Total Runoff Volume =	682	cf

Yes **Facility Sizing Meets Flow Control Standards?**

YES **Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

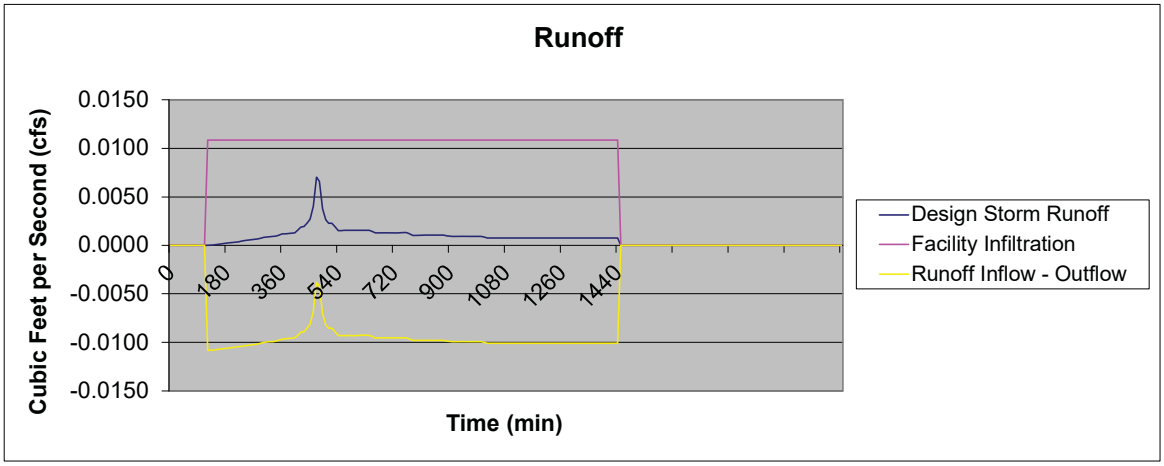
Destination-Calculation Results

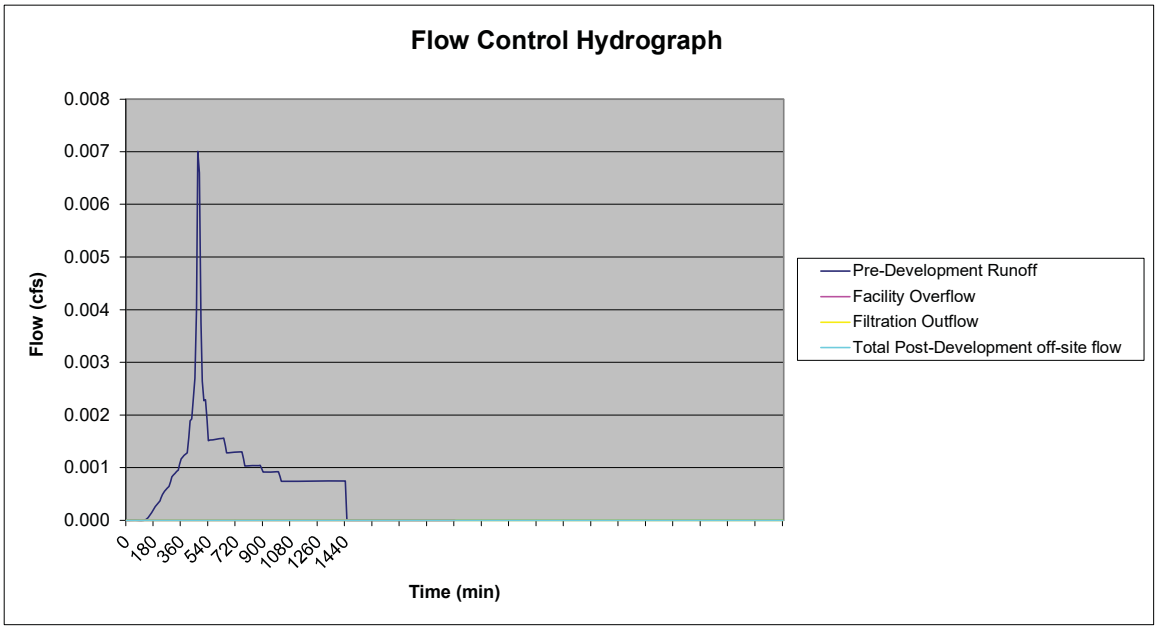
Peak Flow Rate to Stormwater Facility =	0.052	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	681	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	7.9	in			
Drawdown Time=	0.2	hours			

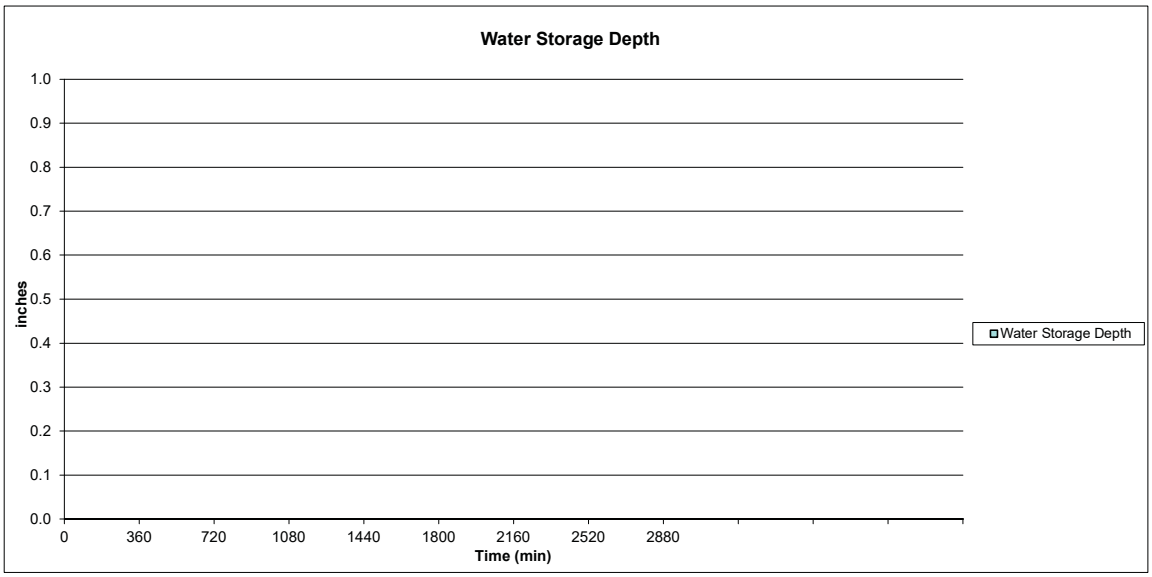
Yes **Facility Sizing Meets Destination Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 30 hour Drawdown Time?**

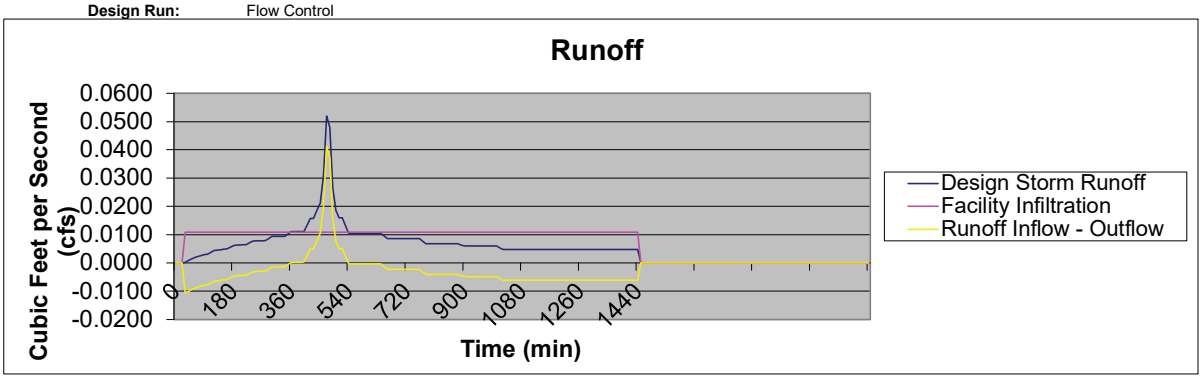
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3A
Design Run: Pollution Reduction

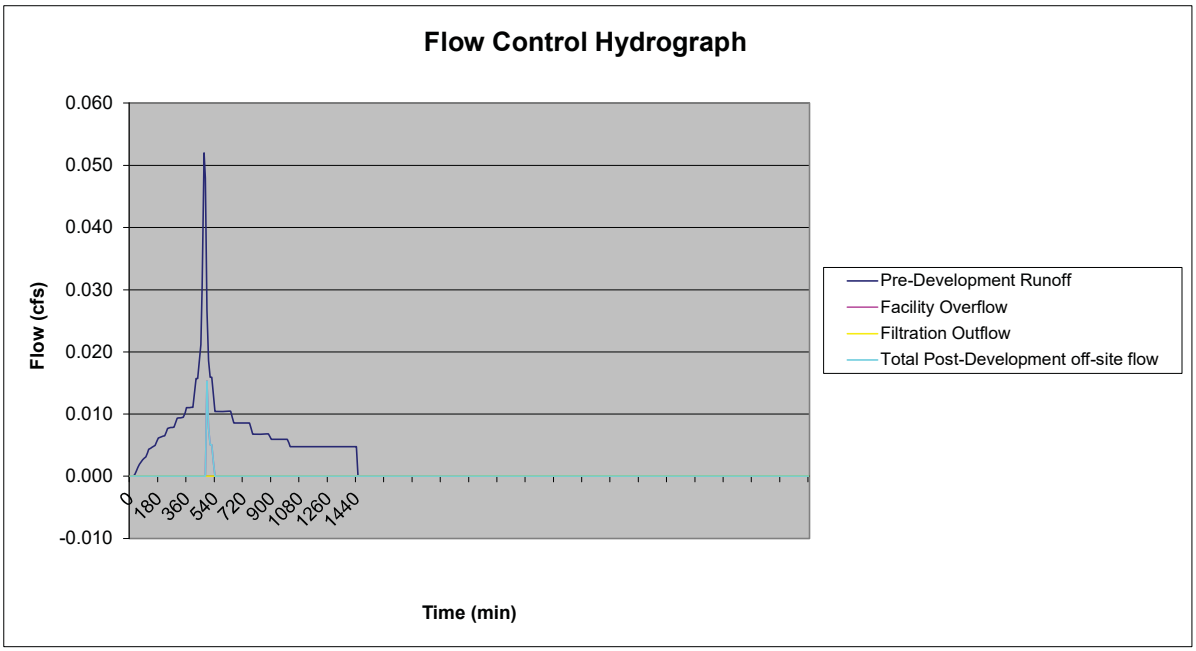


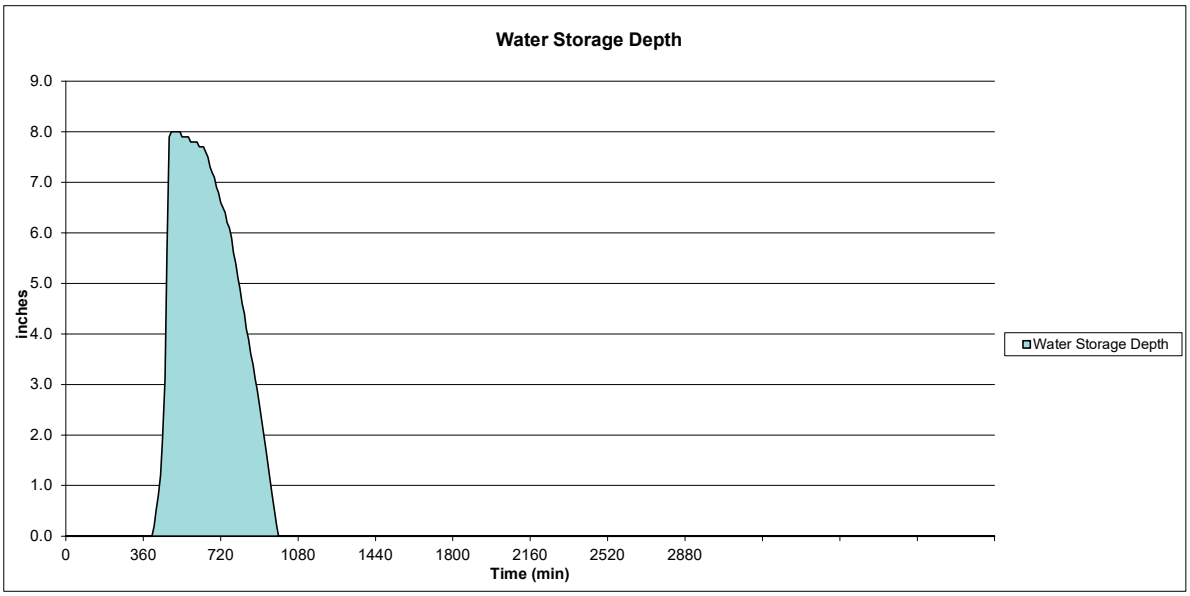




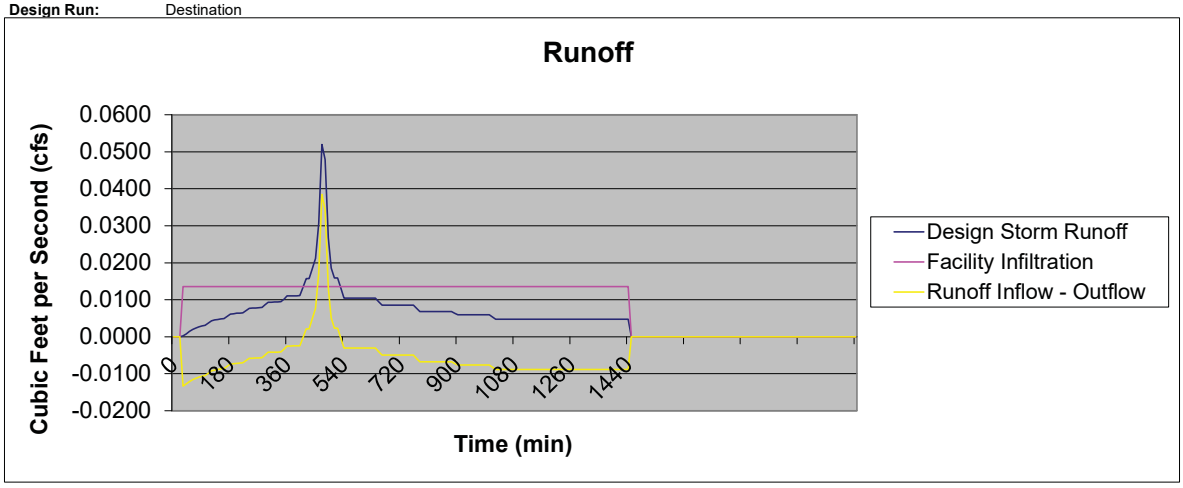
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3A
Design Run: Flow Control

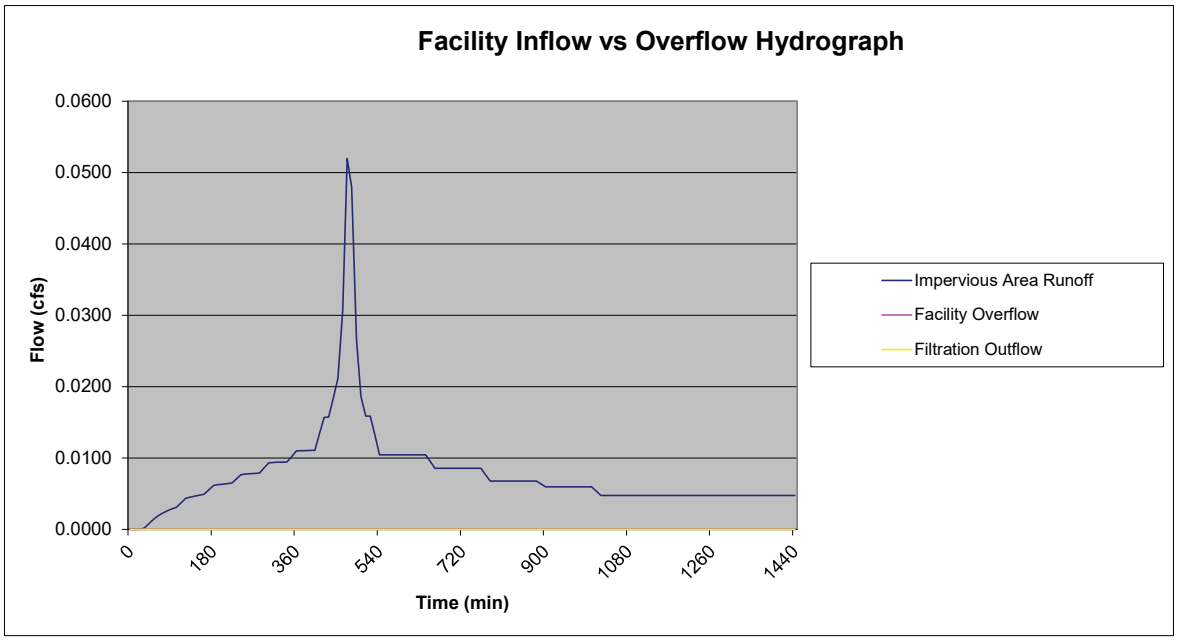


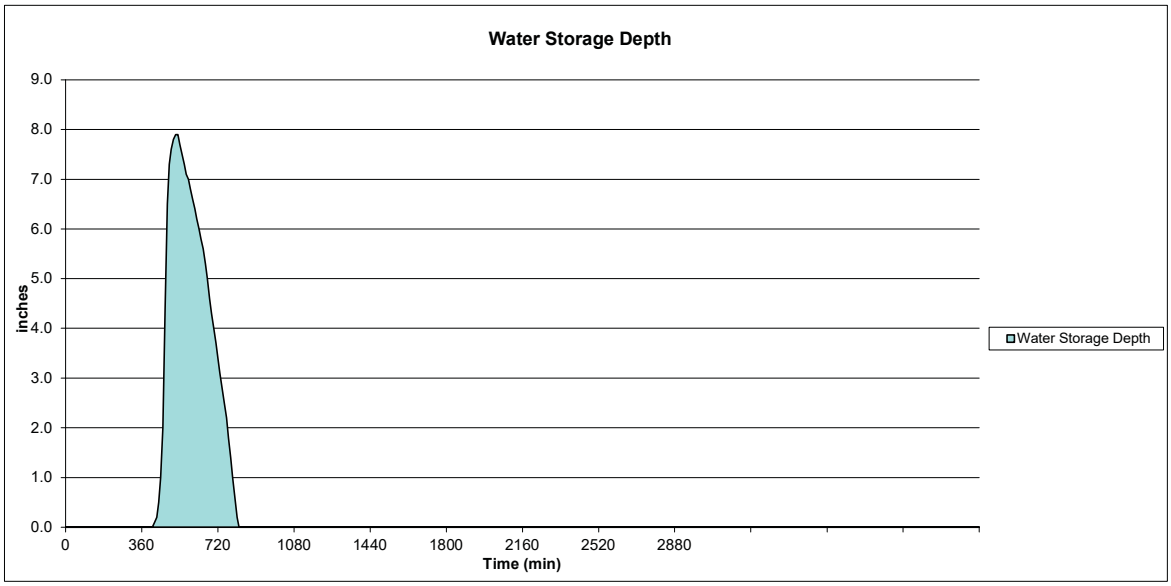




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3A
Design Run: Destination







Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet
24 Hour Storm, NRCS Type 1A Rainfall Distribution
City of Eugene

Version 2.1

Project Information

Project Name:	Three Mile Prairie	**Date:**	12/30/2020
Project Address:	18-12-15-00-00200	**Permit Number:**	NA
	Florence, OR	**Catchment ID:**	3B
Designer:	Clint Beecroft		
Company:	EGR & Associates		

Instructions:

1. Complete this form for each drainage catchment in the project site that is to be sized per the Presumptive Approach.
2. Provide a distinctive Catchment ID for each facility coordinated with the site basin map to correlate the appropriate calculations with the facility.
3. The maximum drainage catchment to be modeled per the Presumptive Approach is 1 acre (43,560 SF)
4. For infiltration facilities in Class A or B soils where no infiltration testing has been perfromed use an infiltration rate of 0.5 in/hr. For all facilities use a maximum soil infiltration rate of 2.5 in/hr for topsoil/growing medium.

Design Requirements:

Choose "Yes" from the dropdown boxes below next to the design standards requirements for this facility.

Pollution Reduction (PR)	Yes
Flow Control (FC)	Yes
Destination (DT)	Yes

*An infiltration facility must be chosen as the facility type to meet destination requirements

Site Data-Post Development

Total Square Footage Impervious Area=	1695	sqft	**Total Square Footage Pervious Area=**	0	sqft
Impervious Area CN=	98		**Pervious Area CN=**	85	
Total Square Footage of Drainage Area=	1695	sft	**Time of Concentration Post Development=**	5	min
Weighted Average CN=	98				

Site Data-Pre Development (Data in this section is only used if Flow Control is required)

Pre-Development CN=	98		**Time of Concentration Pre-Development=**	5	min

Soil Data

Tested Soil Infiltration Rate=	10	in/hr (See Note 4)	**Destination Design=**	5	in/hr
Design Soil Infiltration Rate=	4	in/hr	**Soil Infiltration Rate**		

Design Storms Used For Calculations

Requirement	Rainfall Depth		Design Storm
Pollution Reduction	0.8	inches	Water Quality
Flow Control	5.1	inches	Flood Control
Destination	5.1	inches	Flood Control

Facility Data

Facility Type=	Infiltration Stormwater Planter		**Facility Surface Area=**	117	sqft
Surface Width=	11.7	ft	**Facility Surface Perimeter=**	43.4	ft
Surface Length=	10	ft	**Facility Bottom Area=**	117	sqft
Facility Side Slopes=	0	to 1	**Facility Bottom Perimeter=**	43	ft
Max. Ponding Depth in Stormwater Facility=	8	in	**Basin Volume=**	78.0	cf
Depth of Growing Medium (Soil)=	18	in	**Ratio of Facility Area to Impervious Area=**	0.069	

Pollution Reduction-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.007	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	88	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	0.0	in			
Drawdown Time=	0.2	hours			

Yes **Facility Sizing Meets Pollution Reduction Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

Flow Control-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.052	cfs	Peak Facility Overflow Rate=	0.015	cfs
Total Runoff Volume to Stormwater Facility =	680	cf	Total Overflow Volume=	21	cf
Max. Depth of Stormwater in Facility=	8.0	in	Peak Off-Site Flow Rate Filtration Facility Underdrain=	N\A	cfs
Drawdown Time=	0.2	hours			

Pre-Development Runoff Data

Peak Flow Rate =	0.052	cfs
Total Runoff Volume =	681	cf

Yes **Facility Sizing Meets Flow Control Standards?**

YES **Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

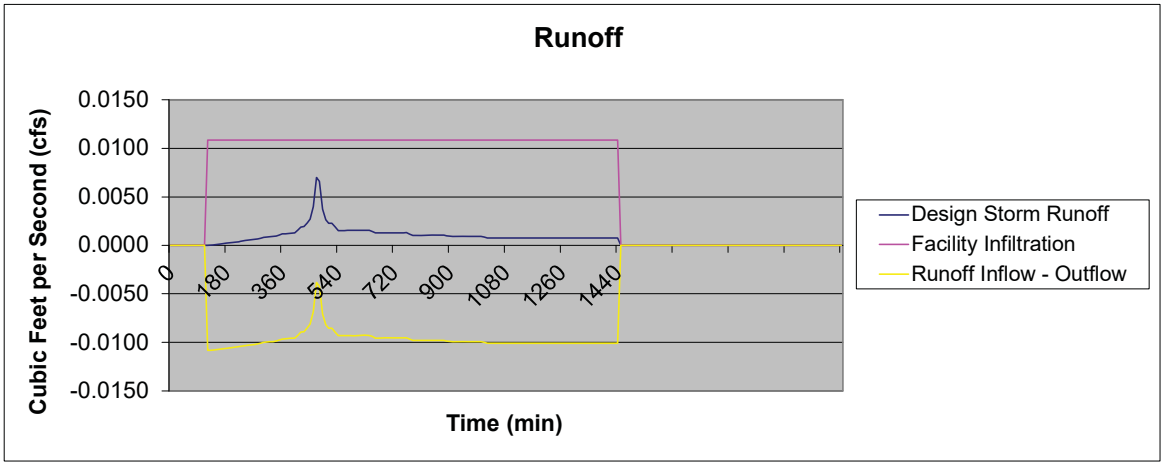
Destination-Calculation Results

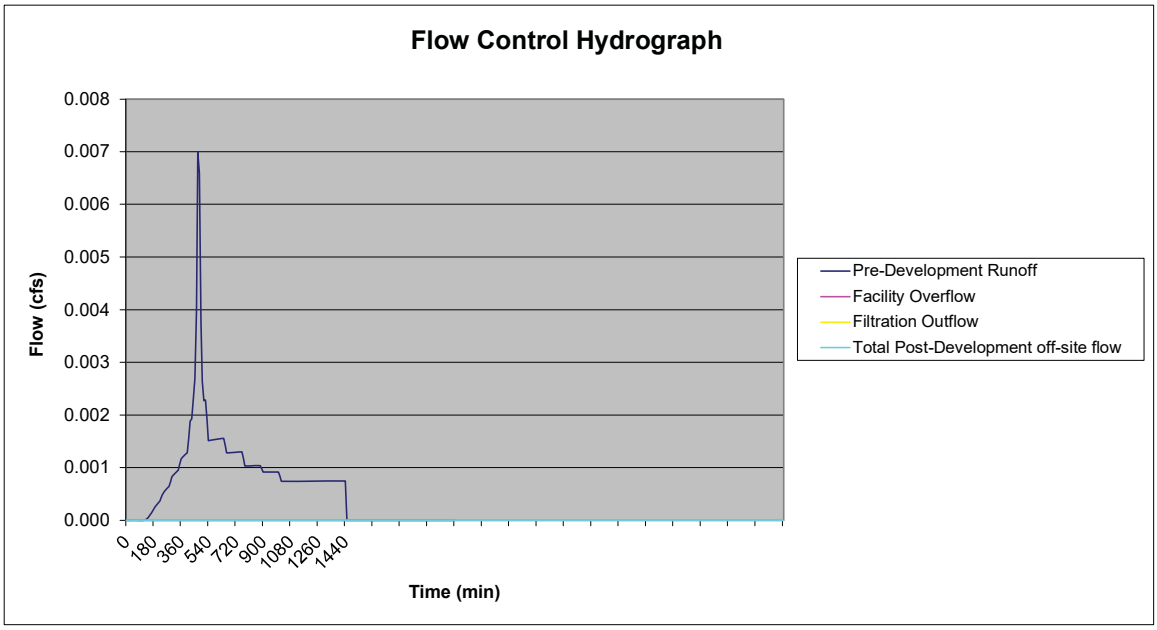
Peak Flow Rate to Stormwater Facility =	0.052	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	680	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	7.9	in			
Drawdown Time=	0.2	hours			

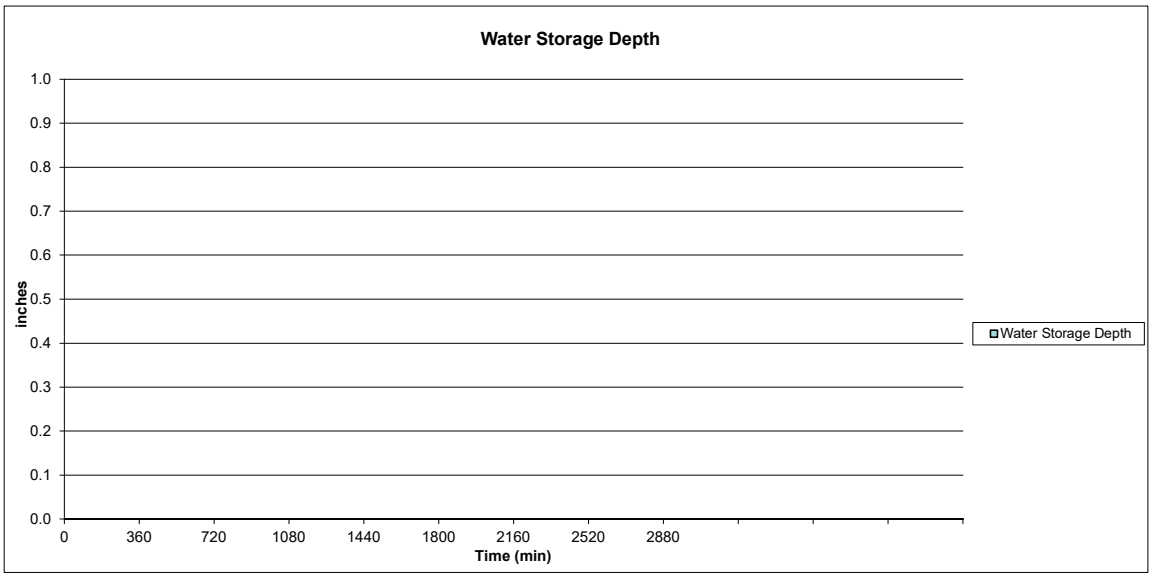
Yes **Facility Sizing Meets Destination Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 30 hour Drawdown Time?**

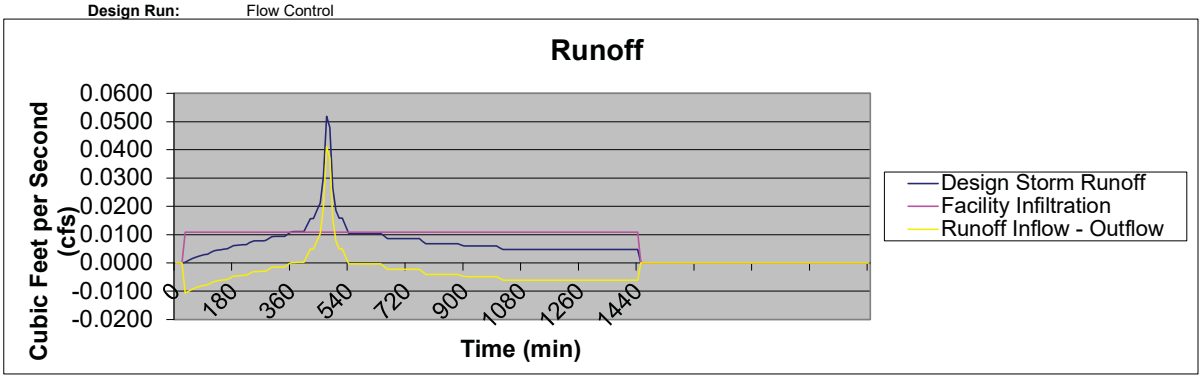
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3B
Design Run: Pollution Reduction

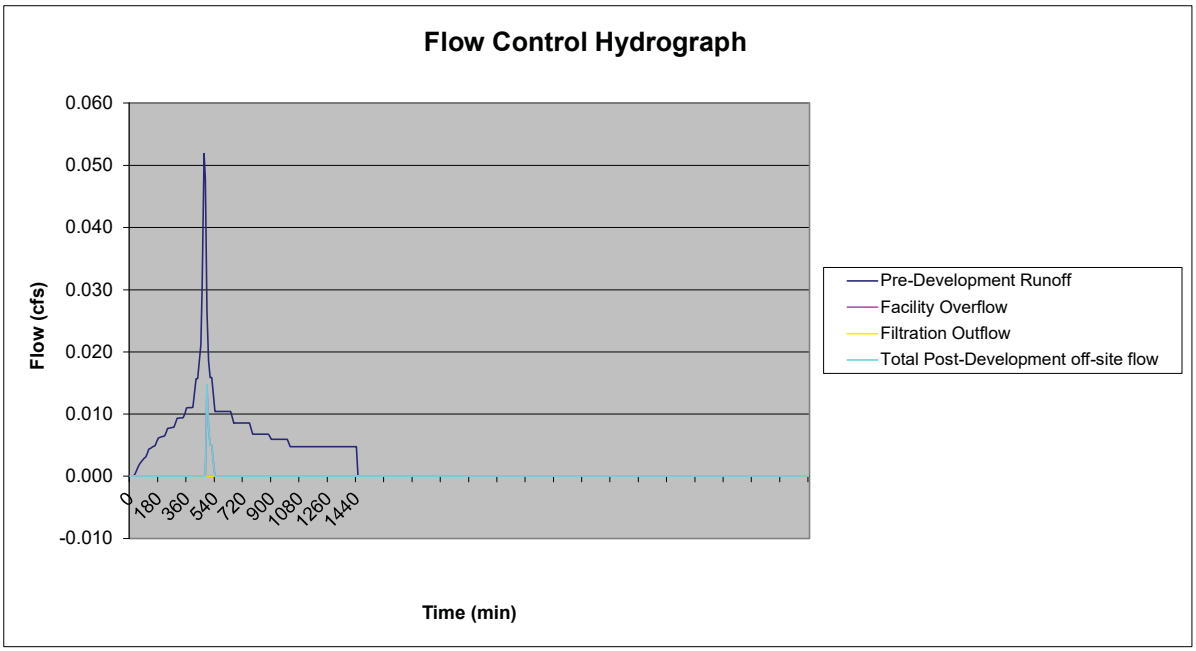


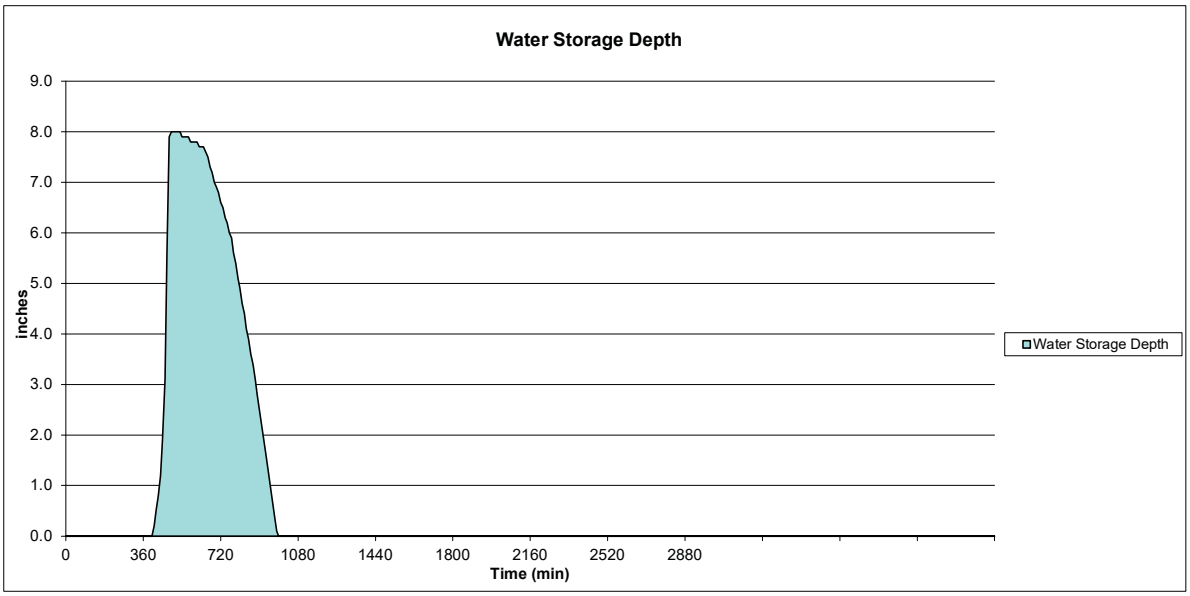




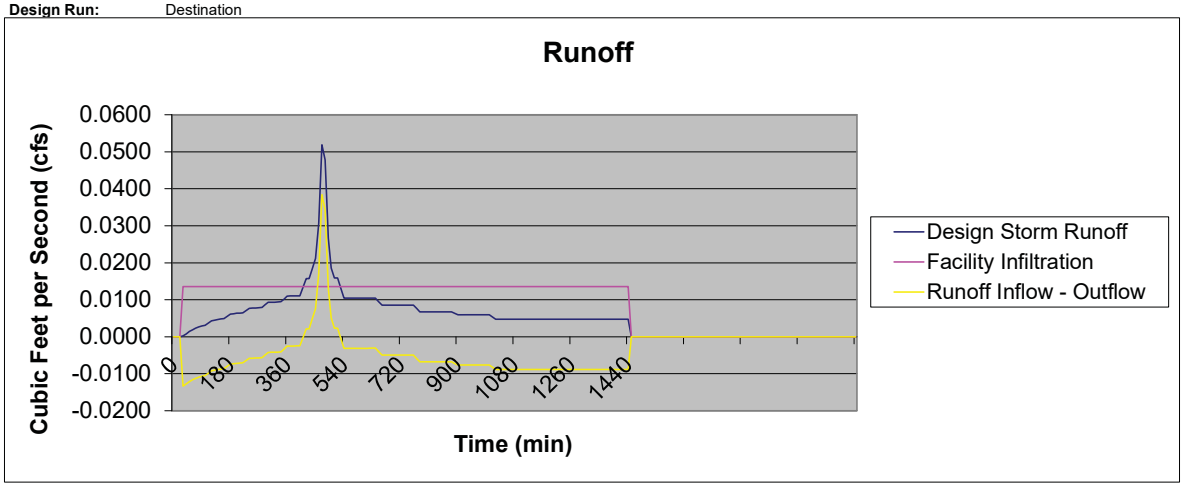
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3B
Design Run: Flow Control

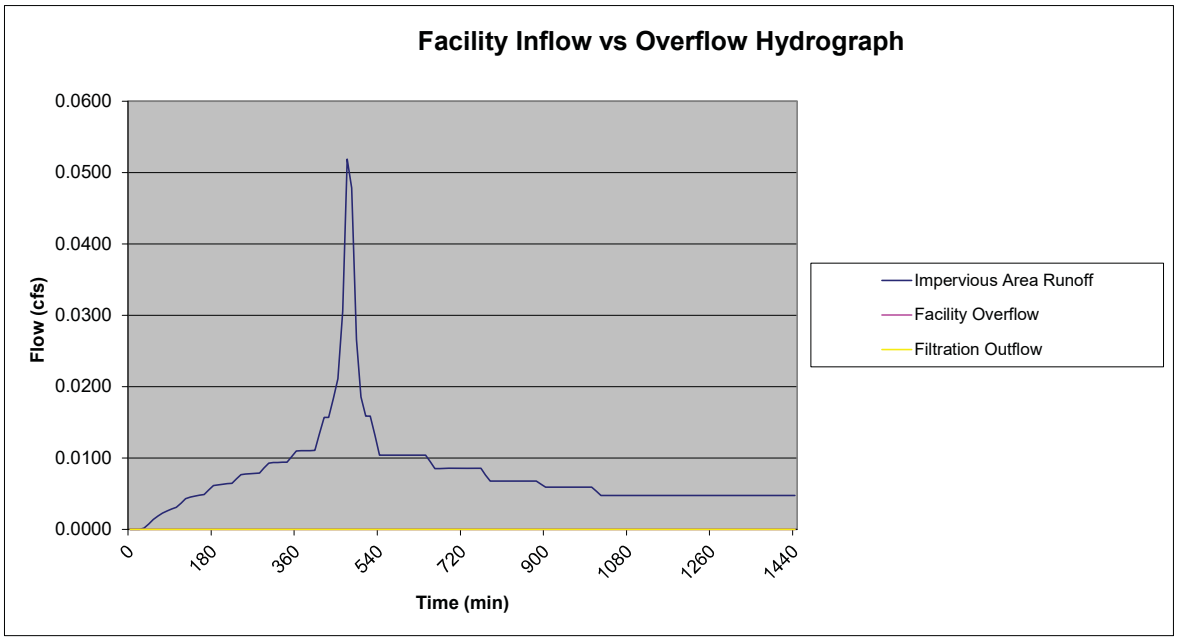


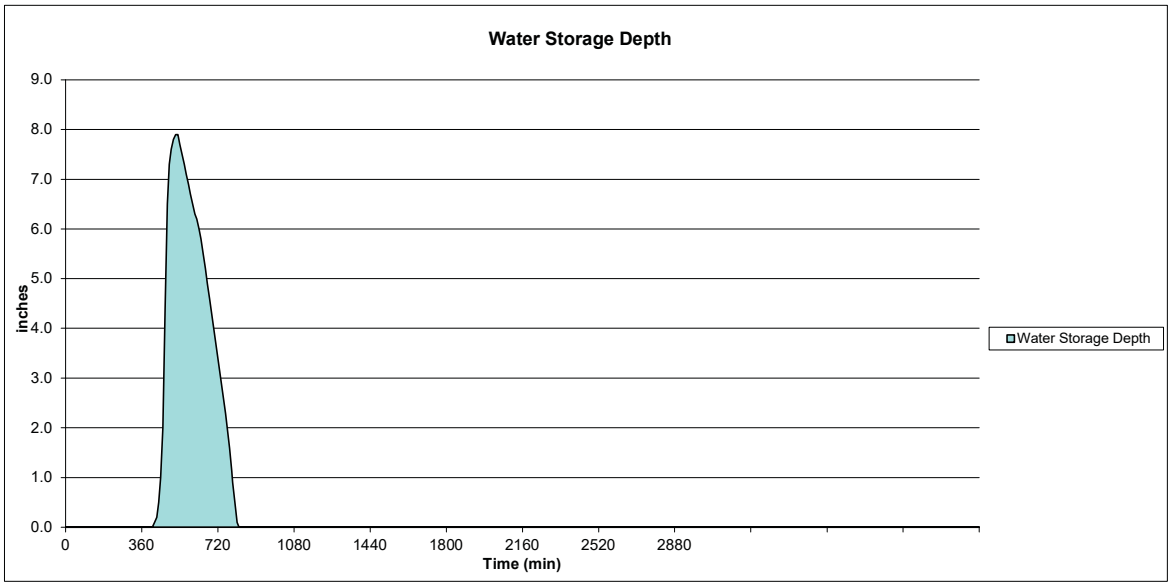




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3B
Design Run: Destination







Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet
24 Hour Storm, NRCS Type 1A Rainfall Distribution
City of Eugene

Version 2.1

Project Information

Project Name:	Three Mile Prairie	**Date:**	12/30/2020
Project Address:	18-12-15-00-00200	**Permit Number:**	NA
	Florence, OR	**Catchment ID:**	3C
Designer:	Clint Beecroft		
Company:	EGR & Associates		

Instructions:

1. Complete this form for each drainage catchment in the project site that is to be sized per the Presumptive Approach.
2. Provide a distinctive Catchment ID for each facility coordinated with the site basin map to correlate the appropriate calculations with the facility.
3. The maximum drainage catchment to be modeled per the Presumptive Approach is 1 acre (43,560 SF)
4. For infiltration facilities in Class A or B soils where no infiltration testing has been perfromed use an infiltration rate of 0.5 in/hr. For all facilities use a maximum soil infiltration rate of 2.5 in/hr for topsoil/growing medium.

Design Requirements:

Choose "Yes" from the dropdown boxes below next to the design standards requirements for this facility.

Pollution Reduction (PR)	Yes
Flow Control (FC)	Yes
Destination (DT)	Yes

*An infiltration facility must be chosen as the facility type to meet destination requirements

Site Data-Post Development

Total Square Footage Impervious Area=	2534	sqft	**Total Square Footage Pervious Area=**	0	sqft
Impervious Area CN=	98		**Pervious Area CN=**	85	
Total Square Footage of Drainage Area=	2534	sft	**Time of Concentration Post Development=**	5	min
Weighted Average CN=	98				

Site Data-Pre Development (Data in this section is only used if Flow Control is required)

Pre-Development CN=	98		**Time of Concentration Pre-Development=**	5	min

Soil Data

Tested Soil Infiltration Rate=	10	in/hr (See Note 4)	**Destination Design=**	5	in/hr
Design Soil Infiltration Rate=	4	in/hr	**Soil Infiltration Rate**		

Design Storms Used For Calculations

Requirement	Rainfall Depth		Design Storm
Pollution Reduction	0.8	inches	Water Quality
Flow Control	5.1	inches	Flood Control
Destination	5.1	inches	Flood Control

Facility Data

Facility Type=	Infiltration Stormwater Planter		**Facility Surface Area=**	254.1	sqft
Surface Width=	7.7	ft	**Facility Surface Perimeter=**	81.4	ft
Surface Length=	33	ft	**Facility Bottom Area=**	141	sqft
Facility Side Slopes=	3	to 1	**Facility Bottom Perimeter=**	69	ft
Max. Ponding Depth in Stormwater Facility=	6	in	**Basin Volume=**	101.0	cf
Depth of Growing Medium (Soil)=	18	in	**Ratio of Facility Area to Impervious Area=**	0.100	

Pollution Reduction-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.010	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	132	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	0.0	in			
Drawdown Time=	0.2	hours			

Yes **Facility Sizing Meets Pollution Reduction Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

Flow Control-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.078	cfs	Peak Facility Overflow Rate=	0.020	cfs
Total Runoff Volume to Stormwater Facility =	1016	cf	Total Overflow Volume=	25	cf
Max. Depth of Stormwater in Facility=	6.0	in	Peak Off-Site Flow Rate Filtration Facility Underdrain=	N\A	cfs
Drawdown Time=	0.2	hours			

Pre-Development Runoff Data

Peak Flow Rate =	0.078	cfs
Total Runoff Volume =	1018	cf

Yes **Facility Sizing Meets Flow Control Standards?**

YES **Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

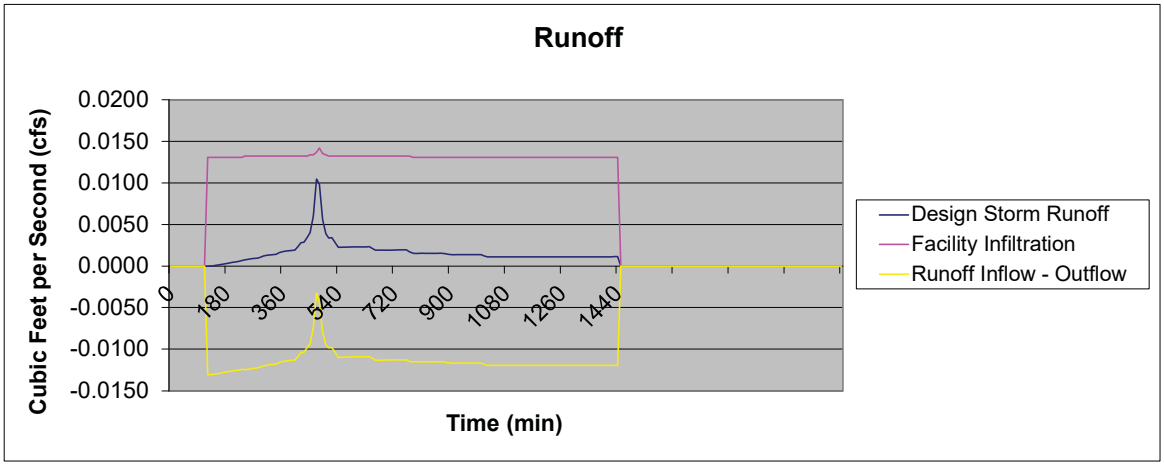
Destination-Calculation Results

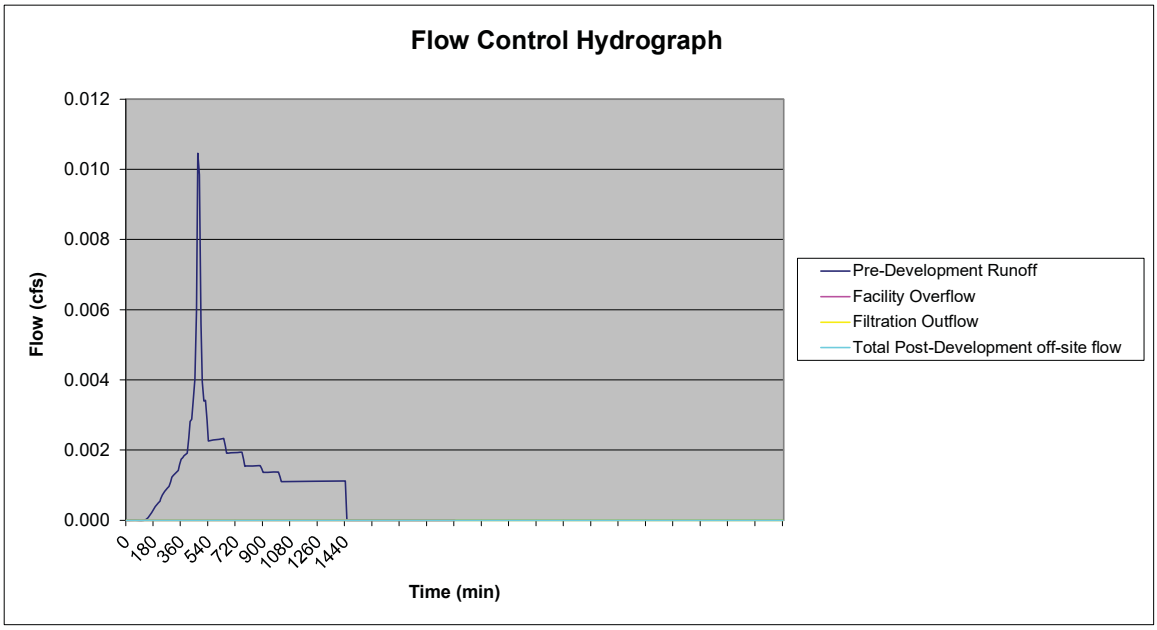
Peak Flow Rate to Stormwater Facility =	0.078	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	1016	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	5.8	in			
Drawdown Time=	0.2	hours			

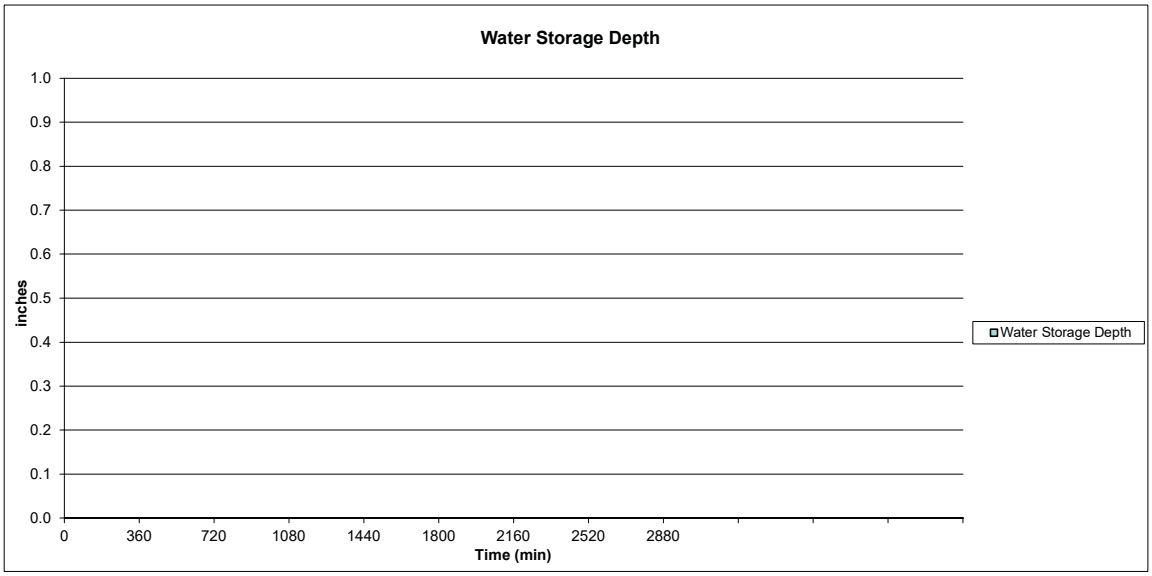
Yes **Facility Sizing Meets Destination Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 30 hour Drawdown Time?**

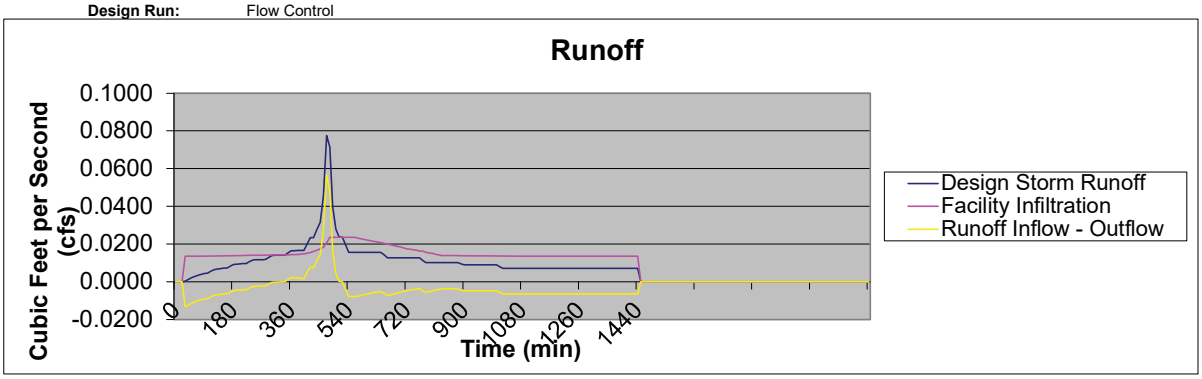
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3C
Design Run: Pollution Reduction

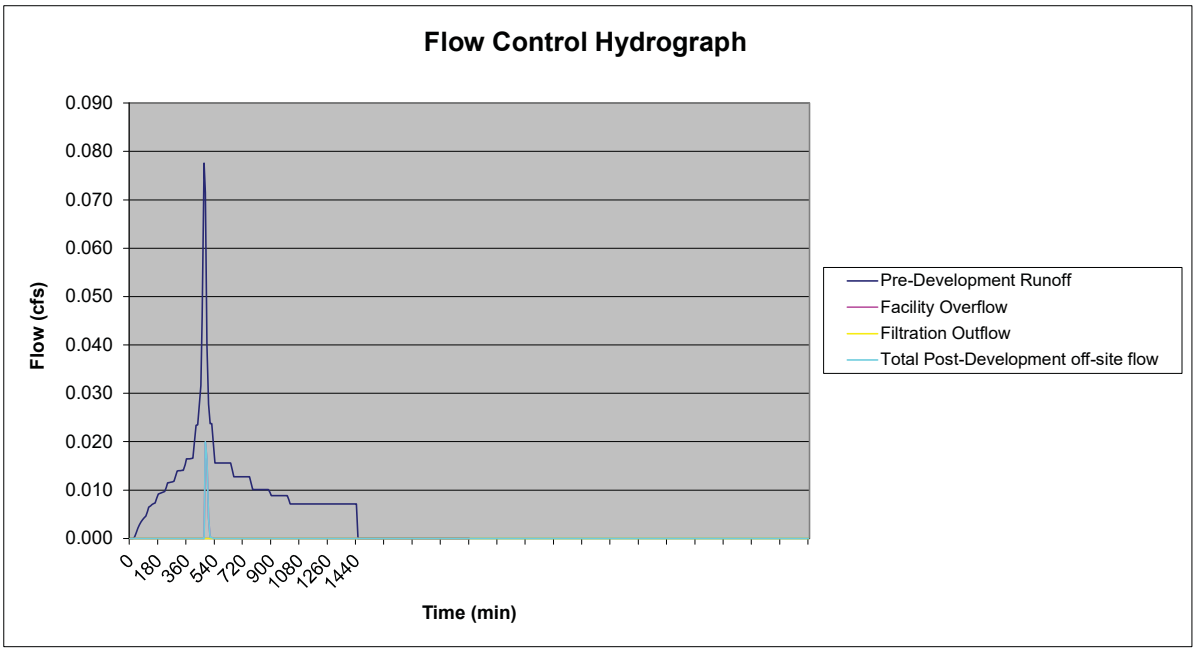


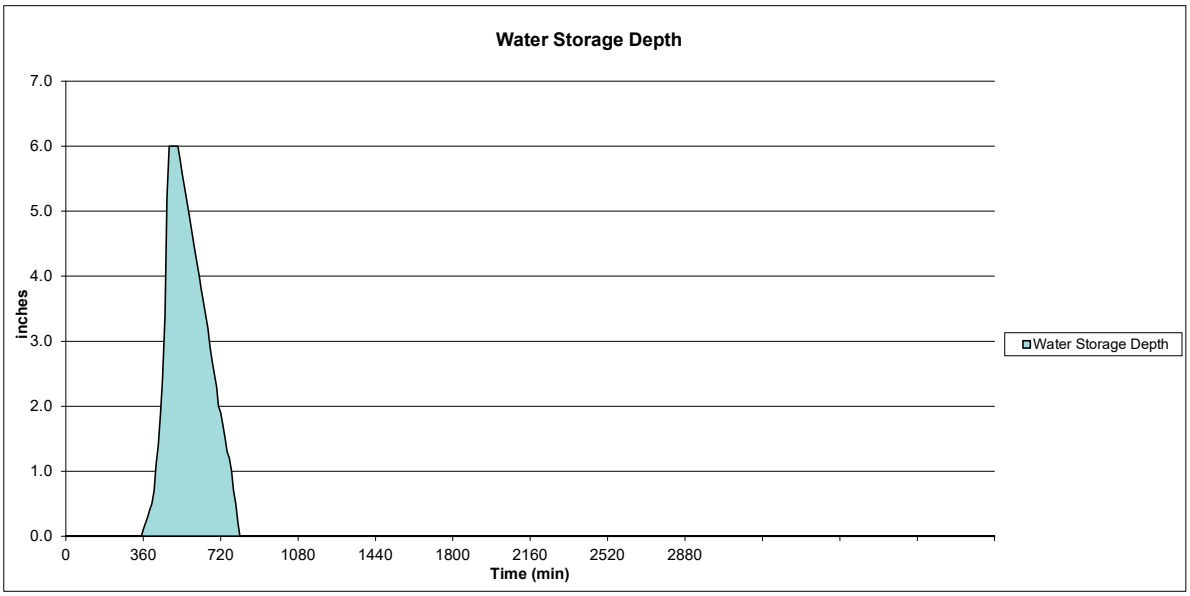




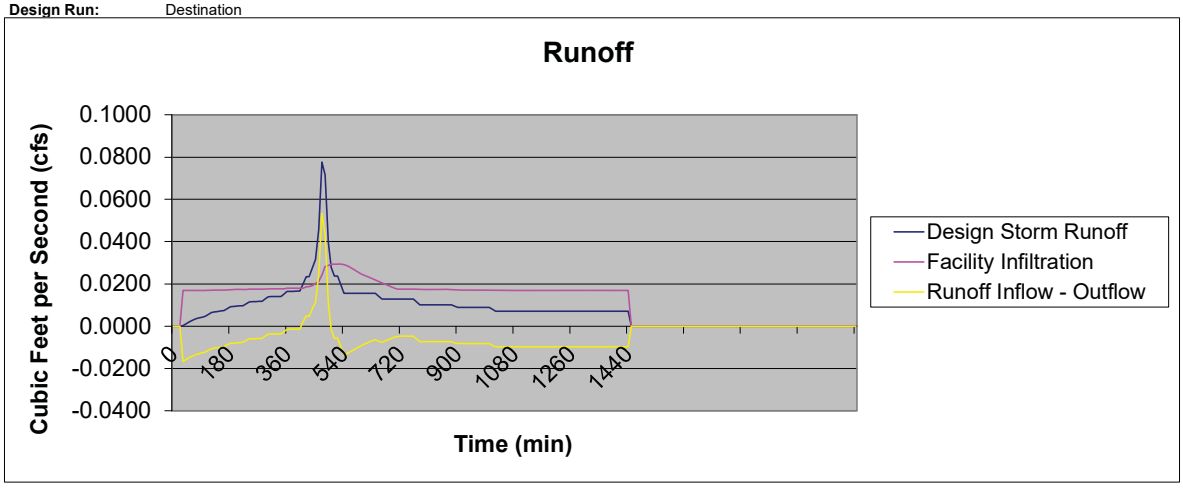
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3C
Design Run: Flow Control

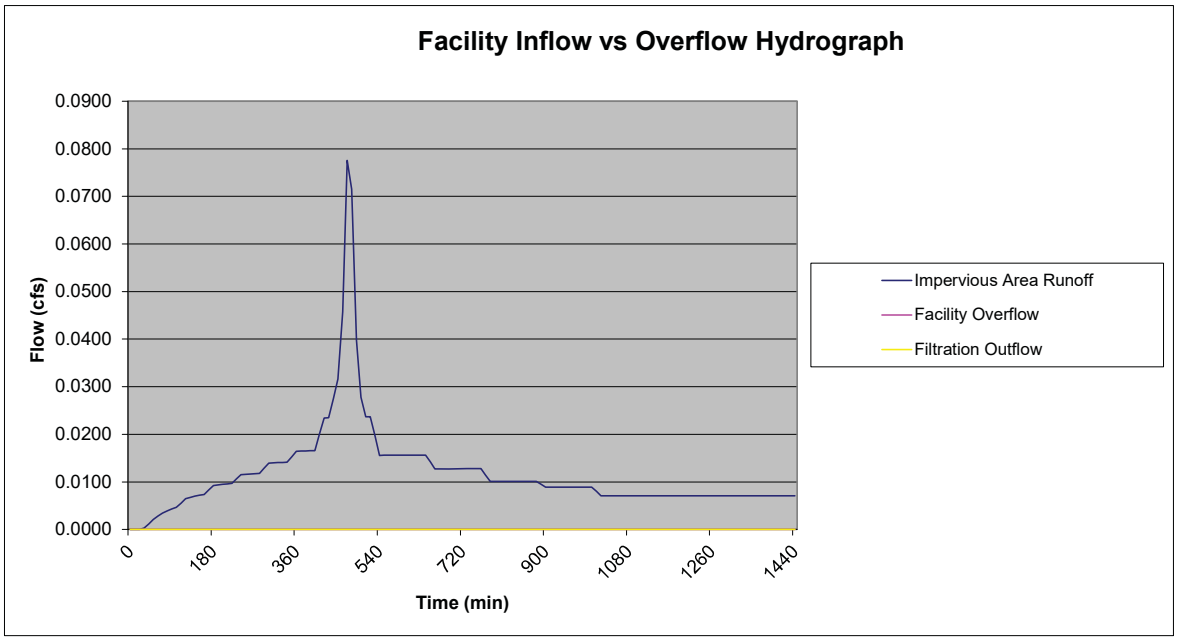


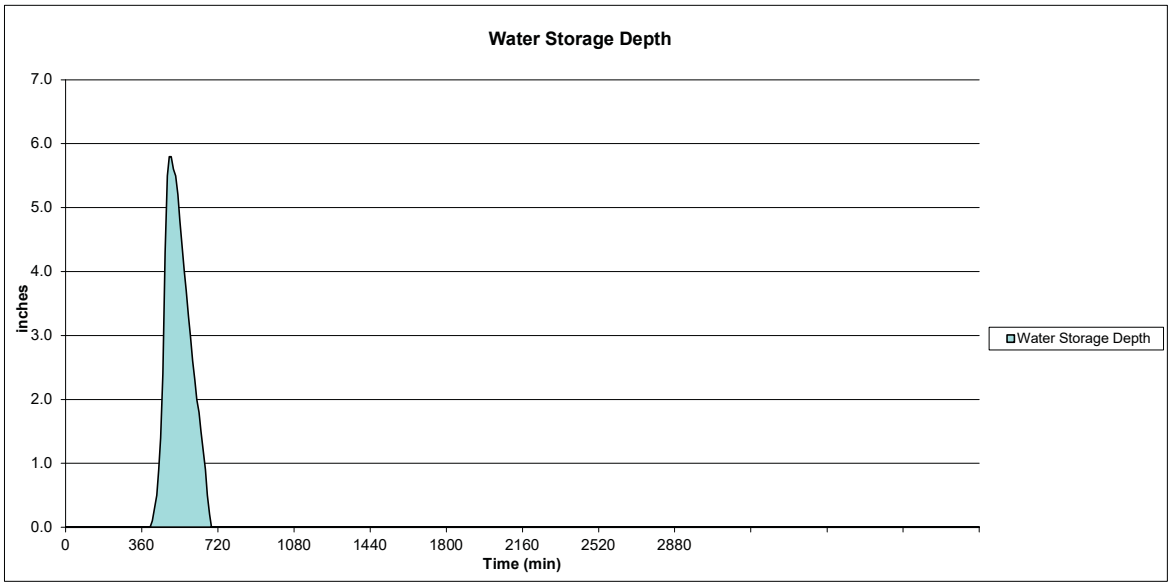




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3C
Design Run: Destination







Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet
24 Hour Storm, NRCS Type 1A Rainfall Distribution
City of Eugene

Version 2.1

Project Information

Project Name:	Three Mile Prairie	**Date:**	12/30/2020
Project Address:	18-12-15-00-00200	**Permit Number:**	NA
	Florence, OR	**Catchment ID:**	3D
Designer:	Clint Beecroft		
Company:	EGR & Associates		

Instructions:

1. Complete this form for each drainage catchment in the project site that is to be sized per the Presumptive Approach.
2. Provide a distinctive Catchment ID for each facility coordinated with the site basin map to correlate the appropriate calculations with the facility.
3. The maximum drainage catchment to be modeled per the Presumptive Approach is 1 acre (43,560 SF)
4. For infiltration facilities in Class A or B soils where no infiltration testing has been perfromed use an infiltration rate of 0.5 in/hr. For all facilities use a maximum soil infiltration rate of 2.5 in/hr for topsoil/growing medium.

Design Requirements:

Choose "Yes" from the dropdown boxes below next to the design standards requirements for this facility.

Pollution Reduction (PR)	Yes
Flow Control (FC)	Yes
Destination (DT)	Yes

*An infiltration facility must be chosen as the facility type to meet destination requirements

Site Data-Post Development

Total Square Footage Impervious Area=	2534	sqft	**Total Square Footage Pervious Area=**	0	sqft
Impervious Area CN=	98		**Pervious Area CN=**	85	
Total Square Footage of Drainage Area=	2534	sft	**Time of Concentration Post Development=**	5	min
Weighted Average CN=	98				

Site Data-Pre Development (Data in this section is only used if Flow Control is required)

Pre-Development CN=	98		**Time of Concentration Pre-Development=**	5	min

Soil Data

Tested Soil Infiltration Rate=	10	in/hr (See Note 4)	**Destination Design=**	5	in/hr
Design Soil Infiltration Rate=	4	in/hr	**Soil Infiltration Rate**		

Design Storms Used For Calculations

Requirement	Rainfall Depth		Design Storm
Pollution Reduction	0.8	inches	Water Quality
Flow Control	5.1	inches	Flood Control
Destination	5.1	inches	Flood Control

Facility Data

Facility Type=	Infiltration Stormwater Planter		**Facility Surface Area=**	254.1	sqft
Surface Width=	7.7	ft	**Facility Surface Perimeter=**	81.4	ft
Surface Length=	33	ft	**Facility Bottom Area=**	141	sqft
Facility Side Slopes=	3	to 1	**Facility Bottom Perimeter=**	69	ft
Max. Ponding Depth in Stormwater Facility=	6	in	**Basin Volume=**	101.0	cf
Depth of Growing Medium (Soil)=	18	in	**Ratio of Facility Area to Impervious Area=**	0.100	

Pollution Reduction-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.010	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	132	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	0.0	in			
Drawdown Time=	0.2	hours			

Yes **Facility Sizing Meets Pollution Reduction Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

Flow Control-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.078	cfs	Peak Facility Overflow Rate=	0.020	cfs
Total Runoff Volume to Stormwater Facility =	1016	cf	Total Overflow Volume=	25	cf
Max. Depth of Stormwater in Facility=	6.0	in	Peak Off-Site Flow Rate Filtration Facility Underdrain=	N\A	cfs
Drawdown Time=	0.2	hours			

Pre-Development Runoff Data

Peak Flow Rate =	0.078	cfs
Total Runoff Volume =	1018	cf

Yes **Facility Sizing Meets Flow Control Standards?**

YES **Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

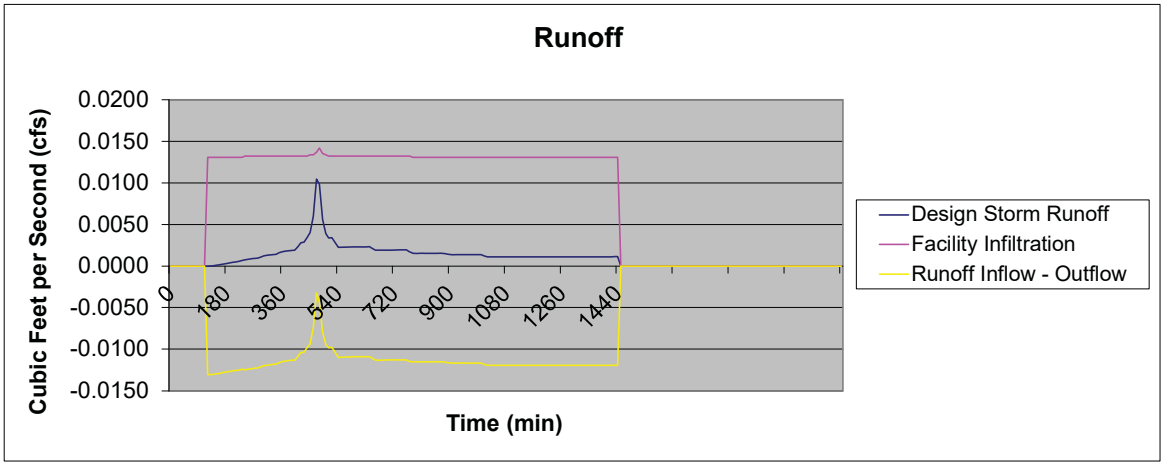
Destination-Calculation Results

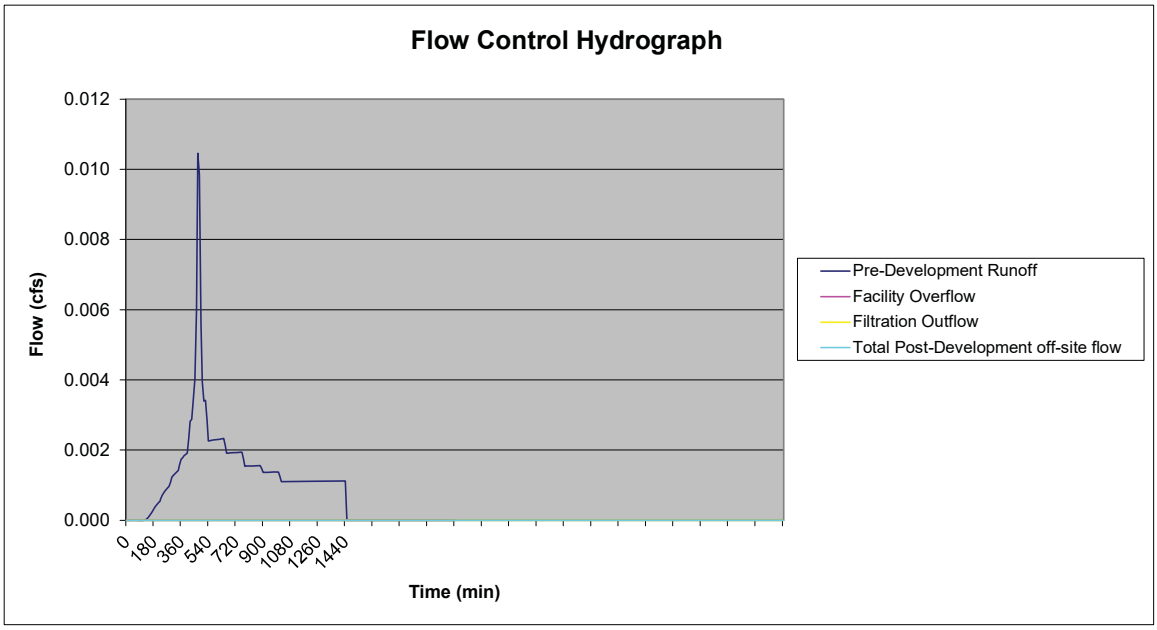
Peak Flow Rate to Stormwater Facility =	0.078	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	1016	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	5.8	in			
Drawdown Time=	0.2	hours			

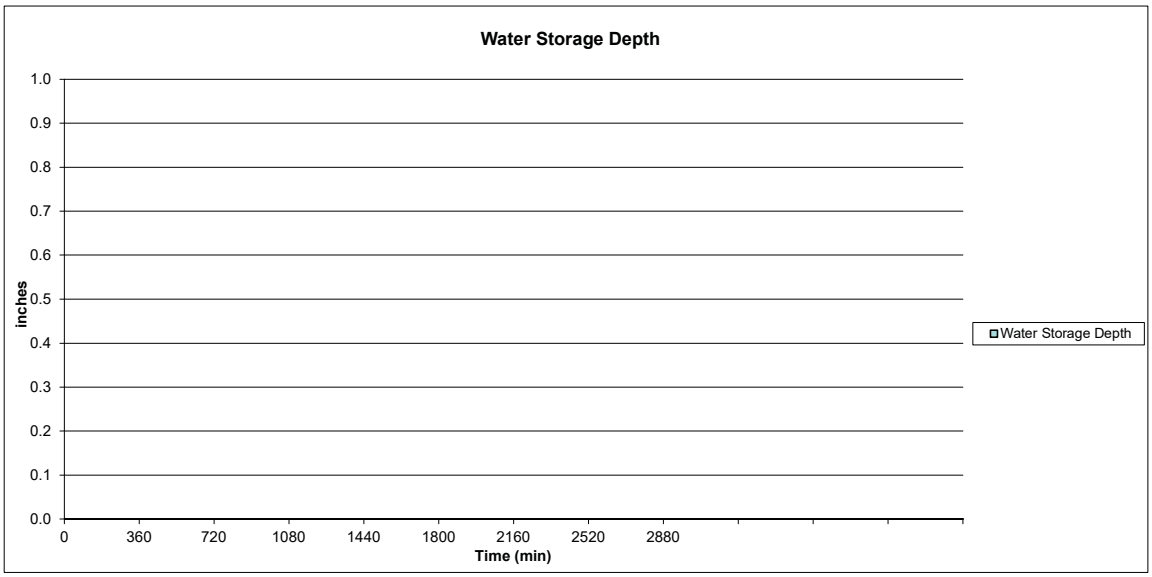
Yes **Facility Sizing Meets Destination Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 30 hour Drawdown Time?**

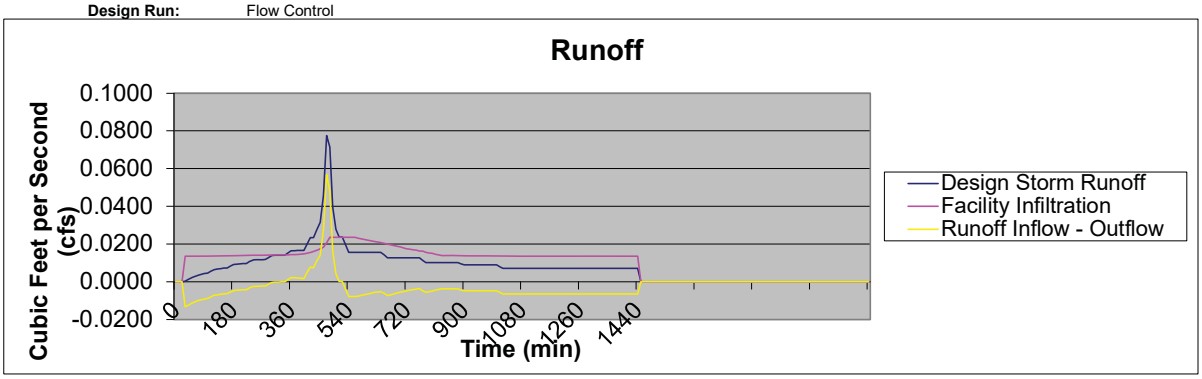
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3D
Design Run: Pollution Reduction

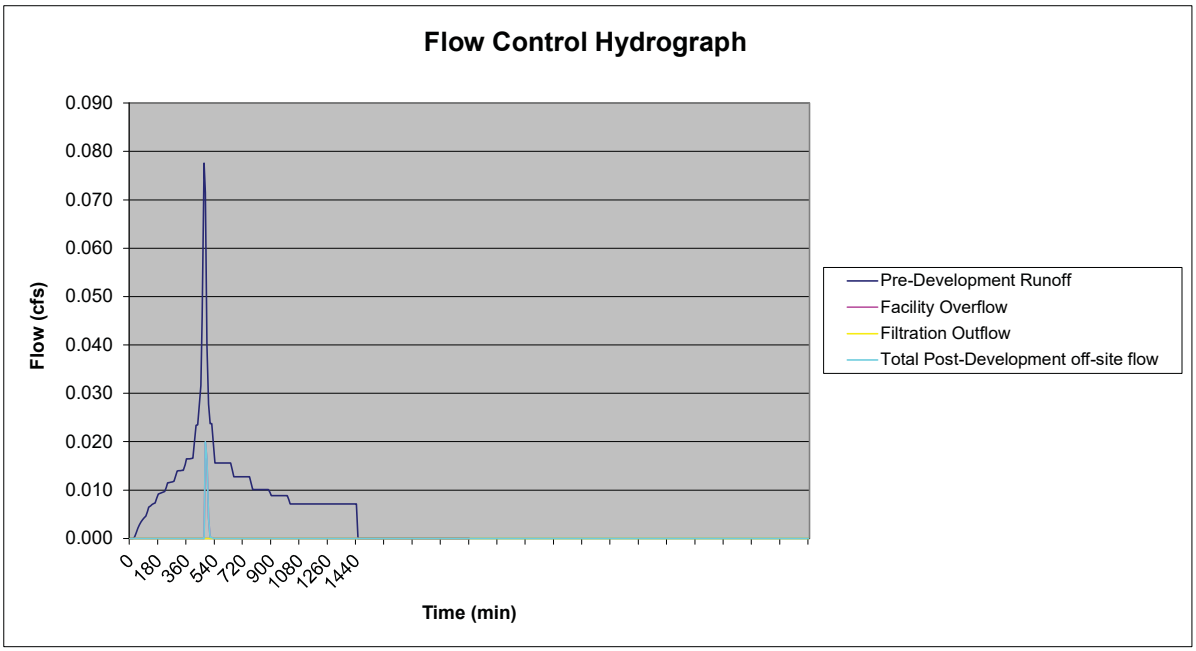


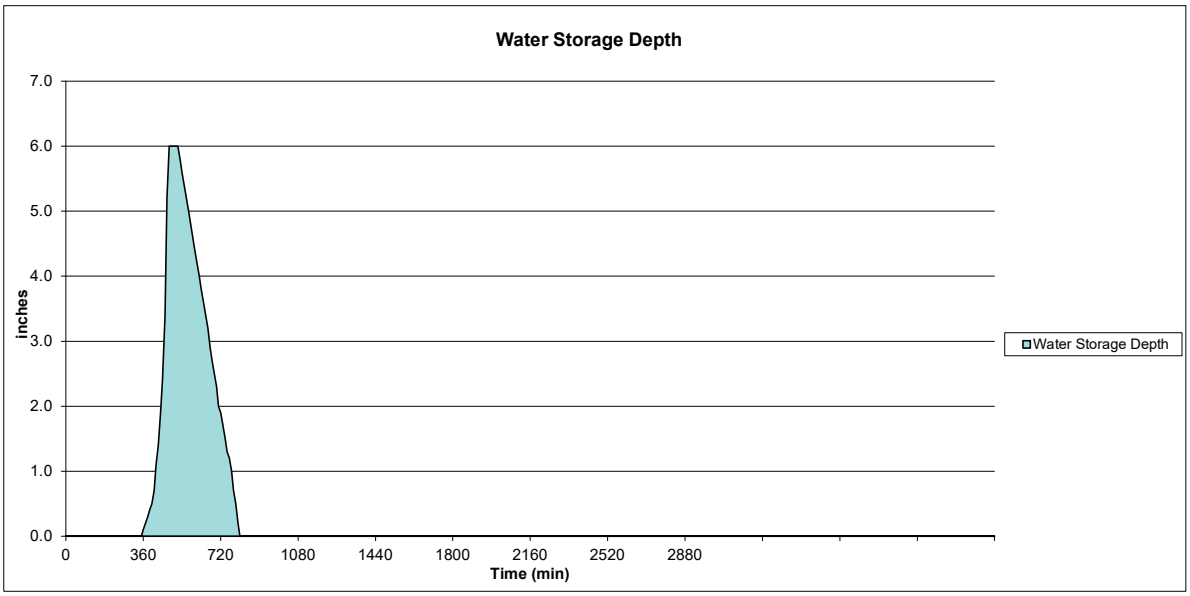




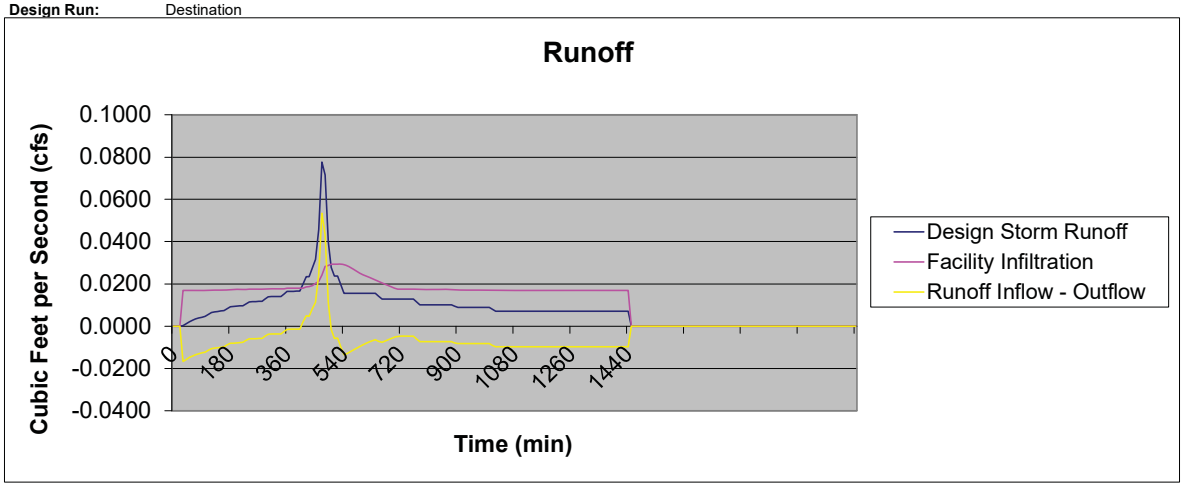
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3D
Design Run: Flow Control

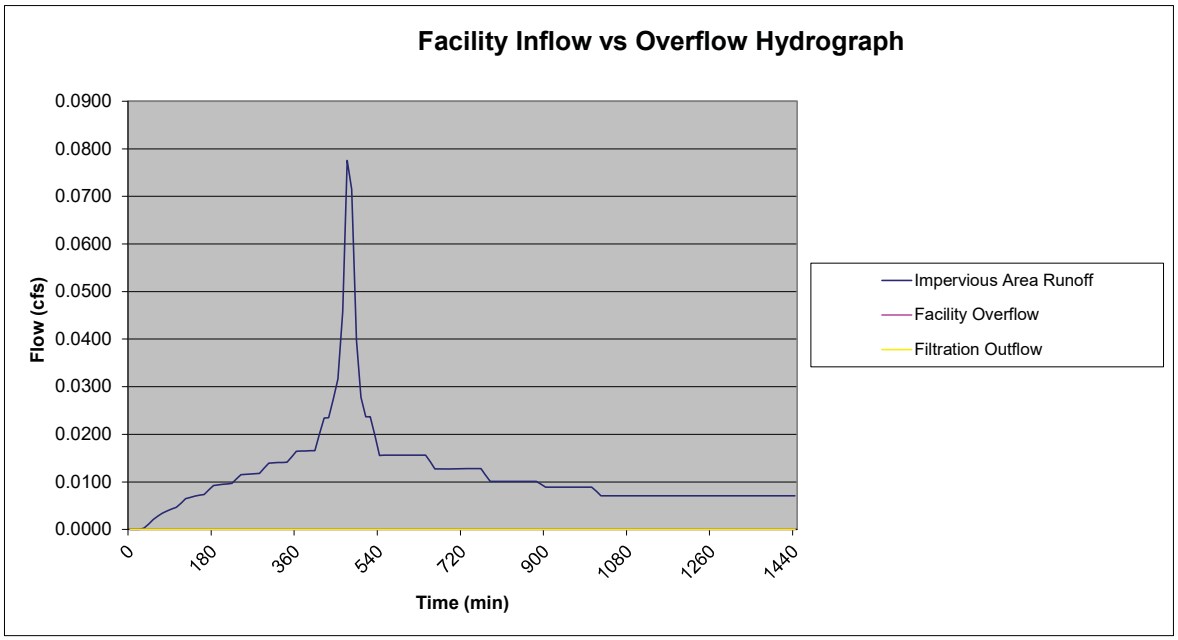


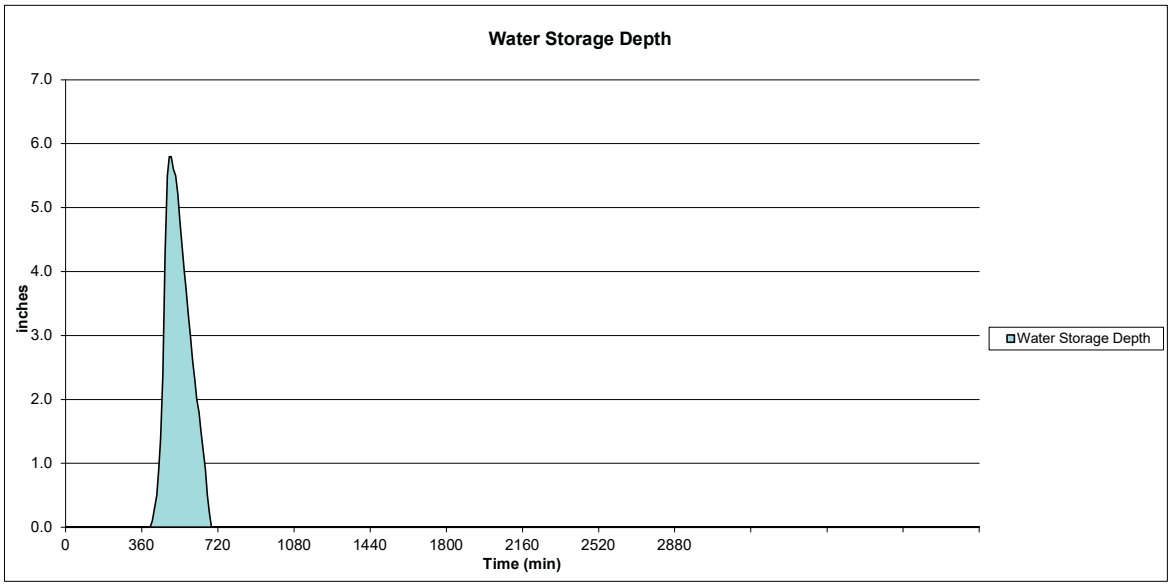




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3D
Design Run: Destination







Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet
24 Hour Storm, NRCS Type 1A Rainfall Distribution
City of Eugene

Version 2.1

Project Information

Project Name:	Three Mile Prairie	**Date:**	12/30/2020
Project Address:	18-12-15-00-00200	**Permit Number:**	NA
	Florence, OR	**Catchment ID:**	3E
Designer:	Clint Beecroft		
Company:	EGR & Associates		

Instructions:

1. Complete this form for each drainage catchment in the project site that is to be sized per the Presumptive Approach.
2. Provide a distinctive Catchment ID for each facility coordinated with the site basin map to correlate the appropriate calculations with the facility.
3. The maximum drainage catchment to be modeled per the Presumptive Approach is 1 acre (43,560 SF)
4. For infiltration facilities in Class A or B soils where no infiltration testing has been perfromed use an infiltration rate of 0.5 in/hr. For all facilities use a maximum soil infiltration rate of 2.5 in/hr for topsoil/growing medium.

Design Requirements:

Choose "Yes" from the dropdown boxes below next to the design standards requirements for this facility.

Pollution Reduction (PR)	Yes
Flow Control (FC)	Yes
Destination (DT)	Yes

*An infiltration facility must be chosen as the facility type to meet destination requirements

Site Data-Post Development

Total Square Footage Impervious Area=	2534	sqft	**Total Square Footage Pervious Area=**	0	sqft
Impervious Area CN=	98		**Pervious Area CN=**	85	
Total Square Footage of Drainage Area=	2534	sft	**Time of Concentration Post Development=**	5	min
Weighted Average CN=	98				

Site Data-Pre Development (Data in this section is only used if Flow Control is required)

Pre-Development CN=	98		**Time of Concentration Pre-Development=**	5	min

Soil Data

Tested Soil Infiltration Rate=	10	in/hr (See Note 4)	**Destination Design=**	5	in/hr
Design Soil Infiltration Rate=	4	in/hr	**Soil Infiltration Rate**		

Design Storms Used For Calculations

Requirement	Rainfall Depth		Design Storm
Pollution Reduction	0.8	inches	Water Quality
Flow Control	5.1	inches	Flood Control
Destination	5.1	inches	Flood Control

Facility Data

Facility Type=	Infiltration Stormwater Planter		**Facility Surface Area=**	254.1	sqft
Surface Width=	7.7	ft	**Facility Surface Perimeter=**	81.4	ft
Surface Length=	33	ft	**Facility Bottom Area=**	141	sqft
Facility Side Slopes=	3	to 1	**Facility Bottom Perimeter=**	69	ft
Max. Ponding Depth in Stormwater Facility=	6	in	**Basin Volume=**	101.0	cf
Depth of Growing Medium (Soil)=	18	in	**Ratio of Facility Area to Impervious Area=**	0.100	

Pollution Reduction-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.010	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	132	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	0.0	in			
Drawdown Time=	0.2	hours			

Yes **Facility Sizing Meets Pollution Reduction Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

Flow Control-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.078	cfs	Peak Facility Overflow Rate=	0.020	cfs
Total Runoff Volume to Stormwater Facility =	1016	cf	Total Overflow Volume=	25	cf
Max. Depth of Stormwater in Facility=	6.0	in	Peak Off-Site Flow Rate Filtration Facility Underdrain=	N\A	cfs
Drawdown Time=	0.2	hours			

Pre-Development Runoff Data

Peak Flow Rate =	0.078	cfs
Total Runoff Volume =	1018	cf

Yes **Facility Sizing Meets Flow Control Standards?**

YES **Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

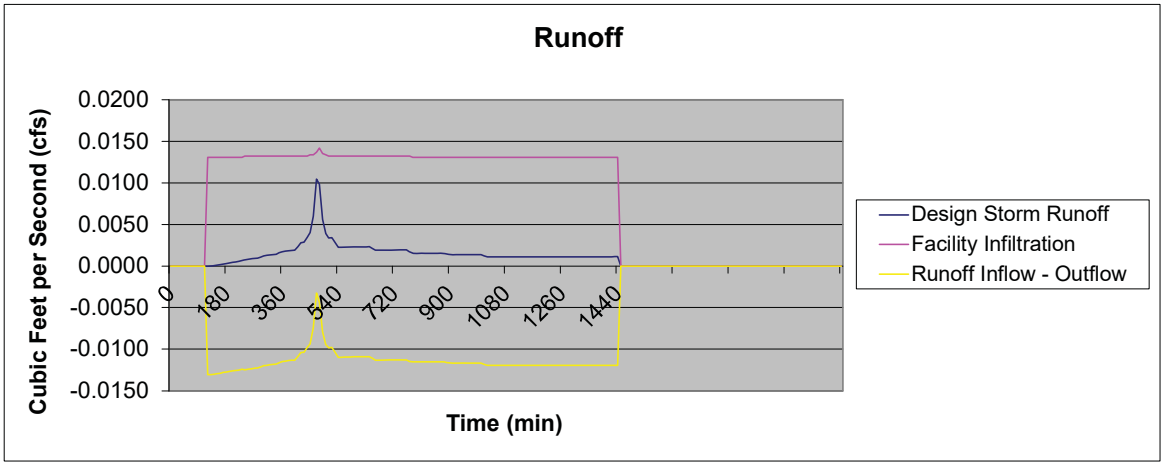
Destination-Calculation Results

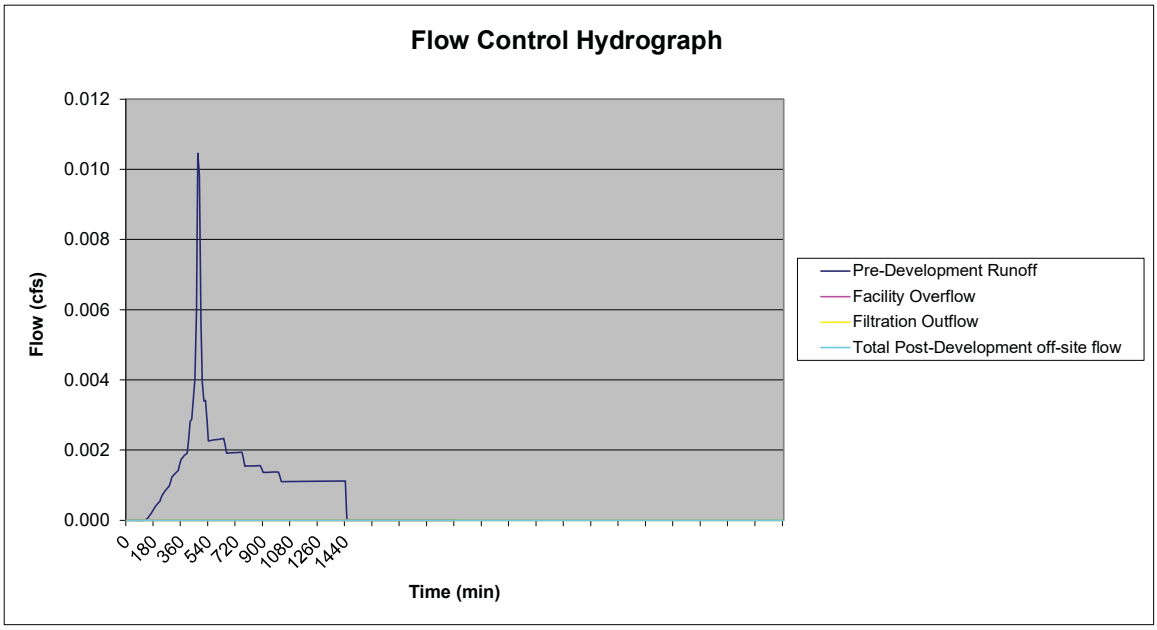
Peak Flow Rate to Stormwater Facility =	0.078	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	1016	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	5.8	in			
Drawdown Time=	0.2	hours			

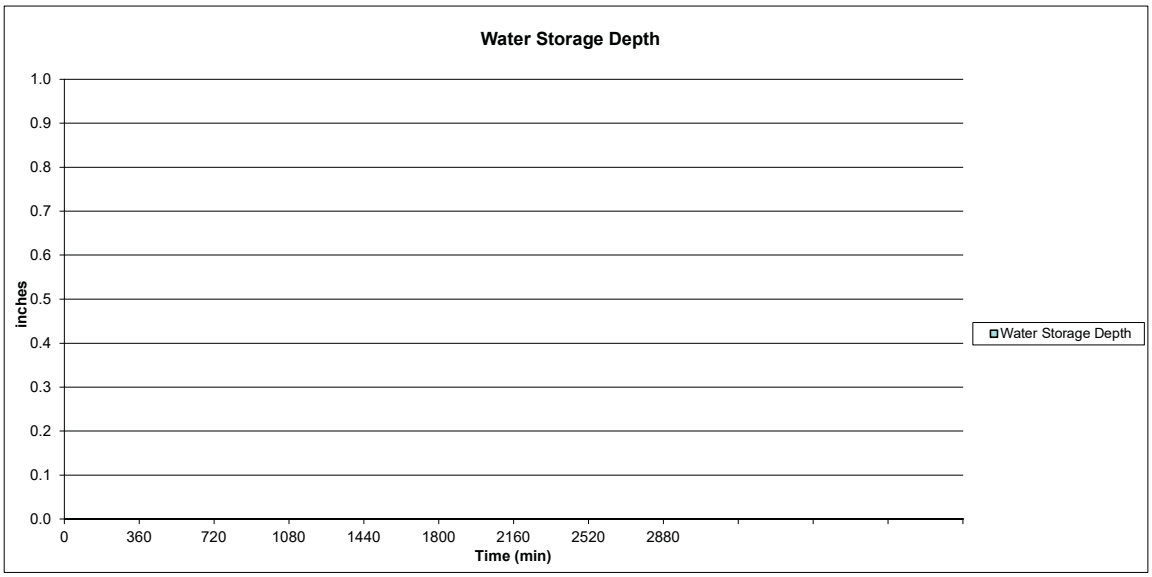
Yes **Facility Sizing Meets Destination Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 30 hour Drawdown Time?**

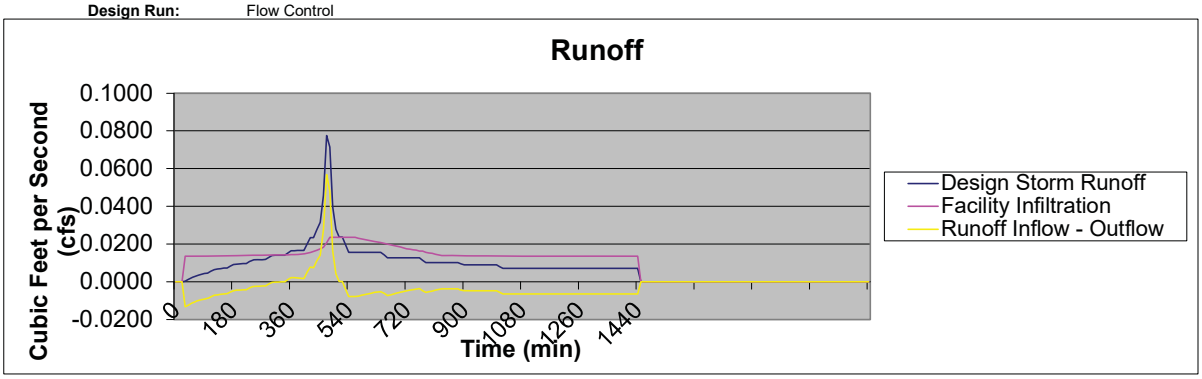
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3E
Design Run: Pollution Reduction

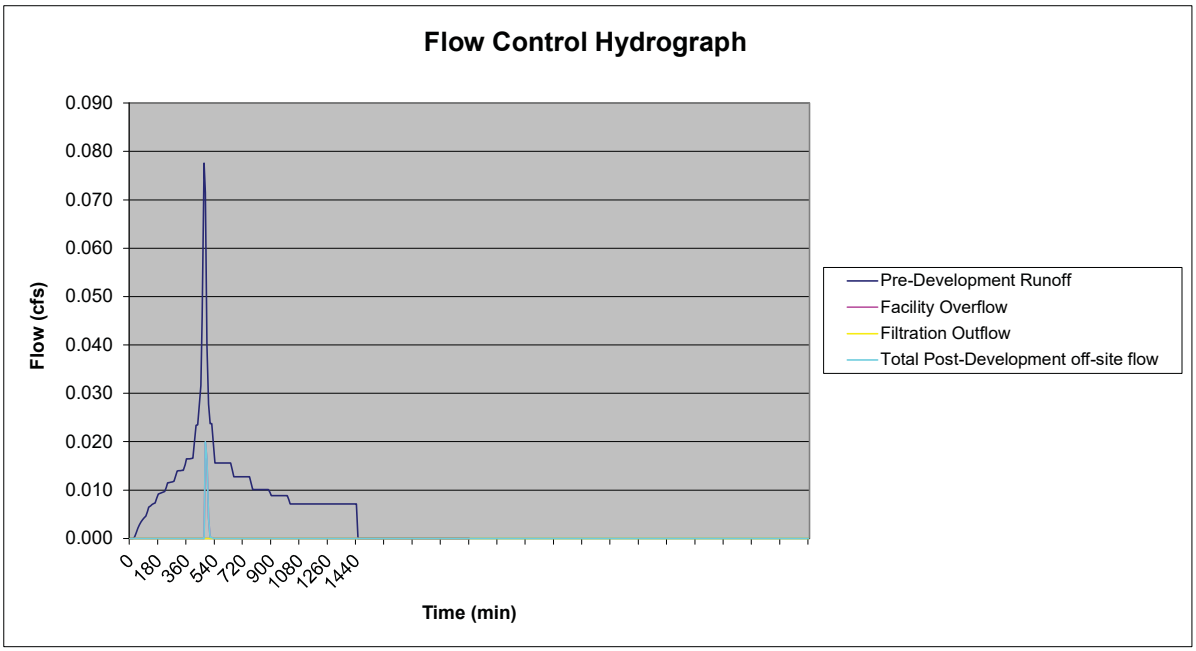


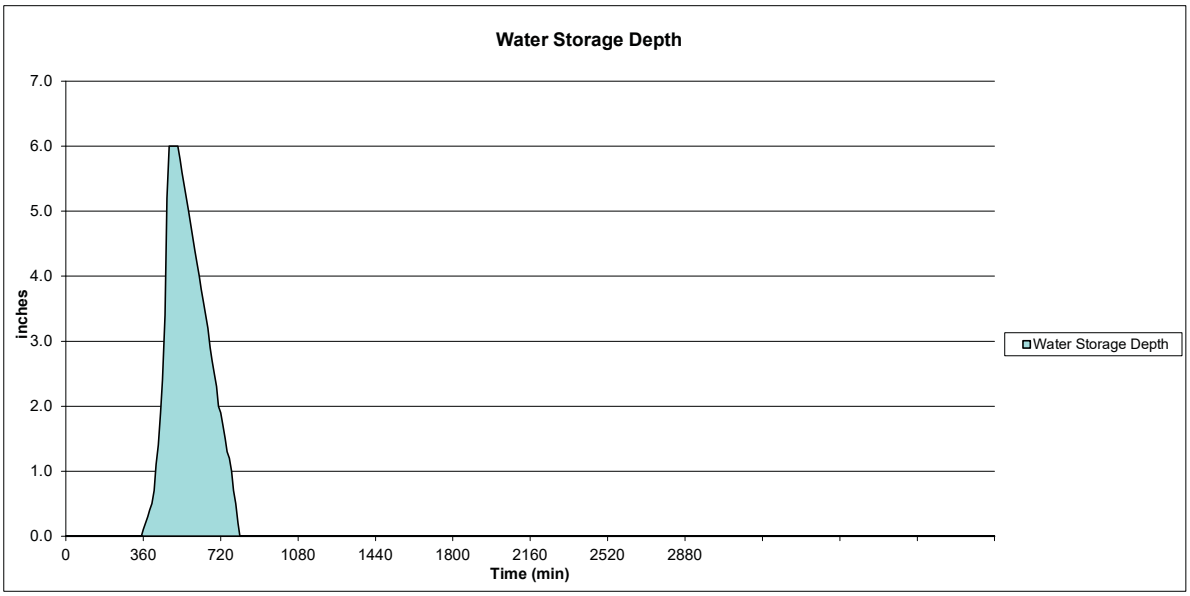




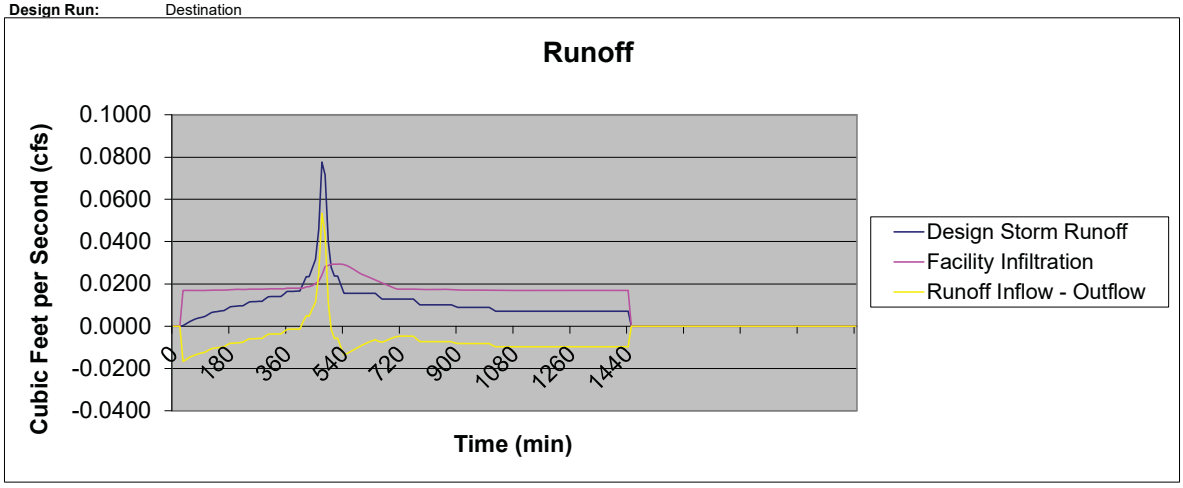
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3E
Design Run: Flow Control

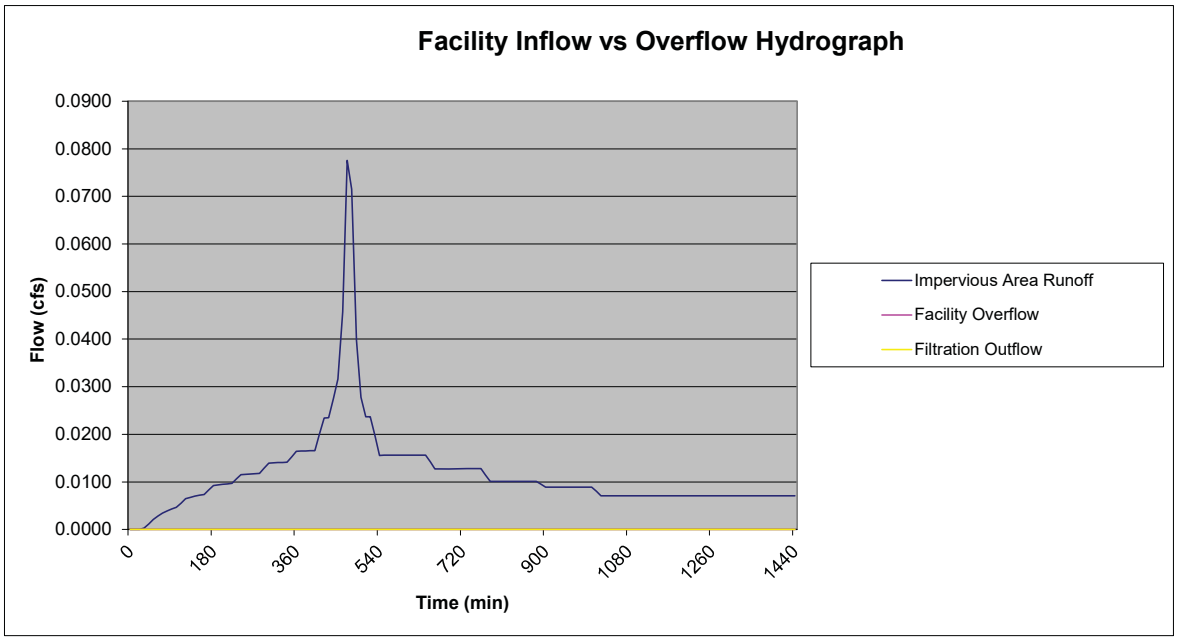


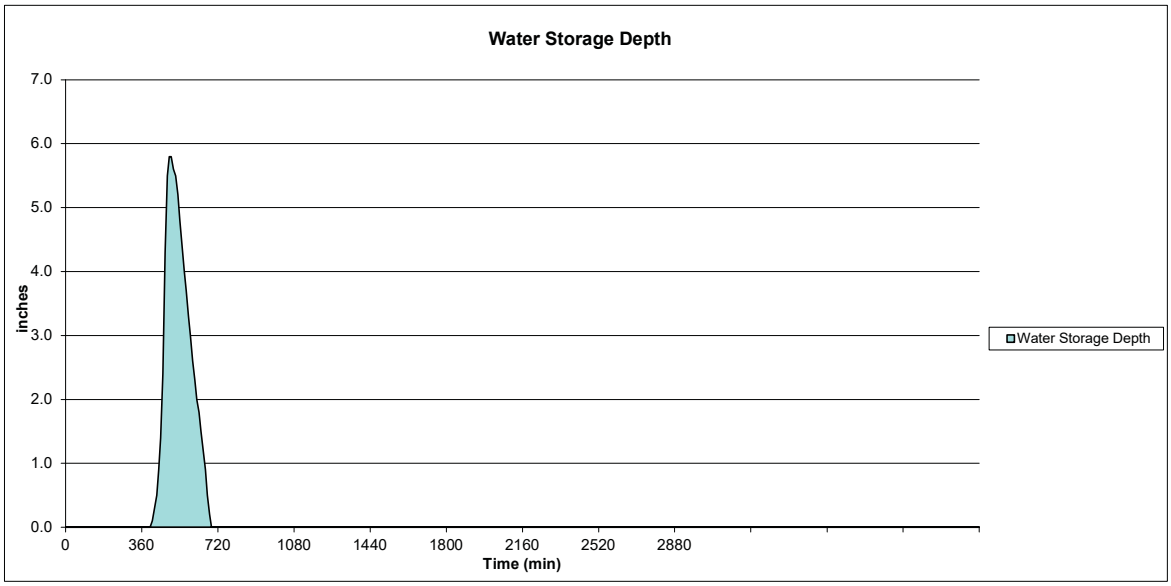




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3E
Design Run: Destination







Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet
24 Hour Storm, NRCS Type 1A Rainfall Distribution
City of Eugene

Version 2.1

Project Information

Project Name:	Three Mile Prairie	**Date:**	12/30/2020
Project Address:	18-12-15-00-00200	**Permit Number:**	NA
	Florence, OR	**Catchment ID:**	3F
Designer:	Clint Beecroft		
Company:	EGR & Associates		

Instructions:

1. Complete this form for each drainage catchment in the project site that is to be sized per the Presumptive Approach.
2. Provide a distinctive Catchment ID for each facility coordinated with the site basin map to correlate the appropriate calculations with the facility.
3. The maximum drainage catchment to be modeled per the Presumptive Approach is 1 acre (43,560 SF)
4. For infiltration facilities in Class A or B soils where no infiltration testing has been perfromed use an infiltration rate of 0.5 in/hr. For all facilities use a maximum soil infiltration rate of 2.5 in/hr for topsoil/growing medium.

Design Requirements:

Choose "Yes" from the dropdown boxes below next to the design standards requirements for this facility.

Pollution Reduction (PR)	Yes
Flow Control (FC)	Yes
Destination (DT)	Yes

*An infiltration facility must be chosen as the facility type to meet destination requirements

Site Data-Post Development

Total Square Footage Impervious Area=	2534	sqft	**Total Square Footage Pervious Area=**	0	sqft
Impervious Area CN=	98		**Pervious Area CN=**	85	
Total Square Footage of Drainage Area=	2534	sft	**Time of Concentration Post Development=**	5	min
Weighted Average CN=	98				

Site Data-Pre Development (Data in this section is only used if Flow Control is required)

Pre-Development CN=	98		**Time of Concentration Pre-Development=**	5	min

Soil Data

Tested Soil Infiltration Rate=	10	in/hr (See Note 4)	**Destination Design=**	5	in/hr
Design Soil Infiltration Rate=	4	in/hr	**Soil Infiltration Rate**		

Design Storms Used For Calculations

Requirement	Rainfall Depth		Design Storm
Pollution Reduction	0.8	inches	Water Quality
Flow Control	5.1	inches	Flood Control
Destination	5.1	inches	Flood Control

Facility Data

Facility Type=	Infiltration Stormwater Planter		**Facility Surface Area=**	254.1	sqft
Surface Width=	7.7	ft	**Facility Surface Perimeter=**	81.4	ft
Surface Length=	33	ft	**Facility Bottom Area=**	141	sqft
Facility Side Slopes=	3	to 1	**Facility Bottom Perimeter=**	69	ft
Max. Ponding Depth in Stormwater Facility=	6	in	**Basin Volume=**	101.0	cf
Depth of Growing Medium (Soil)=	18	in	**Ratio of Facility Area to Impervious Area=**	0.100	

Pollution Reduction-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.010	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	132	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	0.0	in			
Drawdown Time=	0.2	hours			

Yes **Facility Sizing Meets Pollution Reduction Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

Flow Control-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.078	cfs	Peak Facility Overflow Rate=	0.020	cfs
Total Runoff Volume to Stormwater Facility =	1016	cf	Total Overflow Volume=	25	cf
Max. Depth of Stormwater in Facility=	6.0	in	Peak Off-Site Flow Rate Filtration Facility Underdrain=	N\A	cfs
Drawdown Time=	0.2	hours			

Pre-Development Runoff Data

Peak Flow Rate =	0.078	cfs
Total Runoff Volume =	1018	cf

Yes **Facility Sizing Meets Flow Control Standards?**

YES **Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

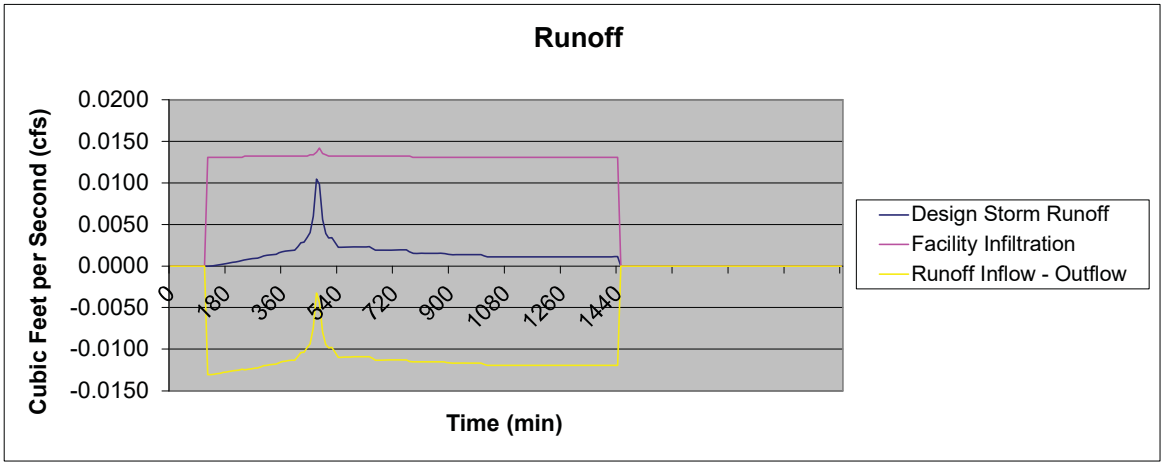
Destination-Calculation Results

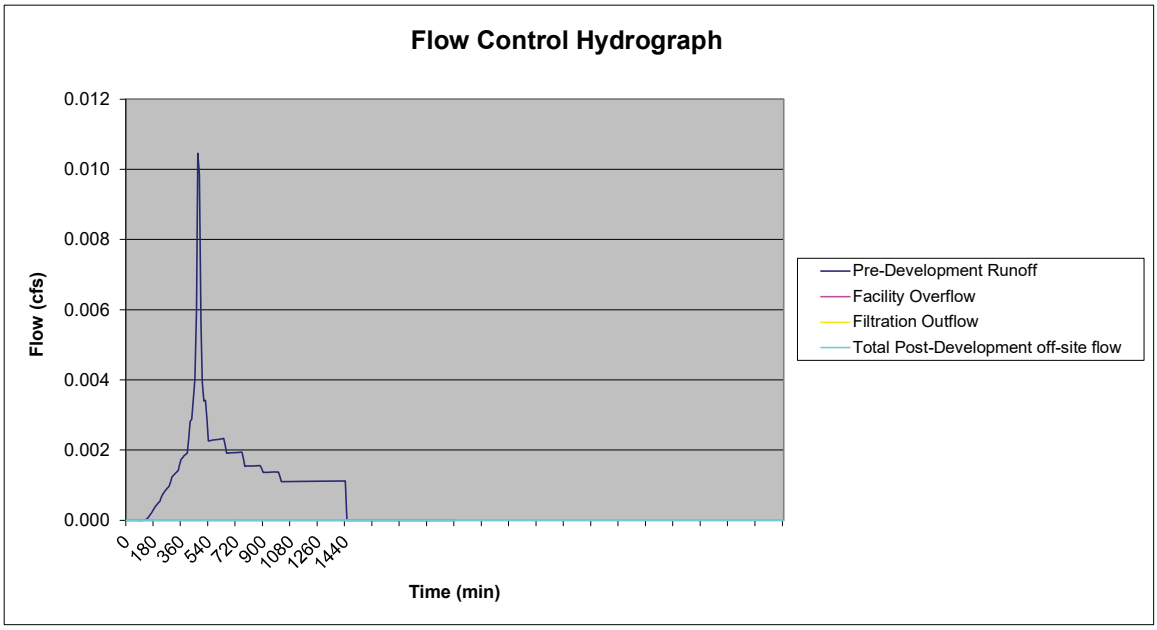
Peak Flow Rate to Stormwater Facility =	0.078	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	1016	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	5.8	in			
Drawdown Time=	0.2	hours			

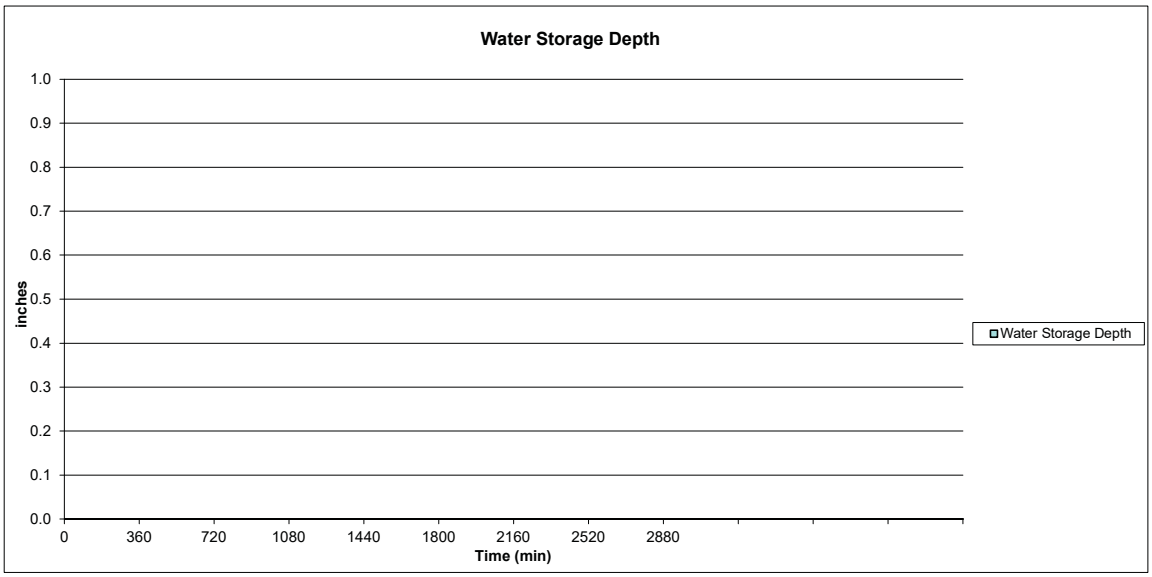
Yes **Facility Sizing Meets Destination Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 30 hour Drawdown Time?**

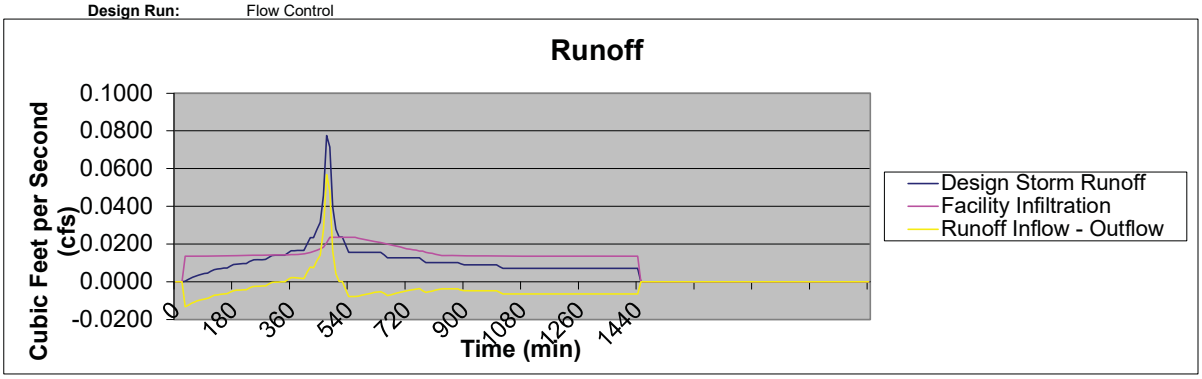
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3F
Design Run: Pollution Reduction

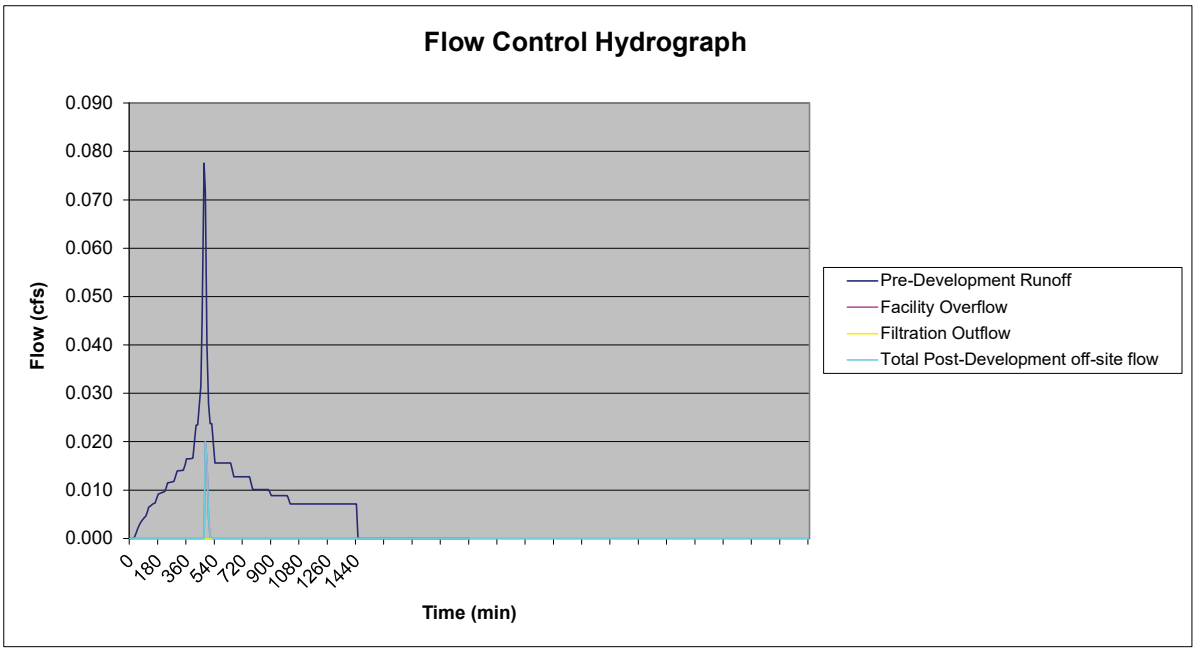


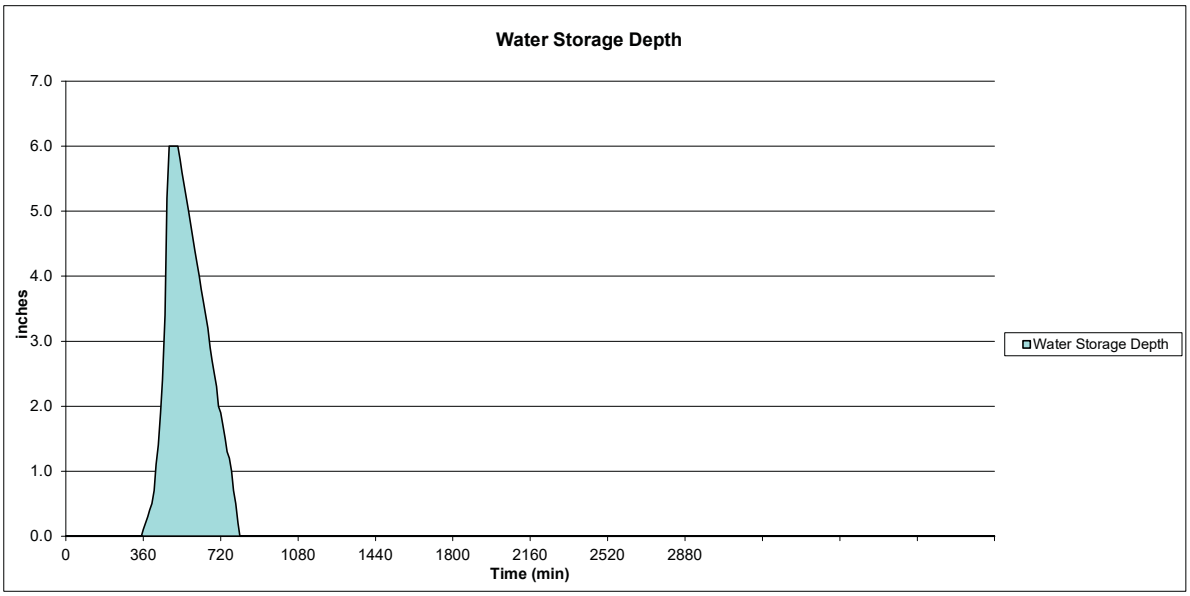




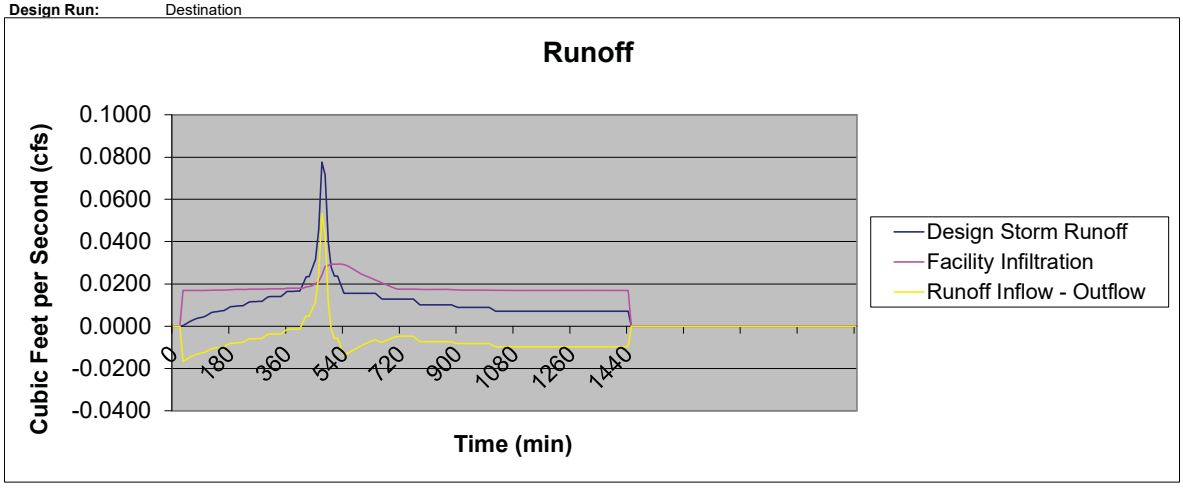
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3F
Design Run: Flow Control

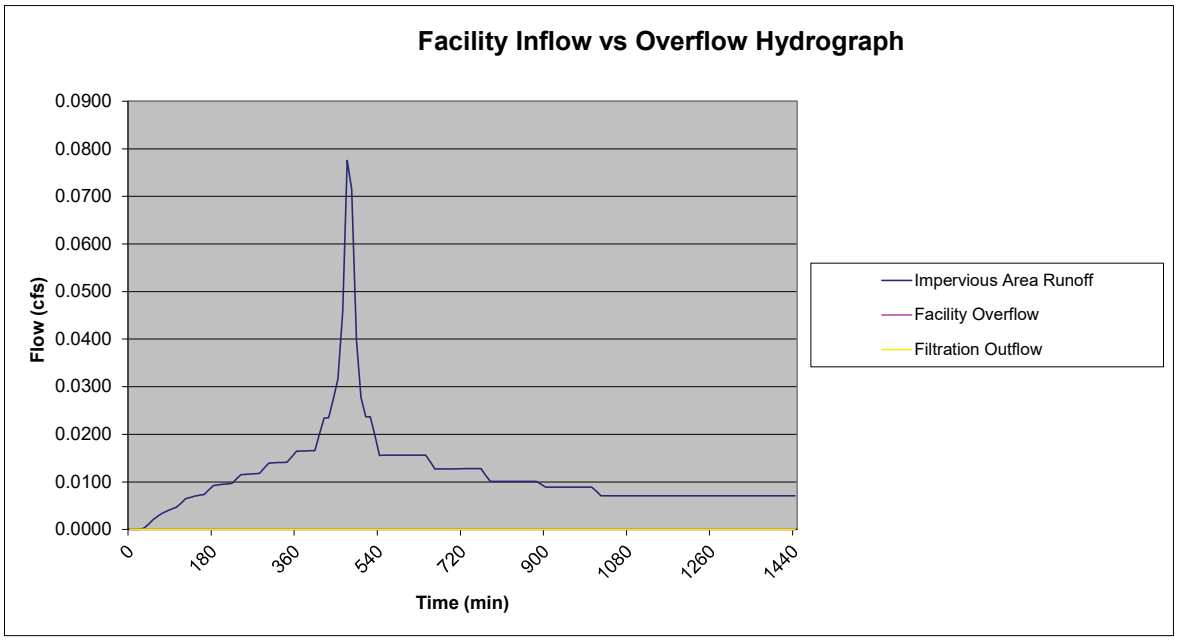


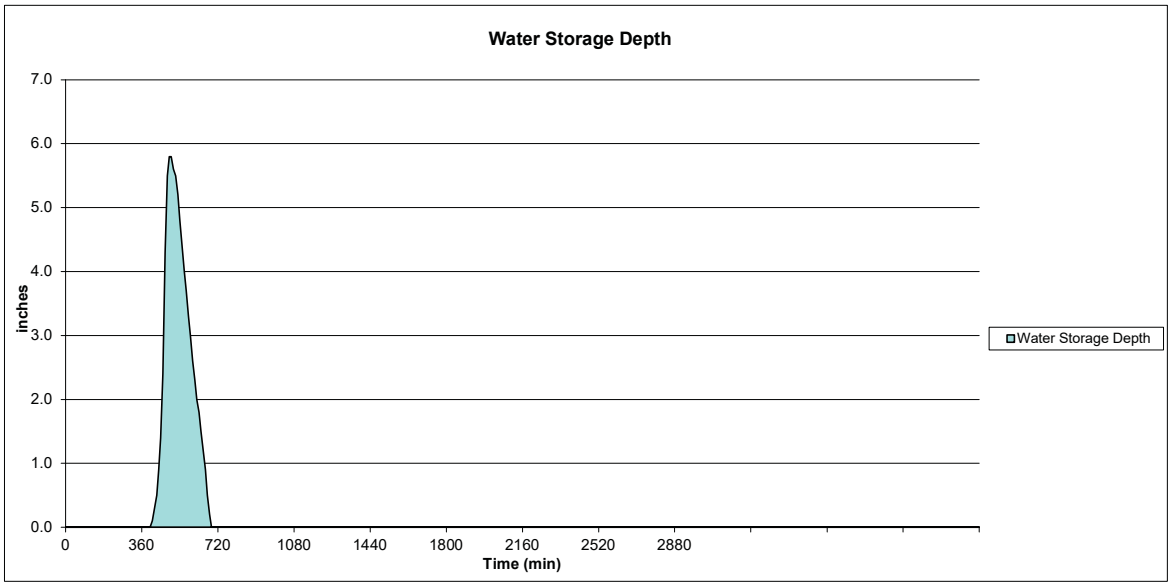




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3F
Design Run: Destination







Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet
24 Hour Storm, NRCS Type 1A Rainfall Distribution
City of Eugene

Version 2.1

Project Information

Project Name:	Three Mile Prairie	**Date:**	12/30/2020
Project Address:	18-12-15-00-00200	**Permit Number:**	NA
	Florence, OR	**Catchment ID:**	3G
Designer:	Clint Beecroft		
Company:	EGR & Associates		

Instructions:

1. Complete this form for each drainage catchment in the project site that is to be sized per the Presumptive Approach.
2. Provide a distinctive Catchment ID for each facility coordinated with the site basin map to correlate the appropriate calculations with the facility.
3. The maximum drainage catchment to be modeled per the Presumptive Approach is 1 acre (43,560 SF)
4. For infiltration facilities in Class A or B soils where no infiltration testing has been perfromed use an infiltration rate of 0.5 in/hr. For all facilities use a maximum soil infiltration rate of 2.5 in/hr for topsoil/growing medium.

Design Requirements:

Choose "Yes" from the dropdown boxes below next to the design standards requirements for this facility.

Pollution Reduction (PR)	Yes
Flow Control (FC)	Yes
Destination (DT)	Yes

*An infiltration facility must be chosen as the facility type to meet destination requirements

Site Data-Post Development

Total Square Footage Impervious Area=	2492	sqft	**Total Square Footage Pervious Area=**	0	sqft
Impervious Area CN=	98		**Pervious Area CN=**	85	
Total Square Footage of Drainage Area=	2492	sft	**Time of Concentration Post Development=**	5	min
Weighted Average CN=	98				

Site Data-Pre Development (Data in this section is only used if Flow Control is required)

Pre-Development CN=	98		**Time of Concentration Pre-Development=**	5	min

Soil Data

Tested Soil Infiltration Rate=	10	in/hr (See Note 4)	**Destination Design=**	5	in/hr
Design Soil Infiltration Rate=	4	in/hr	**Soil Infiltration Rate**		

Design Storms Used For Calculations

Requirement	Rainfall Depth		Design Storm
Pollution Reduction	0.8	inches	Water Quality
Flow Control	5.1	inches	Flood Control
Destination	5.1	inches	Flood Control

Facility Data

Facility Type=	Infiltration Stormwater Planter		**Facility Surface Area=**	254.1	sqft
Surface Width=	7.7	ft	**Facility Surface Perimeter=**	81.4	ft
Surface Length=	33	ft	**Facility Bottom Area=**	141	sqft
Facility Side Slopes=	3	to 1	**Facility Bottom Perimeter=**	69	ft
Max. Ponding Depth in Stormwater Facility=	6	in	**Basin Volume=**	101.0	cf
Depth of Growing Medium (Soil)=	18	in	**Ratio of Facility Area to Impervious Area=**	0.102	

Pollution Reduction-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.010	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	130	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	0.0	in			
Drawdown Time=	0.2	hours			

Yes **Facility Sizing Meets Pollution Reduction Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

Flow Control-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.076	cfs	Peak Facility Overflow Rate=	0.016	cfs
Total Runoff Volume to Stormwater Facility =	999	cf	Total Overflow Volume=	20	cf
Max. Depth of Stormwater in Facility=	6.0	in	Peak Off-Site Flow Rate Filtration Facility Underdrain=	N\A	cfs
Drawdown Time=	0.2	hours			

Pre-Development Runoff Data

Peak Flow Rate =	0.076	cfs
Total Runoff Volume =	1002	cf

Yes **Facility Sizing Meets Flow Control Standards?**

YES **Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

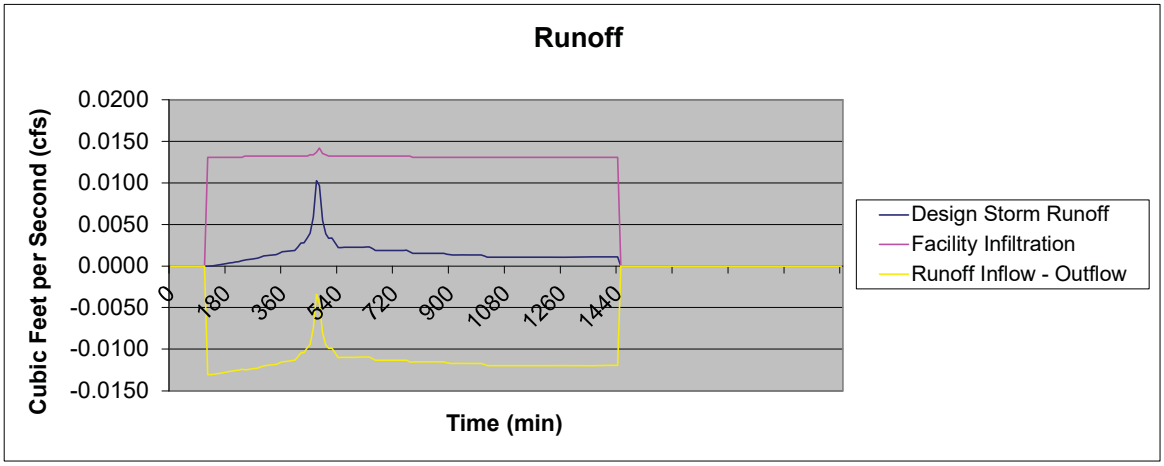
Destination-Calculation Results

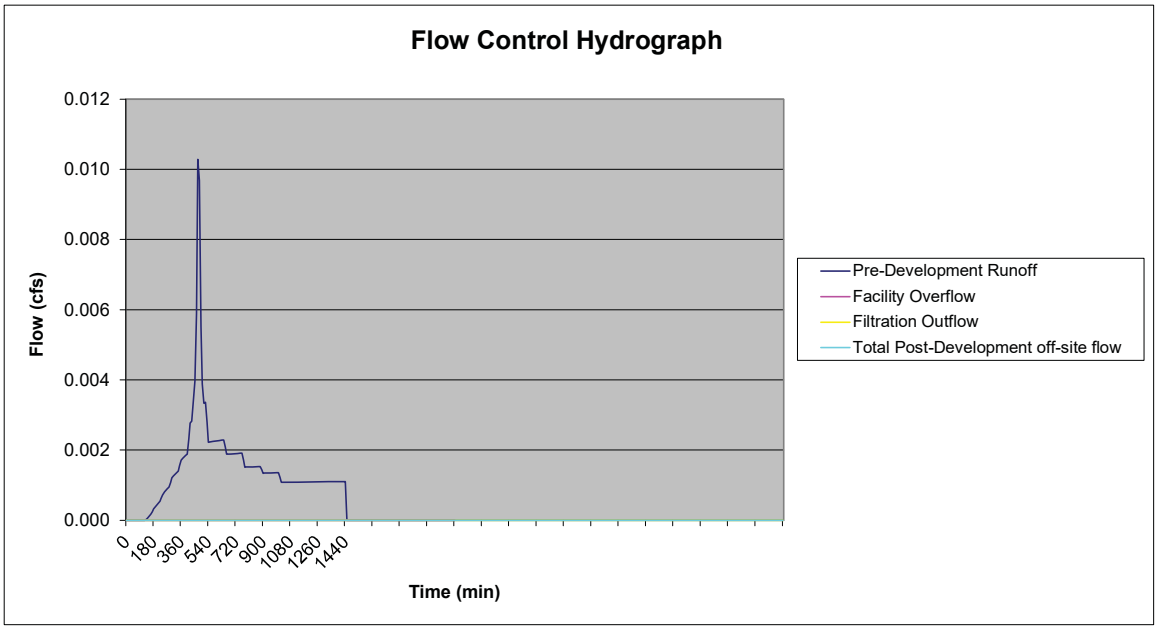
Peak Flow Rate to Stormwater Facility =	0.076	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	999	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	5.7	in			
Drawdown Time=	0.2	hours			

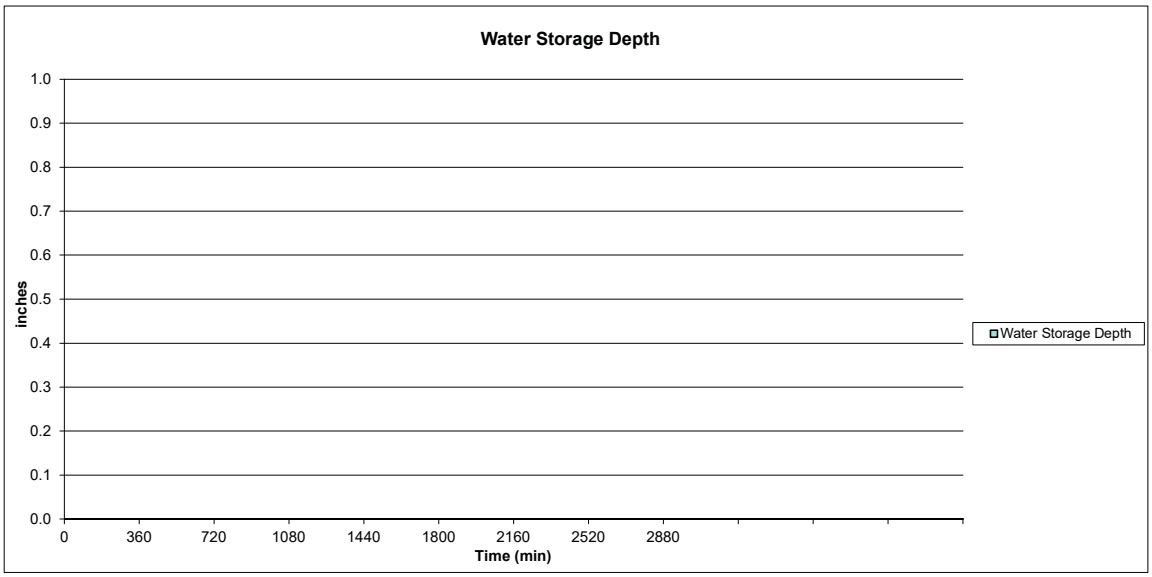
Yes **Facility Sizing Meets Destination Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 30 hour Drawdown Time?**

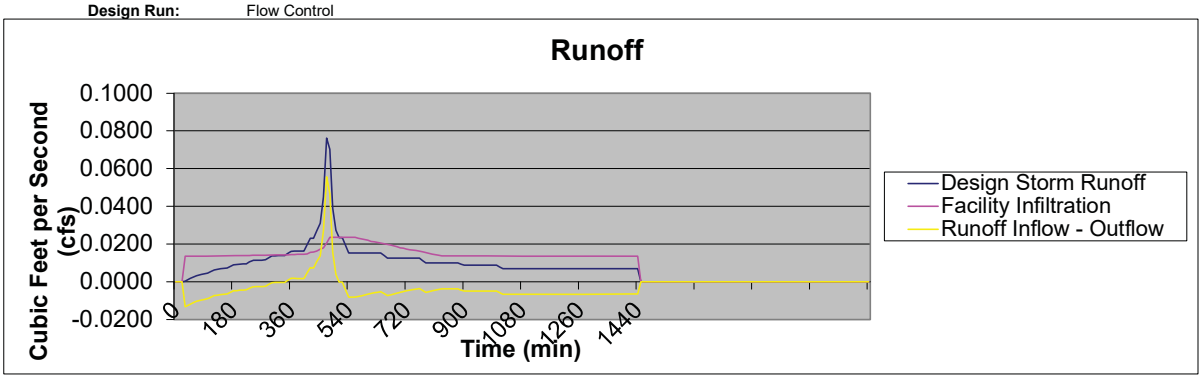
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3G
Design Run: Pollution Reduction

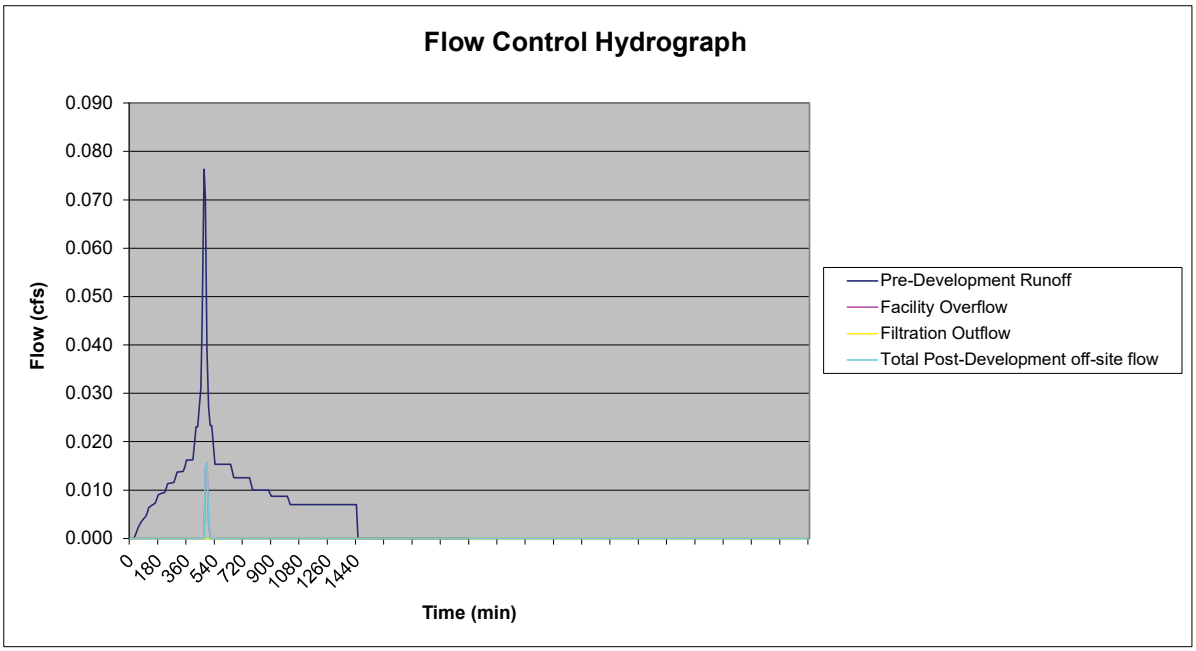


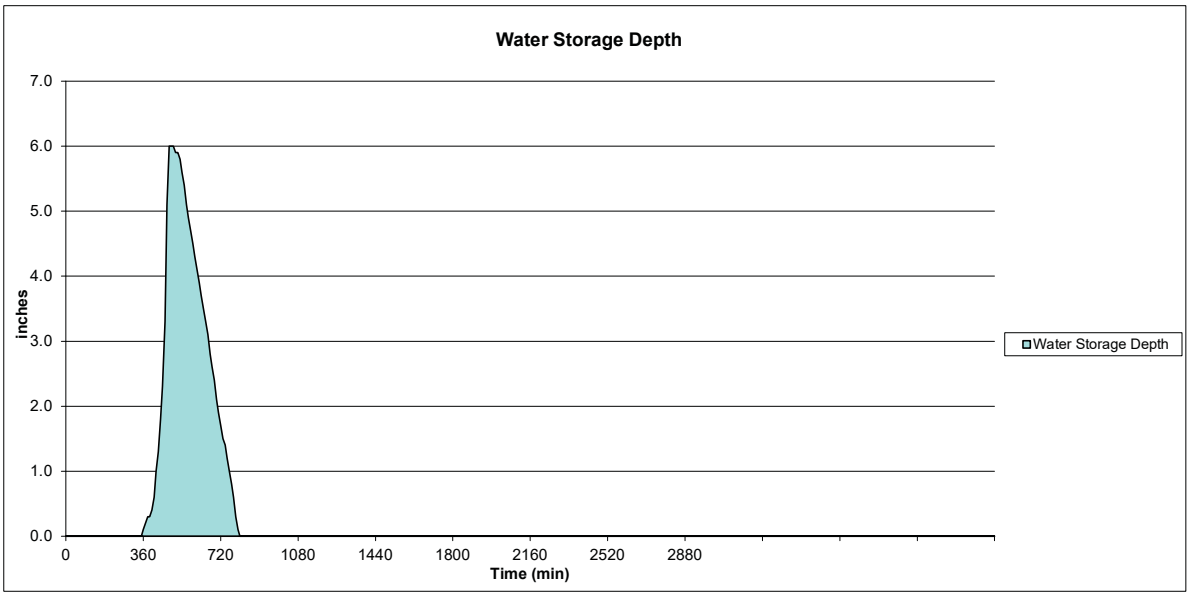




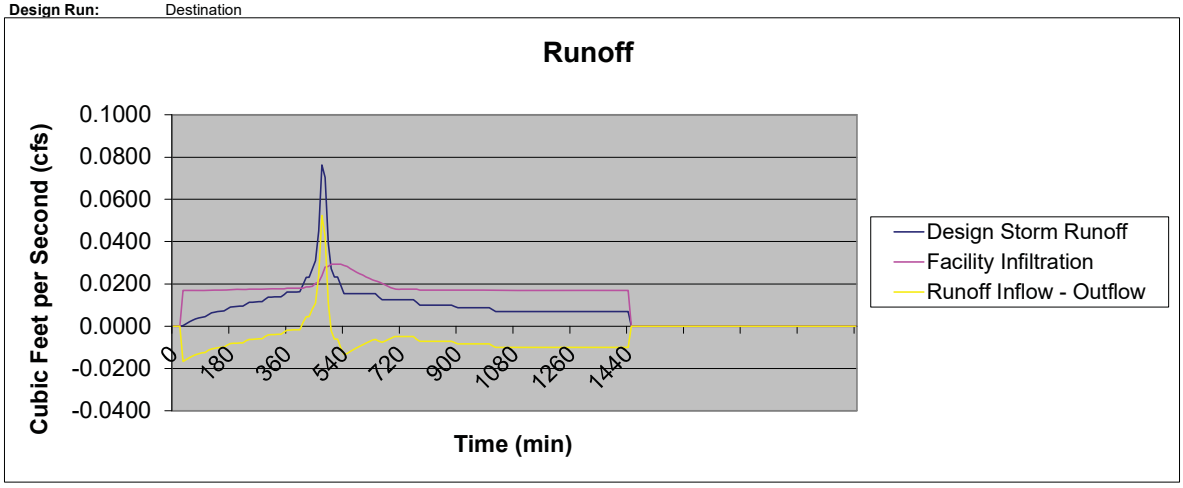
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3G
Design Run: Flow Control

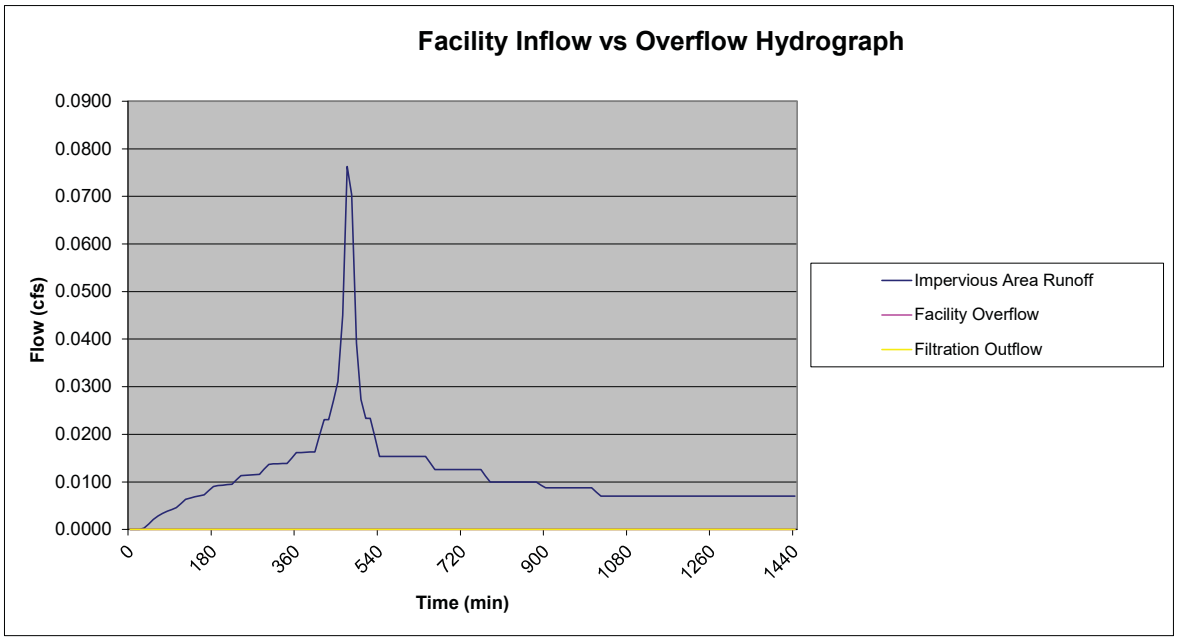


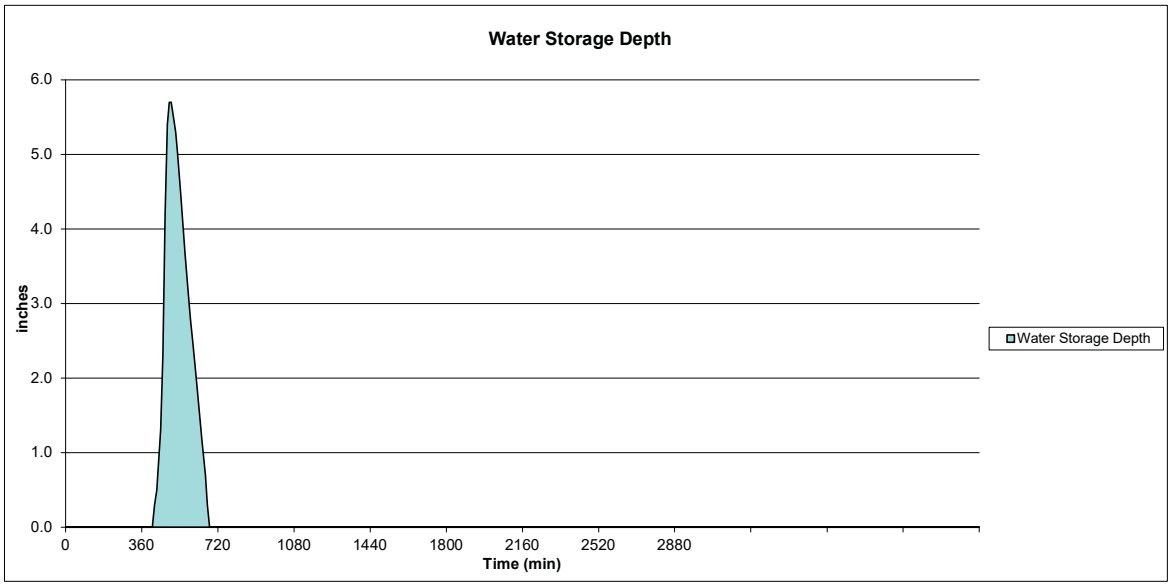




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3G
Design Run: Destination







Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet
24 Hour Storm, NRCS Type 1A Rainfall Distribution
City of Eugene

Version 2.1

Project Information

Project Name:	Three Mile Prairie	**Date:**	12/30/2020
Project Address:	18-12-15-00-00200	**Permit Number:**	NA
	Florence, OR	**Catchment ID:**	3H
Designer:	Clint Beecroft		
Company:	EGR & Associates		

Instructions:

1. Complete this form for each drainage catchment in the project site that is to be sized per the Presumptive Approach.
2. Provide a distinctive Catchment ID for each facility coordinated with the site basin map to correlate the appropriate calculations with the facility.
3. The maximum drainage catchment to be modeled per the Presumptive Approach is 1 acre (43,560 SF)
4. For infiltration facilities in Class A or B soils where no infiltration testing has been perfromed use an infiltration rate of 0.5 in/hr. For all facilities use a maximum soil infiltration rate of 2.5 in/hr for topsoil/growing medium.

Design Requirements:

Choose "Yes" from the dropdown boxes below next to the design standards requirements for this facility.

Pollution Reduction (PR)	Yes
Flow Control (FC)	Yes
Destination (DT)	Yes

*An infiltration facility must be chosen as the facility type to meet destination requirements

Site Data-Post Development

Total Square Footage Impervious Area=	2492	sqft	**Total Square Footage Pervious Area=**	0	sqft
Impervious Area CN=	98		**Pervious Area CN=**	85	
Total Square Footage of Drainage Area=	2492	sft	**Time of Concentration Post Development=**	5	min
Weighted Average CN=	98				

Site Data-Pre Development (Data in this section is only used if Flow Control is required)

Pre-Development CN=	98		**Time of Concentration Pre-Development=**	5	min

Soil Data

Tested Soil Infiltration Rate=	10	in/hr (See Note 4)	**Destination Design=**	5	in/hr
Design Soil Infiltration Rate=	4	in/hr	**Soil Infiltration Rate**		

Design Storms Used For Calculations

Requirement	Rainfall Depth		Design Storm
Pollution Reduction	0.8	inches	Water Quality
Flow Control	5.1	inches	Flood Control
Destination	5.1	inches	Flood Control

Facility Data

Facility Type=	Infiltration Stormwater Planter		**Facility Surface Area=**	254.1	sqft
Surface Width=	7.7	ft	**Facility Surface Perimeter=**	81.4	ft
Surface Length=	33	ft	**Facility Bottom Area=**	141	sqft
Facility Side Slopes=	3	to 1	**Facility Bottom Perimeter=**	69	ft
Max. Ponding Depth in Stormwater Facility=	6	in	**Basin Volume=**	101.0	cf
Depth of Growing Medium (Soil)=	18	in	**Ratio of Facility Area to Impervious Area=**	0.102	

Pollution Reduction-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.010	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	130	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	0.0	in			
Drawdown Time=	0.2	hours			

Yes **Facility Sizing Meets Pollution Reduction Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

Flow Control-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.076	cfs	Peak Facility Overflow Rate=	0.016	cfs
Total Runoff Volume to Stormwater Facility =	999	cf	Total Overflow Volume=	20	cf
Max. Depth of Stormwater in Facility=	6.0	in	Peak Off-Site Flow Rate Filtration Facility Underdrain=	N\A	cfs
Drawdown Time=	0.2	hours			

Pre-Development Runoff Data

Peak Flow Rate =	0.076	cfs
Total Runoff Volume =	1002	cf

Yes **Facility Sizing Meets Flow Control Standards?**

YES **Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

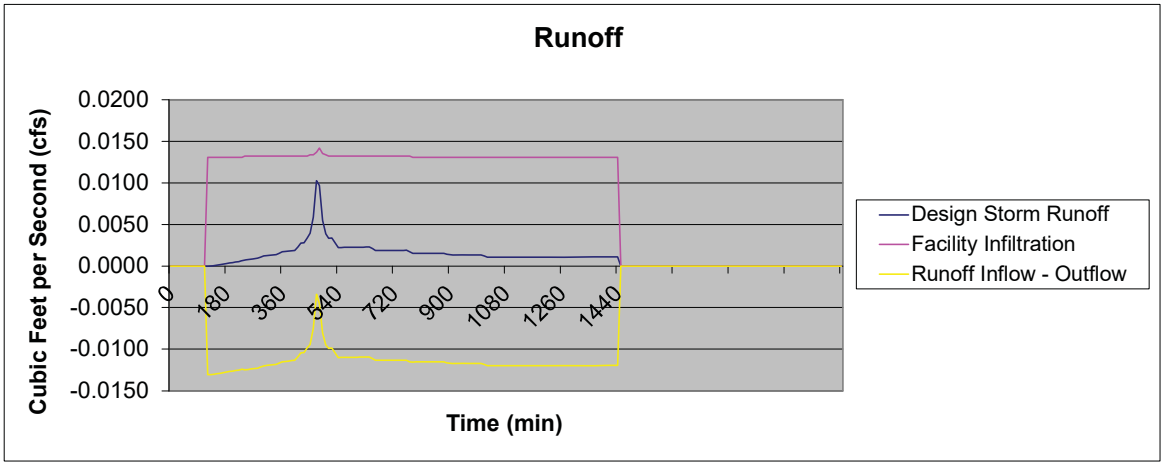
Destination-Calculation Results

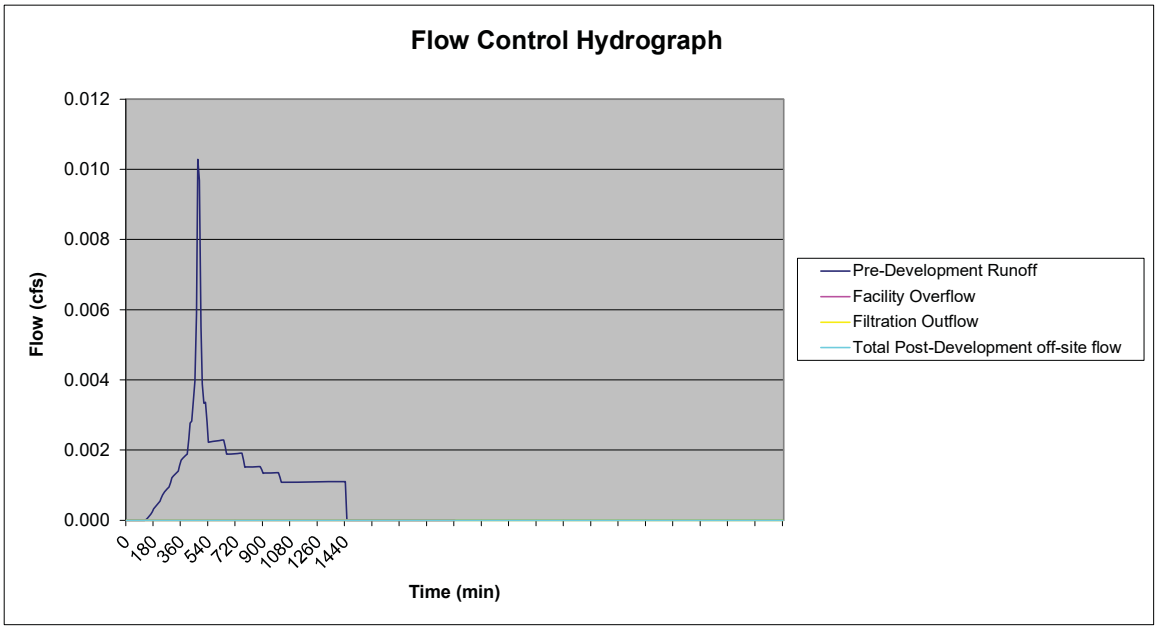
Peak Flow Rate to Stormwater Facility =	0.076	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	999	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	5.7	in			
Drawdown Time=	0.2	hours			

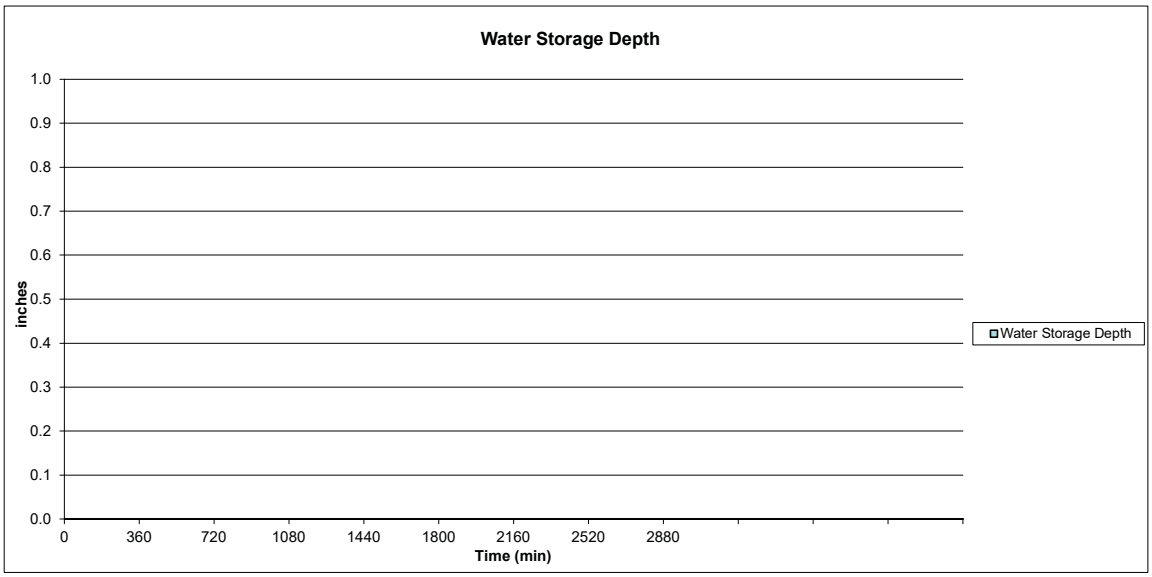
Yes **Facility Sizing Meets Destination Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 30 hour Drawdown Time?**

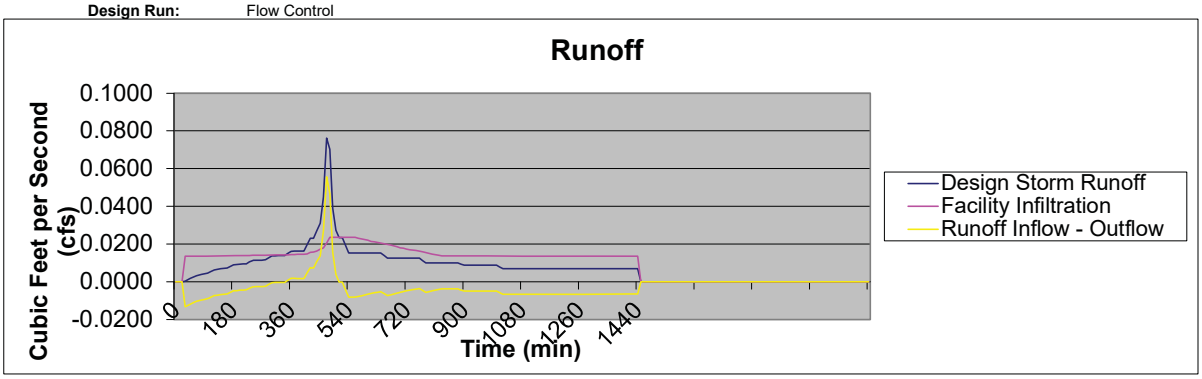
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3H
Design Run: Pollution Reduction

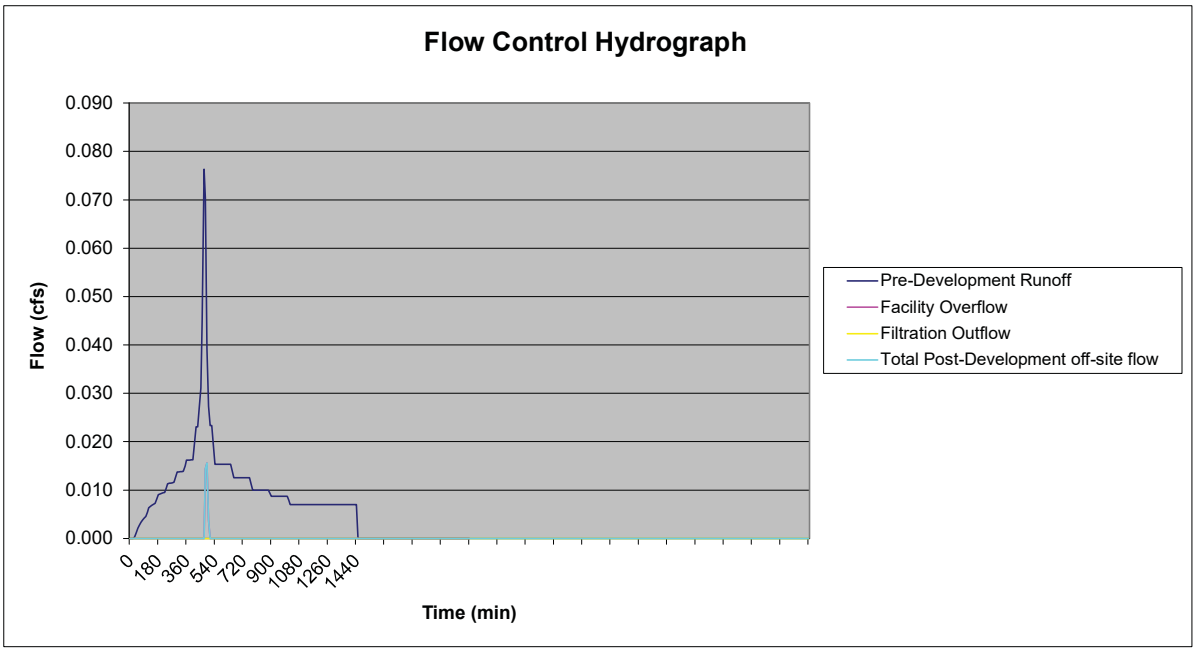


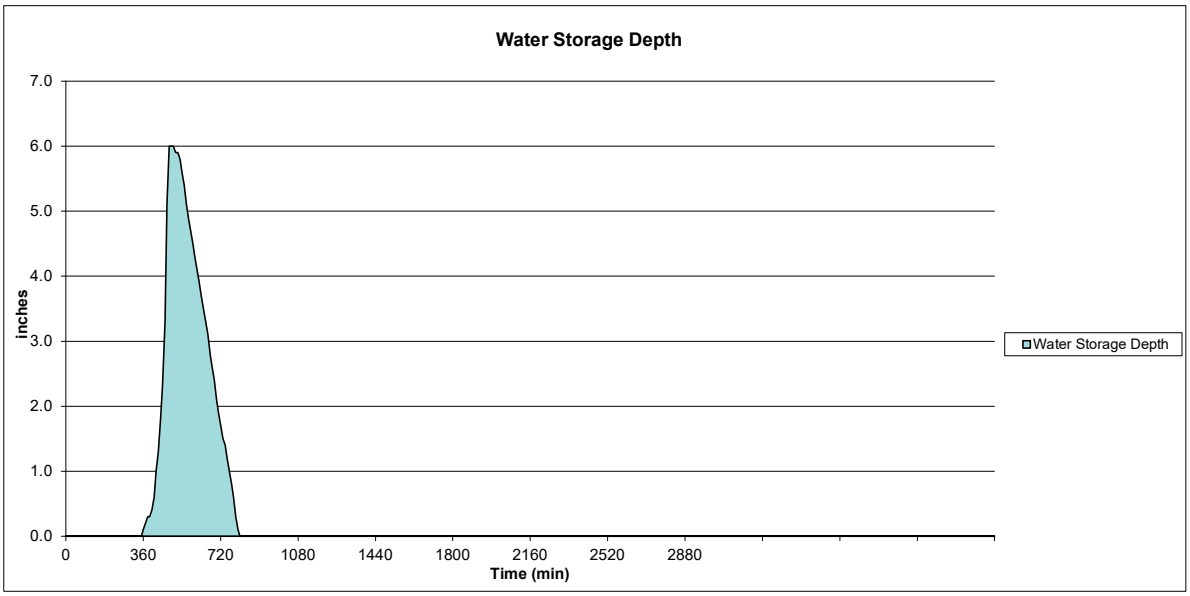




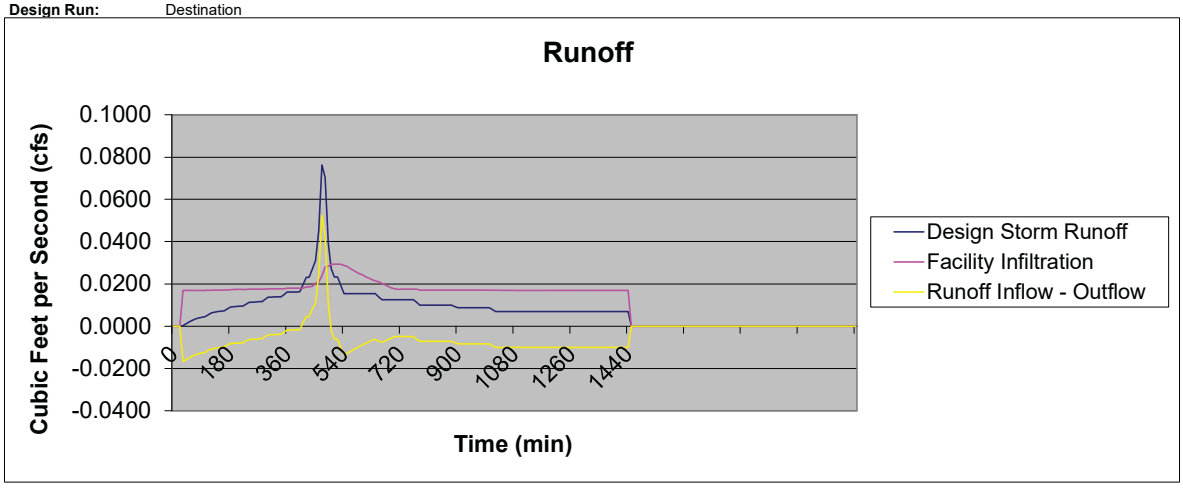
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3H
Design Run: Flow Control

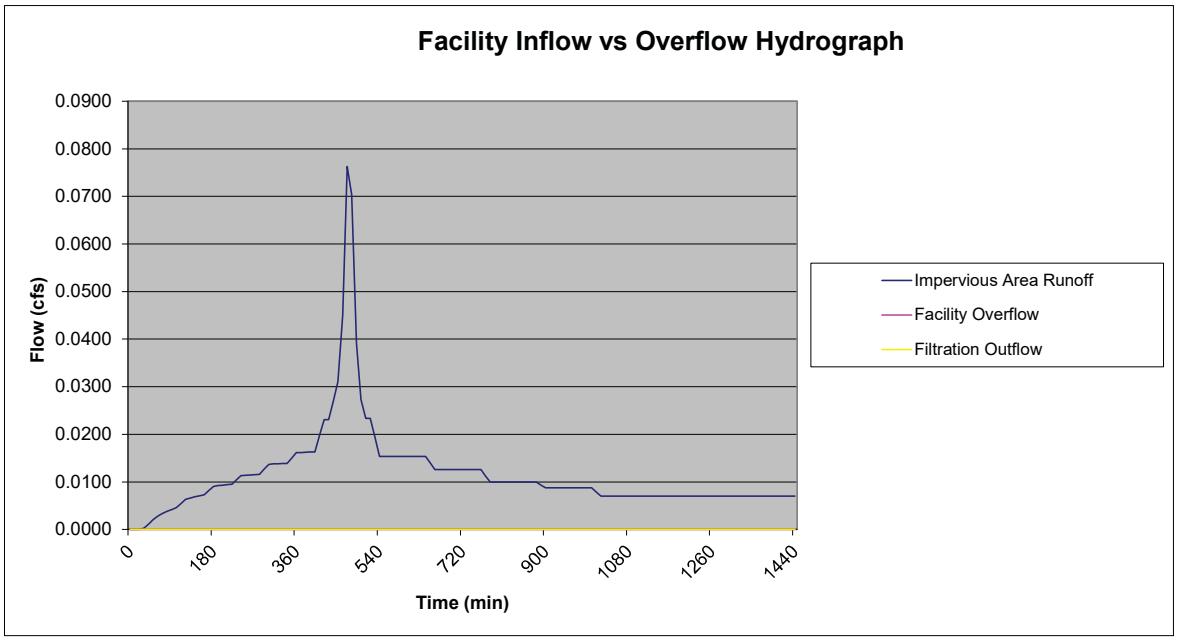


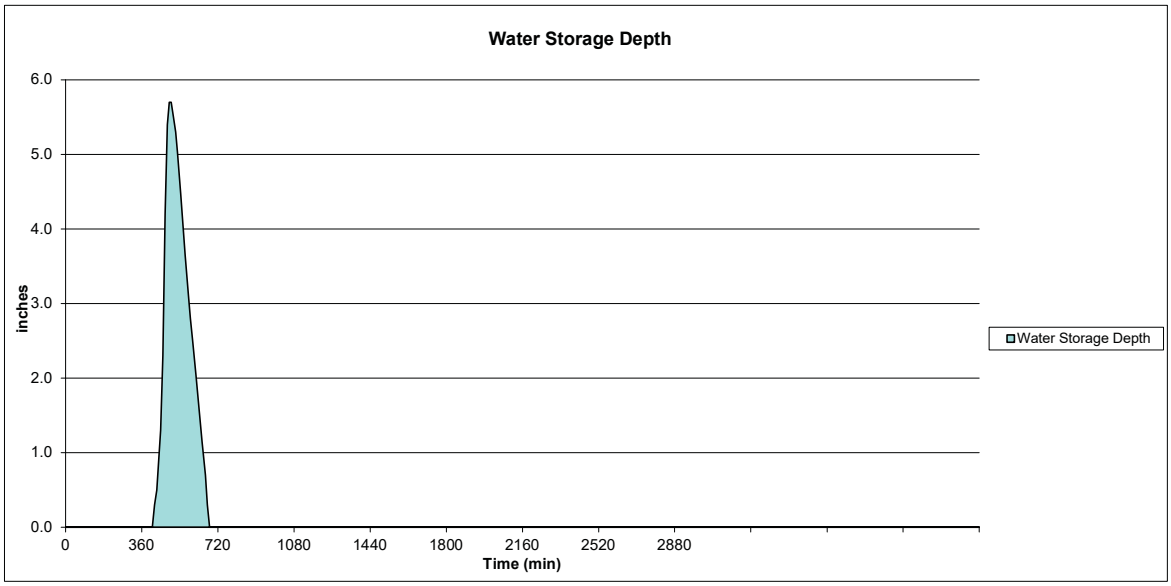




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3H
Design Run: Destination







Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet
24 Hour Storm, NRCS Type 1A Rainfall Distribution
City of Eugene

Version 2.1

Project Information

Project Name:	Three Mile Prairie	**Date:**	12/30/2020
Project Address:	18-12-15-00-00200	**Permit Number:**	NA
	Florence, OR	**Catchment ID:**	3I
Designer:	Clint Beecroft		
Company:	EGR & Associates		

Instructions:

1. Complete this form for each drainage catchment in the project site that is to be sized per the Presumptive Approach.
2. Provide a distinctive Catchment ID for each facility coordinated with the site basin map to correlate the appropriate calculations with the facility.
3. The maximum drainage catchment to be modeled per the Presumptive Approach is 1 acre (43,560 SF)
4. For infiltration facilities in Class A or B soils where no infiltration testing has been perfromed use an infiltration rate of 0.5 in/hr. For all facilities use a maximum soil infiltration rate of 2.5 in/hr for topsoil/growing medium.

Design Requirements:

Choose "Yes" from the dropdown boxes below next to the design standards requirements for this facility.

Pollution Reduction (PR)	Yes
Flow Control (FC)	Yes
Destination (DT)	Yes

*An infiltration facility must be chosen as the facility type to meet destination requirements

Site Data-Post Development

Total Square Footage Impervious Area=	812	sqft	**Total Square Footage Pervious Area=**	0	sqft
Impervious Area CN=	98		**Pervious Area CN=**	85	
Total Square Footage of Drainage Area=	812	sft	**Time of Concentration Post Development=**	5	min
Weighted Average CN=	98				

Site Data-Pre Development (Data in this section is only used if Flow Control is required)

Pre-Development CN=	98		**Time of Concentration Pre-Development=**	5	min

Soil Data

Tested Soil Infiltration Rate=	10	in/hr (See Note 4)	**Destination Design=**	5	in/hr
Design Soil Infiltration Rate=	4	in/hr	**Soil Infiltration Rate**		

Design Storms Used For Calculations

Requirement	Rainfall Depth		Design Storm
Pollution Reduction	0.8	inches	Water Quality
Flow Control	5.1	inches	Flood Control
Destination	5.1	inches	Flood Control

Facility Data

Facility Type=	Infiltration Stormwater Planter		**Facility Surface Area=**	64	sqft
Surface Width=	6.4	ft	**Facility Surface Perimeter=**	32.8	ft
Surface Length=	10	ft	**Facility Bottom Area=**	64	sqft
Facility Side Slopes=	0	to 1	**Facility Bottom Perimeter=**	33	ft
Max. Ponding Depth in Stormwater Facility=	6	in	**Basin Volume=**	32.0	cf
Depth of Growing Medium (Soil)=	18	in	**Ratio of Facility Area to Impervious Area=**	0.079	

Pollution Reduction-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.003	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	42	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	0.0	in			
Drawdown Time=	0.2	hours			

Yes **Facility Sizing Meets Pollution Reduction Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

Flow Control-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.025	cfs	Peak Facility Overflow Rate=	0.007	cfs
Total Runoff Volume to Stormwater Facility =	326	cf	Total Overflow Volume=	9	cf
Max. Depth of Stormwater in Facility=	6.0	in	Peak Off-Site Flow Rate Filtration Facility Underdrain=	N\A	cfs
Drawdown Time=	0.2	hours			

Pre-Development Runoff Data

Peak Flow Rate =	0.025	cfs
Total Runoff Volume =	326	cf

Yes **Facility Sizing Meets Flow Control Standards?**

YES **Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

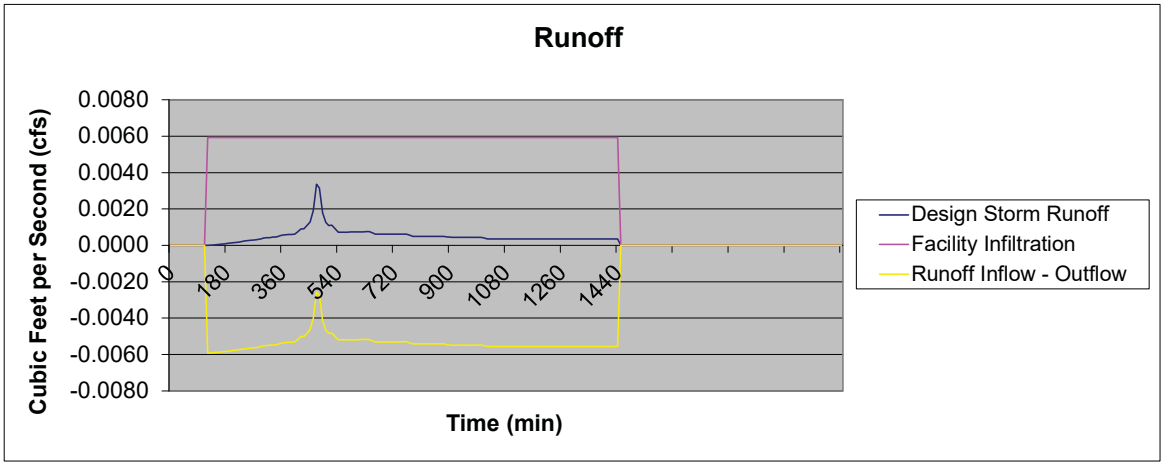
Destination-Calculation Results

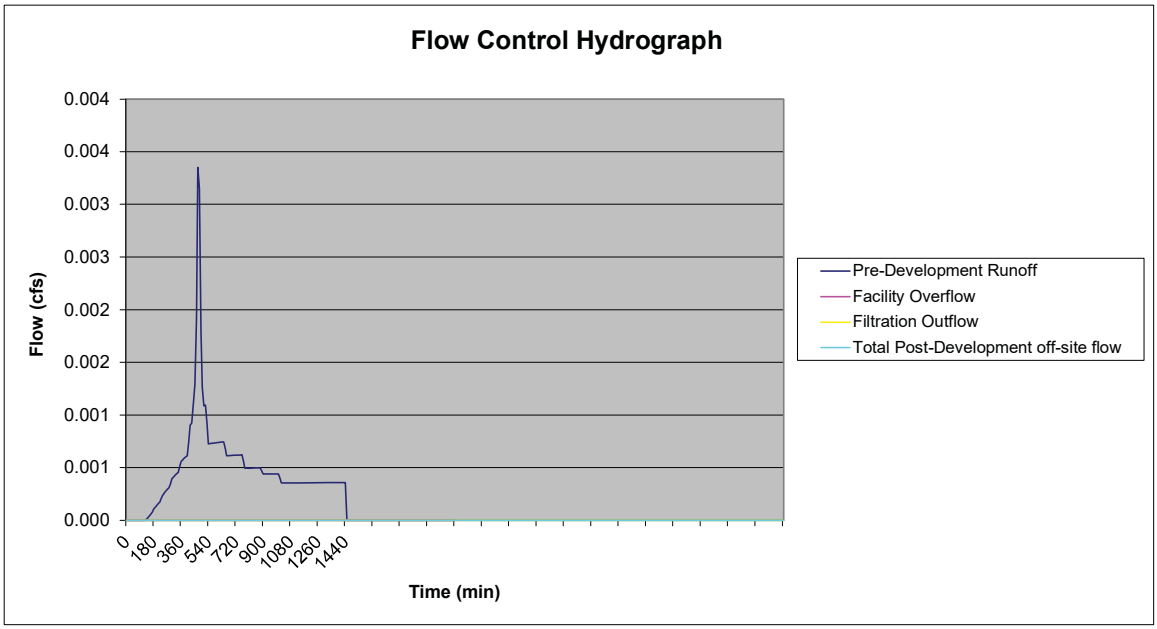
Peak Flow Rate to Stormwater Facility =	0.025	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	326	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	5.8	in			
Drawdown Time=	0.2	hours			

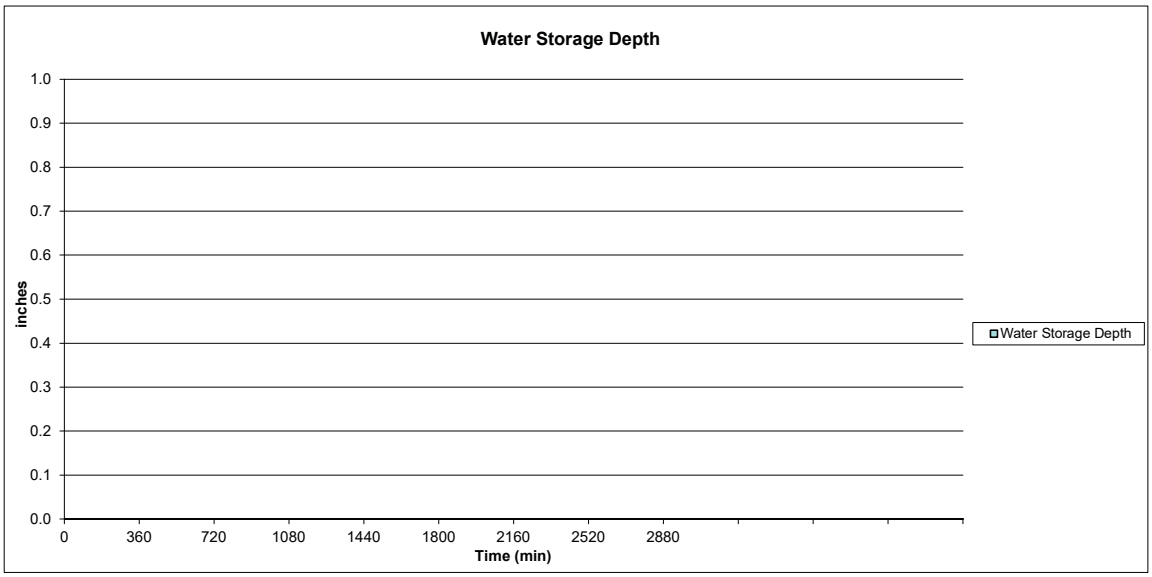
Yes **Facility Sizing Meets Destination Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 30 hour Drawdown Time?**

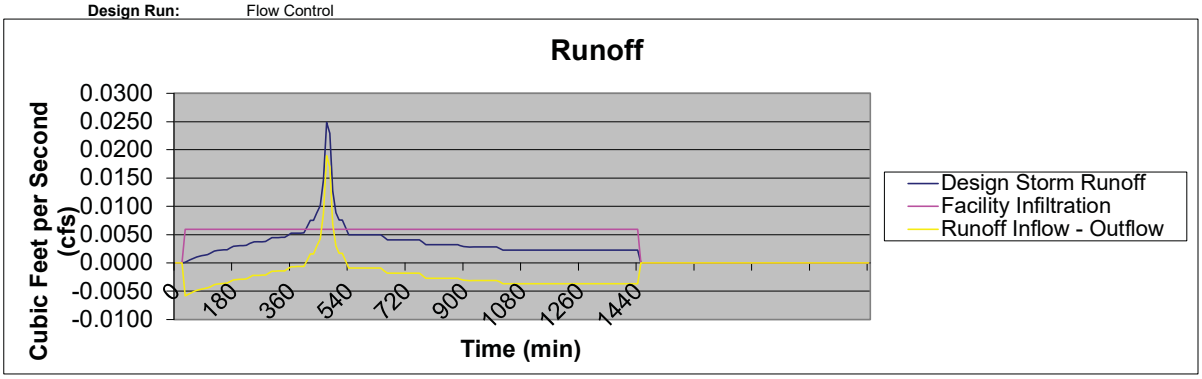
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3I
Design Run: Pollution Reduction

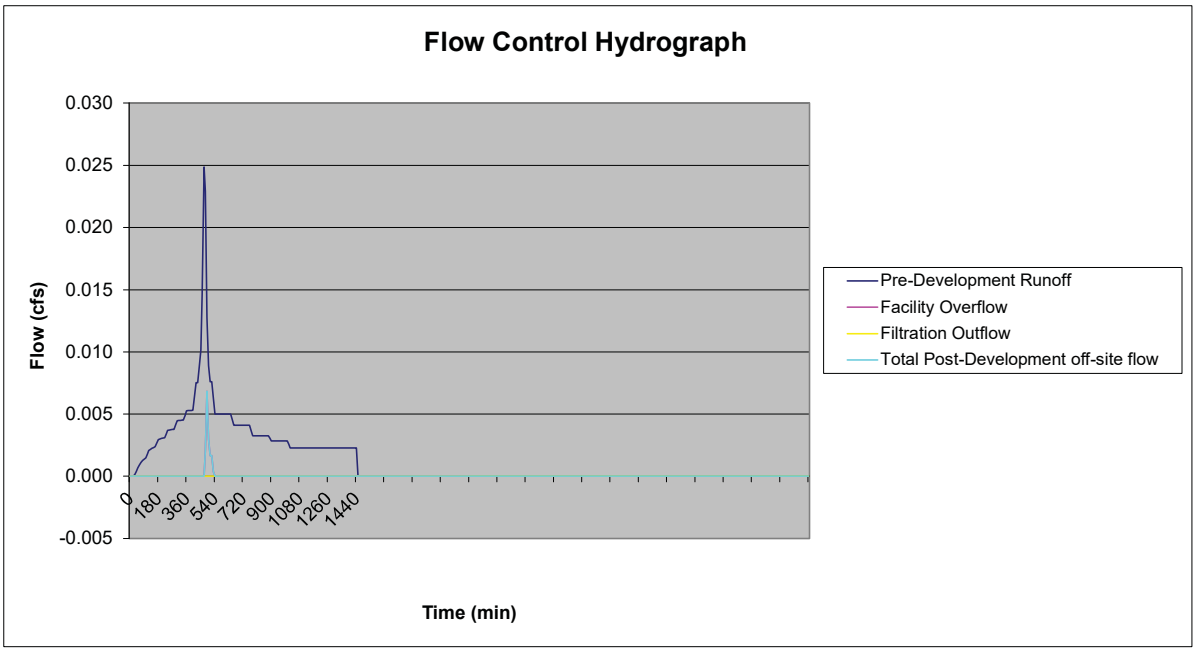


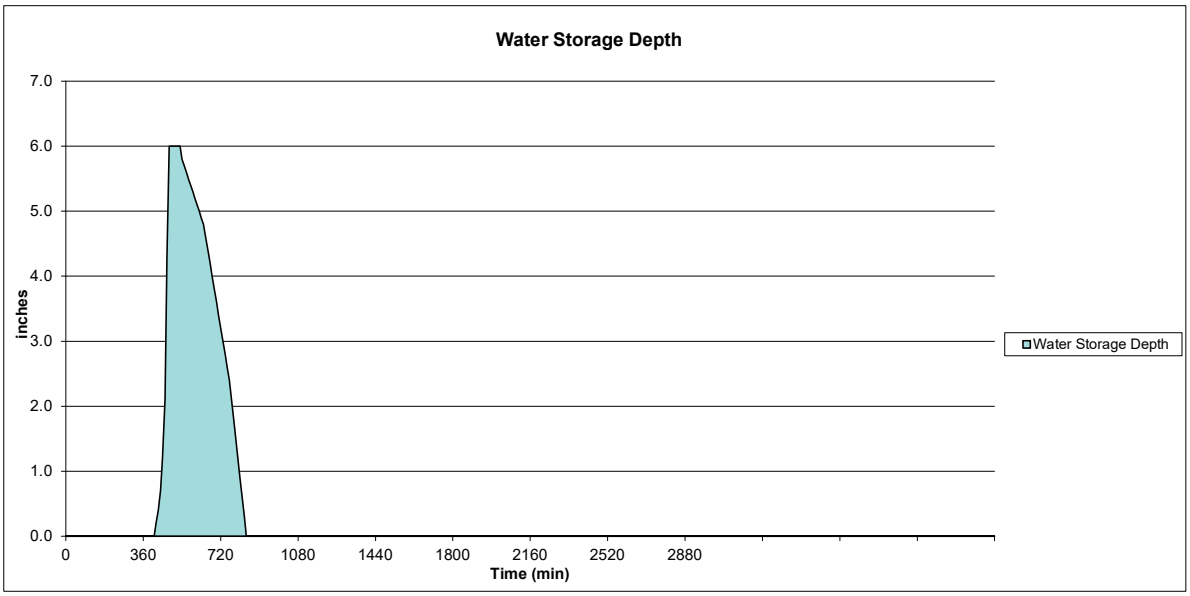




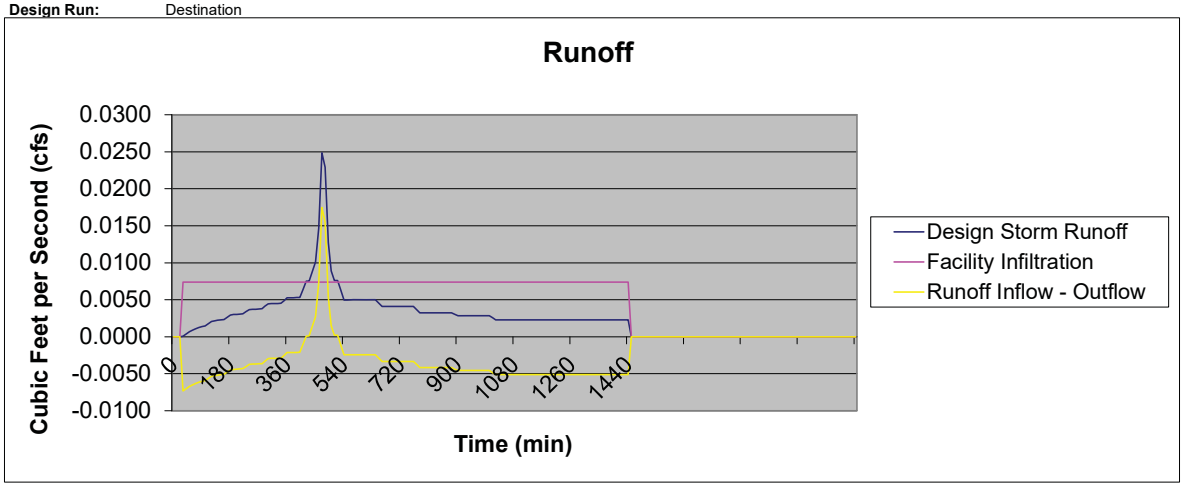
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3I
Design Run: Flow Control

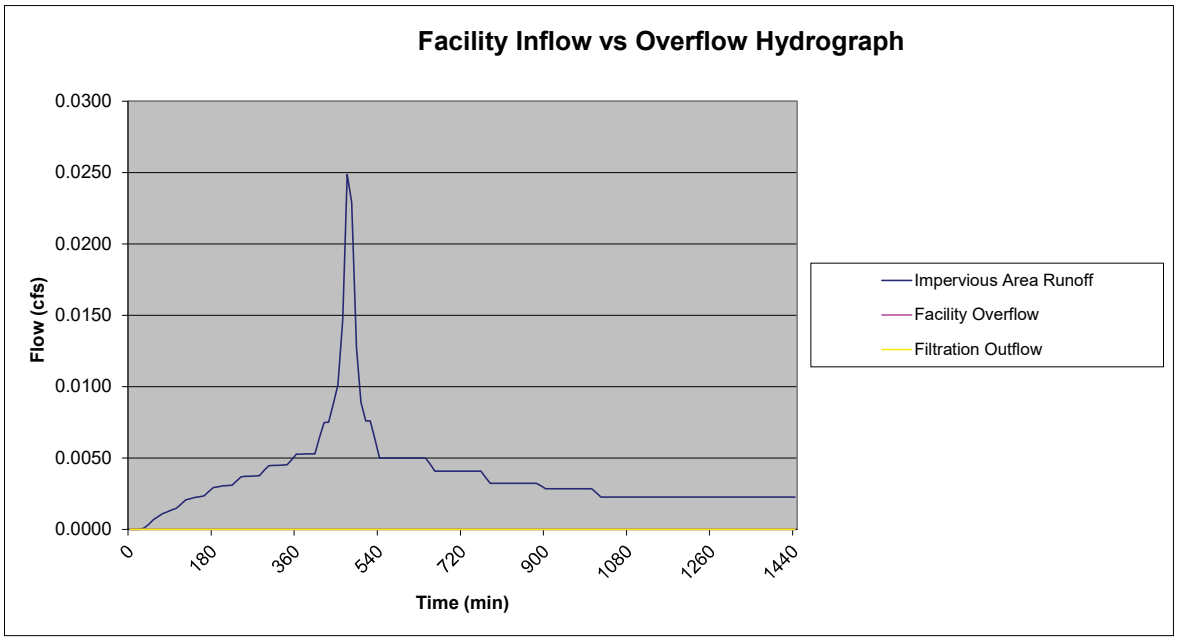


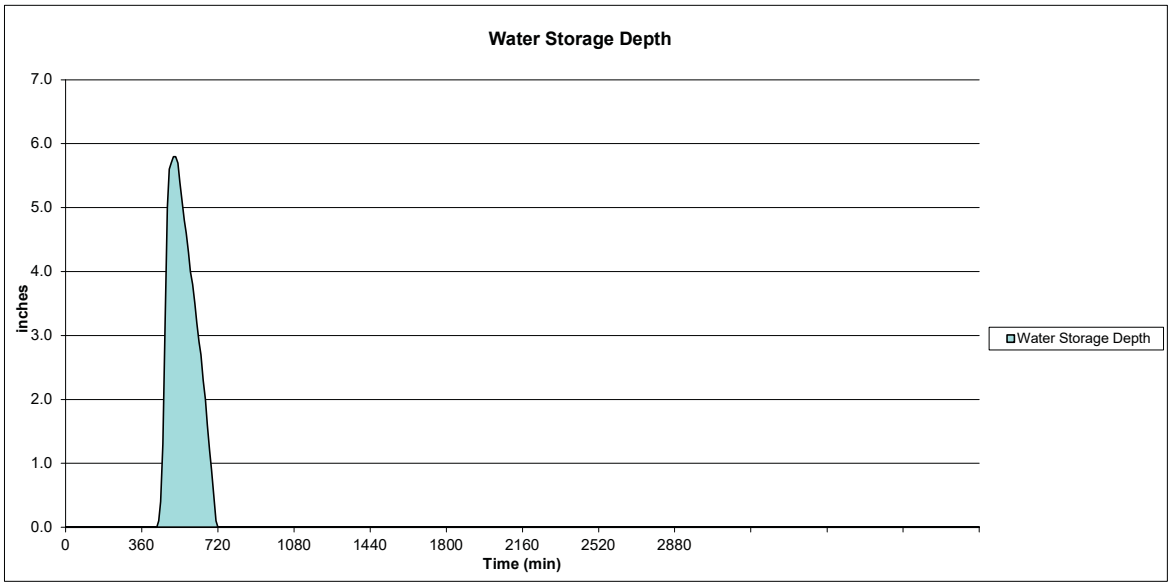




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3I
Design Run: Destination







Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet
24 Hour Storm, NRCS Type 1A Rainfall Distribution
City of Eugene

Version 2.1

Project Information

Project Name:	Three Mile Prairie	**Date:**	12/30/2020
Project Address:	18-12-15-00-00200	**Permit Number:**	NA
	Florence, OR	**Catchment ID:**	3J
Designer:	Clint Beecroft		
Company:	EGR & Associates		

Instructions:

1. Complete this form for each drainage catchment in the project site that is to be sized per the Presumptive Approach.
2. Provide a distinctive Catchment ID for each facility coordinated with the site basin map to correlate the appropriate calculations with the facility.
3. The maximum drainage catchment to be modeled per the Presumptive Approach is 1 acre (43,560 SF)
4. For infiltration facilities in Class A or B soils where no infiltration testing has been perfromed use an infiltration rate of 0.5 in/hr. For all facilities use a maximum soil infiltration rate of 2.5 in/hr for topsoil/growing medium.

Design Requirements:

Choose "Yes" from the dropdown boxes below next to the design standards requirements for this facility.

Pollution Reduction (PR)	Yes
Flow Control (FC)	Yes
Destination (DT)	Yes

*An infiltration facility must be chosen as the facility type to meet destination requirements

Site Data-Post Development

Total Square Footage Impervious Area=	807	sqft	**Total Square Footage Pervious Area=**	0	sqft
Impervious Area CN=	98		**Pervious Area CN=**	85	
Total Square Footage of Drainage Area=	807	sft	**Time of Concentration Post Development=**	5	min
Weighted Average CN=	98				

Site Data-Pre Development (Data in this section is only used if Flow Control is required)

Pre-Development CN=	98		**Time of Concentration Pre-Development=**	5	min

Soil Data

Tested Soil Infiltration Rate=	10	in/hr (See Note 4)	**Destination Design=**	5	in/hr
Design Soil Infiltration Rate=	4	in/hr	**Soil Infiltration Rate**		

Design Storms Used For Calculations

Requirement	Rainfall Depth		Design Storm
Pollution Reduction	0.8	inches	Water Quality
Flow Control	5.1	inches	Flood Control
Destination	5.1	inches	Flood Control

Facility Data

Facility Type=	Infiltration Stormwater Planter		**Facility Surface Area=**	63	sqft
Surface Width=	6.3	ft	**Facility Surface Perimeter=**	32.6	ft
Surface Length=	10	ft	**Facility Bottom Area=**	63	sqft
Facility Side Slopes=	0	to 1	**Facility Bottom Perimeter=**	33	ft
Max. Ponding Depth in Stormwater Facility=	6	in	**Basin Volume=**	31.5	cf
Depth of Growing Medium (Soil)=	18	in	**Ratio of Facility Area to Impervious Area=**	0.078	

Pollution Reduction-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.003	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	42	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	0.0	in			
Drawdown Time=	0.2	hours			

Yes **Facility Sizing Meets Pollution Reduction Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

Flow Control-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.025	cfs	Peak Facility Overflow Rate=	0.007	cfs
Total Runoff Volume to Stormwater Facility =	324	cf	Total Overflow Volume=	10	cf
Max. Depth of Stormwater in Facility=	6.0	in	Peak Off-Site Flow Rate Filtration Facility Underdrain=	N\A	cfs
Drawdown Time=	0.2	hours			

Pre-Development Runoff Data

Peak Flow Rate =	0.025	cfs
Total Runoff Volume =	324	cf

Yes **Facility Sizing Meets Flow Control Standards?**

YES **Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

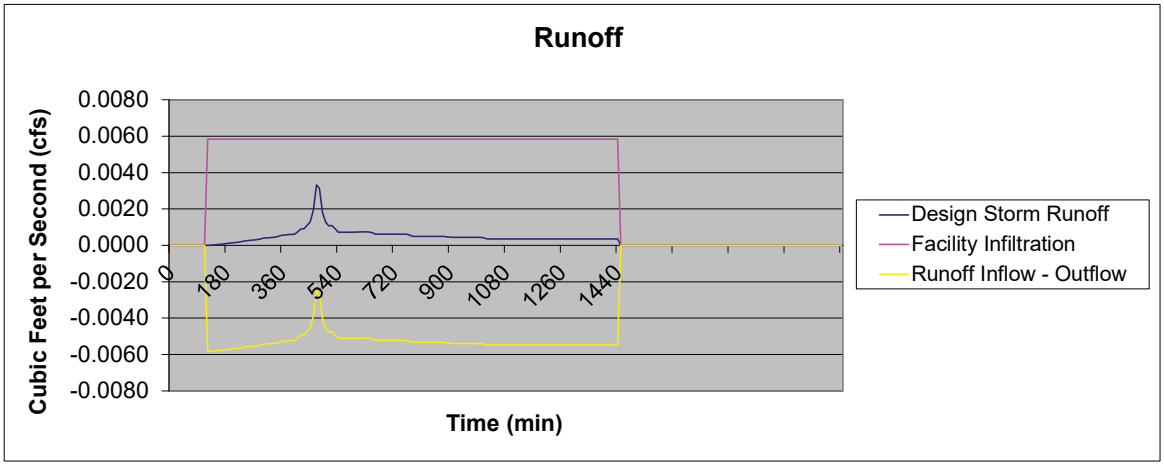
Destination-Calculation Results

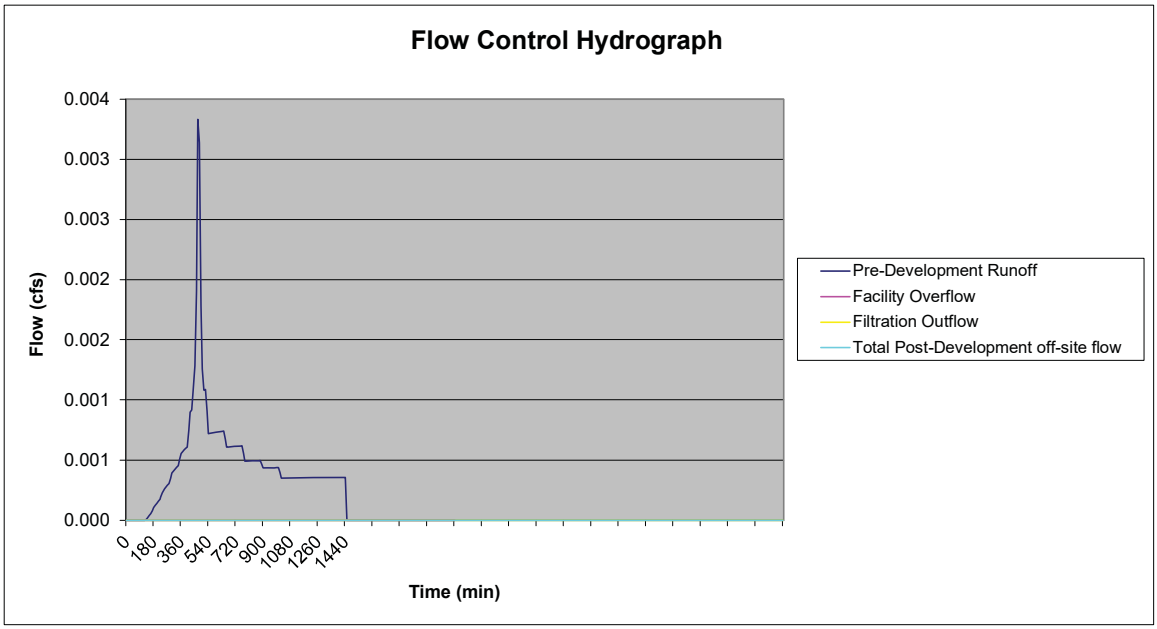
Peak Flow Rate to Stormwater Facility =	0.025	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	324	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	5.9	in			
Drawdown Time=	0.2	hours			

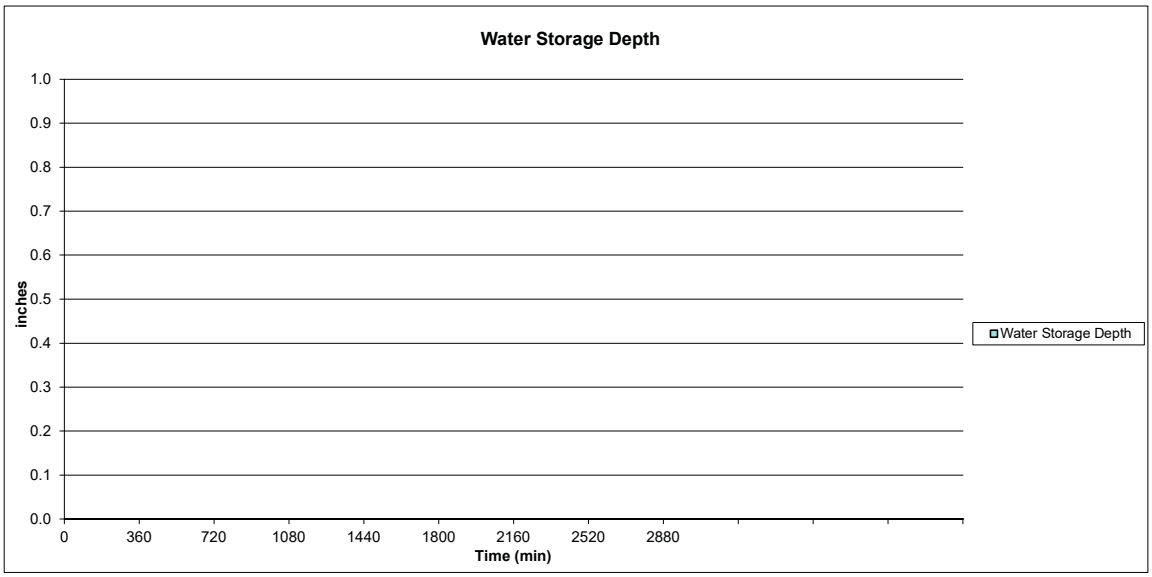
Yes **Facility Sizing Meets Destination Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 30 hour Drawdown Time?**

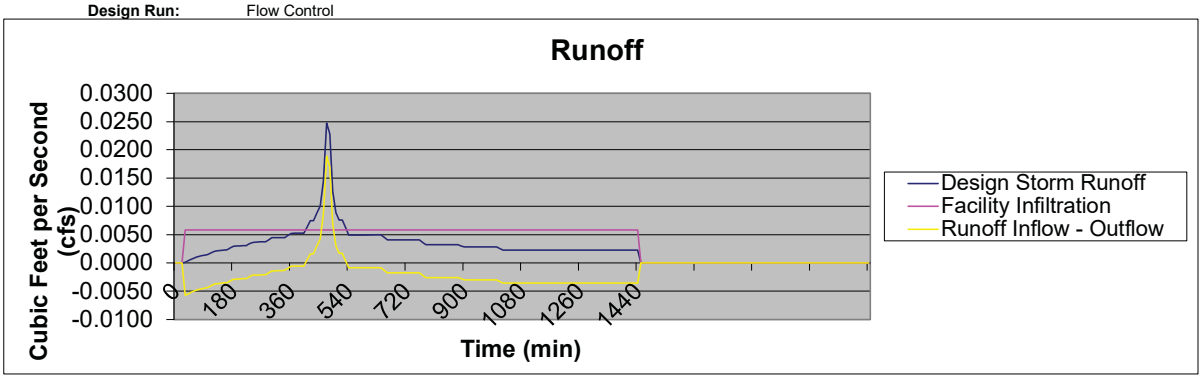
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3J
Design Run: Pollution Reduction

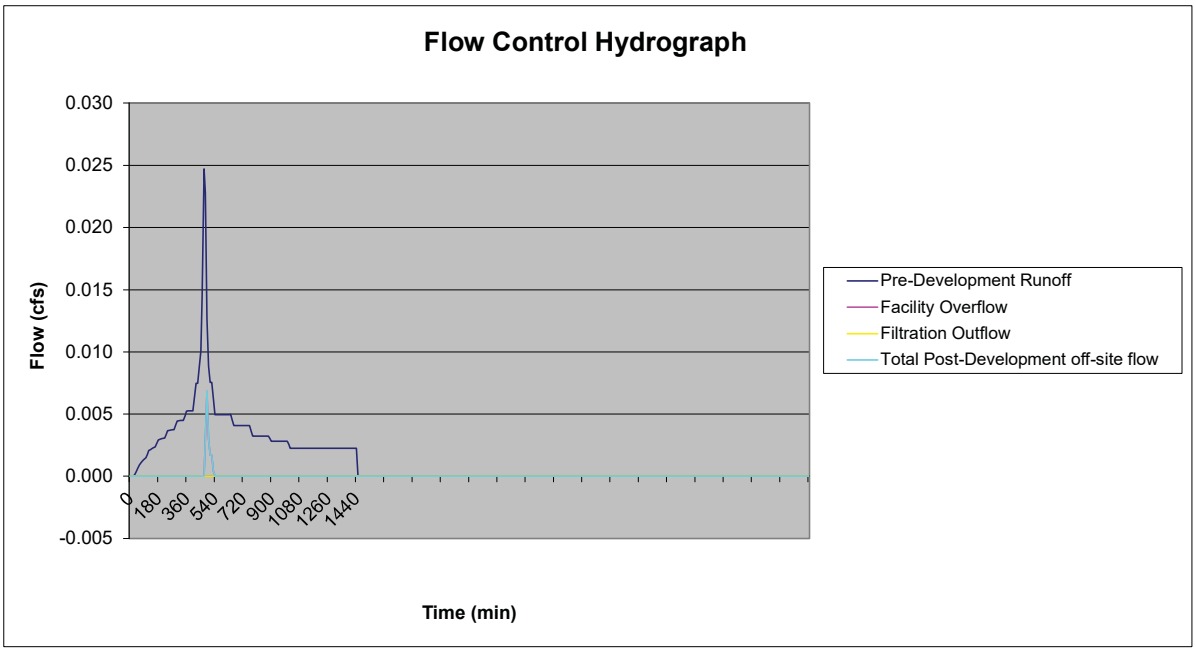


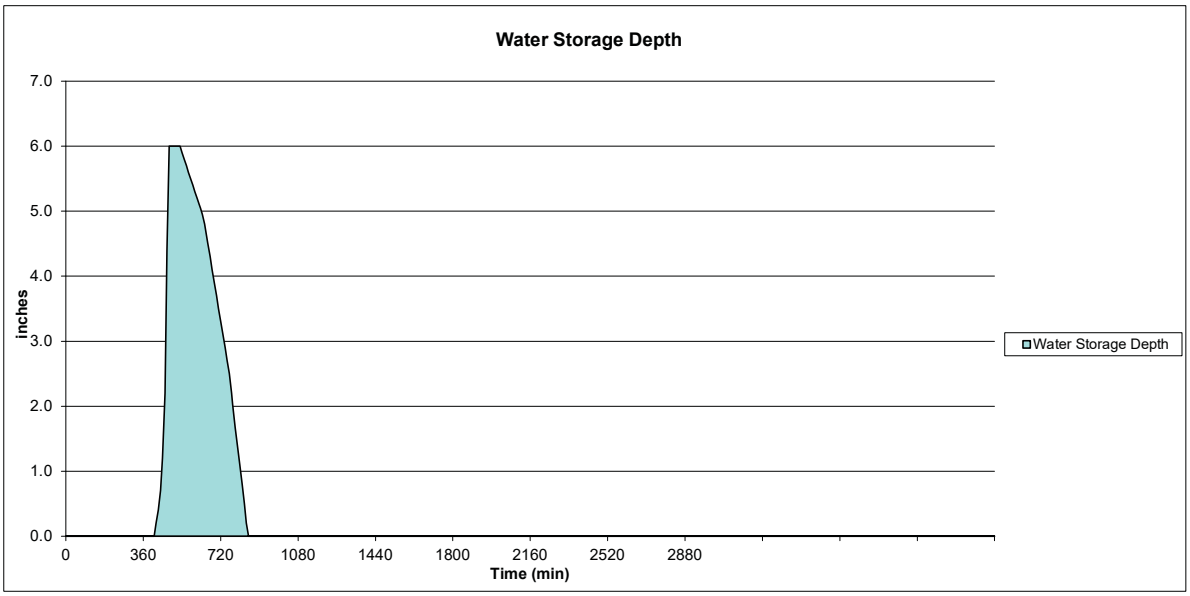




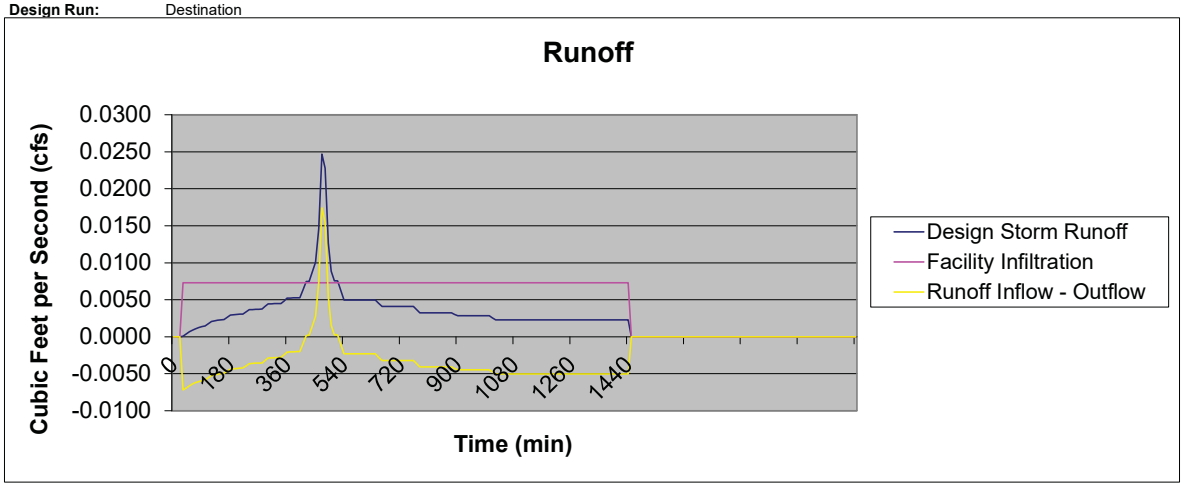
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3J
Design Run: Flow Control

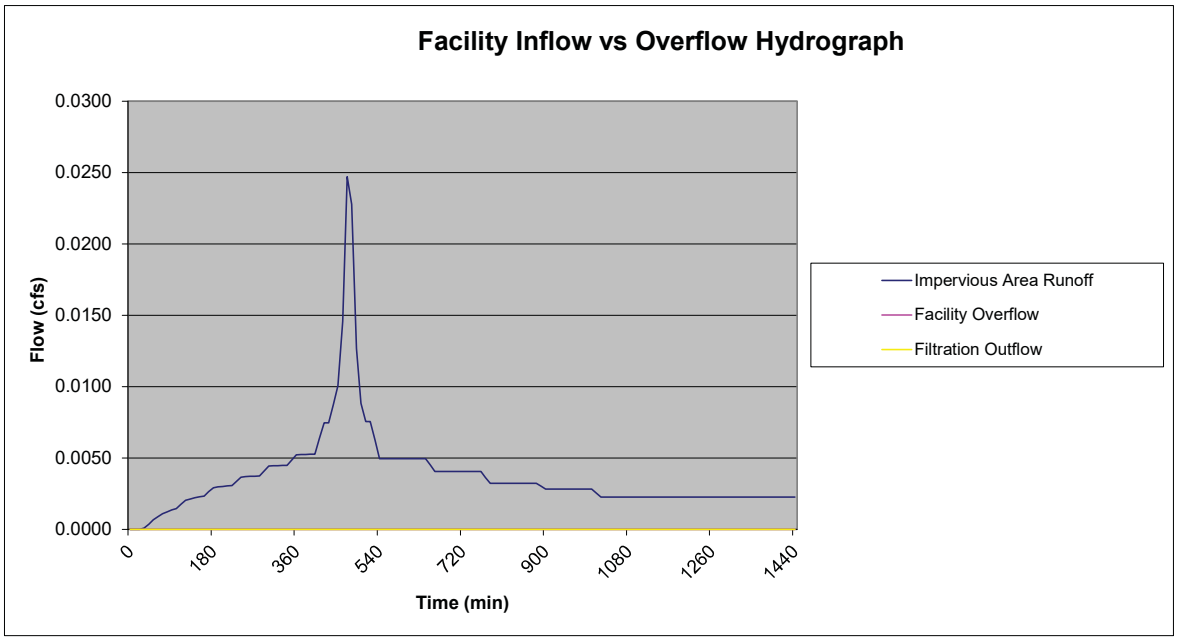


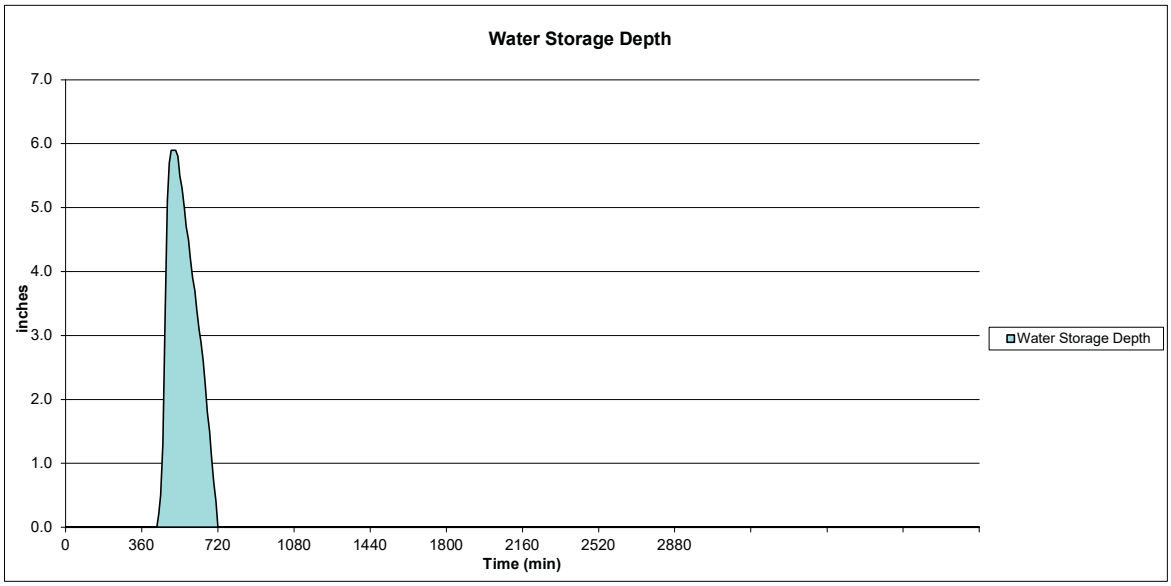




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3J
Design Run: Destination







Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet
24 Hour Storm, NRCS Type 1A Rainfall Distribution
City of Eugene

Version 2.1

Project Information

Project Name:	Three Mile Prairie	**Date:**	12/30/2020
Project Address:	18-12-15-00-00200	**Permit Number:**	NA
	Florence, OR	**Catchment ID:**	3K
Designer:	Clint Beecroft		
Company:	EGR & Associates		

Instructions:

1. Complete this form for each drainage catchment in the project site that is to be sized per the Presumptive Approach.
2. Provide a distinctive Catchment ID for each facility coordinated with the site basin map to correlate the appropriate calculations with the facility.
3. The maximum drainage catchment to be modeled per the Presumptive Approach is 1 acre (43,560 SF)
4. For infiltration facilities in Class A or B soils where no infiltration testing has been perfromed use an infiltration rate of 0.5 in/hr. For all facilities use a maximum soil infiltration rate of 2.5 in/hr for topsoil/growing medium.

Design Requirements:

Choose "Yes" from the dropdown boxes below next to the design standards requirements for this facility.

Pollution Reduction (PR)	Yes
Flow Control (FC)	Yes
Destination (DT)	Yes

*An infiltration facility must be chosen as the facility type to meet destination requirements

Site Data-Post Development

Total Square Footage Impervious Area=	1698	sqft	**Total Square Footage Pervious Area=**	0	sqft
Impervious Area CN=	98		**Pervious Area CN=**	85	
Total Square Footage of Drainage Area=	1698	sft	**Time of Concentration Post Development=**	5	min
Weighted Average CN=	98				

Site Data-Pre Development (Data in this section is only used if Flow Control is required)

Pre-Development CN=	98		**Time of Concentration Pre-Development=**	5	min

Soil Data

Tested Soil Infiltration Rate=	10	in/hr (See Note 4)	**Destination Design=**	5	in/hr
Design Soil Infiltration Rate=	4	in/hr	**Soil Infiltration Rate**		

Design Storms Used For Calculations

Requirement	Rainfall Depth		Design Storm
Pollution Reduction	0.8	inches	Water Quality
Flow Control	5.1	inches	Flood Control
Destination	5.1	inches	Flood Control

Facility Data

Facility Type=	Infiltration Stormwater Planter		**Facility Surface Area=**	117	sqft
Surface Width=	11.7	ft	**Facility Surface Perimeter=**	43.4	ft
Surface Length=	10	ft	**Facility Bottom Area=**	117	sqft
Facility Side Slopes=	0	to 1	**Facility Bottom Perimeter=**	43	ft
Max. Ponding Depth in Stormwater Facility=	8	in	**Basin Volume=**	78.0	cf
Depth of Growing Medium (Soil)=	18	in	**Ratio of Facility Area to Impervious Area=**	0.069	

Pollution Reduction-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.007	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	89	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	0.0	in			
Drawdown Time=	0.2	hours			

Yes **Facility Sizing Meets Pollution Reduction Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

Flow Control-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.052	cfs	Peak Facility Overflow Rate=	0.015	cfs
Total Runoff Volume to Stormwater Facility =	681	cf	Total Overflow Volume=	21	cf
Max. Depth of Stormwater in Facility=	8.0	in	Peak Off-Site Flow Rate Filtration Facility Underdrain=	N\A	cfs
Drawdown Time=	0.2	hours			

Pre-Development Runoff Data

Peak Flow Rate =	0.052	cfs
Total Runoff Volume =	682	cf

Yes **Facility Sizing Meets Flow Control Standards?**

YES **Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

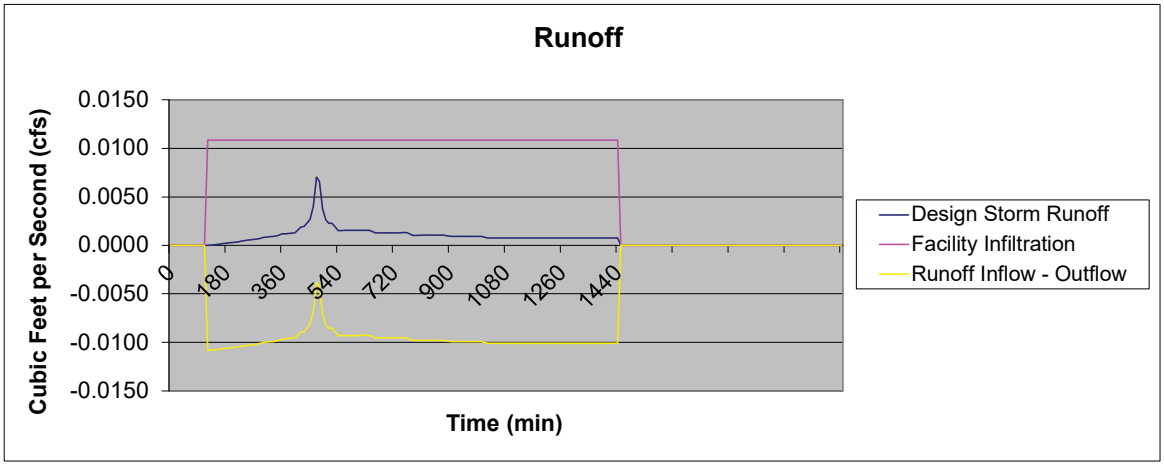
Destination-Calculation Results

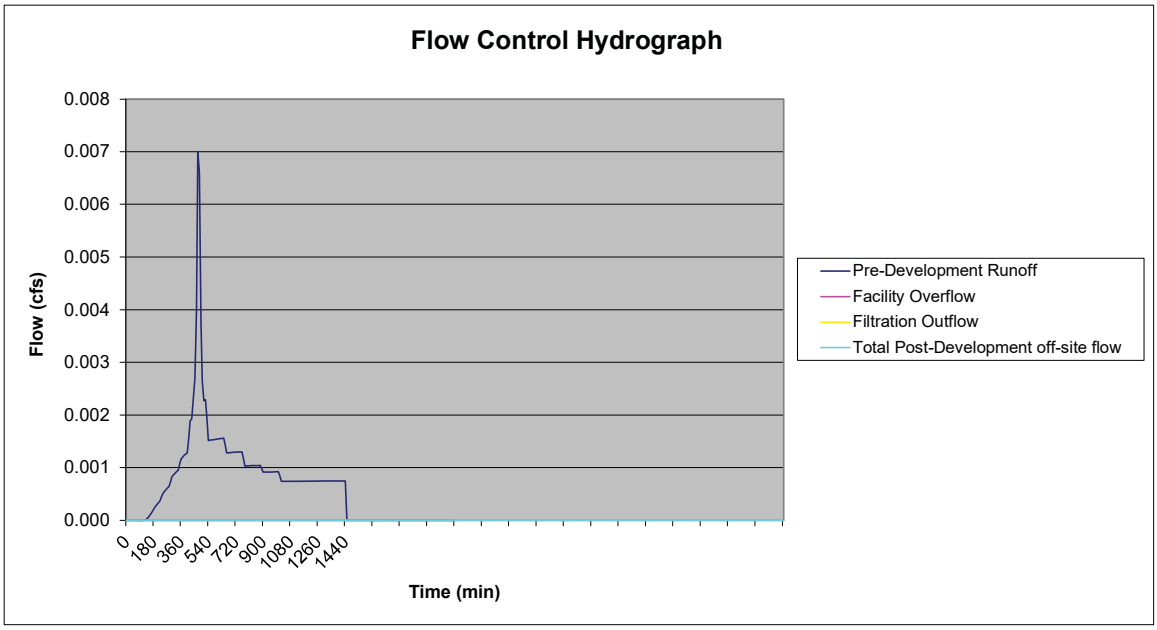
Peak Flow Rate to Stormwater Facility =	0.052	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	681	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	7.9	in			
Drawdown Time=	0.2	hours			

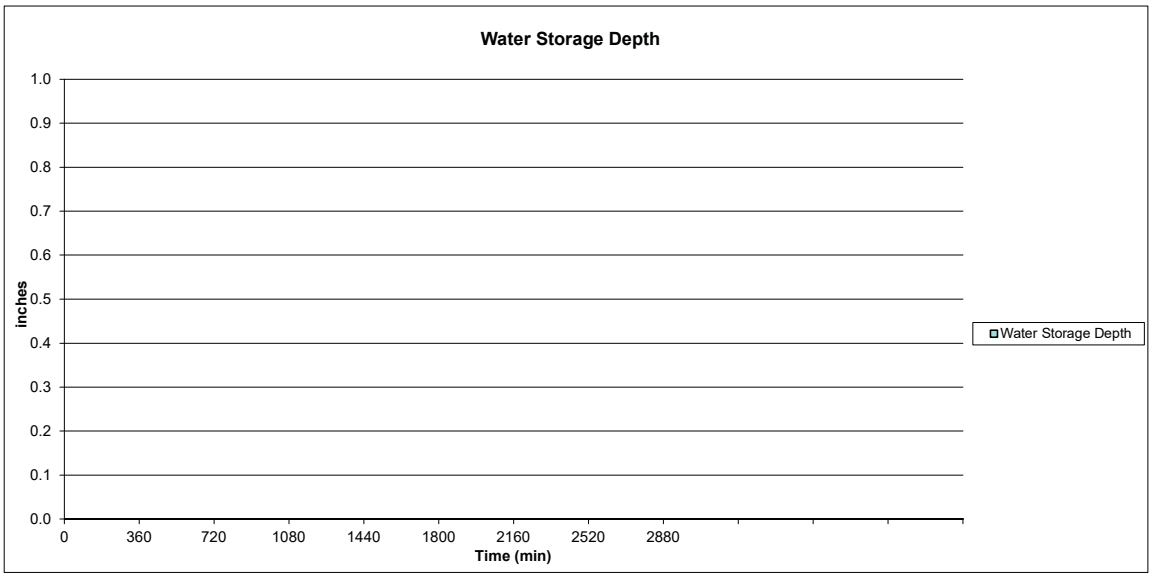
Yes **Facility Sizing Meets Destination Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 30 hour Drawdown Time?**

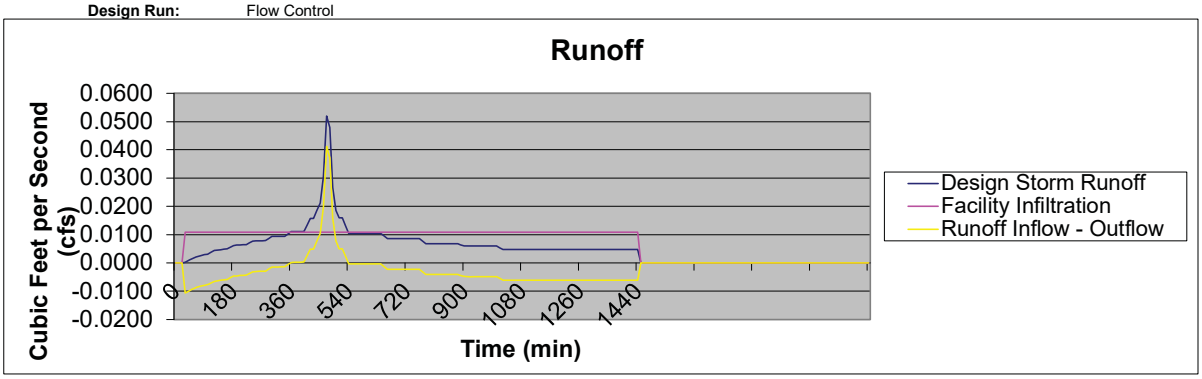
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3K
Design Run: Pollution Reduction

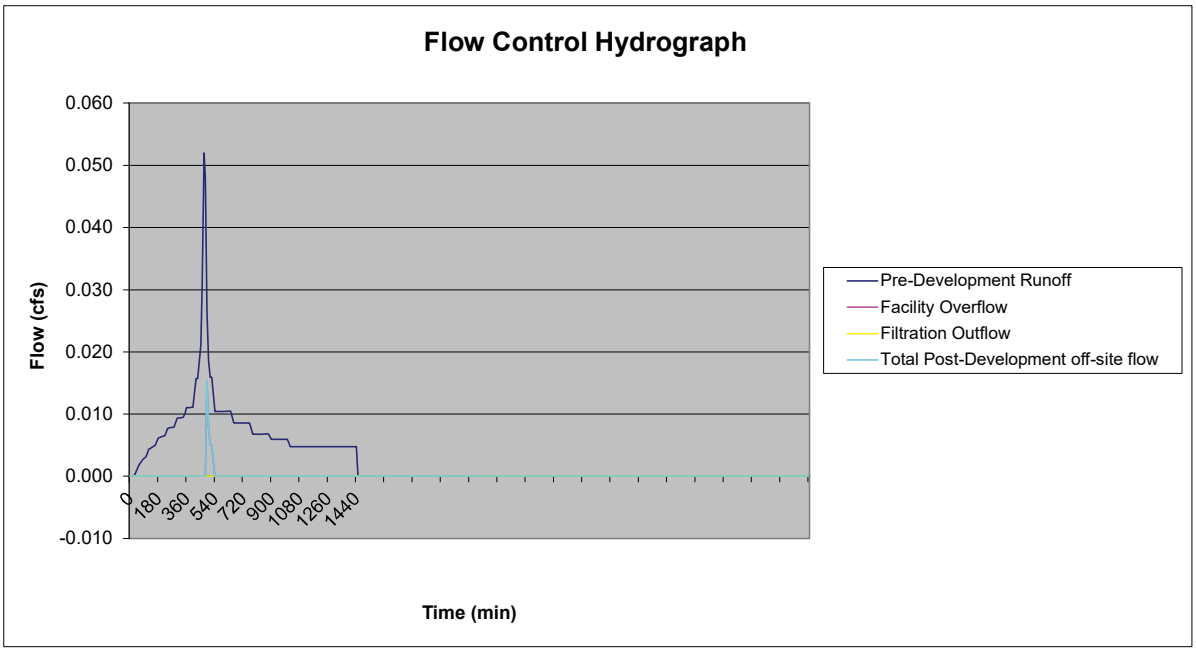


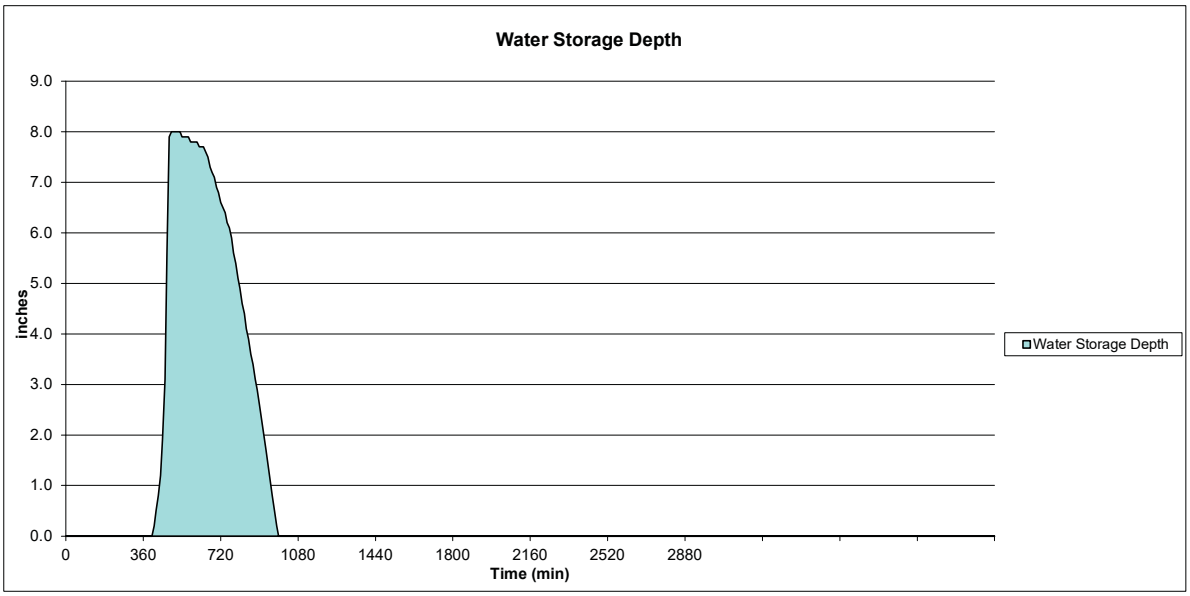




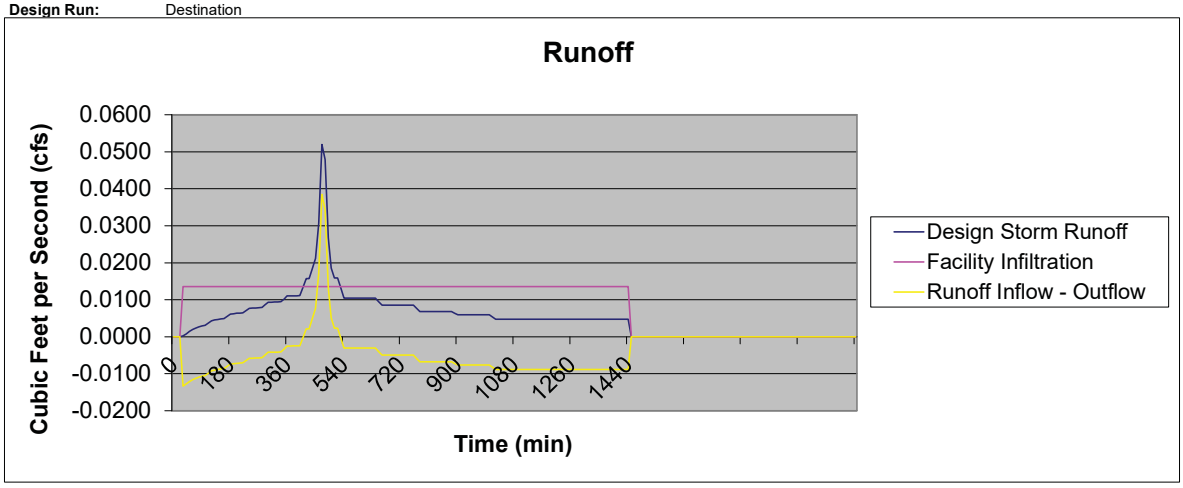
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3K
Design Run: Flow Control

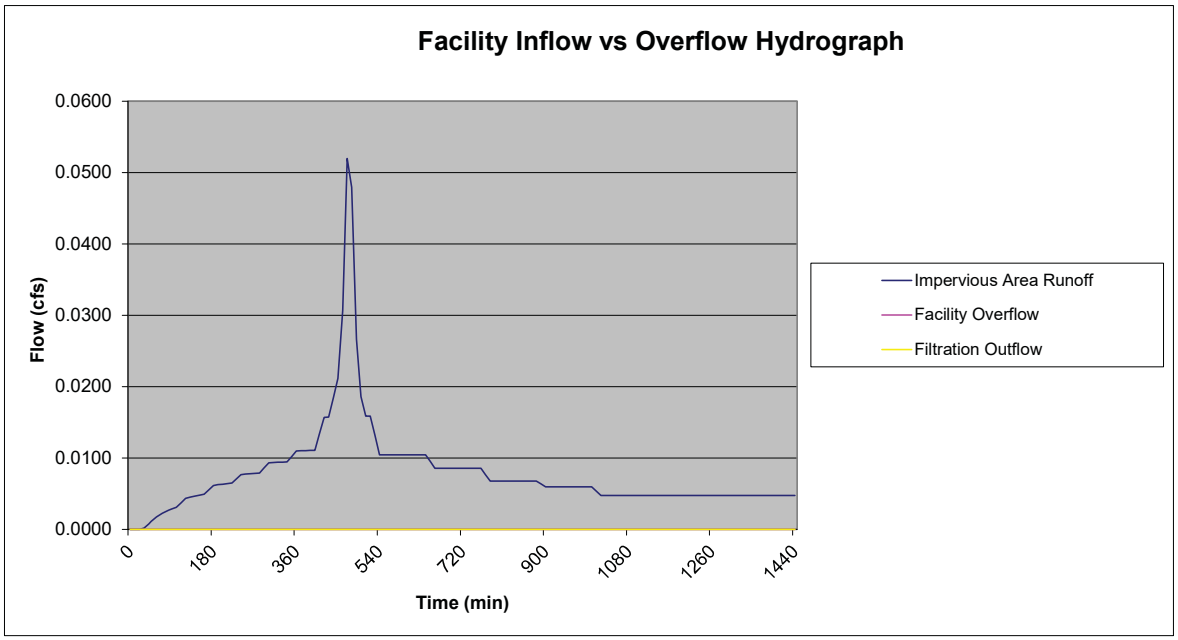


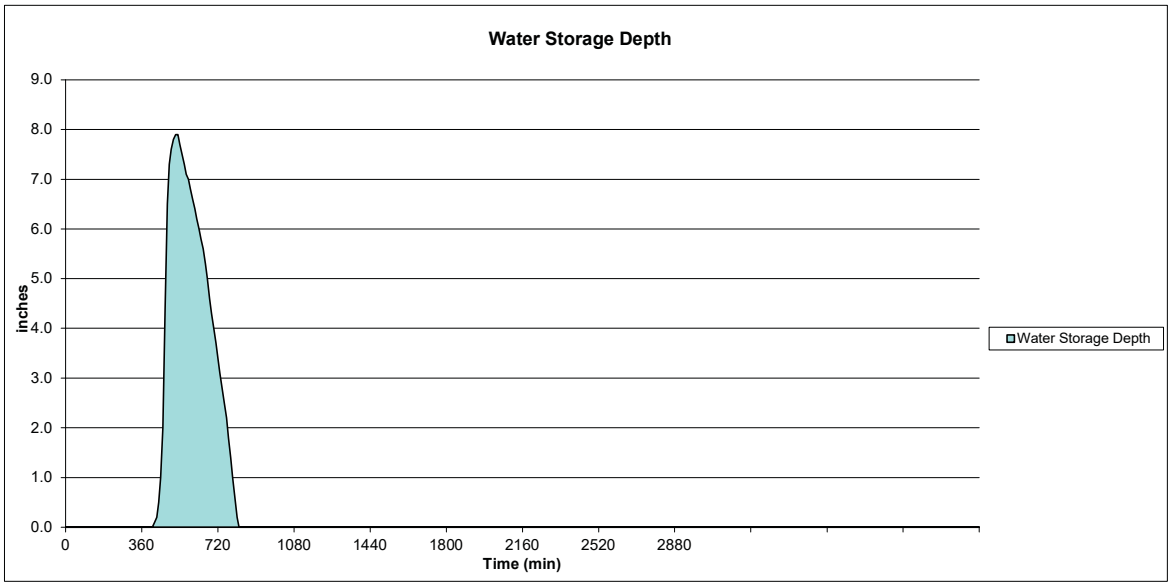




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3K
Design Run: Destination







Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet
24 Hour Storm, NRCS Type 1A Rainfall Distribution
City of Eugene

Version 2.1

Project Information

Project Name:	Three Mile Prairie	**Date:**	12/30/2020
Project Address:	18-12-15-00-00200	**Permit Number:**	NA
	Florence, OR	**Catchment ID:**	3L
Designer:	Clint Beecroft		
Company:	EGR & Associates		

Instructions:

1. Complete this form for each drainage catchment in the project site that is to be sized per the Presumptive Approach.
2. Provide a distinctive Catchment ID for each facility coordinated with the site basin map to correlate the appropriate calculations with the facility.
3. The maximum drainage catchment to be modeled per the Presumptive Approach is 1 acre (43,560 SF)
4. For infiltration facilities in Class A or B soils where no infiltration testing has been perfromed use an infiltration rate of 0.5 in/hr. For all facilities use a maximum soil infiltration rate of 2.5 in/hr for topsoil/growing medium.

Design Requirements:

Choose "Yes" from the dropdown boxes below next to the design standards requirements for this facility.

Pollution Reduction (PR)	Yes
Flow Control (FC)	Yes
Destination (DT)	Yes

*An infiltration facility must be chosen as the facility type to meet destination requirements

Site Data-Post Development

Total Square Footage Impervious Area=	1695	sqft	**Total Square Footage Pervious Area=**	0	sqft
Impervious Area CN=	98		**Pervious Area CN=**	85	
Total Square Footage of Drainage Area=	1695	sft	**Time of Concentration Post Development=**	5	min
Weighted Average CN=	98				

Site Data-Pre Development (Data in this section is only used if Flow Control is required)

Pre-Development CN=	98		**Time of Concentration Pre-Development=**	5	min

Soil Data

Tested Soil Infiltration Rate=	10	in/hr (See Note 4)	**Destination Design=**	5	in/hr
Design Soil Infiltration Rate=	4	in/hr	**Soil Infiltration Rate**		

Design Storms Used For Calculations

Requirement	Rainfall Depth		Design Storm
Pollution Reduction	0.8	inches	Water Quality
Flow Control	5.1	inches	Flood Control
Destination	5.1	inches	Flood Control

Facility Data

Facility Type=	Infiltration Stormwater Planter		**Facility Surface Area=**	117	sqft
Surface Width=	11.7	ft	**Facility Surface Perimeter=**	43.4	ft
Surface Length=	10	ft	**Facility Bottom Area=**	117	sqft
Facility Side Slopes=	0	to 1	**Facility Bottom Perimeter=**	43	ft
Max. Ponding Depth in Stormwater Facility=	8	in	**Basin Volume=**	78.0	cf
Depth of Growing Medium (Soil)=	18	in	**Ratio of Facility Area to Impervious Area=**	0.069	

Pollution Reduction-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.007	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	88	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	0.0	in			
Drawdown Time=	0.2	hours			

Yes **Facility Sizing Meets Pollution Reduction Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

Flow Control-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.052	cfs	Peak Facility Overflow Rate=	0.015	cfs
Total Runoff Volume to Stormwater Facility =	680	cf	Total Overflow Volume=	21	cf
Max. Depth of Stormwater in Facility=	8.0	in	Peak Off-Site Flow Rate Filtration Facility Underdrain=	N\A	cfs
Drawdown Time=	0.2	hours			

Pre-Development Runoff Data

Peak Flow Rate =	0.052	cfs
Total Runoff Volume =	681	cf

Yes **Facility Sizing Meets Flow Control Standards?**

YES **Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

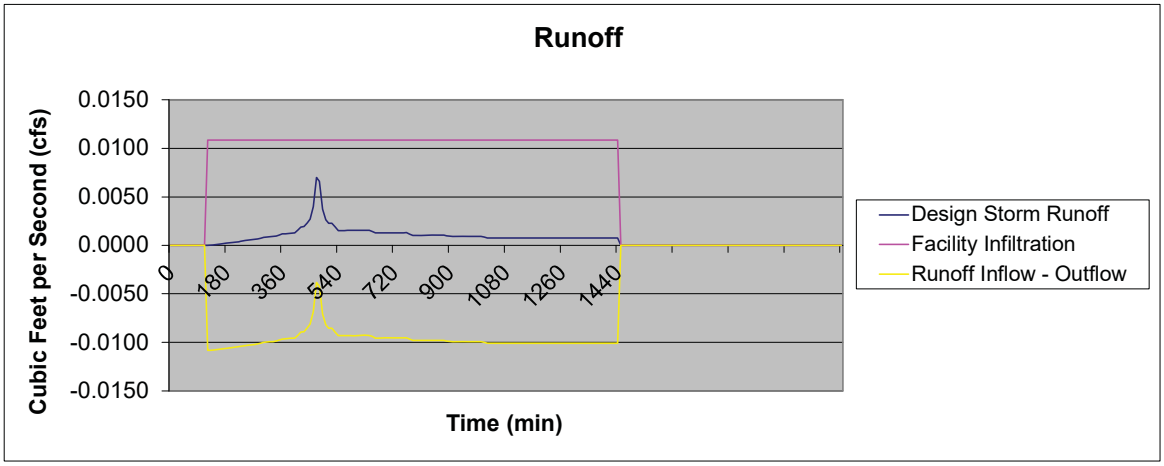
Destination-Calculation Results

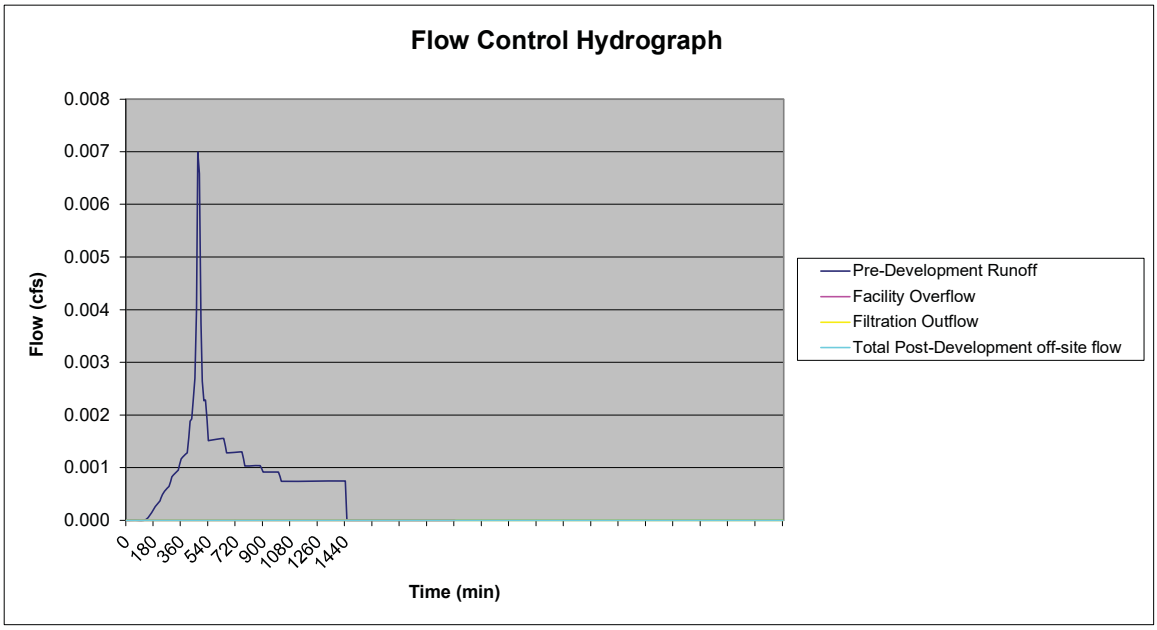
Peak Flow Rate to Stormwater Facility =	0.052	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	680	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	7.9	in			
Drawdown Time=	0.2	hours			

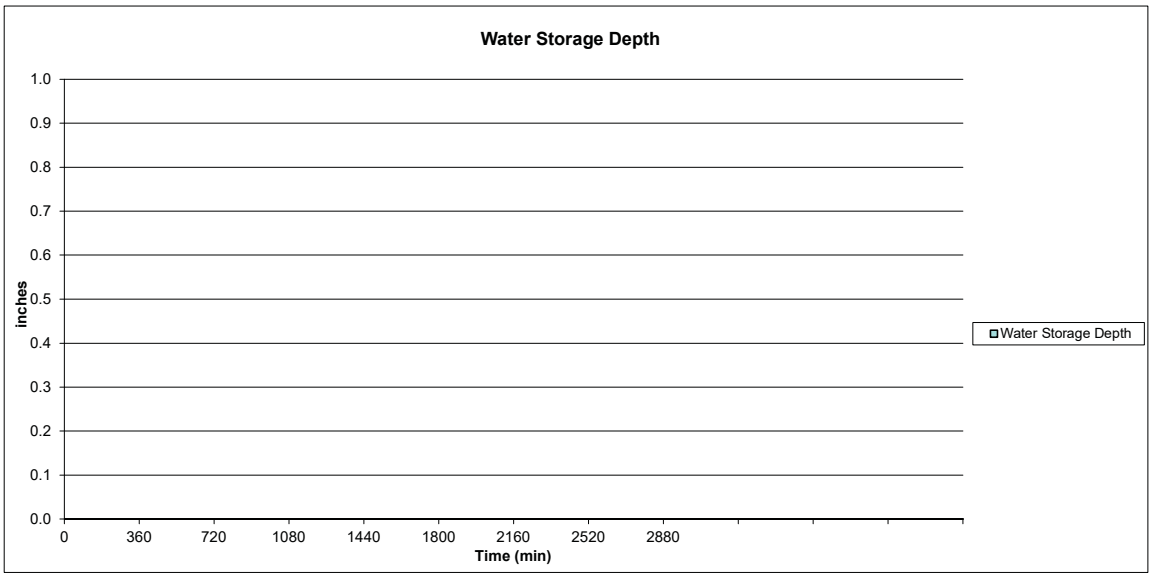
Yes **Facility Sizing Meets Destination Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 30 hour Drawdown Time?**

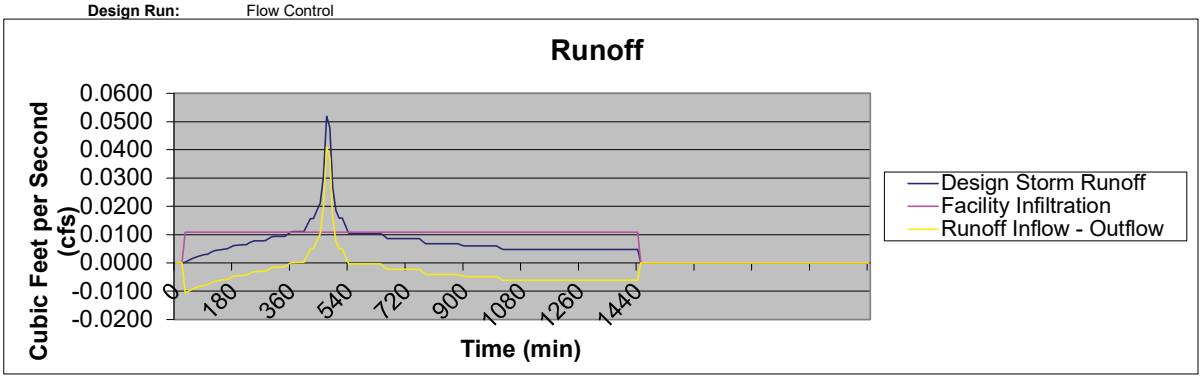
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3L
Design Run: Pollution Reduction

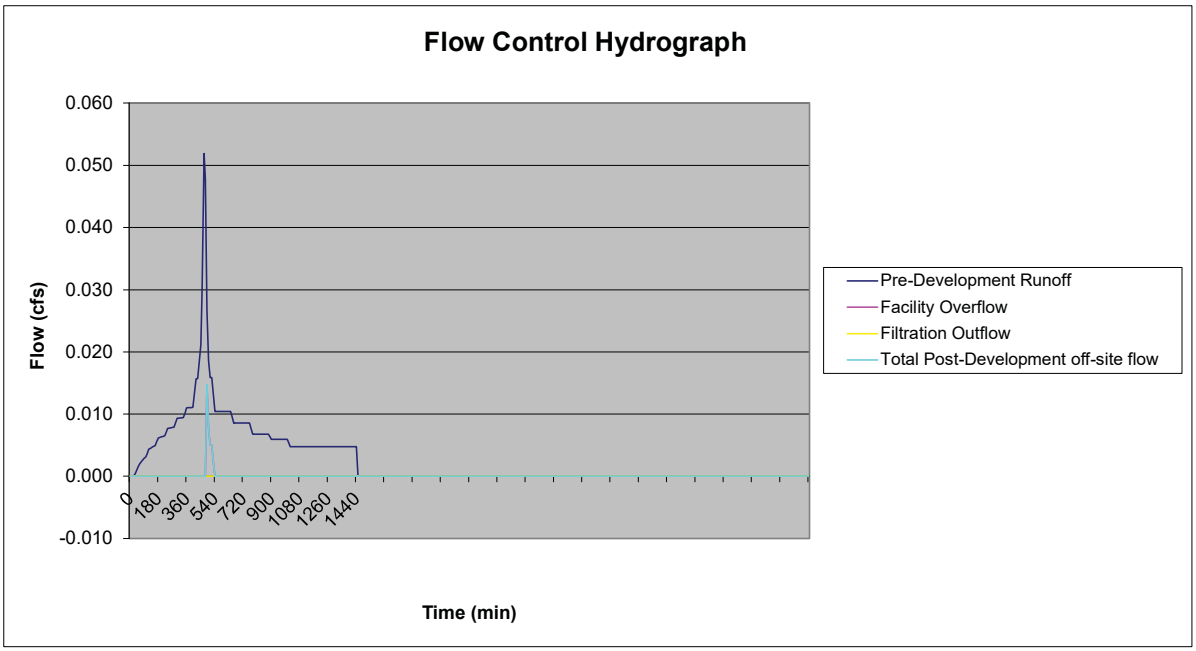


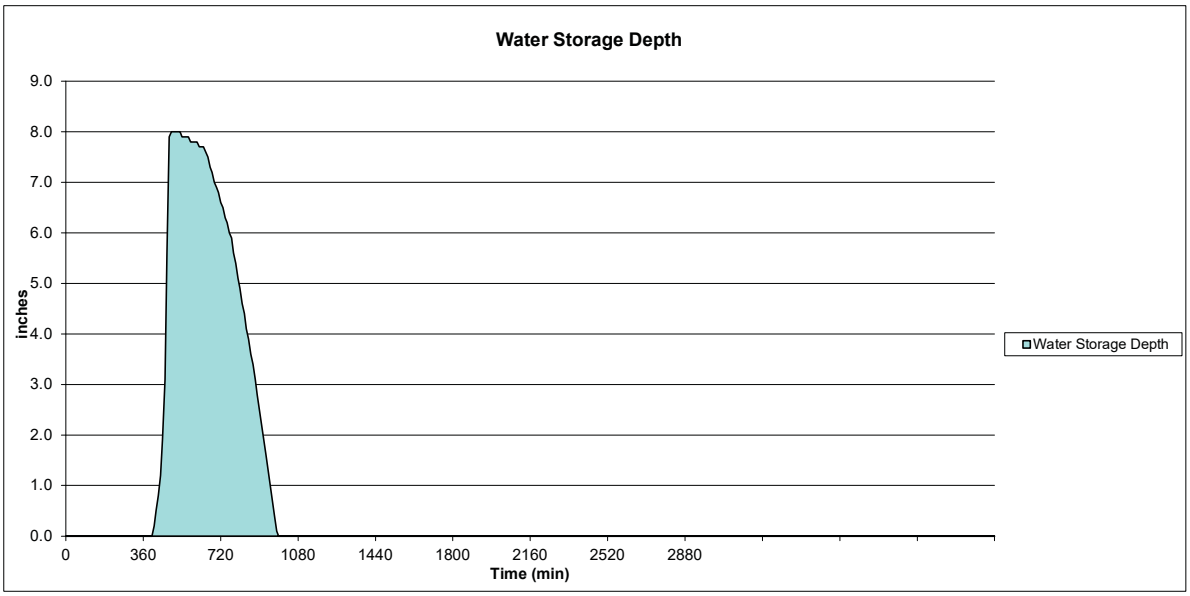




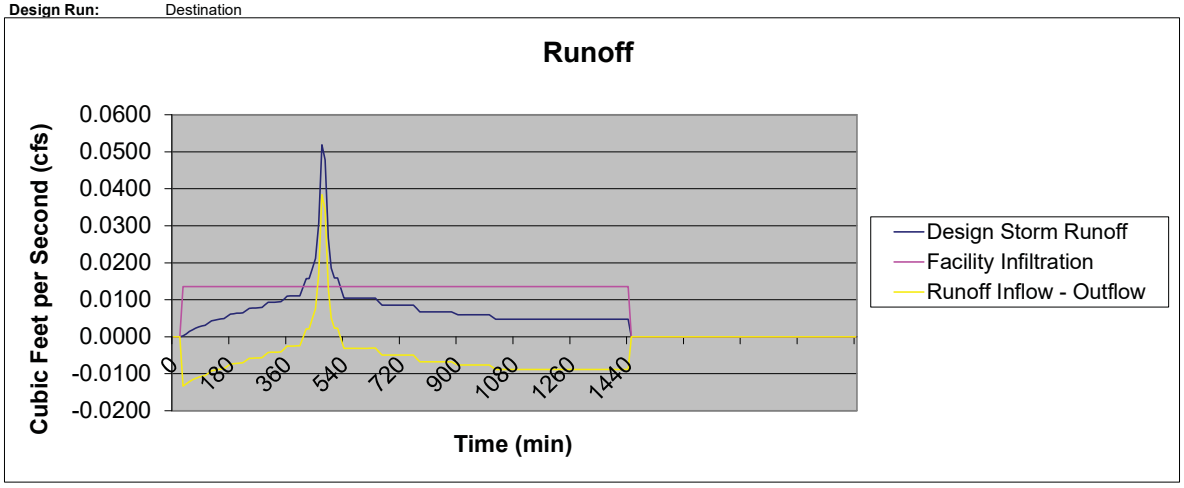
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3L
Design Run: Flow Control

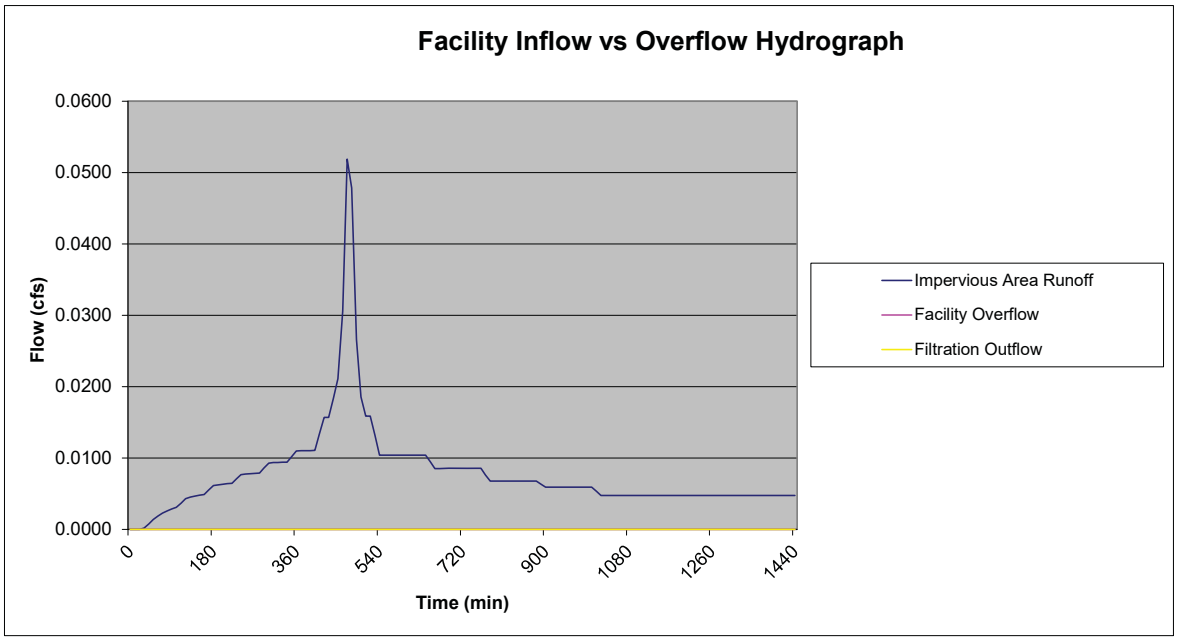


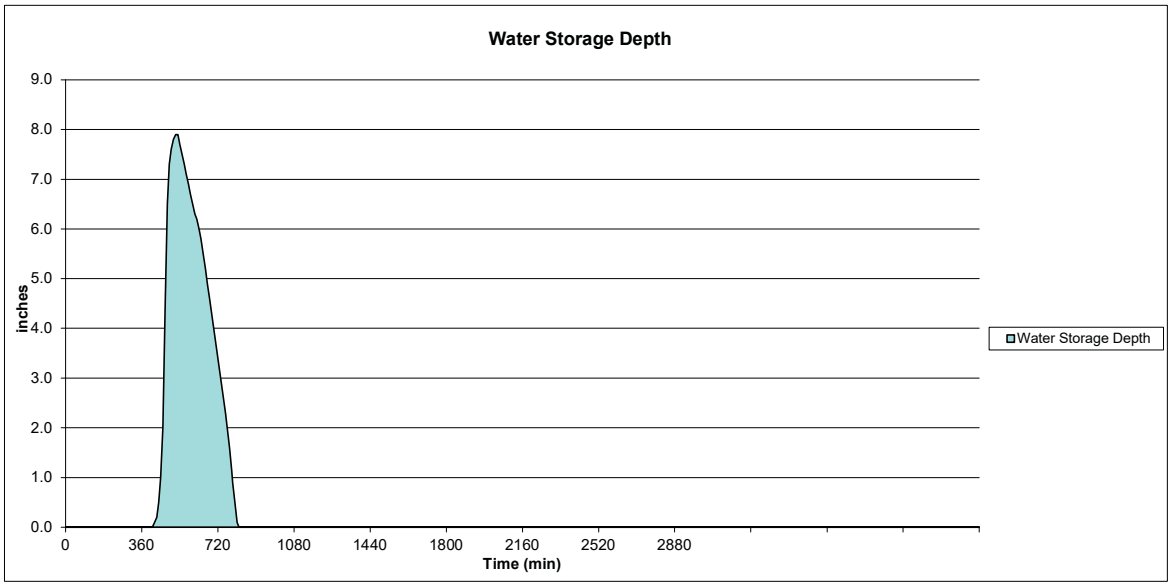




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3L
Design Run: Destination







Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet
24 Hour Storm, NRCS Type 1A Rainfall Distribution
City of Eugene

Version 2.1

Project Information

Project Name:	Three Mile Prairie	**Date:**	12/30/2020
Project Address:	18-12-15-00-00200	**Permit Number:**	NA
	Florence, OR	**Catchment ID:**	3M
Designer:	Clint Beecroft		
Company:	EGR & Associates		

Instructions:

1. Complete this form for each drainage catchment in the project site that is to be sized per the Presumptive Approach.
2. Provide a distinctive Catchment ID for each facility coordinated with the site basin map to correlate the appropriate calculations with the facility.
3. The maximum drainage catchment to be modeled per the Presumptive Approach is 1 acre (43,560 SF)
4. For infiltration facilities in Class A or B soils where no infiltration testing has been perfromed use an infiltration rate of 0.5 in/hr. For all facilities use a maximum soil infiltration rate of 2.5 in/hr for topsoil/growing medium.

Design Requirements:

Choose "Yes" from the dropdown boxes below next to the design standards requirements for this facility.

Pollution Reduction (PR)	Yes
Flow Control (FC)	Yes
Destination (DT)	Yes

*An infiltration facility must be chosen as the facility type to meet destination requirements

Site Data-Post Development

Total Square Footage Impervious Area=	558	sqft	**Total Square Footage Pervious Area=**	0	sqft
Impervious Area CN=	98		**Pervious Area CN=**	85	
Total Square Footage of Drainage Area=	558	sft	**Time of Concentration Post Development=**	5	min
Weighted Average CN=	98				

Site Data-Pre Development (Data in this section is only used if Flow Control is required)

Pre-Development CN=	98		**Time of Concentration Pre-Development=**	5	min

Soil Data

Tested Soil Infiltration Rate=	10	in/hr (See Note 4)	**Destination Design=**	5	in/hr
Design Soil Infiltration Rate=	4	in/hr	**Soil Infiltration Rate**		

Design Storms Used For Calculations

Requirement	Rainfall Depth		Design Storm
Pollution Reduction	0.8	inches	Water Quality
Flow Control	5.1	inches	Flood Control
Destination	5.1	inches	Flood Control

Facility Data

Facility Type=	Infiltration Stormwater Planter		**Facility Surface Area=**	107.8	sqft
Surface Width=	7.7	ft	**Facility Surface Perimeter=**	43.4	ft
Surface Length=	14	ft	**Facility Bottom Area=**	52	sqft
Facility Side Slopes=	3	to 1	**Facility Bottom Perimeter=**	31	ft
Max. Ponding Depth in Stormwater Facility=	6	in	**Basin Volume=**	42.1	cf
Depth of Growing Medium (Soil)=	18	in	**Ratio of Facility Area to Impervious Area=**	0.193	

Pollution Reduction-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.002	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	29	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	0.0	in			
Drawdown Time=	0.2	hours			

Yes **Facility Sizing Meets Pollution Reduction Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

Flow Control-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.017	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	224	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	3.0	in	Peak Off-Site Flow Rate Filtration Facility Underdrain=	N\A	cfs
Drawdown Time=	0.2	hours			

Pre-Development Runoff Data

Peak Flow Rate =	0.017	cfs
Total Runoff Volume =	224	cf

Yes **Facility Sizing Meets Flow Control Standards?**

YES **Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

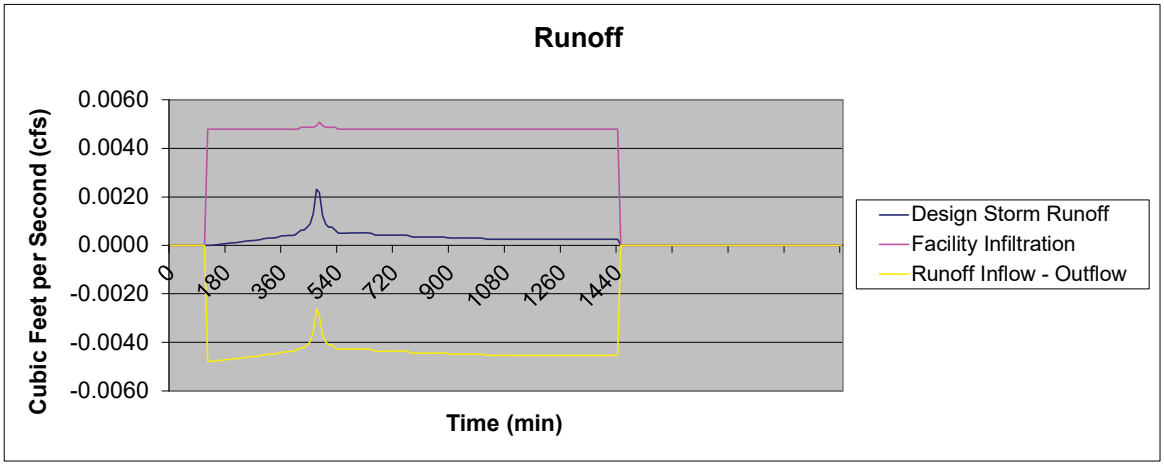
Destination-Calculation Results

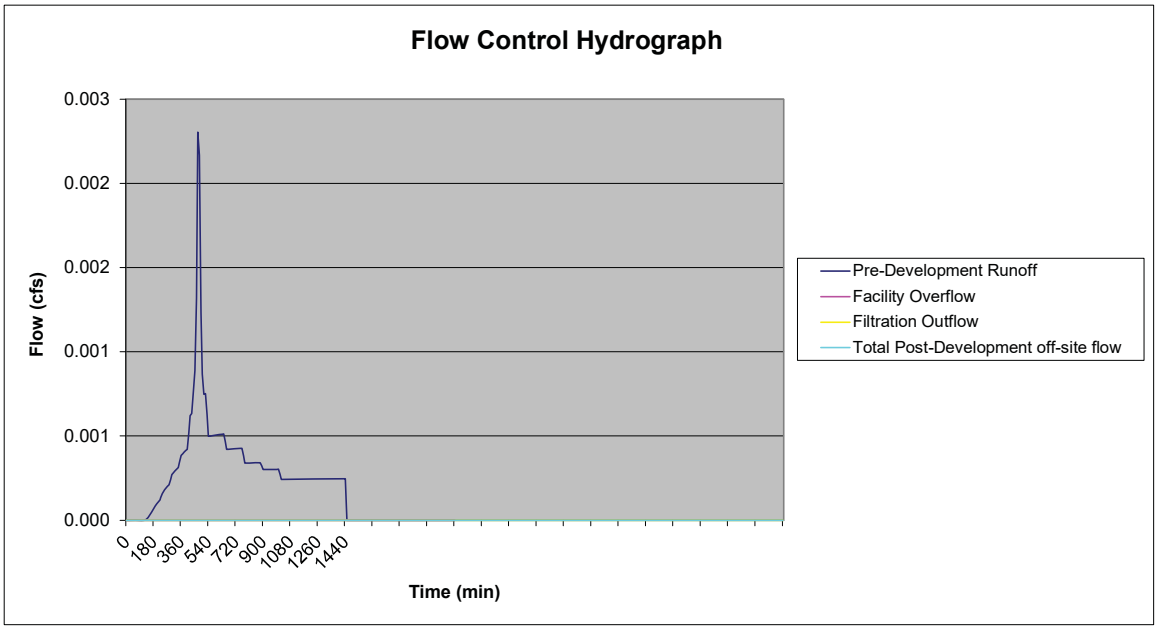
Peak Flow Rate to Stormwater Facility =	0.017	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	224	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	2.3	in			
Drawdown Time=	0.2	hours			

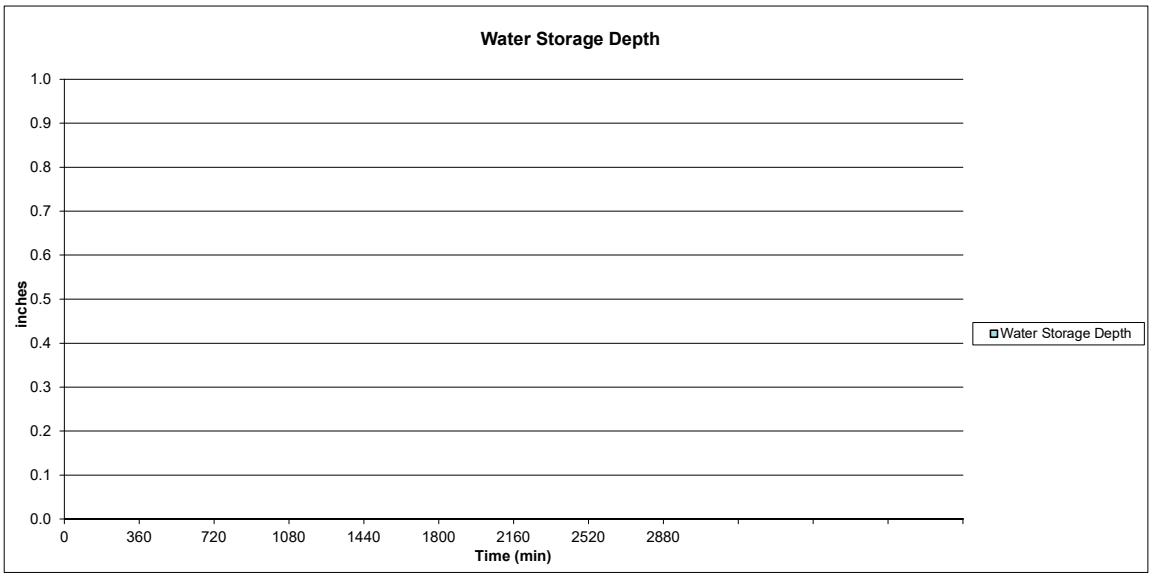
Yes **Facility Sizing Meets Destination Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 30 hour Drawdown Time?**

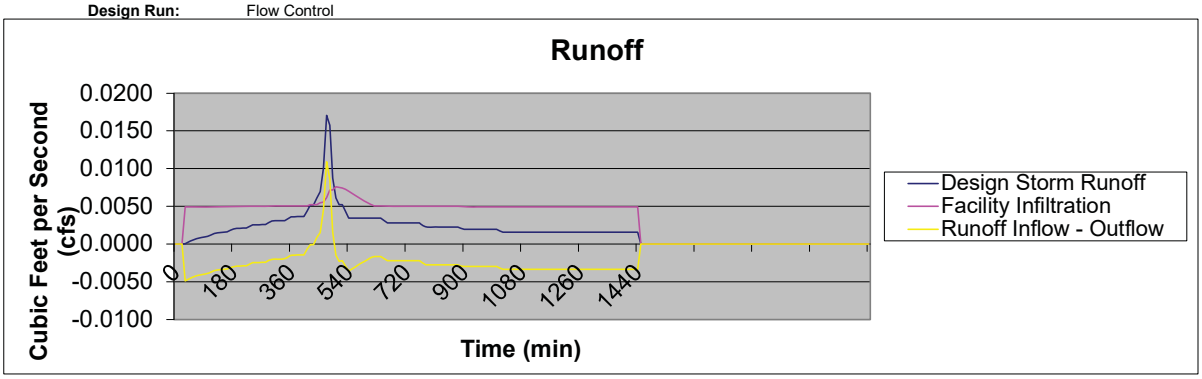
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3M
Design Run: Pollution Reduction

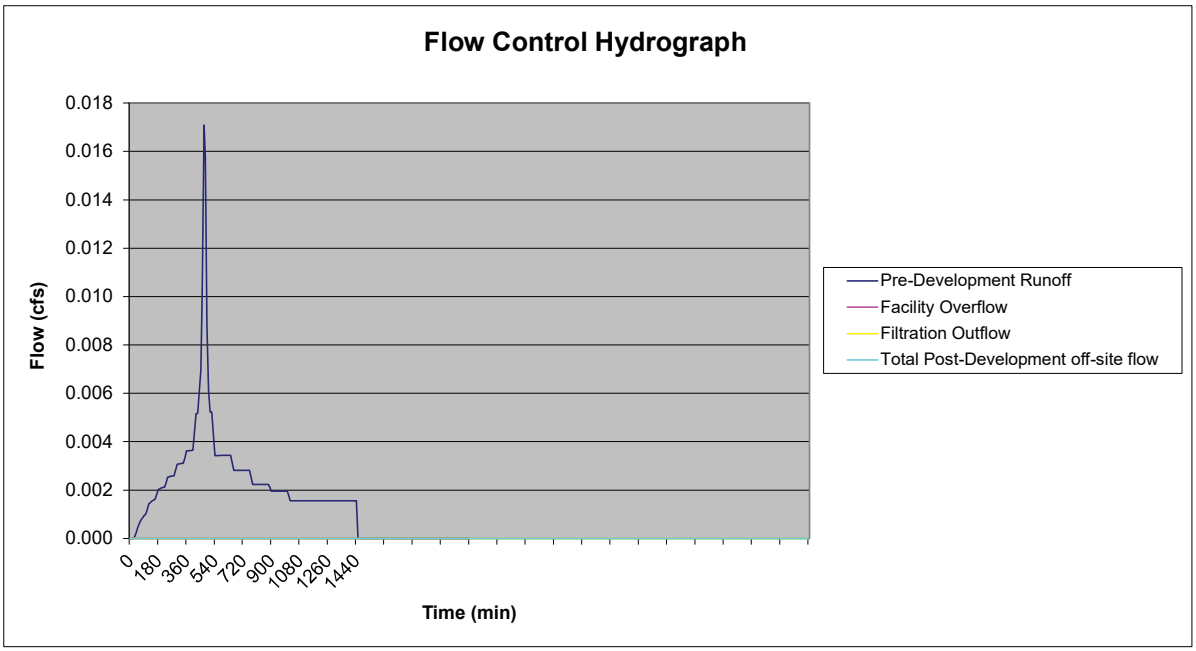


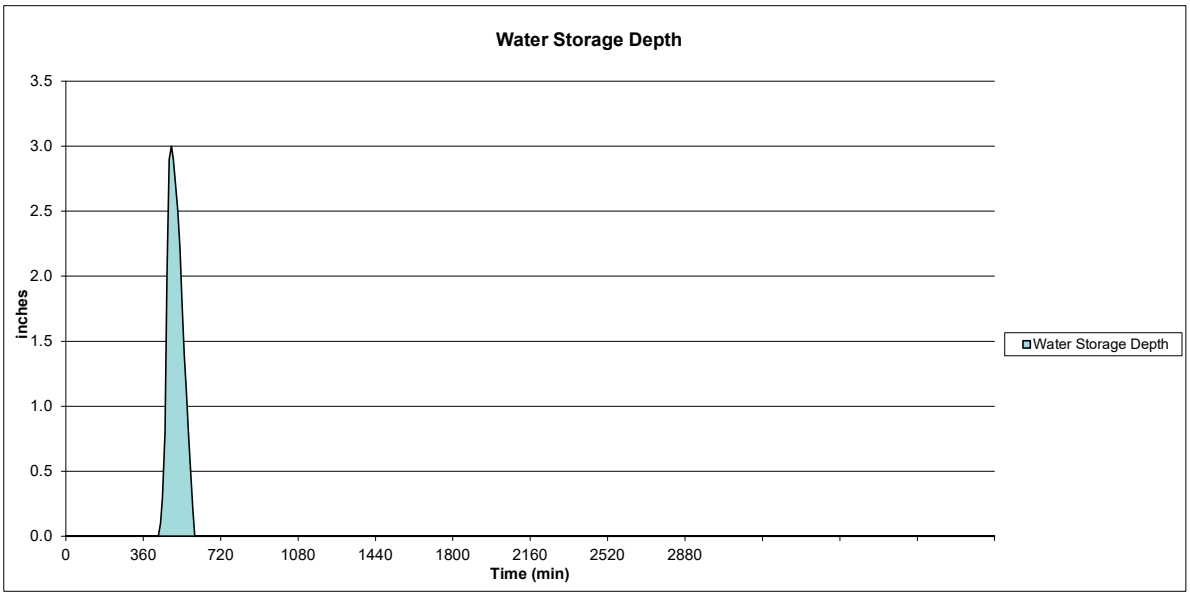




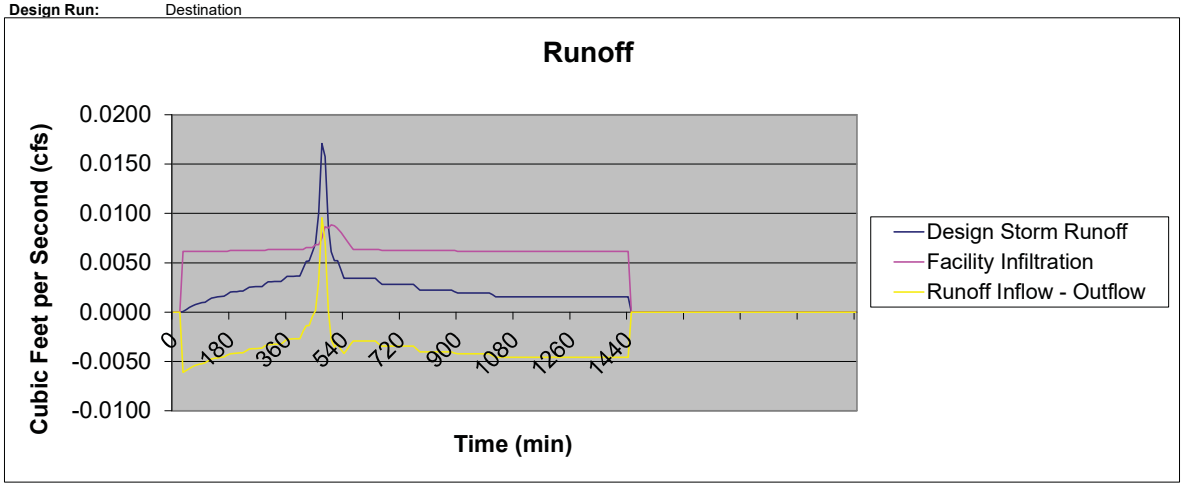
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3M
Design Run: Flow Control

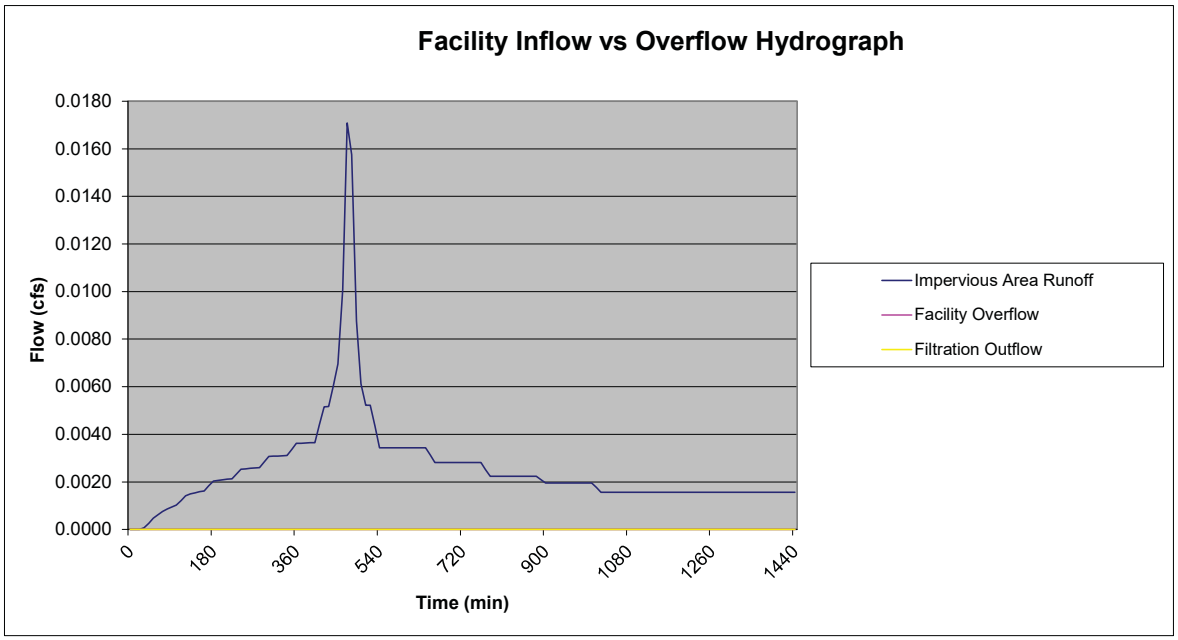


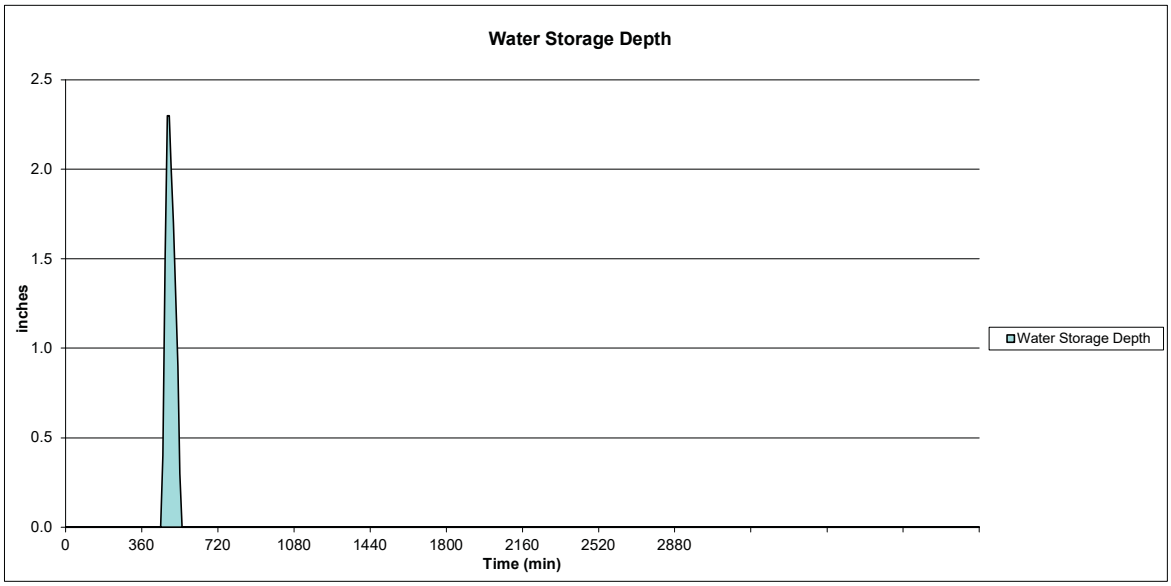




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3M
Design Run: Destination







Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet
24 Hour Storm, NRCS Type 1A Rainfall Distribution
City of Eugene

Version 2.1

Project Information

Project Name:	Three Mile Prairie	**Date:**	12/30/2020
Project Address:	18-12-15-00-00200	**Permit Number:**	NA
	Florence, OR	**Catchment ID:**	3N
Designer:	Clint Beecroft		
Company:	EGR & Associates		

Instructions:

1. Complete this form for each drainage catchment in the project site that is to be sized per the Presumptive Approach.
2. Provide a distinctive Catchment ID for each facility coordinated with the site basin map to correlate the appropriate calculations with the facility.
3. The maximum drainage catchment to be modeled per the Presumptive Approach is 1 acre (43,560 SF)
4. For infiltration facilities in Class A or B soils where no infiltration testing has been perfromed use an infiltration rate of 0.5 in/hr. For all facilities use a maximum soil infiltration rate of 2.5 in/hr for topsoil/growing medium.

Design Requirements:

Choose "Yes" from the dropdown boxes below next to the design standards requirements for this facility.

Pollution Reduction (PR)	Yes
Flow Control (FC)	Yes
Destination (DT)	Yes

*An infiltration facility must be chosen as the facility type to meet destination requirements

Site Data-Post Development

Total Square Footage Impervious Area=	554	sqft	**Total Square Footage Pervious Area=**	0	sqft
Impervious Area CN=	98		**Pervious Area CN=**	85	
Total Square Footage of Drainage Area=	554	sft	**Time of Concentration Post Development=**	5	min
Weighted Average CN=	98				

Site Data-Pre Development (Data in this section is only used if Flow Control is required)

Pre-Development CN=	98		**Time of Concentration Pre-Development=**	5	min

Soil Data

Tested Soil Infiltration Rate=	10	in/hr (See Note 4)	**Destination Design=**	5	in/hr
Design Soil Infiltration Rate=	4	in/hr	**Soil Infiltration Rate**		

Design Storms Used For Calculations

Requirement	Rainfall Depth		Design Storm
Pollution Reduction	0.8	inches	Water Quality
Flow Control	5.1	inches	Flood Control
Destination	5.1	inches	Flood Control

Facility Data

Facility Type=	Infiltration Stormwater Planter		**Facility Surface Area=**	107.8	sqft
Surface Width=	7.7	ft	**Facility Surface Perimeter=**	43.4	ft
Surface Length=	14	ft	**Facility Bottom Area=**	52	sqft
Facility Side Slopes=	3	to 1	**Facility Bottom Perimeter=**	31	ft
Max. Ponding Depth in Stormwater Facility=	6	in	**Basin Volume=**	42.1	cf
Depth of Growing Medium (Soil)=	18	in	**Ratio of Facility Area to Impervious Area=**	0.195	

Pollution Reduction-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.002	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	29	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	0.0	in			
Drawdown Time=	0.2	hours			

Yes **Facility Sizing Meets Pollution Reduction Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

Flow Control-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.017	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	222	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	3.0	in	Peak Off-Site Flow Rate Filtration Facility Underdrain=	N\A	cfs
Drawdown Time=	0.2	hours			

Pre-Development Runoff Data

Peak Flow Rate =	0.017	cfs
Total Runoff Volume =	223	cf

Yes **Facility Sizing Meets Flow Control Standards?**

YES **Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

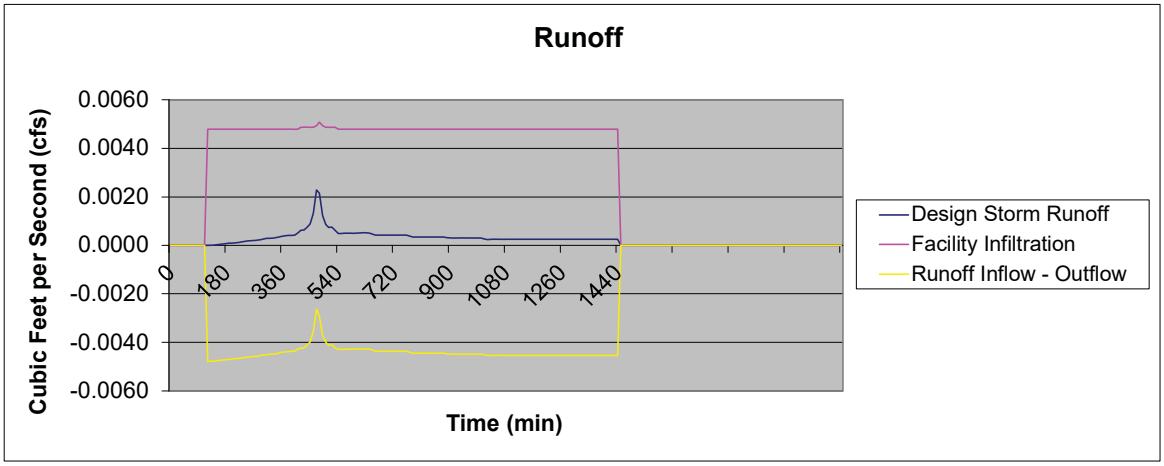
Destination-Calculation Results

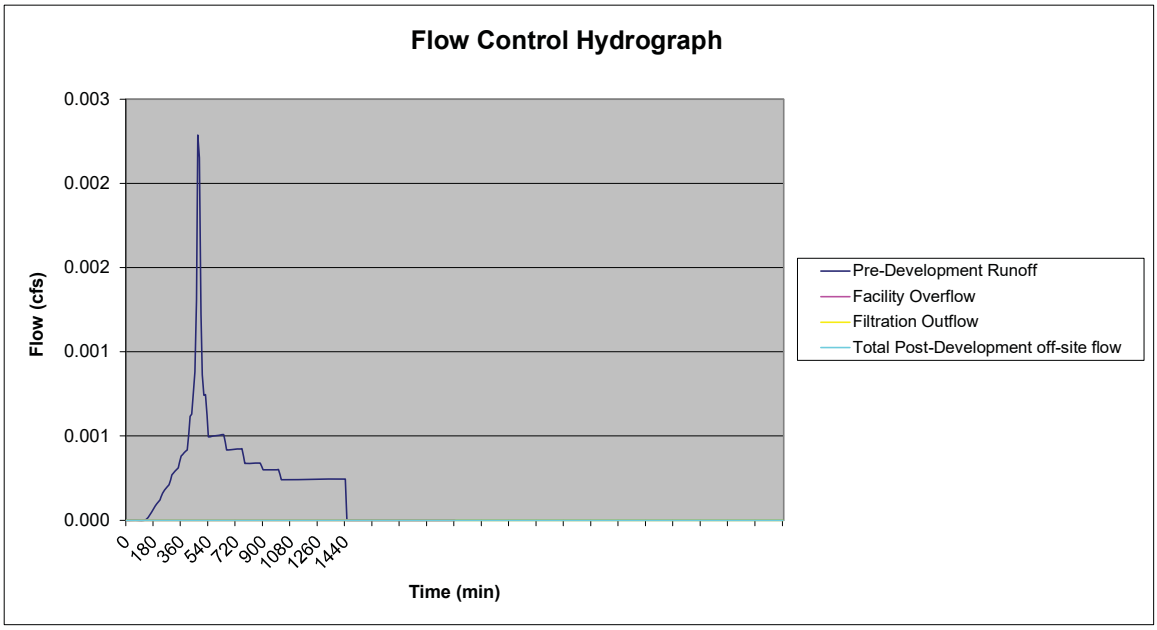
Peak Flow Rate to Stormwater Facility =	0.017	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	222	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	2.3	in			
Drawdown Time=	0.2	hours			

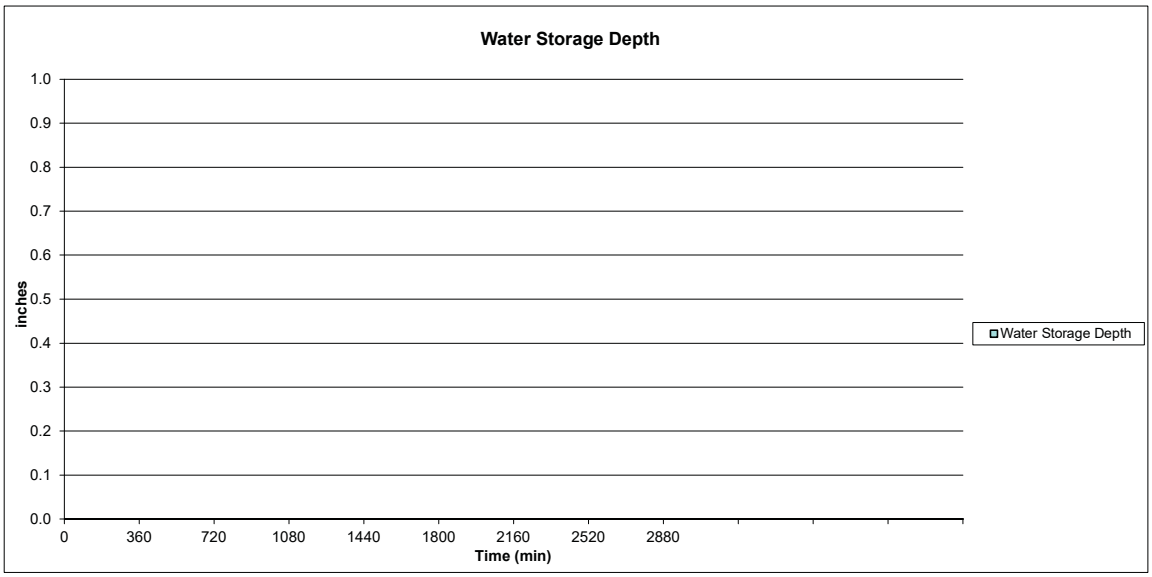
Yes **Facility Sizing Meets Destination Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 30 hour Drawdown Time?**

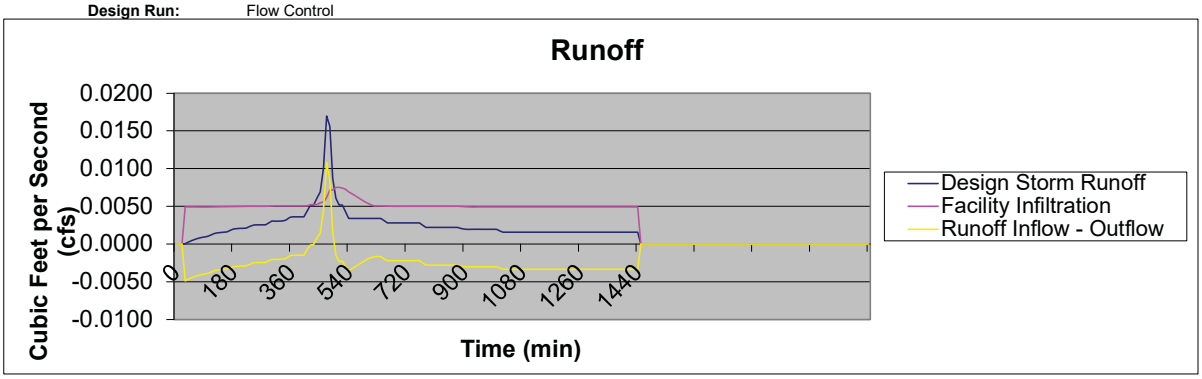
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3N
Design Run: Pollution Reduction

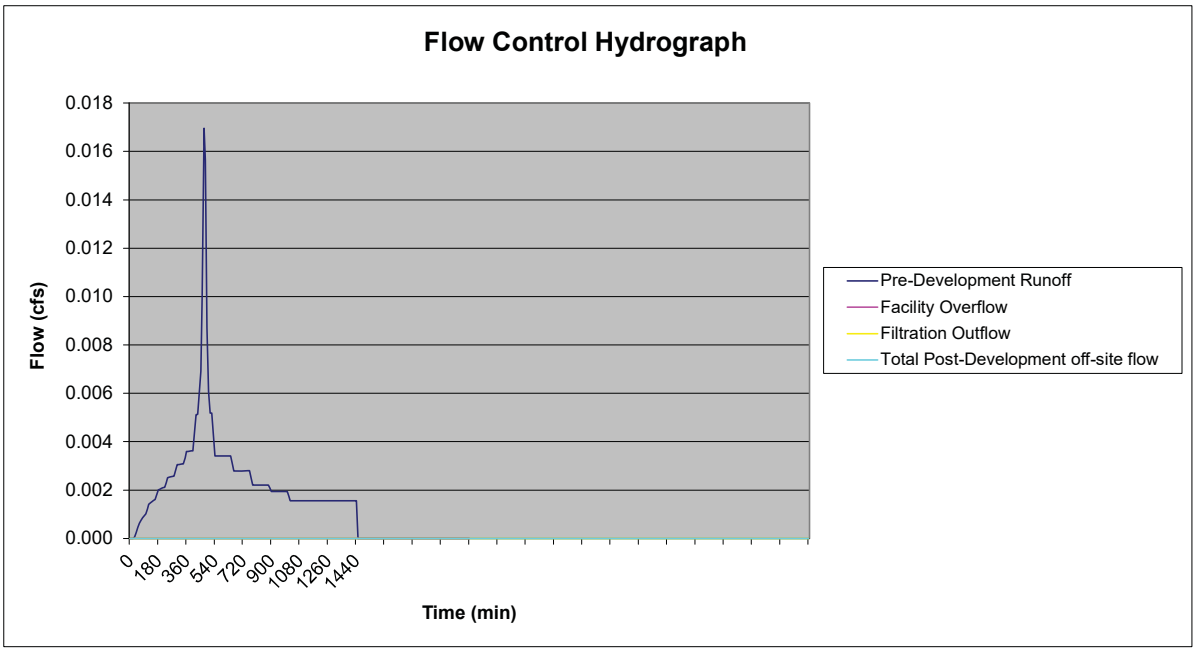


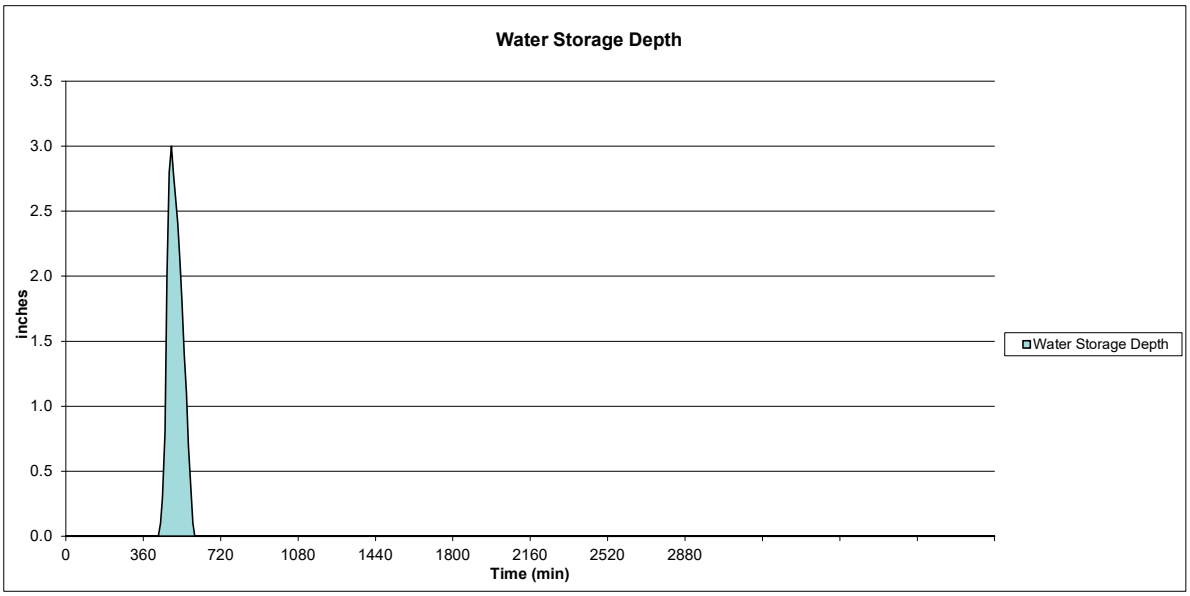




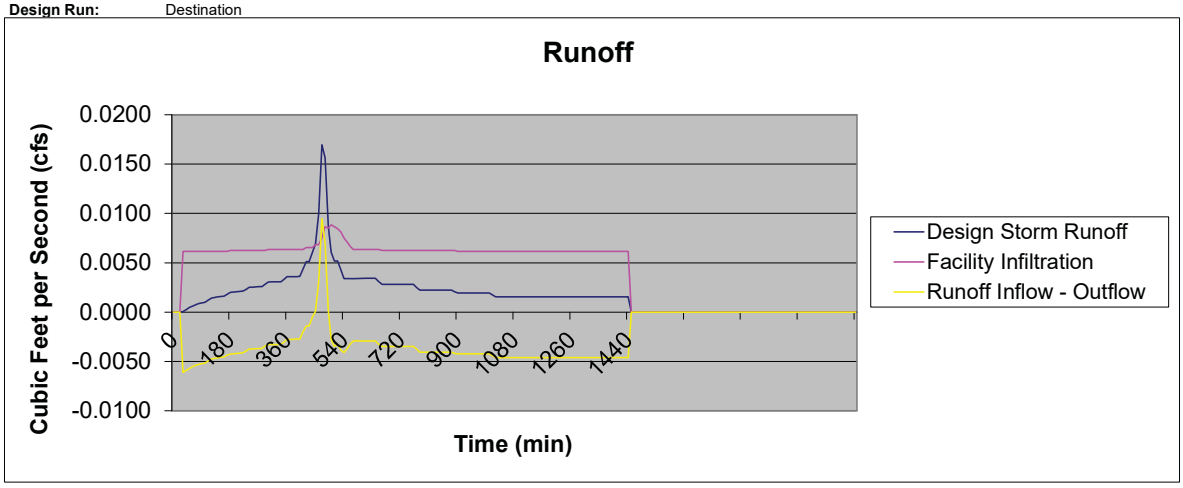
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3N
Design Run: Flow Control

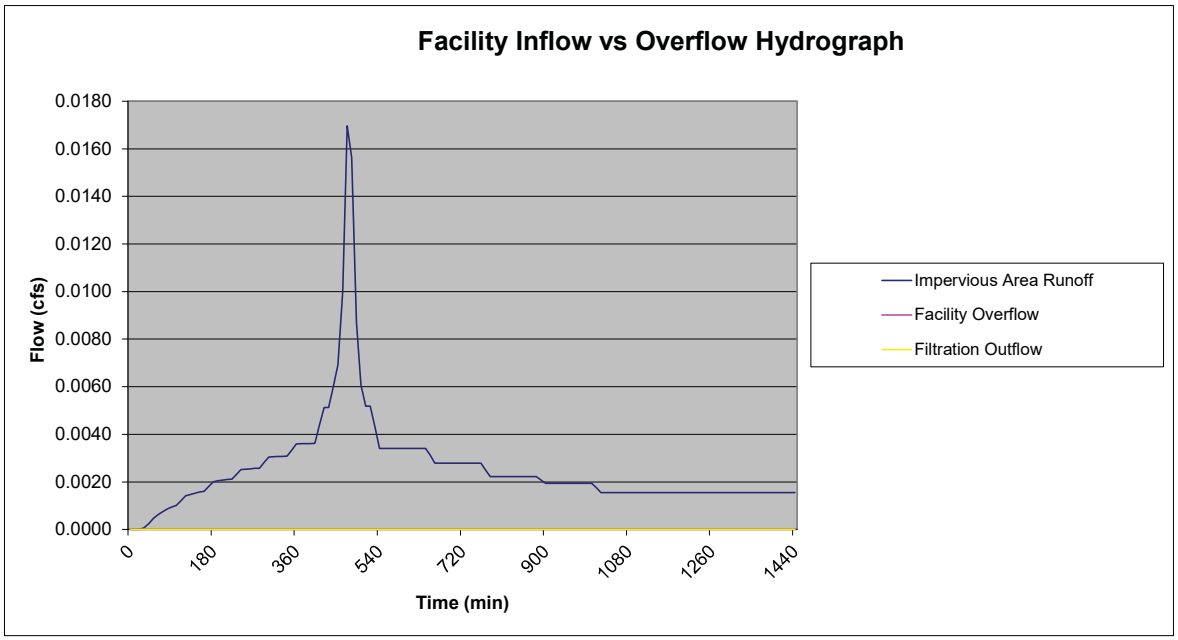


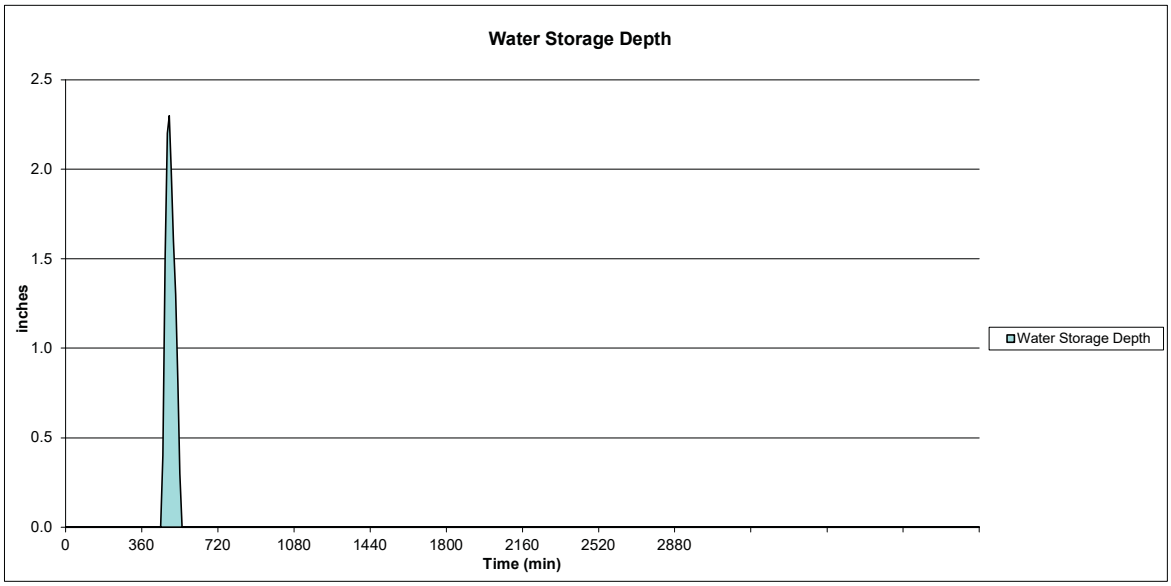




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 3N
Design Run: Destination







Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet
24 Hour Storm, NRCS Type 1A Rainfall Distribution
City of Eugene

Version 2.1

Project Information

Project Name:	Three Mile Prairie	**Date:**	12/30/2020
Project Address:	18-12-15-00-00200	**Permit Number:**	NA
	Florence, OR	**Catchment ID:**	4A
Designer:	Clint Beecroft		
Company:	EGR & Associates		

Instructions:

1. Complete this form for each drainage catchment in the project site that is to be sized per the Presumptive Approach.
2. Provide a distinctive Catchment ID for each facility coordinated with the site basin map to correlate the appropriate calculations with the facility.
3. The maximum drainage catchment to be modeled per the Presumptive Approach is 1 acre (43,560 SF)
4. For infiltration facilities in Class A or B soils where no infiltration testing has been perfromed use an infiltration rate of 0.5 in/hr. For all facilities use a maximum soil infiltration rate of 2.5 in/hr for topsoil/growing medium.

Design Requirements:

Choose "Yes" from the dropdown boxes below next to the design standards requirements for this facility.

Pollution Reduction (PR)	Yes
Flow Control (FC)	Yes
Destination (DT)	Yes

*An infiltration facility must be chosen as the facility type to meet destination requirements

Site Data-Post Development

Total Square Footage Impervious Area=	1698	sqft	**Total Square Footage Pervious Area=**	0	sqft
Impervious Area CN=	98		**Pervious Area CN=**	85	
Total Square Footage of Drainage Area=	1698	sft	**Time of Concentration Post Development=**	5	min
Weighted Average CN=	98				

Site Data-Pre Development (Data in this section is only used if Flow Control is required)

Pre-Development CN=	98		**Time of Concentration Pre-Development=**	5	min

Soil Data

Tested Soil Infiltration Rate=	10	in/hr (See Note 4)	**Destination Design=**	5	in/hr
Design Soil Infiltration Rate=	4	in/hr	**Soil Infiltration Rate**		

Design Storms Used For Calculations

Requirement	Rainfall Depth		Design Storm
Pollution Reduction	0.8	inches	Water Quality
Flow Control	5.1	inches	Flood Control
Destination	5.1	inches	Flood Control

Facility Data

Facility Type=	Infiltration Stormwater Planter		**Facility Surface Area=**	117	sqft
Surface Width=	11.7	ft	**Facility Surface Perimeter=**	43.4	ft
Surface Length=	10	ft	**Facility Bottom Area=**	117	sqft
Facility Side Slopes=	0	to 1	**Facility Bottom Perimeter=**	43	ft
Max. Ponding Depth in Stormwater Facility=	8	in	**Basin Volume=**	78.0	cf
Depth of Growing Medium (Soil)=	18	in	**Ratio of Facility Area to Impervious Area=**	0.069	

Pollution Reduction-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.007	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	89	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	0.0	in			
Drawdown Time=	0.2	hours			

Yes **Facility Sizing Meets Pollution Reduction Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

Flow Control-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.052	cfs	Peak Facility Overflow Rate=	0.015	cfs
Total Runoff Volume to Stormwater Facility =	681	cf	Total Overflow Volume=	21	cf
Max. Depth of Stormwater in Facility=	8.0	in	Peak Off-Site Flow Rate Filtration Facility Underdrain=	N\A	cfs
Drawdown Time=	0.2	hours			

Pre-Development Runoff Data

Peak Flow Rate =	0.052	cfs
Total Runoff Volume =	682	cf

Yes **Facility Sizing Meets Flow Control Standards?**

YES **Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

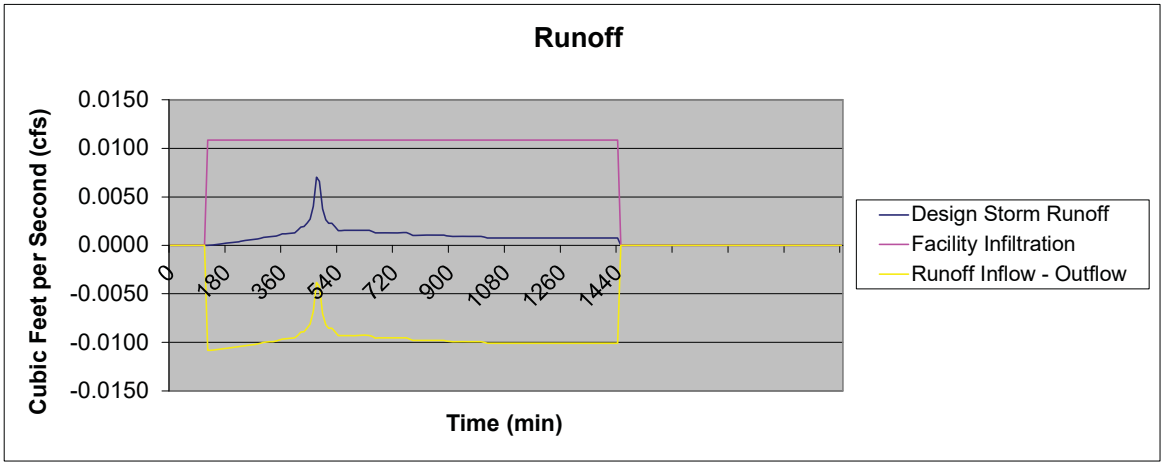
Destination-Calculation Results

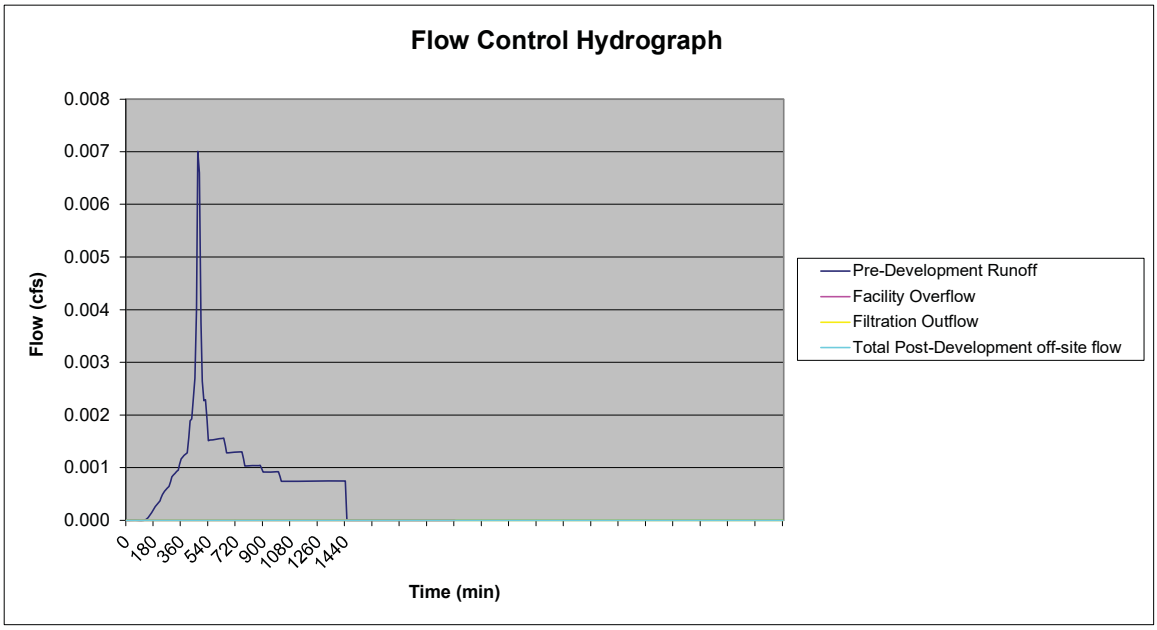
Peak Flow Rate to Stormwater Facility =	0.052	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	681	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	7.9	in			
Drawdown Time=	0.2	hours			

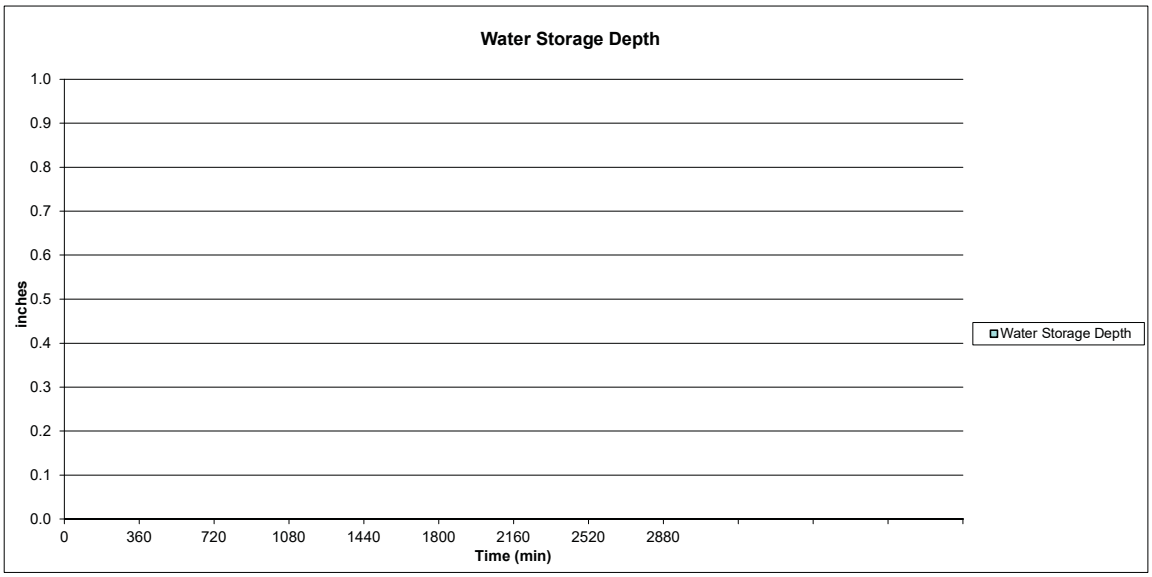
Yes **Facility Sizing Meets Destination Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 30 hour Drawdown Time?**

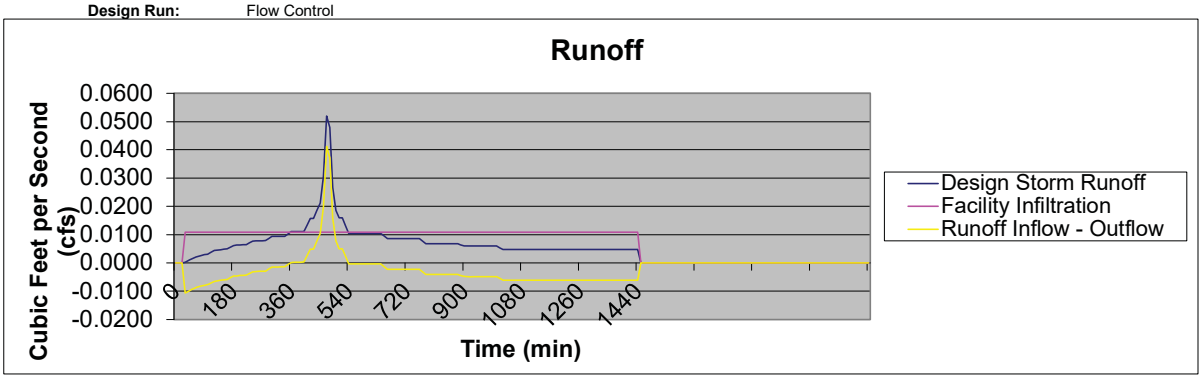
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 4A
Design Run: Pollution Reduction

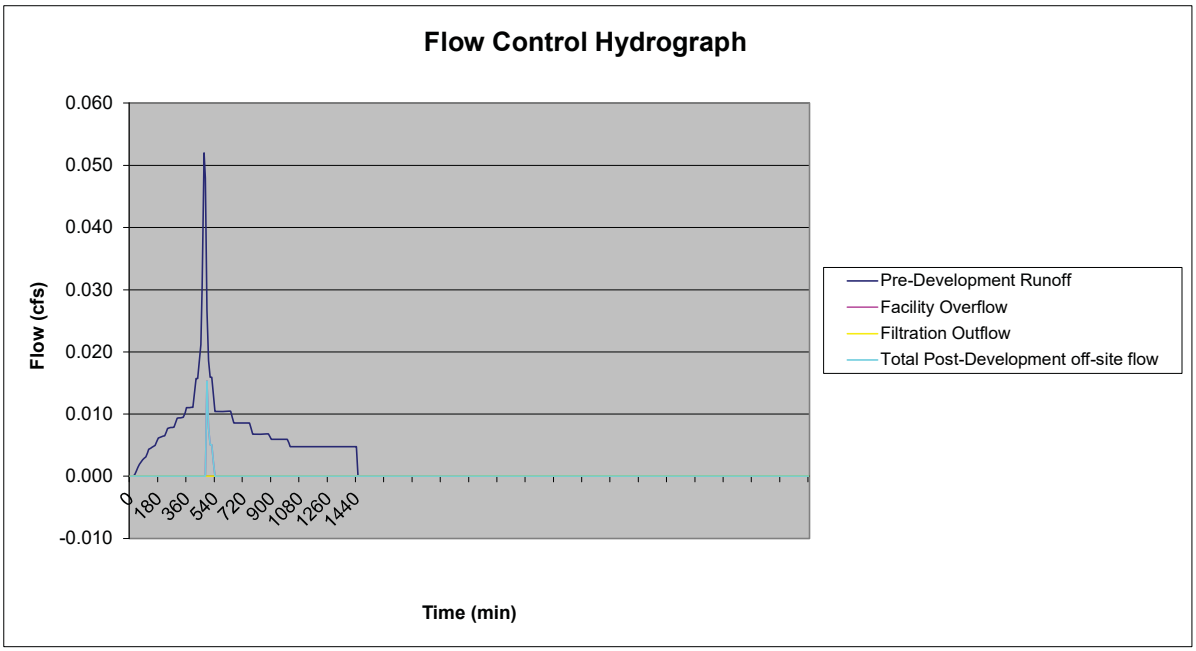


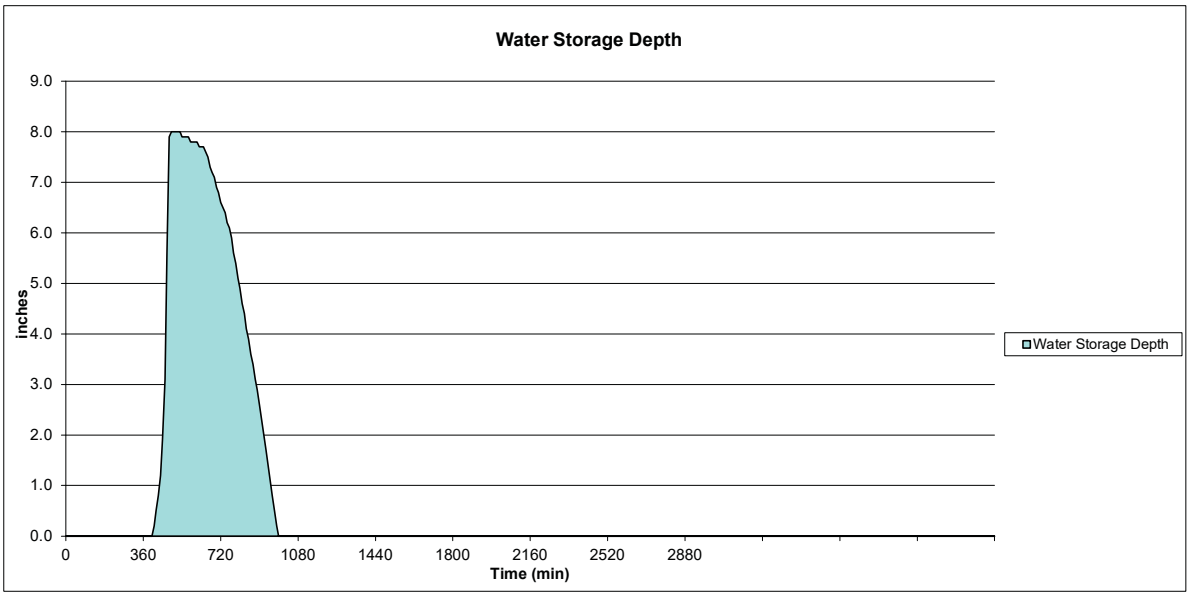




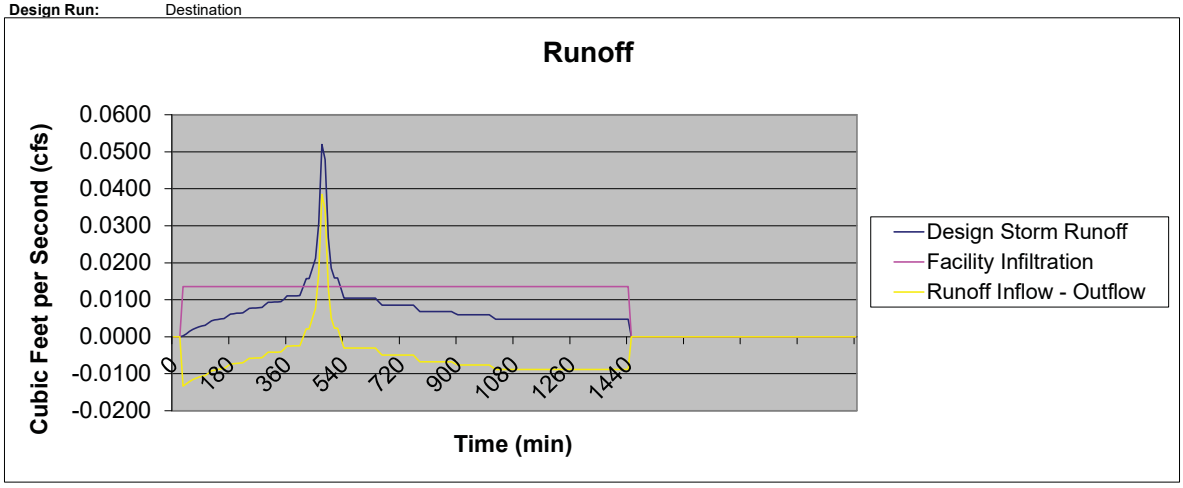
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 4A
Design Run: Flow Control

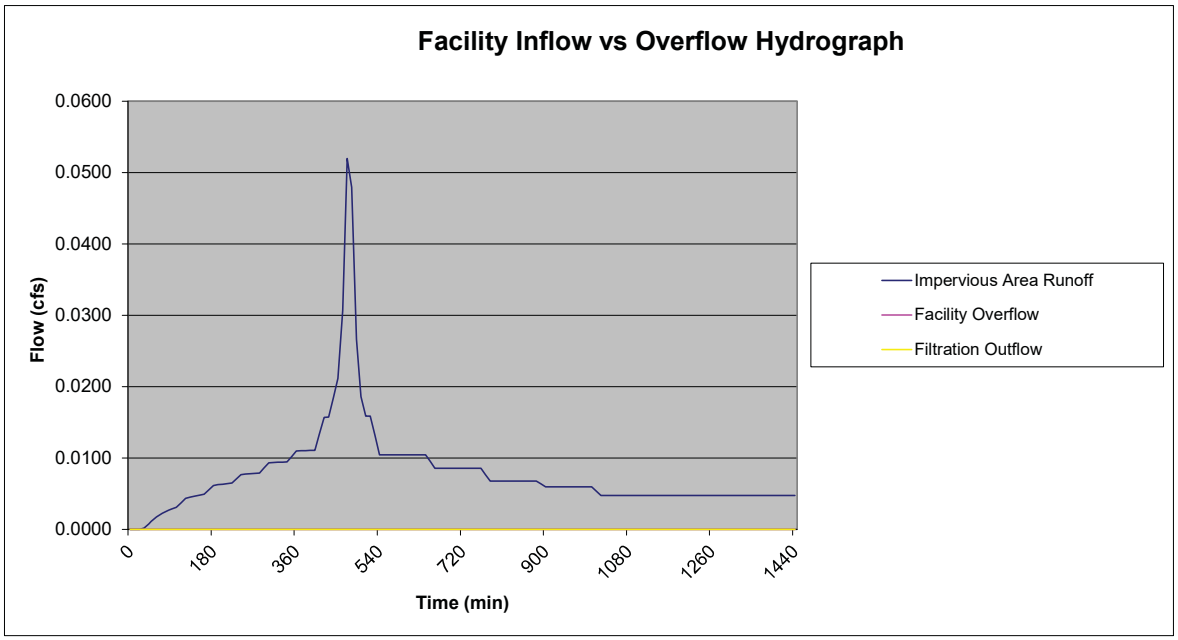


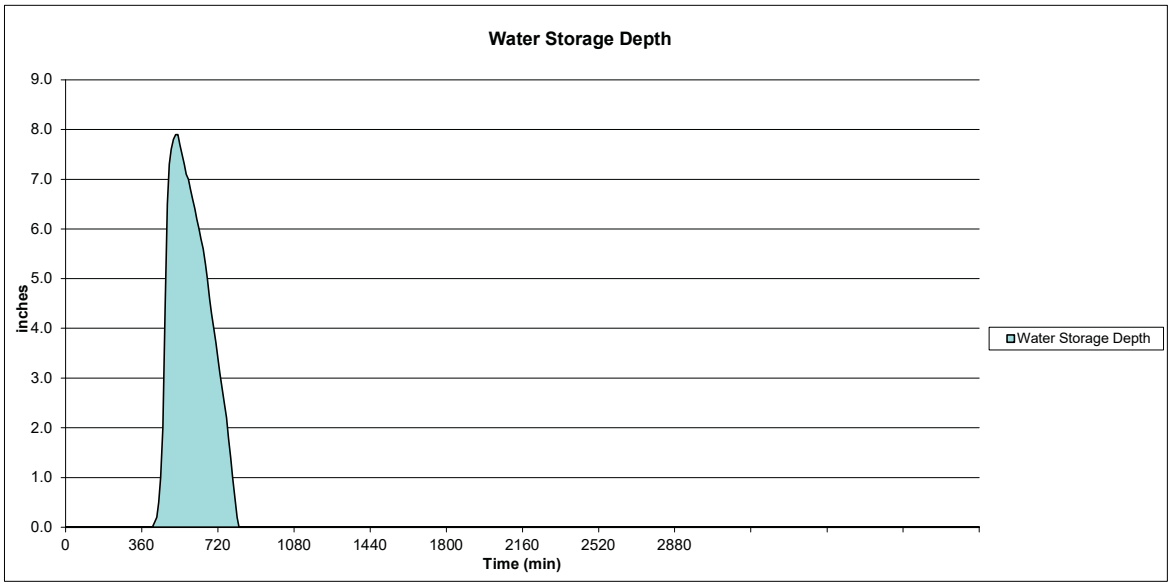




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 4A
Design Run: Destination







Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet
24 Hour Storm, NRCS Type 1A Rainfall Distribution
City of Eugene

Version 2.1

Project Information

Project Name:	Three Mile Prairie	**Date:**	12/30/2020
Project Address:	18-12-15-00-00200	**Permit Number:**	NA
	Florence, OR	**Catchment ID:**	4B
Designer:	Clint Beecroft		
Company:	EGR & Associates		

Instructions:

1. Complete this form for each drainage catchment in the project site that is to be sized per the Presumptive Approach.
2. Provide a distinctive Catchment ID for each facility coordinated with the site basin map to correlate the appropriate calculations with the facility.
3. The maximum drainage catchment to be modeled per the Presumptive Approach is 1 acre (43,560 SF)
4. For infiltration facilities in Class A or B soils where no infiltration testing has been perfromed use an infiltration rate of 0.5 in/hr. For all facilities use a maximum soil infiltration rate of 2.5 in/hr for topsoil/growing medium.

Design Requirements:

Choose "Yes" from the dropdown boxes below next to the design standards requirements for this facility.

Pollution Reduction (PR)	Yes
Flow Control (FC)	Yes
Destination (DT)	Yes

*An infiltration facility must be chosen as the facility type to meet destination requirements

Site Data-Post Development

Total Square Footage Impervious Area=	1695	sqft	**Total Square Footage Pervious Area=**	0	sqft
Impervious Area CN=	98		**Pervious Area CN=**	85	
Total Square Footage of Drainage Area=	1695	sft	**Time of Concentration Post Development=**	5	min
Weighted Average CN=	98				

Site Data-Pre Development (Data in this section is only used if Flow Control is required)

Pre-Development CN=	98		**Time of Concentration Pre-Development=**	5	min

Soil Data

Tested Soil Infiltration Rate=	10	in/hr (See Note 4)	**Destination Design=**	5	in/hr
Design Soil Infiltration Rate=	4	in/hr	**Soil Infiltration Rate**		

Design Storms Used For Calculations

Requirement	Rainfall Depth		Design Storm
Pollution Reduction	0.8	inches	Water Quality
Flow Control	5.1	inches	Flood Control
Destination	5.1	inches	Flood Control

Facility Data

Facility Type=	Infiltration Stormwater Planter		**Facility Surface Area=**	117	sqft
Surface Width=	11.7	ft	**Facility Surface Perimeter=**	43.4	ft
Surface Length=	10	ft	**Facility Bottom Area=**	117	sqft
Facility Side Slopes=	0	to 1	**Facility Bottom Perimeter=**	43	ft
Max. Ponding Depth in Stormwater Facility=	8	in	**Basin Volume=**	78.0	cf
Depth of Growing Medium (Soil)=	18	in	**Ratio of Facility Area to Impervious Area=**	0.069	

Pollution Reduction-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.007	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	88	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	0.0	in			
Drawdown Time=	0.2	hours			

Yes **Facility Sizing Meets Pollution Reduction Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

Flow Control-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.052	cfs	Peak Facility Overflow Rate=	0.015	cfs
Total Runoff Volume to Stormwater Facility =	680	cf	Total Overflow Volume=	21	cf
Max. Depth of Stormwater in Facility=	8.0	in	Peak Off-Site Flow Rate Filtration Facility Underdrain=	N\A	cfs
Drawdown Time=	0.2	hours			

Pre-Development Runoff Data

Peak Flow Rate =	0.052	cfs
Total Runoff Volume =	681	cf

Yes **Facility Sizing Meets Flow Control Standards?**

YES **Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

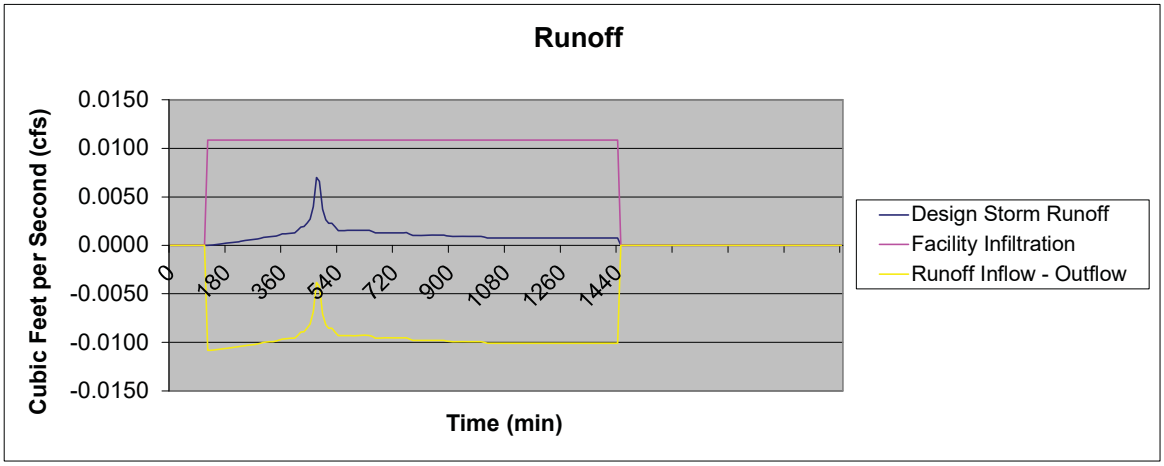
Destination-Calculation Results

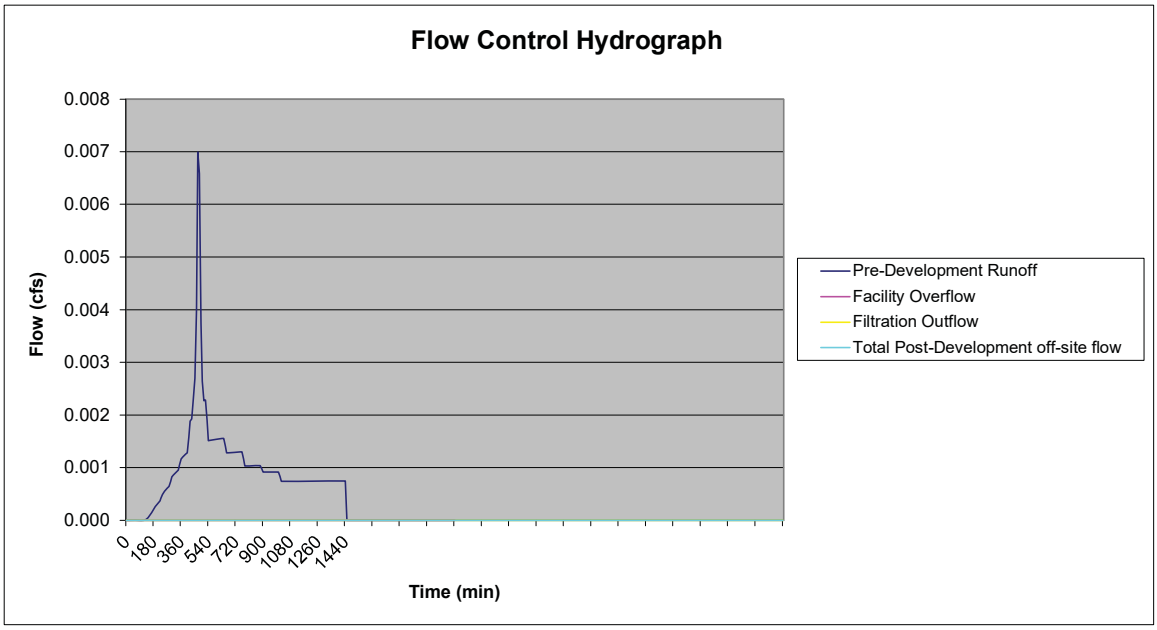
Peak Flow Rate to Stormwater Facility =	0.052	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	680	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	7.9	in			
Drawdown Time=	0.2	hours			

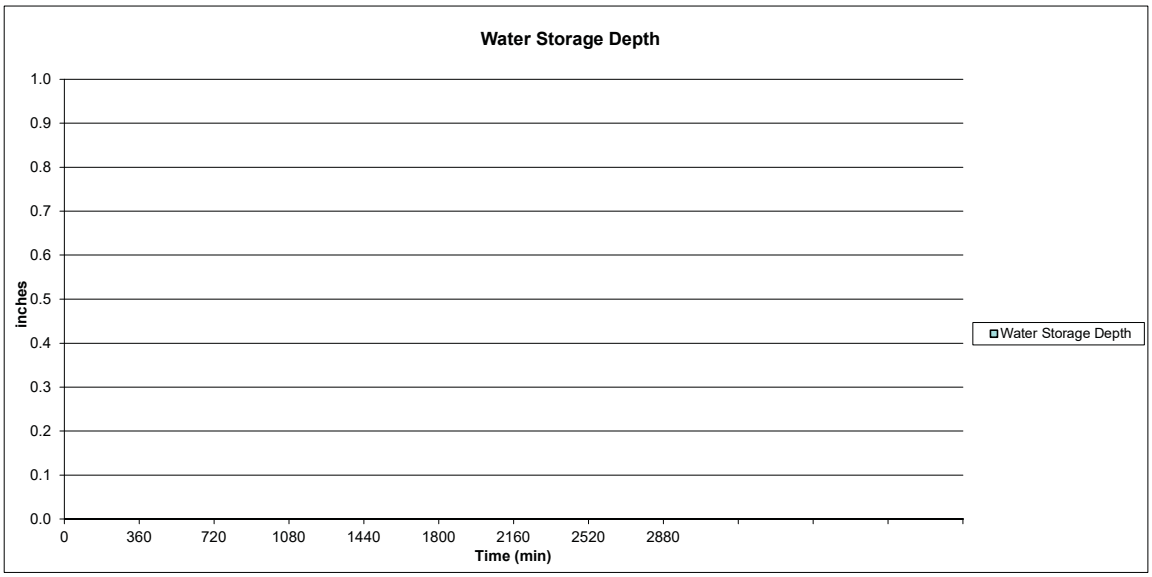
Yes **Facility Sizing Meets Destination Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 30 hour Drawdown Time?**

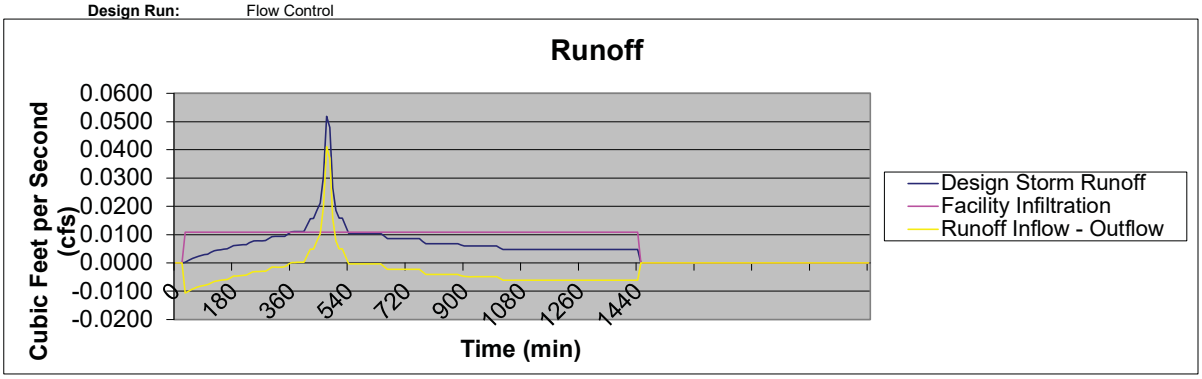
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 4B
Design Run: Pollution Reduction

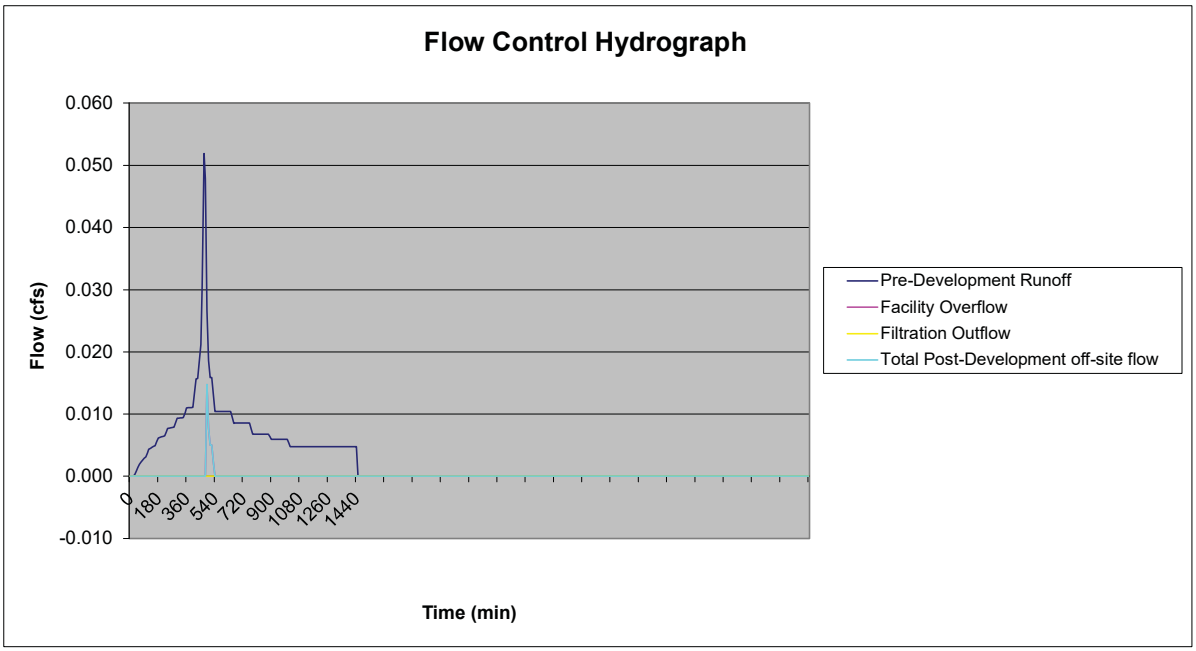


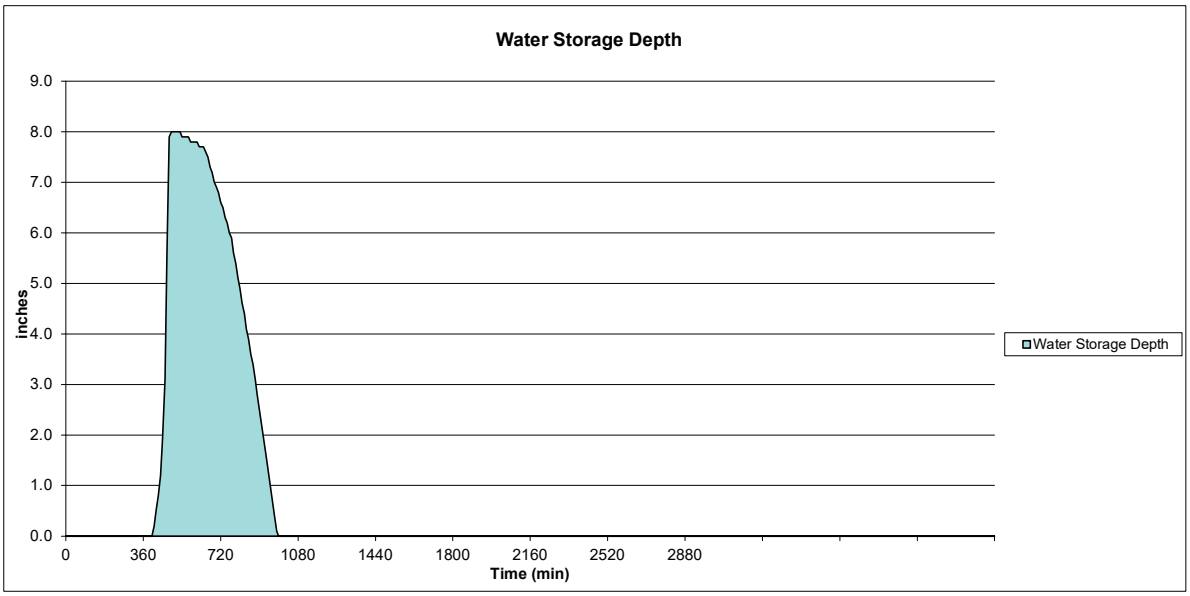




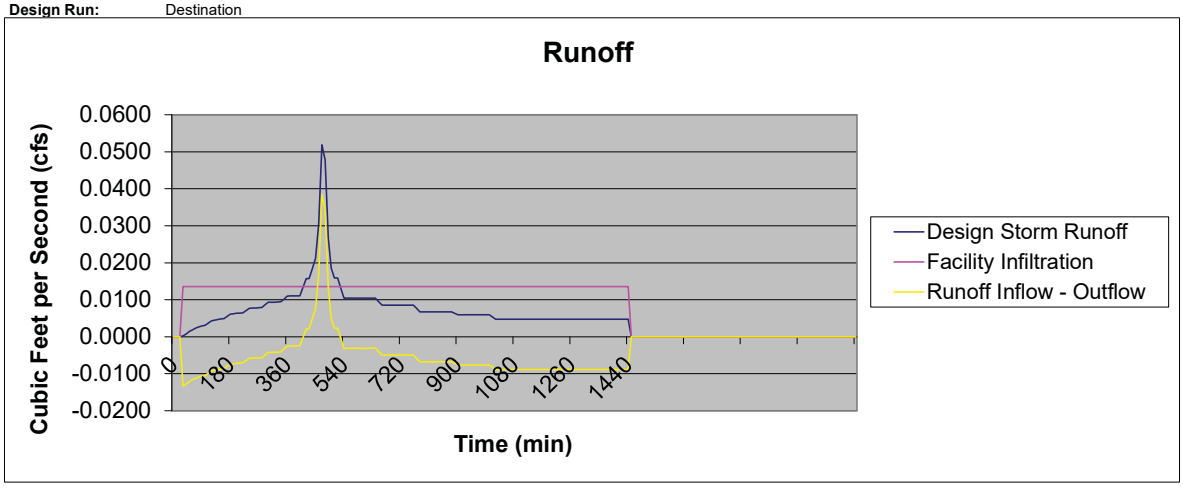
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 4B
Design Run: Flow Control

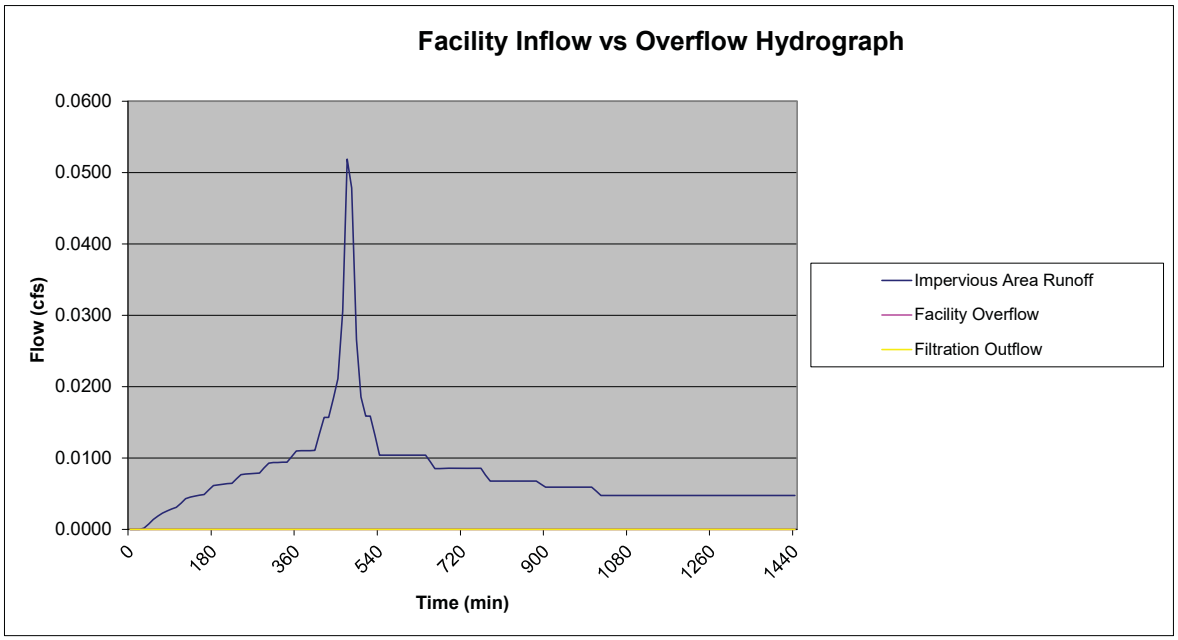


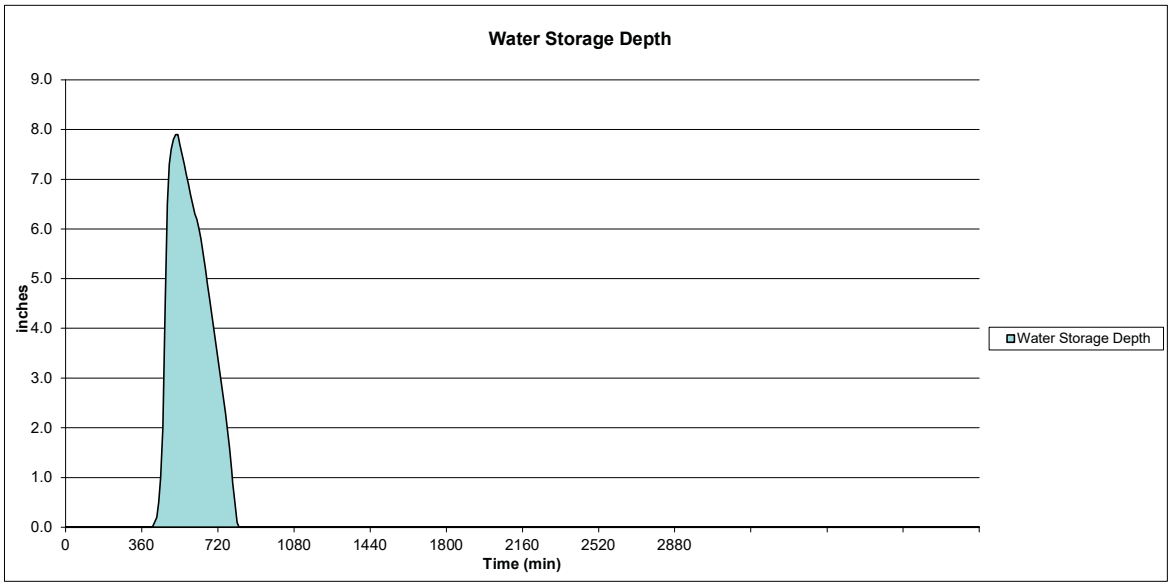




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 4B
Design Run: Destination







Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet
24 Hour Storm, NRCS Type 1A Rainfall Distribution
City of Eugene

Version 2.1

Project Information

Project Name:	Three Mile Prairie	**Date:**	12/30/2020
Project Address:	18-12-15-00-00200	**Permit Number:**	NA
	Florence, OR	**Catchment ID:**	4C
Designer:	Clint Beecroft		
Company:	EGR & Associates		

Instructions:

1. Complete this form for each drainage catchment in the project site that is to be sized per the Presumptive Approach.
2. Provide a distinctive Catchment ID for each facility coordinated with the site basin map to correlate the appropriate calculations with the facility.
3. The maximum drainage catchment to be modeled per the Presumptive Approach is 1 acre (43,560 SF)
4. For infiltration facilities in Class A or B soils where no infiltration testing has been perfromed use an infiltration rate of 0.5 in/hr. For all facilities use a maximum soil infiltration rate of 2.5 in/hr for topsoil/growing medium.

Design Requirements:

Choose "Yes" from the dropdown boxes below next to the design standards requirements for this facility.

Pollution Reduction (PR)	Yes
Flow Control (FC)	Yes
Destination (DT)	Yes

*An infiltration facility must be chosen as the facility type to meet destination requirements

Site Data-Post Development

Total Square Footage Impervious Area=	2534	sqft	**Total Square Footage Pervious Area=**	0	sqft
Impervious Area CN=	98		**Pervious Area CN=**	85	
Total Square Footage of Drainage Area=	2534	sft	**Time of Concentration Post Development=**	5	min
Weighted Average CN=	98				

Site Data-Pre Development (Data in this section is only used if Flow Control is required)

Pre-Development CN=	98		**Time of Concentration Pre-Development=**	5	min

Soil Data

Tested Soil Infiltration Rate=	10	in/hr (See Note 4)	**Destination Design=**	5	in/hr
Design Soil Infiltration Rate=	4	in/hr	**Soil Infiltration Rate**		

Design Storms Used For Calculations

Requirement	Rainfall Depth		Design Storm
Pollution Reduction	0.8	inches	Water Quality
Flow Control	5.1	inches	Flood Control
Destination	5.1	inches	Flood Control

Facility Data

Facility Type=	Infiltration Stormwater Planter		**Facility Surface Area=**	254.1	sqft
Surface Width=	7.7	ft	**Facility Surface Perimeter=**	81.4	ft
Surface Length=	33	ft	**Facility Bottom Area=**	141	sqft
Facility Side Slopes=	3	to 1	**Facility Bottom Perimeter=**	69	ft
Max. Ponding Depth in Stormwater Facility=	6	in	**Basin Volume=**	101.0	cf
Depth of Growing Medium (Soil)=	18	in	**Ratio of Facility Area to Impervious Area=**	0.100	

Pollution Reduction-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.010	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	132	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	0.0	in			
Drawdown Time=	0.2	hours			

Yes **Facility Sizing Meets Pollution Reduction Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

Flow Control-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.078	cfs	Peak Facility Overflow Rate=	0.020	cfs
Total Runoff Volume to Stormwater Facility =	1016	cf	Total Overflow Volume=	25	cf
Max. Depth of Stormwater in Facility=	6.0	in	Peak Off-Site Flow Rate Filtration Facility Underdrain=	N\A	cfs
Drawdown Time=	0.2	hours			

Pre-Development Runoff Data

Peak Flow Rate =	0.078	cfs
Total Runoff Volume =	1018	cf

Yes **Facility Sizing Meets Flow Control Standards?**

YES **Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

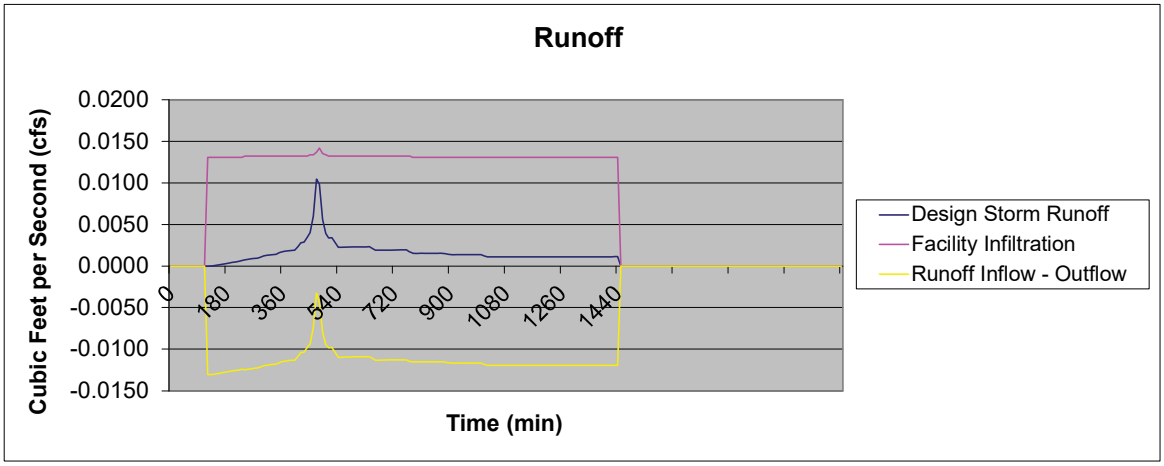
Destination-Calculation Results

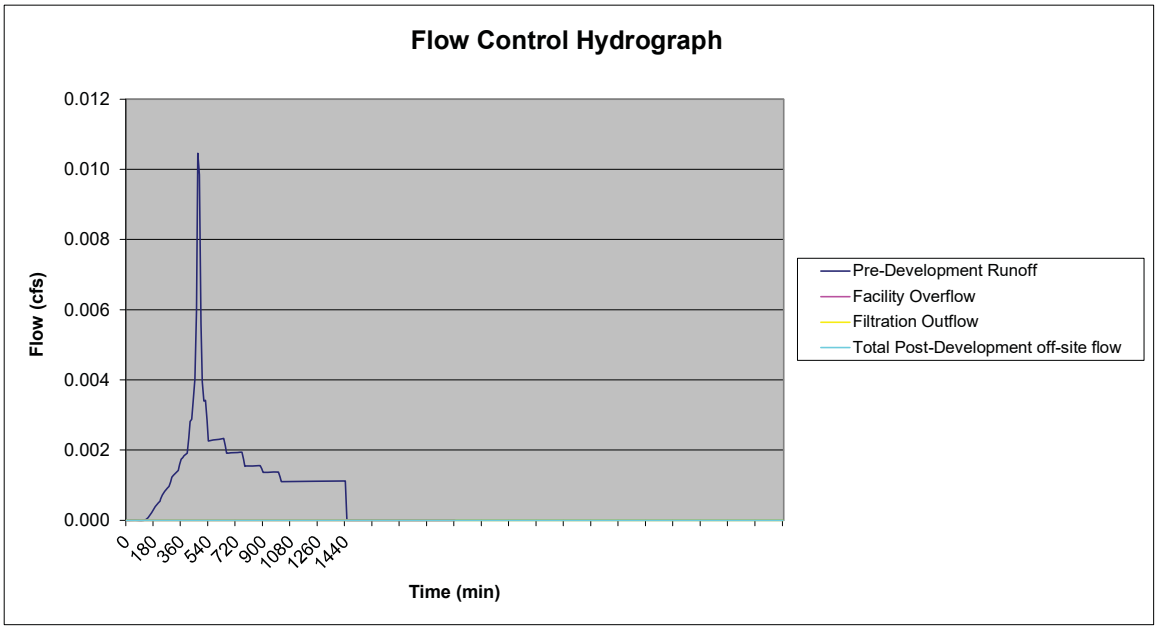
Peak Flow Rate to Stormwater Facility =	0.078	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	1016	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	5.8	in			
Drawdown Time=	0.2	hours			

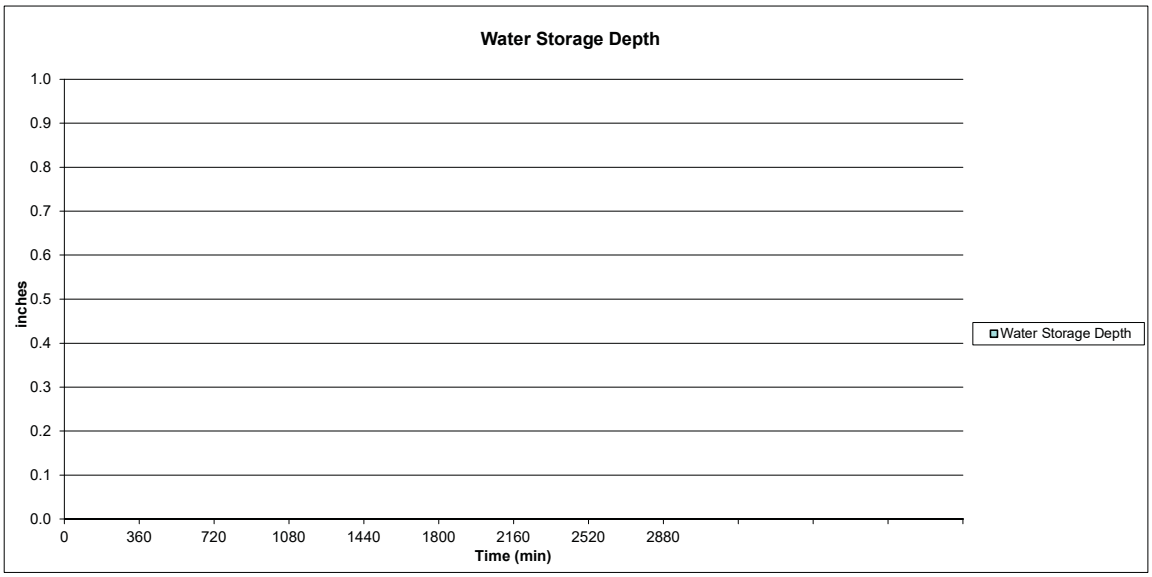
Yes **Facility Sizing Meets Destination Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 30 hour Drawdown Time?**

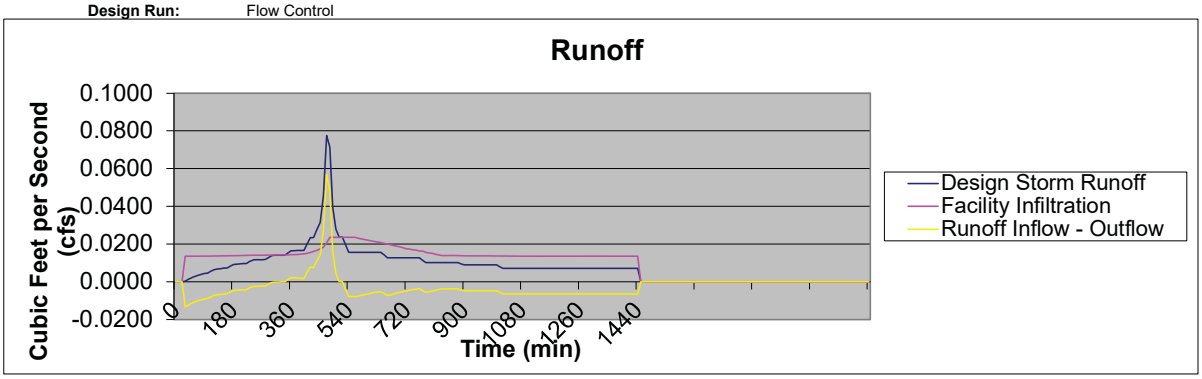
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 4C
Design Run: Pollution Reduction

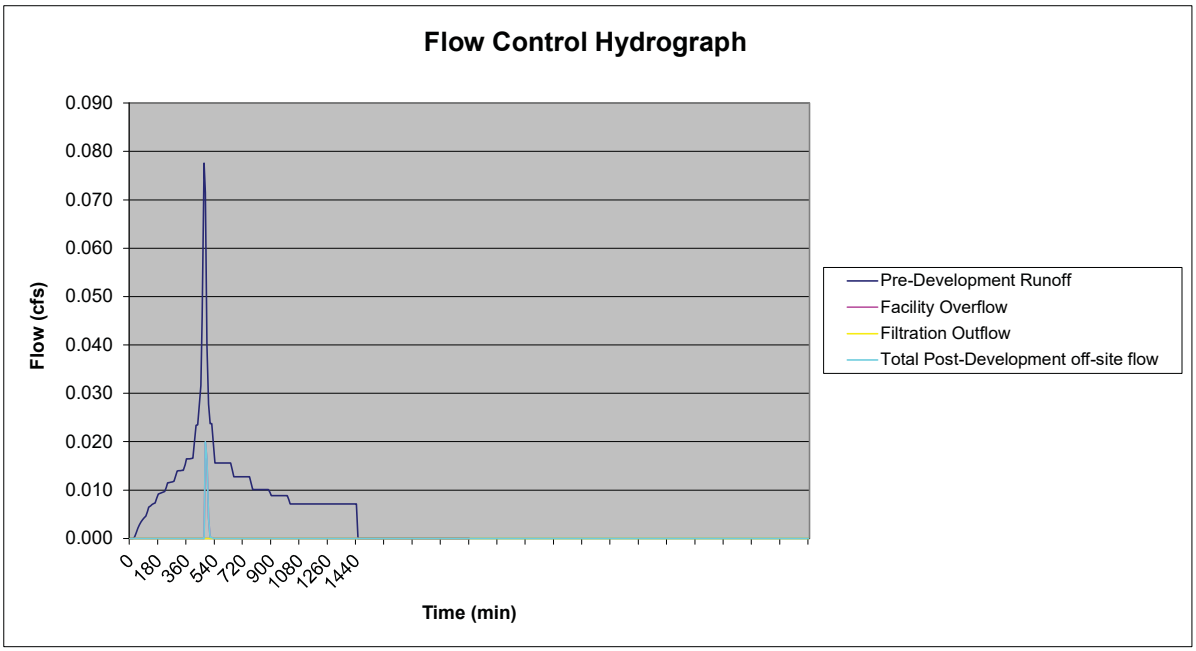


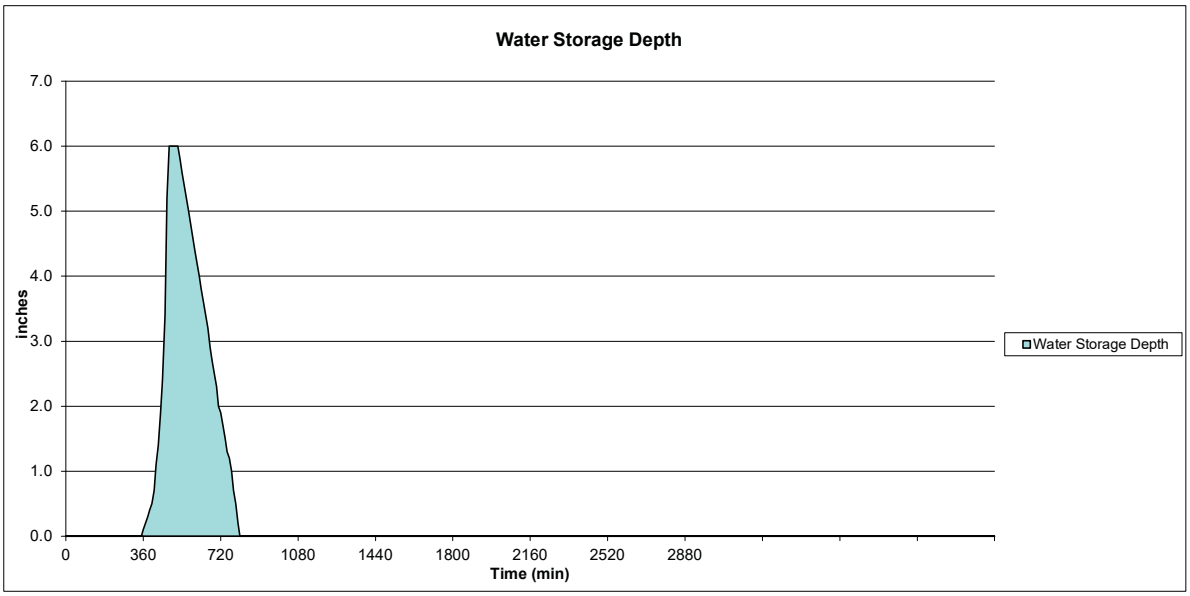




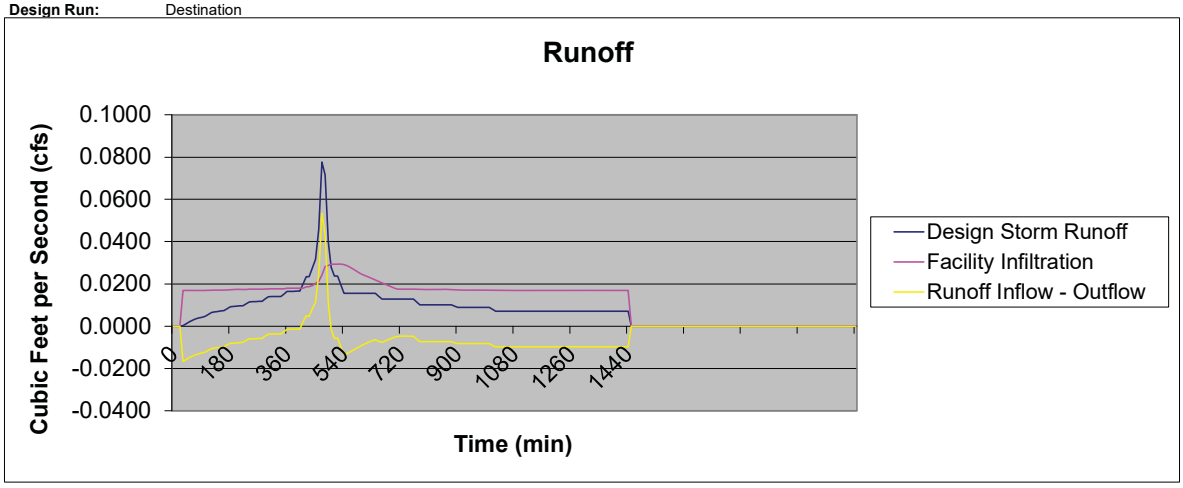
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 4C
Design Run: Flow Control

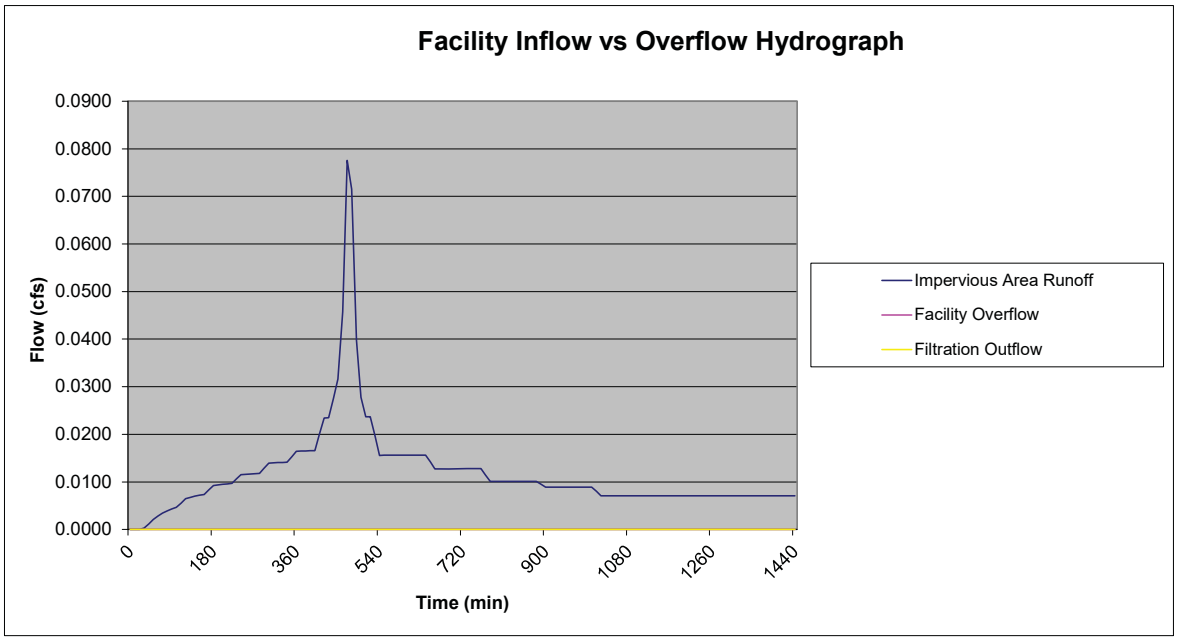


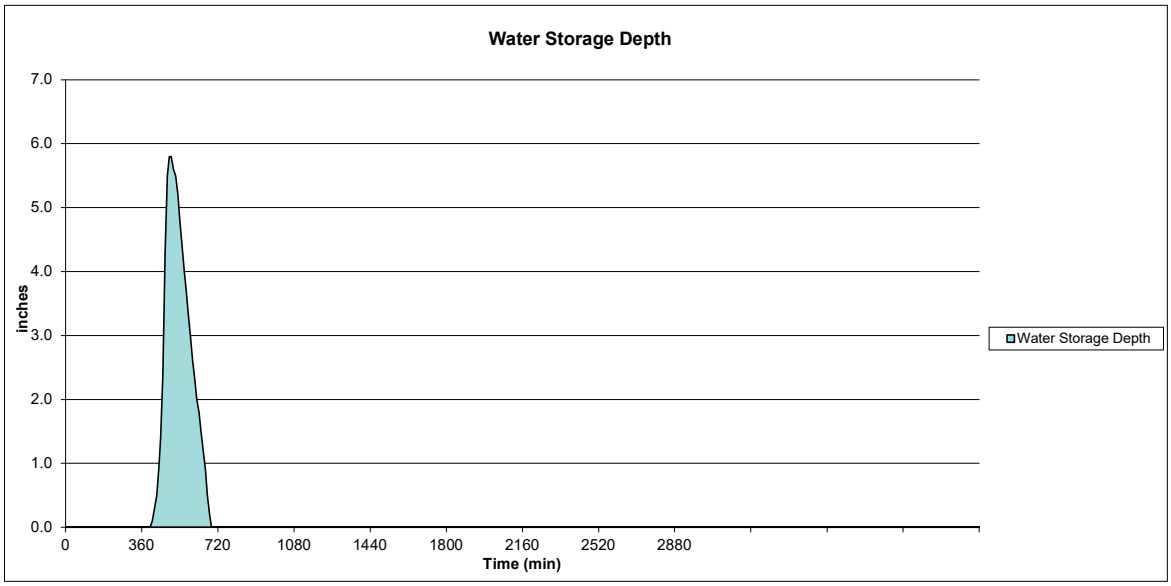




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 4C
Design Run: Destination







Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet
24 Hour Storm, NRCS Type 1A Rainfall Distribution
City of Eugene

Version 2.1

Project Information

Project Name:	Three Mile Prairie	**Date:**	12/30/2020
Project Address:	18-12-15-00-00200	**Permit Number:**	NA
	Florence, OR	**Catchment ID:**	4D
Designer:	Clint Beecroft		
Company:	EGR & Associates		

Instructions:

1. Complete this form for each drainage catchment in the project site that is to be sized per the Presumptive Approach.
2. Provide a distinctive Catchment ID for each facility coordinated with the site basin map to correlate the appropriate calculations with the facility.
3. The maximum drainage catchment to be modeled per the Presumptive Approach is 1 acre (43,560 SF)
4. For infiltration facilities in Class A or B soils where no infiltration testing has been perfromed use an infiltration rate of 0.5 in/hr. For all facilities use a maximum soil infiltration rate of 2.5 in/hr for topsoil/growing medium.

Design Requirements:

Choose "Yes" from the dropdown boxes below next to the design standards requirements for this facility.

Pollution Reduction (PR)	Yes
Flow Control (FC)	Yes
Destination (DT)	Yes

*An infiltration facility must be chosen as the facility type to meet destination requirements

Site Data-Post Development

Total Square Footage Impervious Area=	2534	sqft	**Total Square Footage Pervious Area=**	0	sqft
Impervious Area CN=	98		**Pervious Area CN=**	85	
Total Square Footage of Drainage Area=	2534	sft	**Time of Concentration Post Development=**	5	min
Weighted Average CN=	98				

Site Data-Pre Development (Data in this section is only used if Flow Control is required)

Pre-Development CN=	98		**Time of Concentration Pre-Development=**	5	min

Soil Data

Tested Soil Infiltration Rate=	10	in/hr (See Note 4)	**Destination Design=**	5	in/hr
Design Soil Infiltration Rate=	4	in/hr	**Soil Infiltration Rate**		

Design Storms Used For Calculations

Requirement	Rainfall Depth		Design Storm
Pollution Reduction	0.8	inches	Water Quality
Flow Control	5.1	inches	Flood Control
Destination	5.1	inches	Flood Control

Facility Data

Facility Type=	Infiltration Stormwater Planter		**Facility Surface Area=**	254.1	sqft
Surface Width=	7.7	ft	**Facility Surface Perimeter=**	81.4	ft
Surface Length=	33	ft	**Facility Bottom Area=**	141	sqft
Facility Side Slopes=	3	to 1	**Facility Bottom Perimeter=**	69	ft
Max. Ponding Depth in Stormwater Facility=	6	in	**Basin Volume=**	101.0	cf
Depth of Growing Medium (Soil)=	18	in	**Ratio of Facility Area to Impervious Area=**	0.100	

Pollution Reduction-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.010	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	132	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	0.0	in			
Drawdown Time=	0.2	hours			

Yes **Facility Sizing Meets Pollution Reduction Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

Flow Control-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.078	cfs	Peak Facility Overflow Rate=	0.020	cfs
Total Runoff Volume to Stormwater Facility =	1016	cf	Total Overflow Volume=	25	cf
Max. Depth of Stormwater in Facility=	6.0	in	Peak Off-Site Flow Rate Filtration Facility Underdrain=	N\A	cfs
Drawdown Time=	0.2	hours			

Pre-Development Runoff Data

Peak Flow Rate =	0.078	cfs
Total Runoff Volume =	1018	cf

Yes **Facility Sizing Meets Flow Control Standards?**

YES **Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

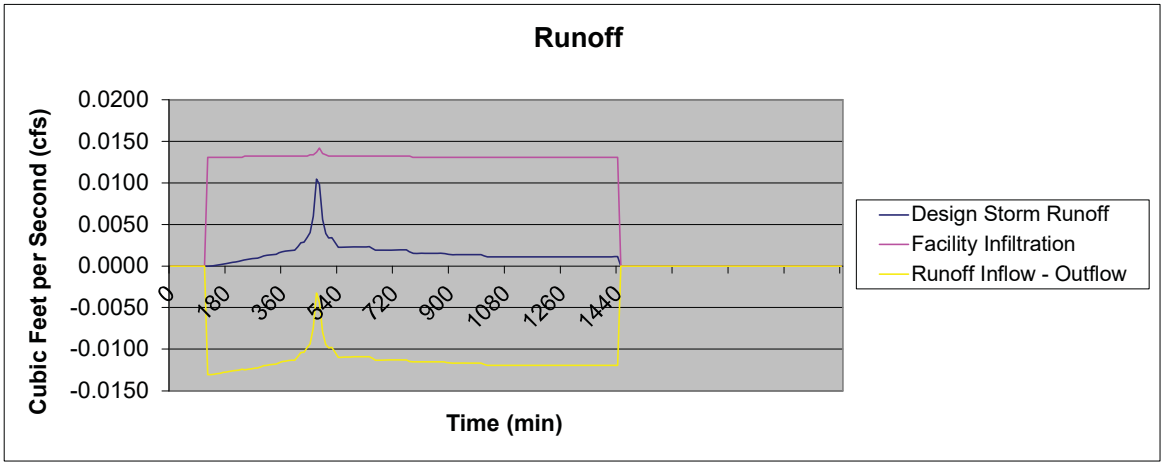
Destination-Calculation Results

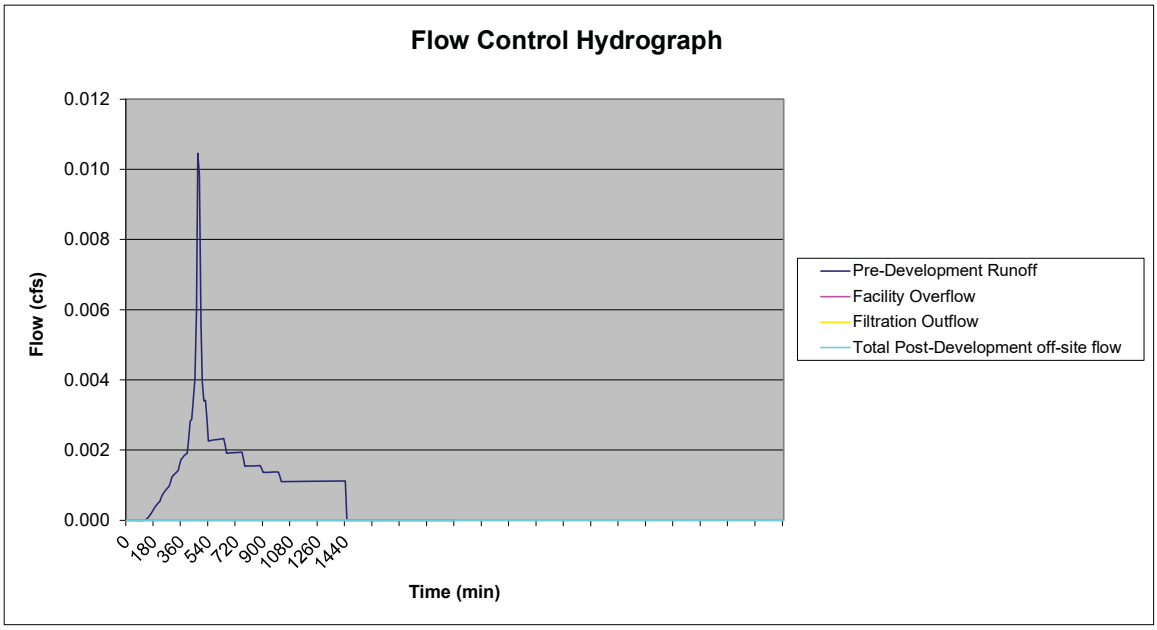
Peak Flow Rate to Stormwater Facility =	0.078	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	1016	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	5.8	in			
Drawdown Time=	0.2	hours			

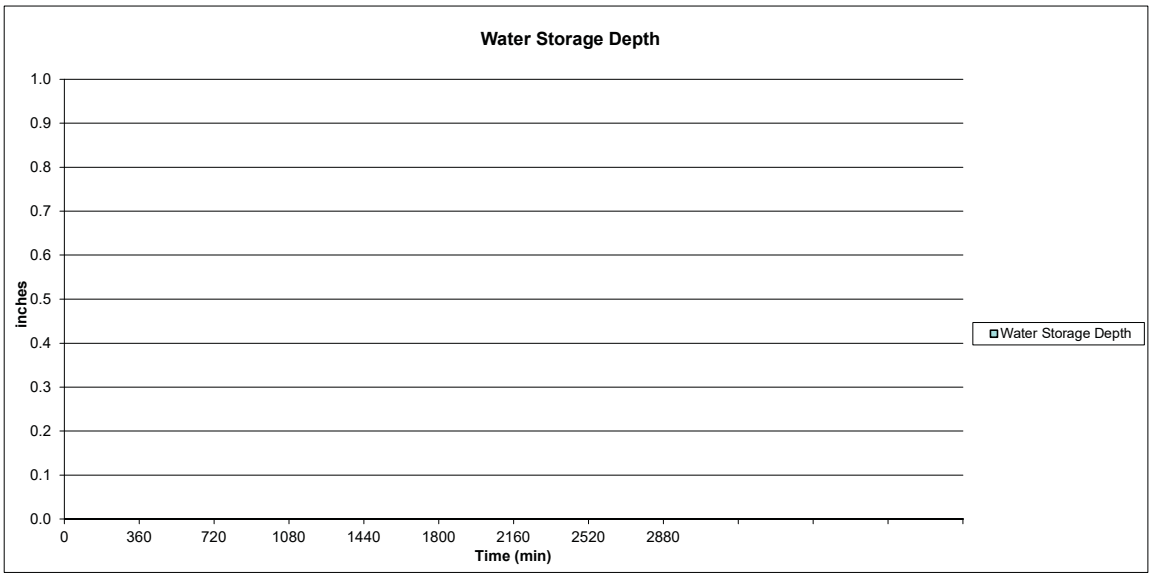
Yes **Facility Sizing Meets Destination Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 30 hour Drawdown Time?**

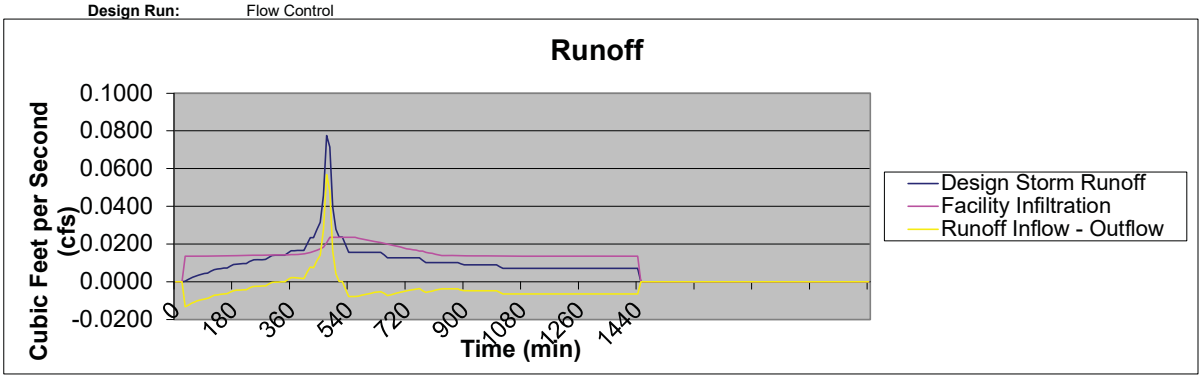
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 4D
Design Run: Pollution Reduction

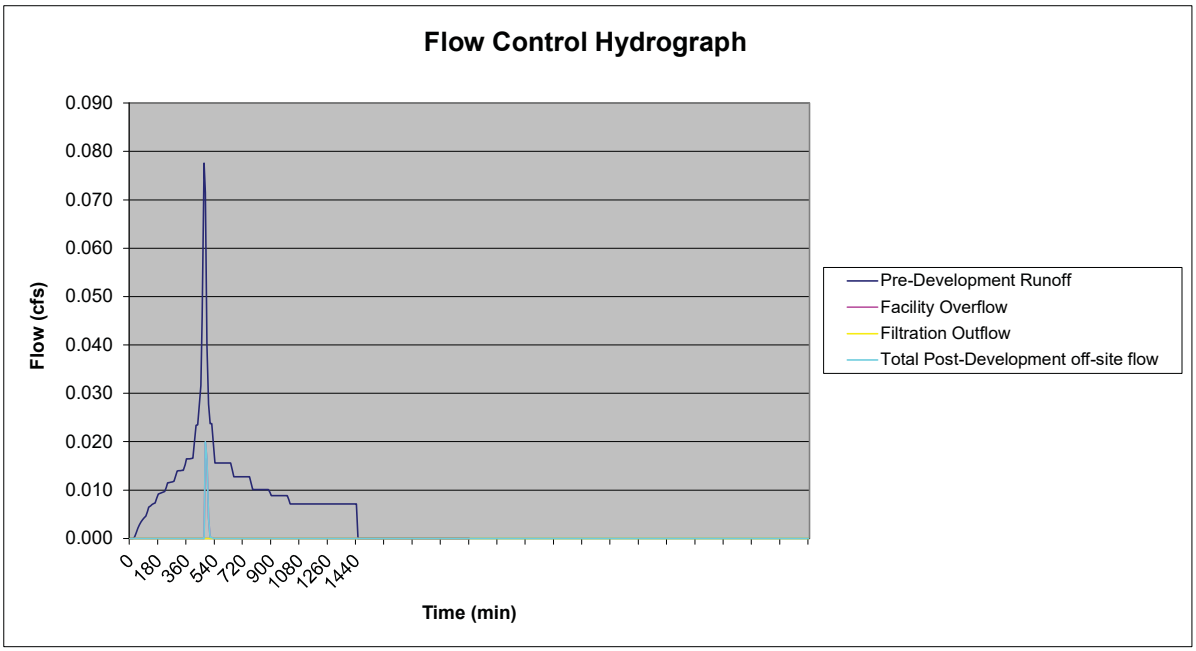


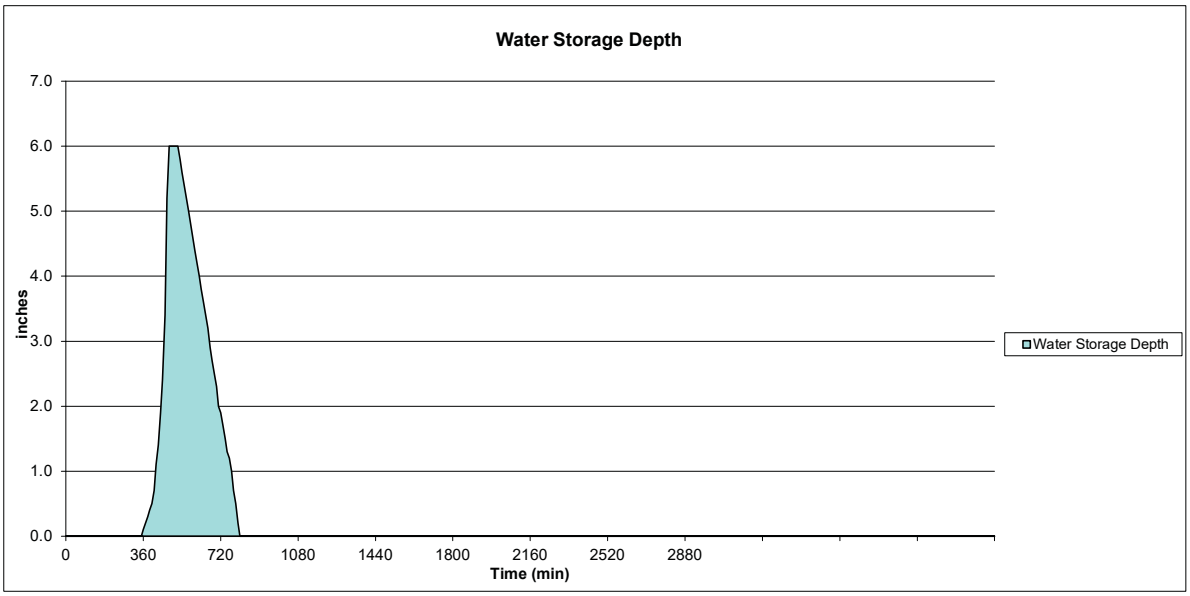




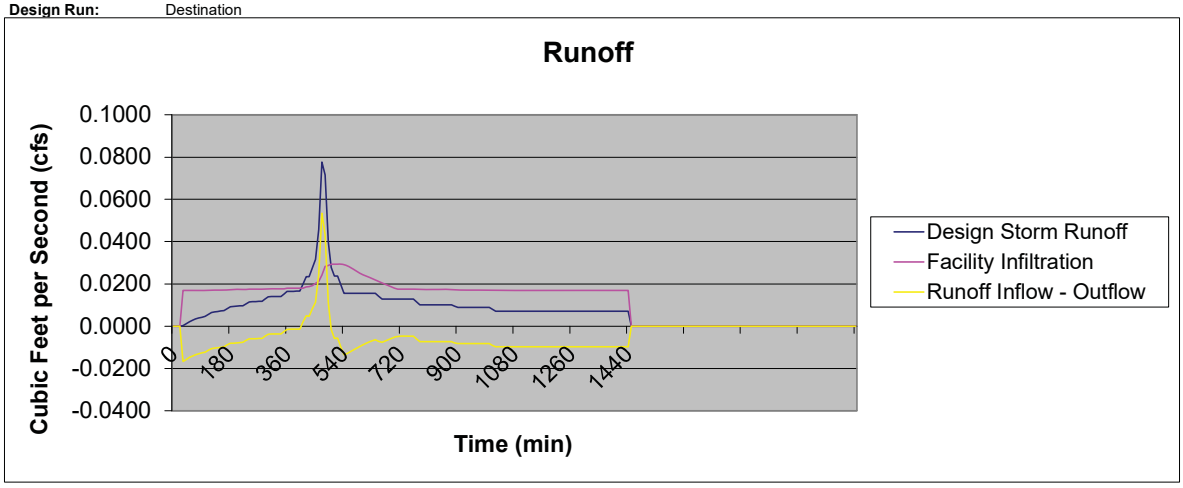
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 4D
Design Run: Flow Control

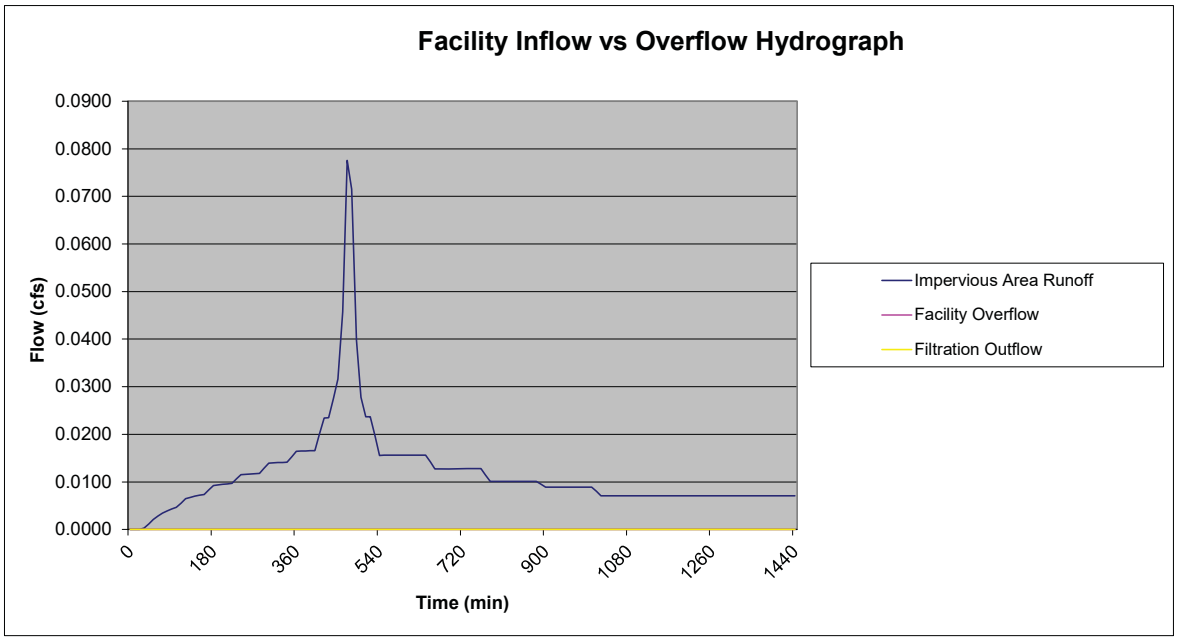


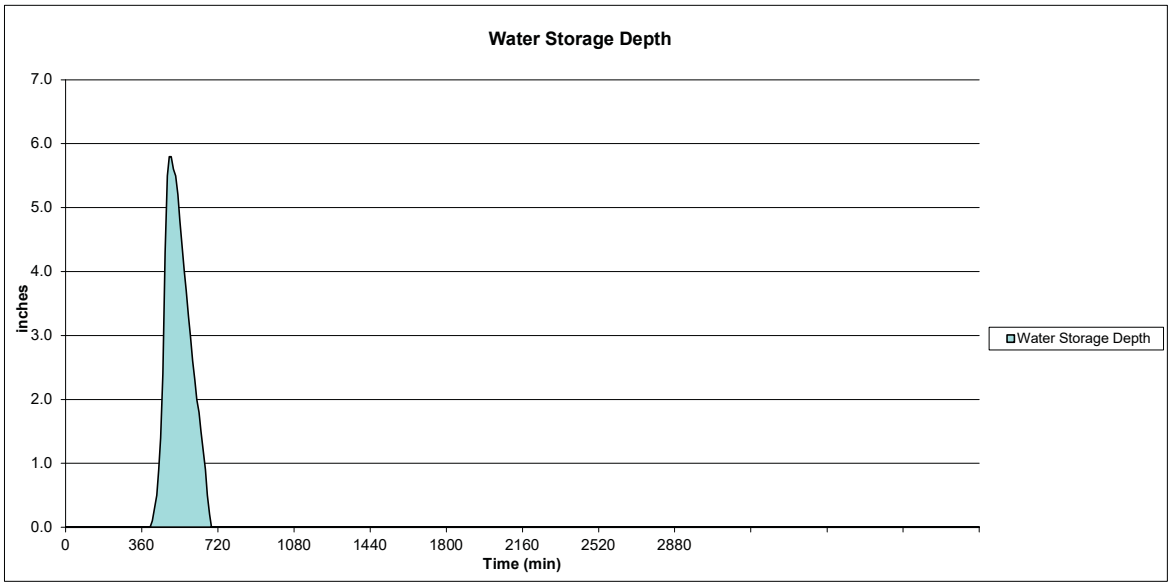




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 4D
Design Run: Destination







Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet
24 Hour Storm, NRCS Type 1A Rainfall Distribution
City of Eugene

Version 2.1

Project Information

Project Name:	Three Mile Prairie	**Date:**	12/30/2020
Project Address:	18-12-15-00-00200	**Permit Number:**	NA
	Florence, OR	**Catchment ID:**	4E
Designer:	Clint Beecroft		
Company:	EGR & Associates		

Instructions:

1. Complete this form for each drainage catchment in the project site that is to be sized per the Presumptive Approach.
2. Provide a distinctive Catchment ID for each facility coordinated with the site basin map to correlate the appropriate calculations with the facility.
3. The maximum drainage catchment to be modeled per the Presumptive Approach is 1 acre (43,560 SF)
4. For infiltration facilities in Class A or B soils where no infiltration testing has been perfromed use an infiltration rate of 0.5 in/hr. For all facilities use a maximum soil infiltration rate of 2.5 in/hr for topsoil/growing medium.

Design Requirements:

Choose "Yes" from the dropdown boxes below next to the design standards requirements for this facility.

Pollution Reduction (PR)	Yes
Flow Control (FC)	Yes
Destination (DT)	Yes

*An infiltration facility must be chosen as the facility type to meet destination requirements

Site Data-Post Development

Total Square Footage Impervious Area=	2534	sqft	**Total Square Footage Pervious Area=**	0	sqft
Impervious Area CN=	98		**Pervious Area CN=**	85	
Total Square Footage of Drainage Area=	2534	sft	**Time of Concentration Post Development=**	5	min
Weighted Average CN=	98				

Site Data-Pre Development (Data in this section is only used if Flow Control is required)

Pre-Development CN=	98		**Time of Concentration Pre-Development=**	5	min

Soil Data

Tested Soil Infiltration Rate=	10	in/hr (See Note 4)	**Destination Design=**	5	in/hr
Design Soil Infiltration Rate=	4	in/hr	**Soil Infiltration Rate**		

Design Storms Used For Calculations

Requirement	Rainfall Depth		Design Storm
Pollution Reduction	0.8	inches	Water Quality
Flow Control	5.1	inches	Flood Control
Destination	5.1	inches	Flood Control

Facility Data

Facility Type=	Infiltration Stormwater Planter		**Facility Surface Area=**	254.1	sqft
Surface Width=	7.7	ft	**Facility Surface Perimeter=**	81.4	ft
Surface Length=	33	ft	**Facility Bottom Area=**	141	sqft
Facility Side Slopes=	3	to 1	**Facility Bottom Perimeter=**	69	ft
Max. Ponding Depth in Stormwater Facility=	6	in	**Basin Volume=**	101.0	cf
Depth of Growing Medium (Soil)=	18	in	**Ratio of Facility Area to Impervious Area=**	0.100	

Pollution Reduction-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.010	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	132	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	0.0	in			
Drawdown Time=	0.2	hours			

Yes **Facility Sizing Meets Pollution Reduction Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

Flow Control-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.078	cfs	Peak Facility Overflow Rate=	0.020	cfs
Total Runoff Volume to Stormwater Facility =	1016	cf	Total Overflow Volume=	25	cf
Max. Depth of Stormwater in Facility=	6.0	in	Peak Off-Site Flow Rate Filtration Facility Underdrain=	N\A	cfs
Drawdown Time=	0.2	hours			

Pre-Development Runoff Data

Peak Flow Rate =	0.078	cfs
Total Runoff Volume =	1018	cf

Yes **Facility Sizing Meets Flow Control Standards?**

YES **Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

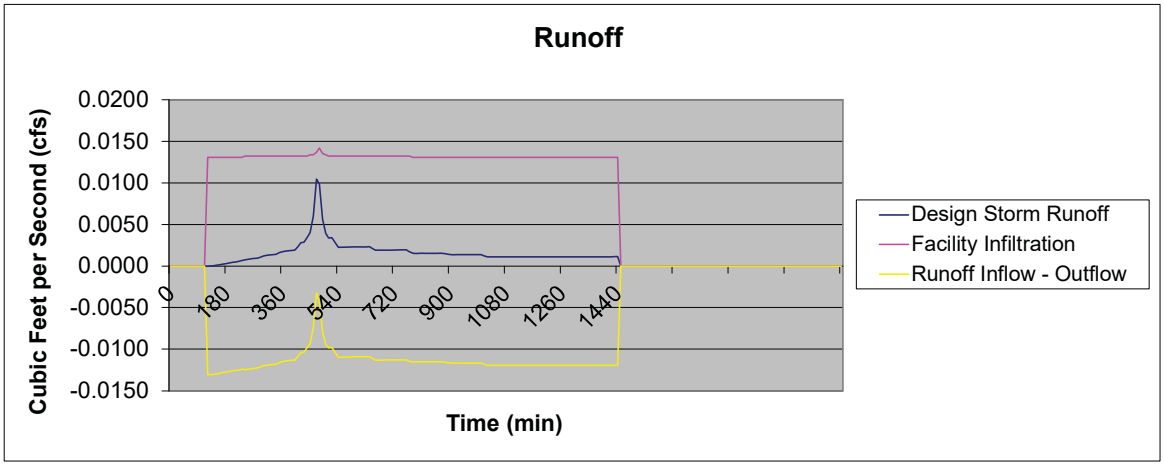
Destination-Calculation Results

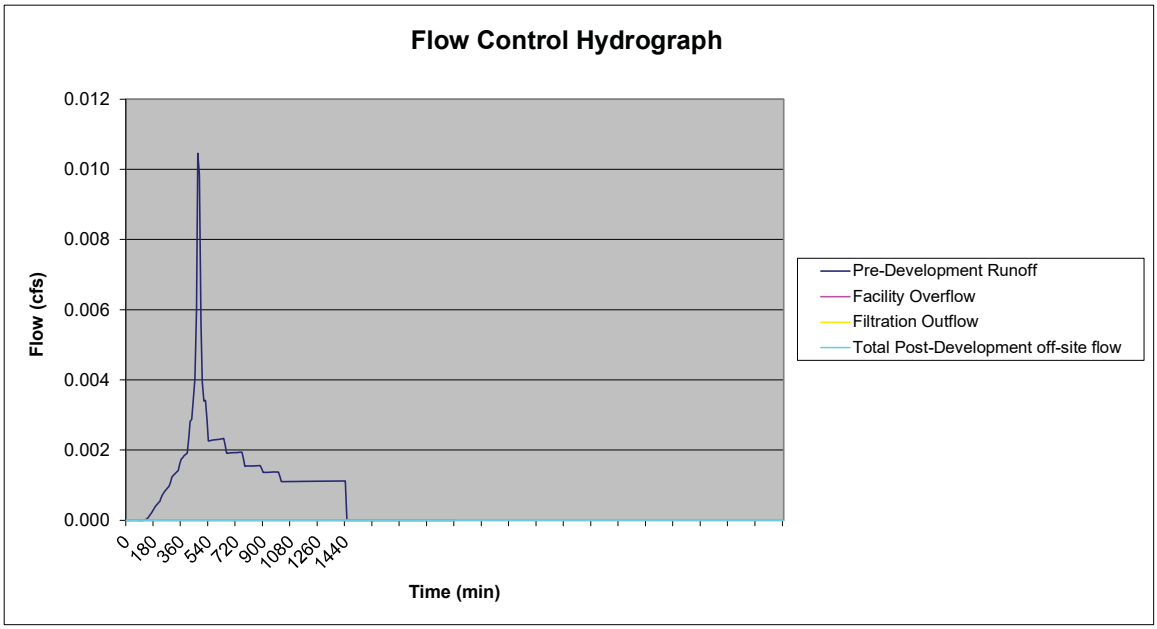
Peak Flow Rate to Stormwater Facility =	0.078	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	1016	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	5.8	in			
Drawdown Time=	0.2	hours			

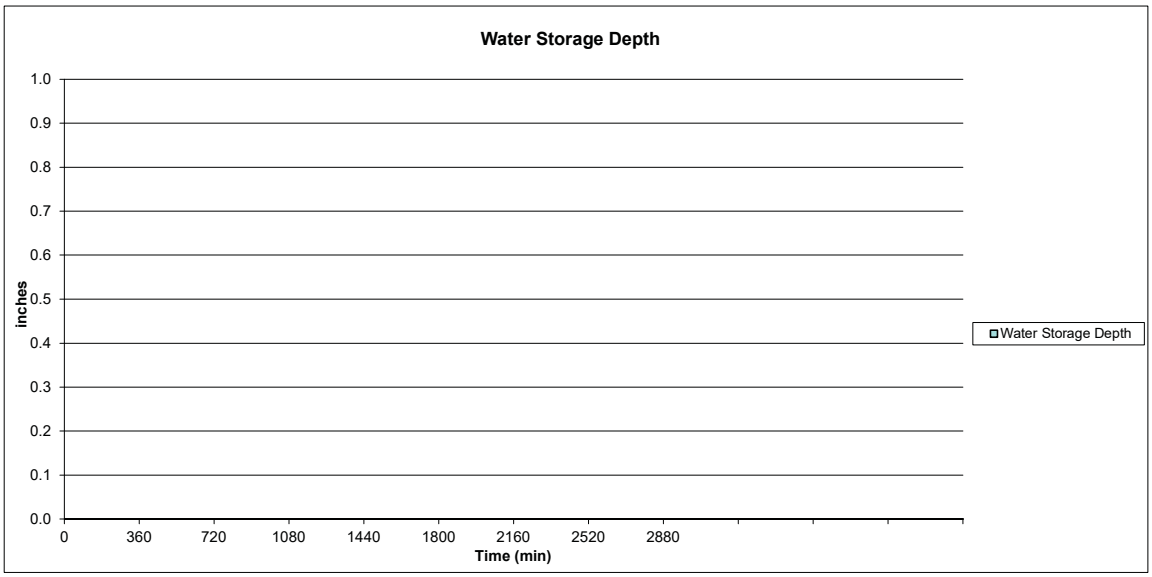
Yes **Facility Sizing Meets Destination Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 30 hour Drawdown Time?**

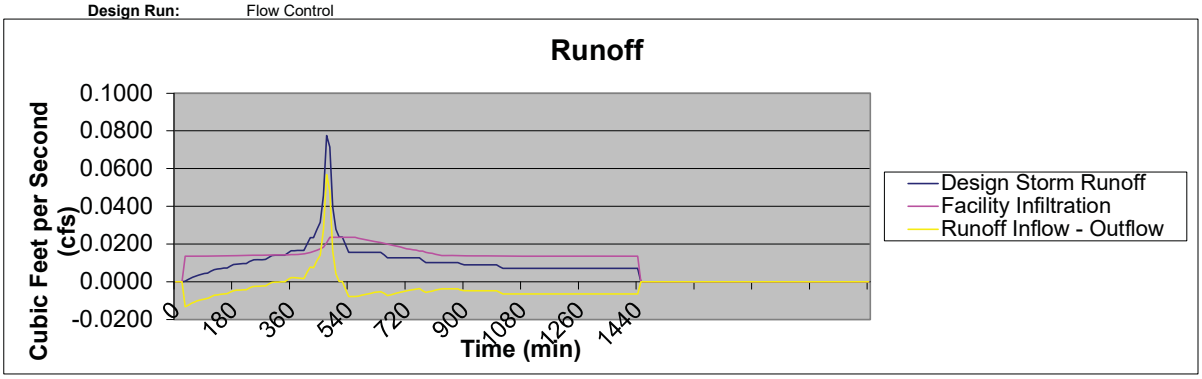
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 4E
Design Run: Pollution Reduction

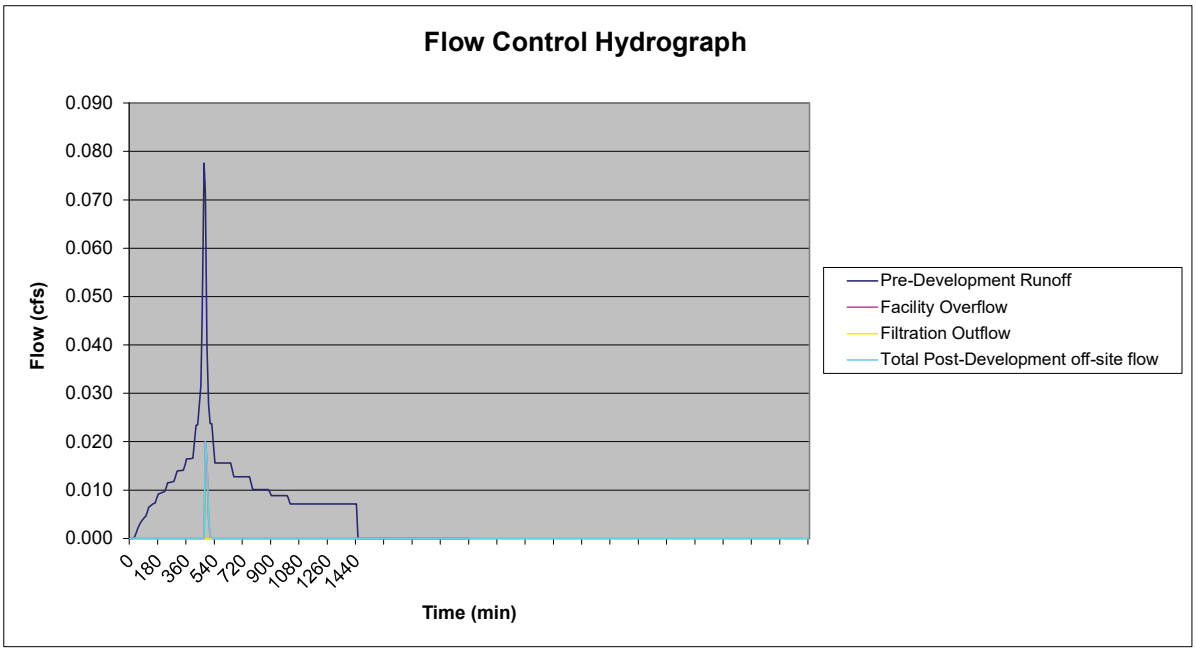


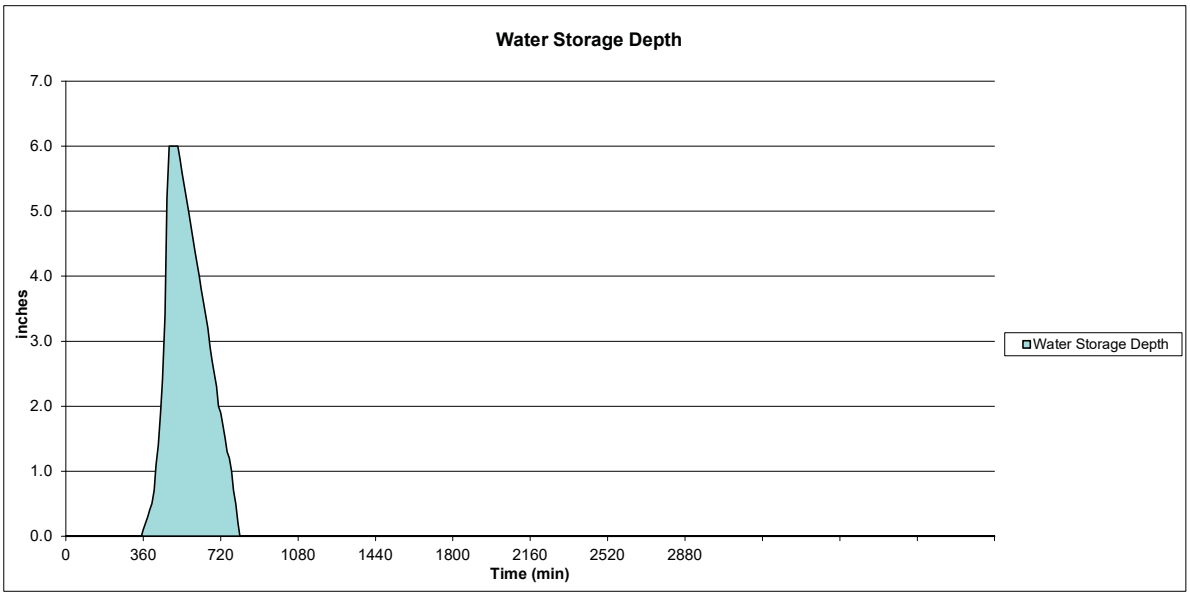




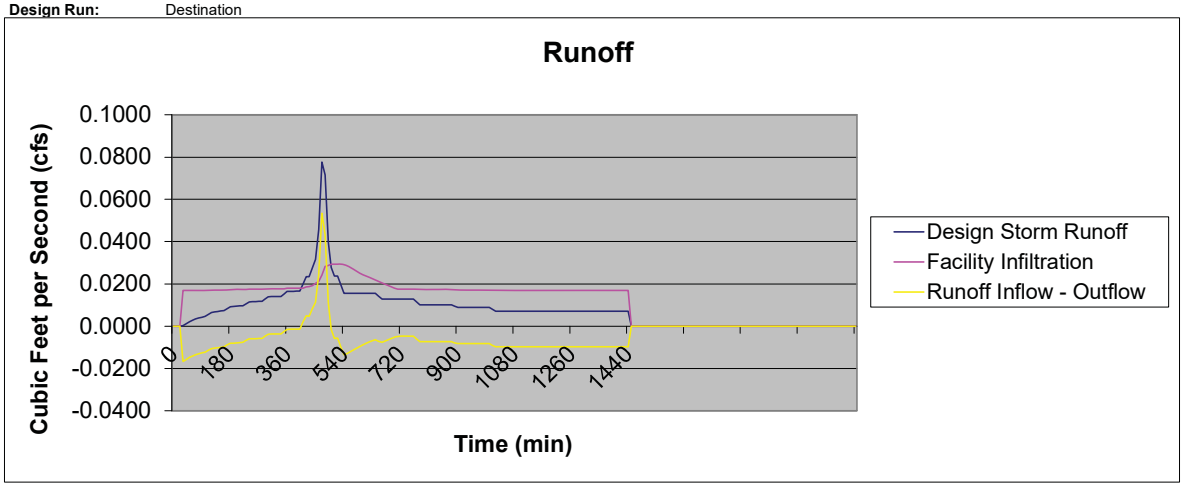
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 4E
Design Run: Flow Control

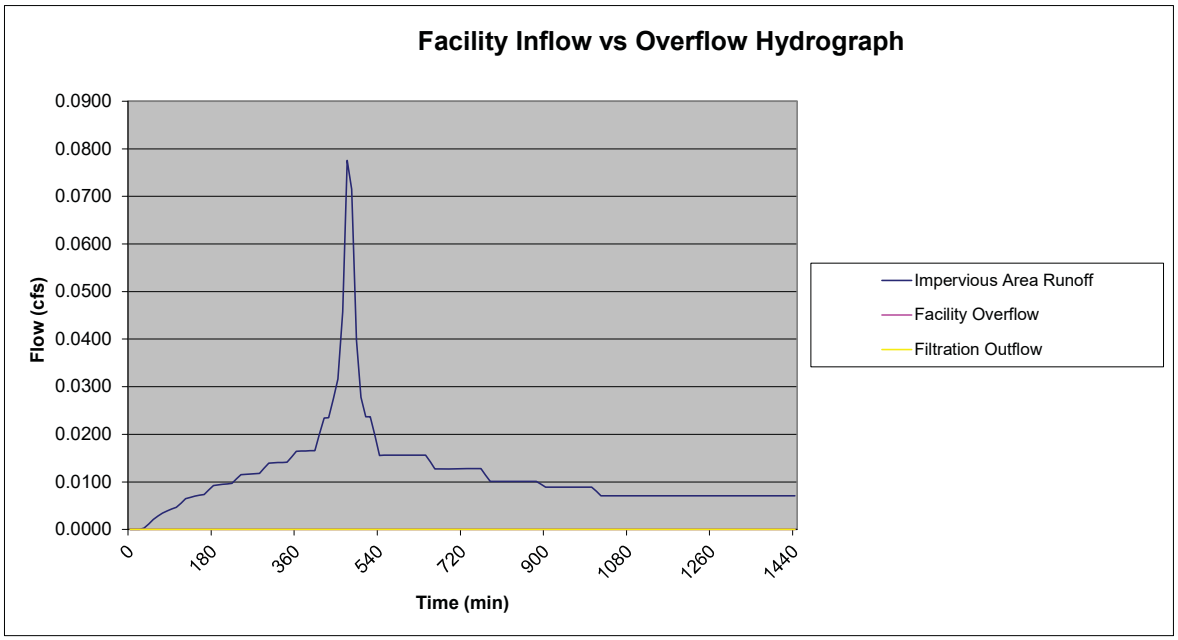


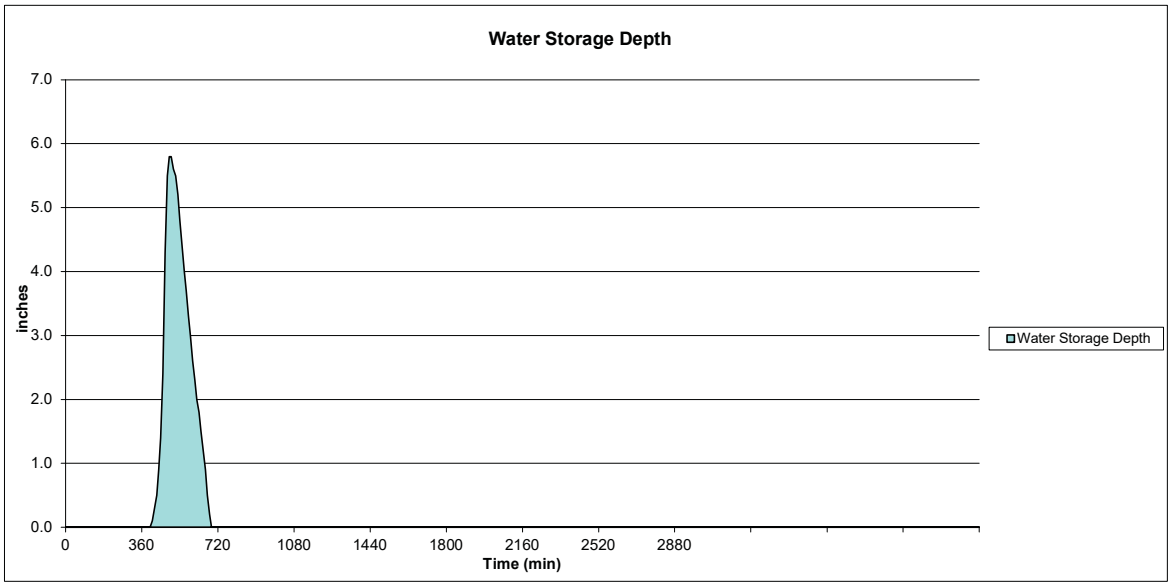




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 4E
Design Run: Destination







Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet
24 Hour Storm, NRCS Type 1A Rainfall Distribution
City of Eugene

Version 2.1

Project Information

Project Name:	Three Mile Prairie	**Date:**	12/30/2020
Project Address:	18-12-15-00-00200	**Permit Number:**	NA
	Florence, OR	**Catchment ID:**	4F
Designer:	Clint Beecroft		
Company:	EGR & Associates		

Instructions:

1. Complete this form for each drainage catchment in the project site that is to be sized per the Presumptive Approach.
2. Provide a distinctive Catchment ID for each facility coordinated with the site basin map to correlate the appropriate calculations with the facility.
3. The maximum drainage catchment to be modeled per the Presumptive Approach is 1 acre (43,560 SF)
4. For infiltration facilities in Class A or B soils where no infiltration testing has been perfromed use an infiltration rate of 0.5 in/hr. For all facilities use a maximum soil infiltration rate of 2.5 in/hr for topsoil/growing medium.

Design Requirements:

Choose "Yes" from the dropdown boxes below next to the design standards requirements for this facility.

Pollution Reduction (PR)	Yes
Flow Control (FC)	Yes
Destination (DT)	Yes

*An infiltration facility must be chosen as the facility type to meet destination requirements

Site Data-Post Development

Total Square Footage Impervious Area=	2534	sqft	**Total Square Footage Pervious Area=**	0	sqft
Impervious Area CN=	98		**Pervious Area CN=**	85	
Total Square Footage of Drainage Area=	2534	sft	**Time of Concentration Post Development=**	5	min
Weighted Average CN=	98				

Site Data-Pre Development (Data in this section is only used if Flow Control is required)

Pre-Development CN=	98		**Time of Concentration Pre-Development=**	5	min

Soil Data

Tested Soil Infiltration Rate=	10	in/hr (See Note 4)	**Destination Design=**	5	in/hr
Design Soil Infiltration Rate=	4	in/hr	**Soil Infiltration Rate**		

Design Storms Used For Calculations

Requirement	Rainfall Depth		Design Storm
Pollution Reduction	0.8	inches	Water Quality
Flow Control	5.1	inches	Flood Control
Destination	5.1	inches	Flood Control

Facility Data

Facility Type=	Infiltration Stormwater Planter		**Facility Surface Area=**	254.1	sqft
Surface Width=	7.7	ft	**Facility Surface Perimeter=**	81.4	ft
Surface Length=	33	ft	**Facility Bottom Area=**	141	sqft
Facility Side Slopes=	3	to 1	**Facility Bottom Perimeter=**	69	ft
Max. Ponding Depth in Stormwater Facility=	6	in	**Basin Volume=**	101.0	cf
Depth of Growing Medium (Soil)=	18	in	**Ratio of Facility Area to Impervious Area=**	0.100	

Pollution Reduction-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.010	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	132	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	0.0	in			
Drawdown Time=	0.2	hours			

Yes **Facility Sizing Meets Pollution Reduction Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

Flow Control-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.078	cfs	Peak Facility Overflow Rate=	0.020	cfs
Total Runoff Volume to Stormwater Facility =	1016	cf	Total Overflow Volume=	25	cf
Max. Depth of Stormwater in Facility=	6.0	in	Peak Off-Site Flow Rate Filtration Facility Underdrain=	N\A	cfs
Drawdown Time=	0.2	hours			

Pre-Development Runoff Data

Peak Flow Rate =	0.078	cfs
Total Runoff Volume =	1018	cf

Yes **Facility Sizing Meets Flow Control Standards?**

YES **Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

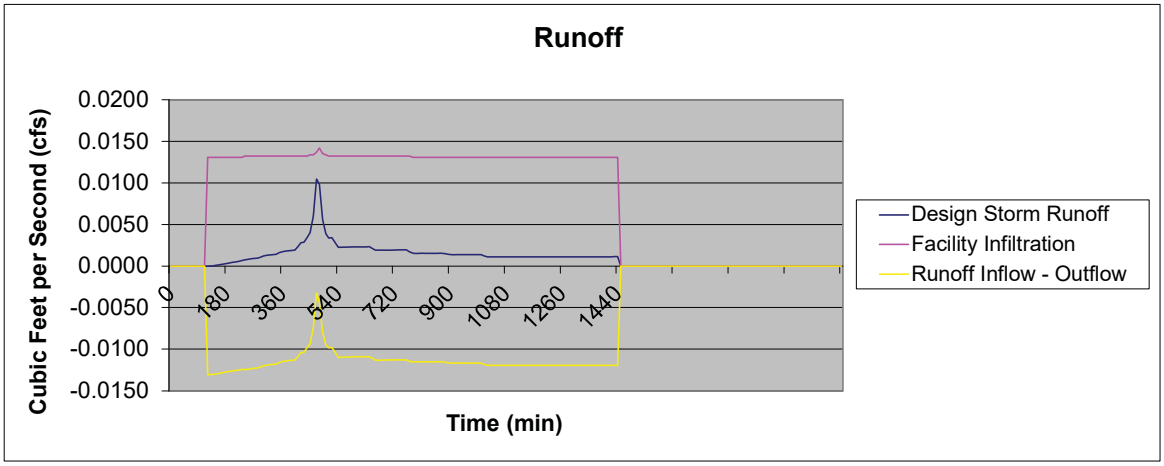
Destination-Calculation Results

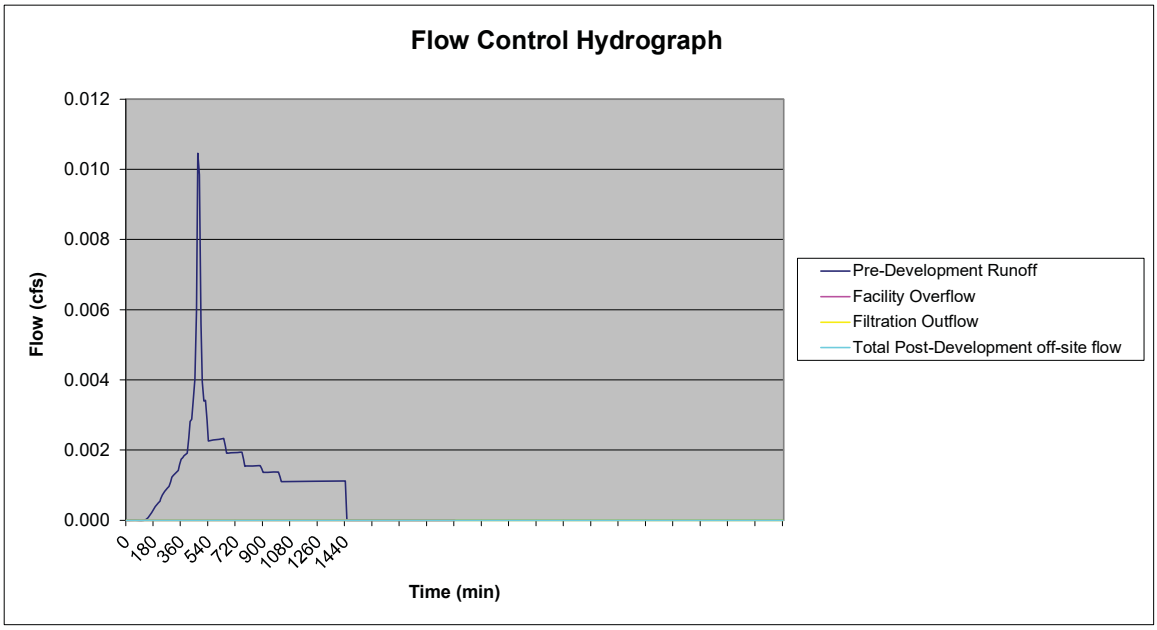
Peak Flow Rate to Stormwater Facility =	0.078	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	1016	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	5.8	in			
Drawdown Time=	0.2	hours			

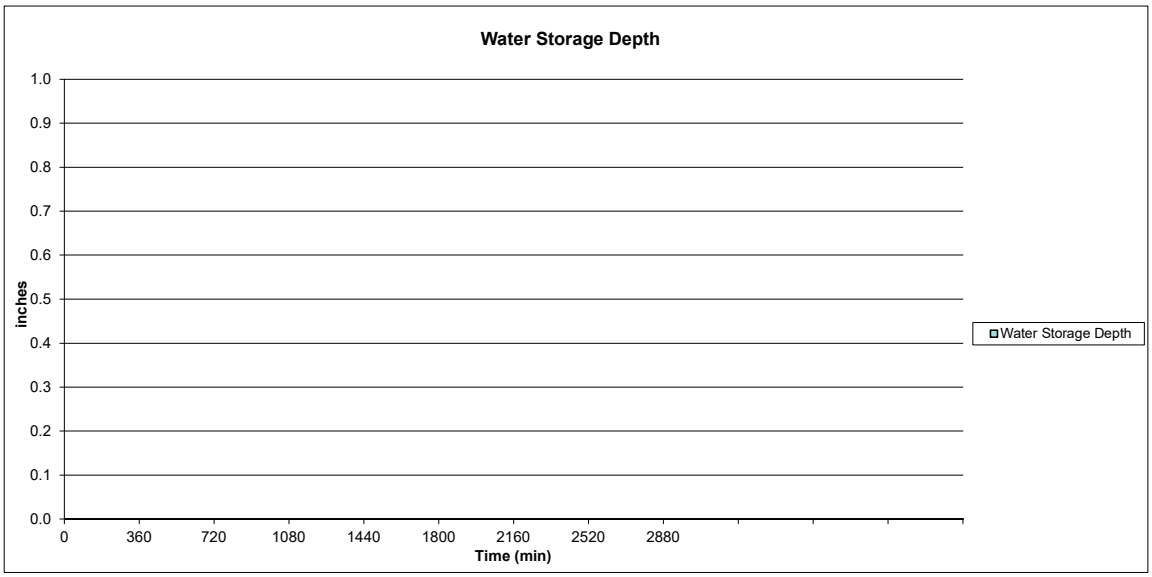
Yes **Facility Sizing Meets Destination Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 30 hour Drawdown Time?**

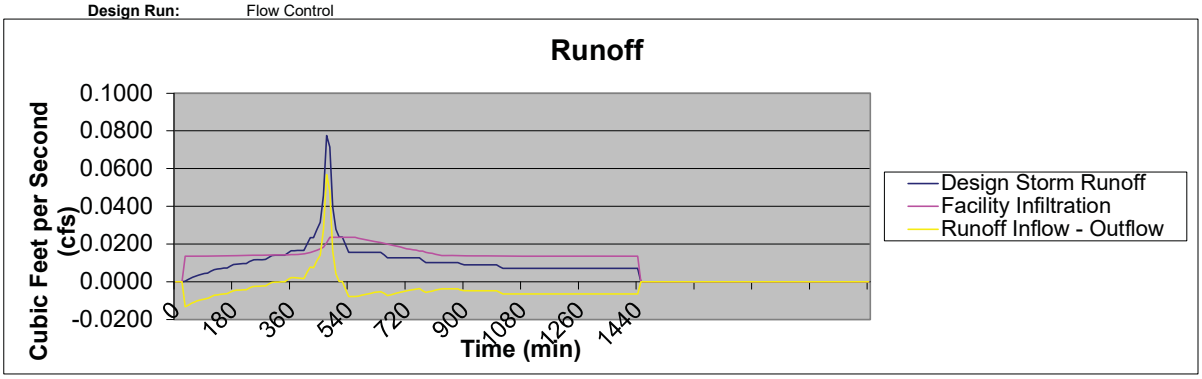
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 4F
Design Run: Pollution Reduction

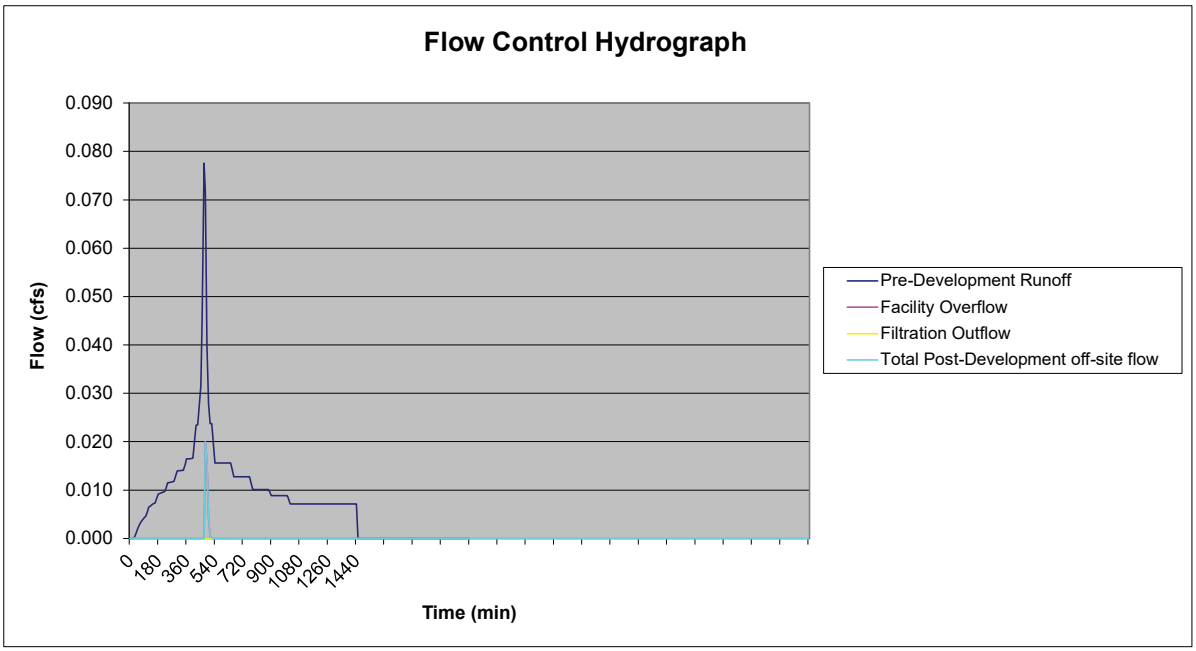


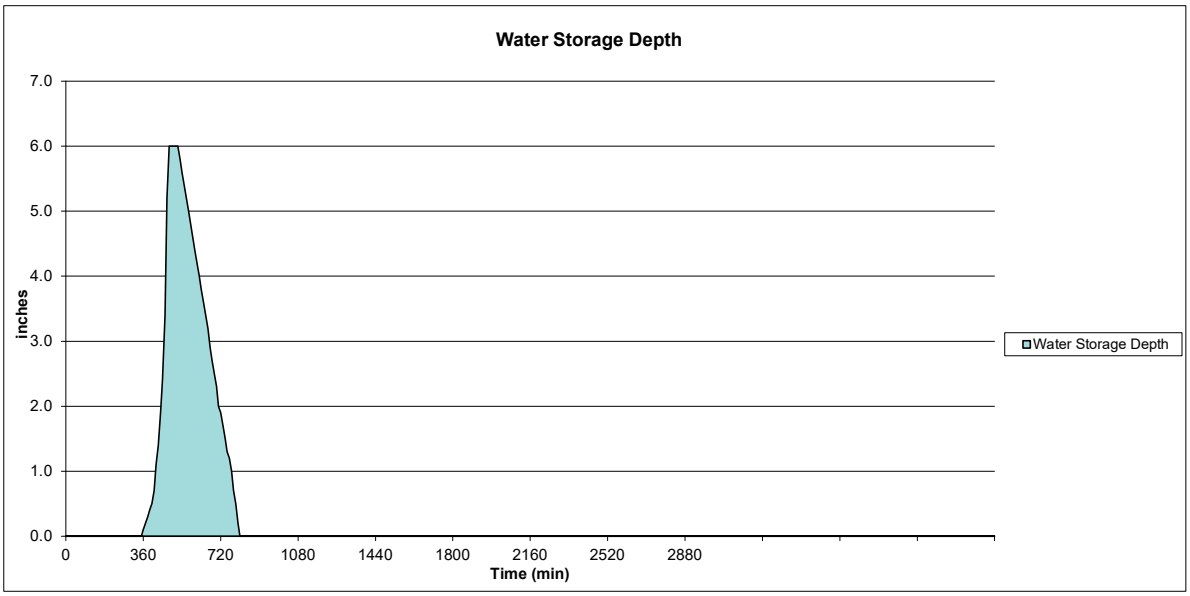




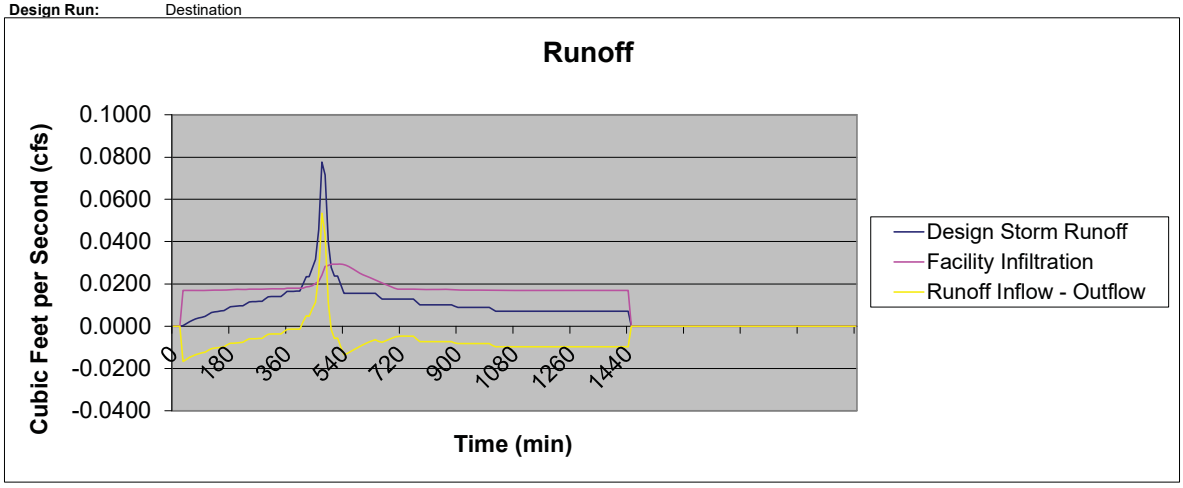
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 4F
Design Run: Flow Control

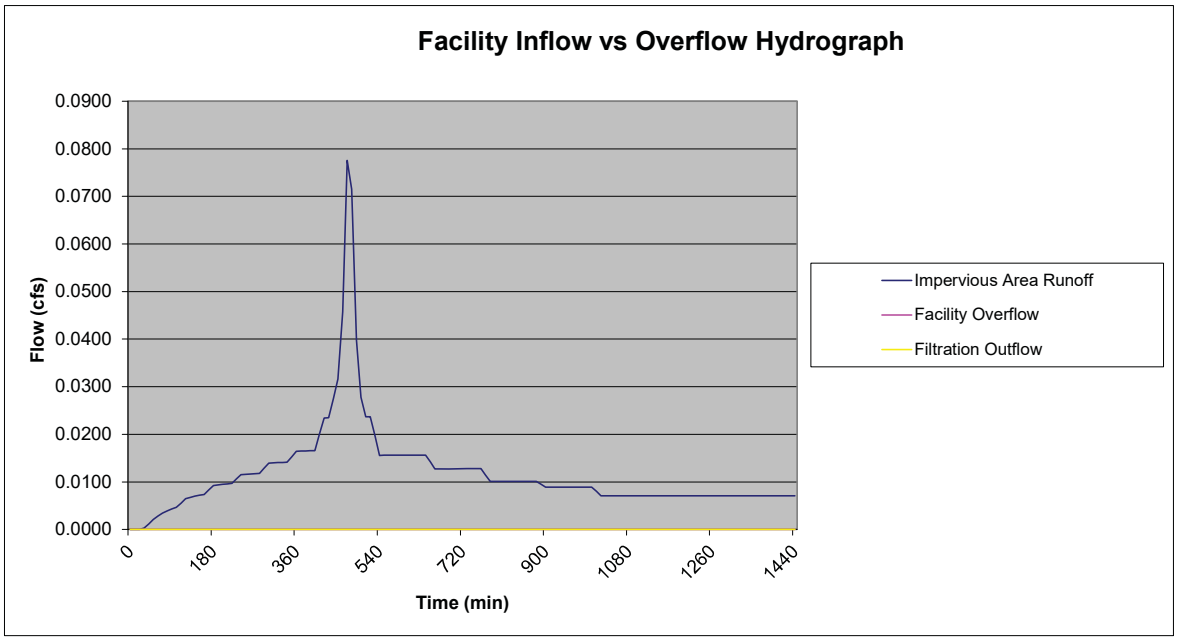


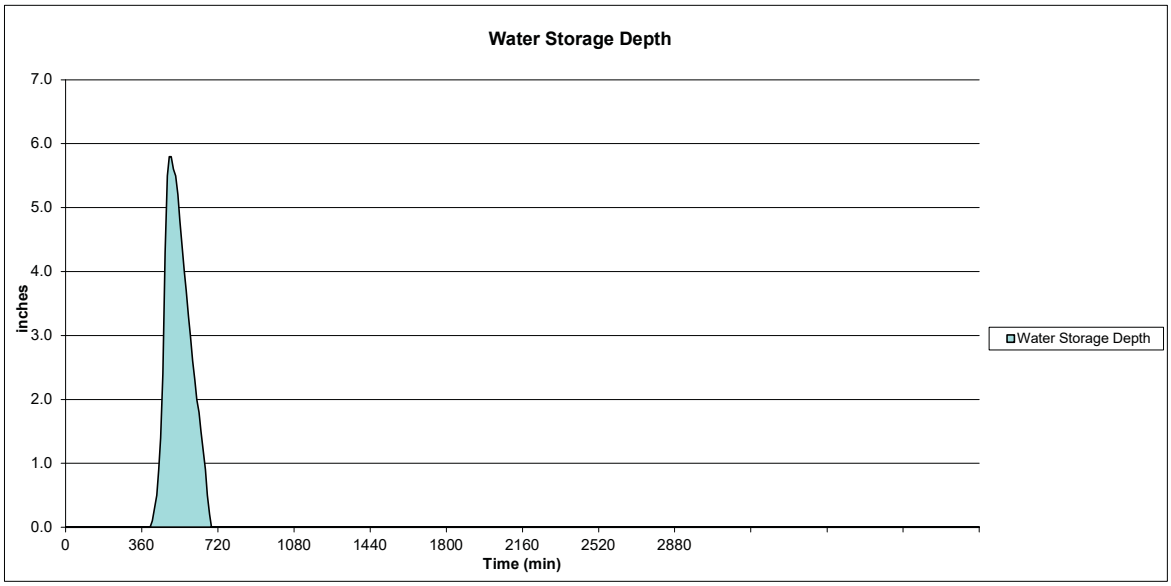




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 4F
Design Run: Destination







Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet
24 Hour Storm, NRCS Type 1A Rainfall Distribution
City of Eugene

Version 2.1

Project Information

Project Name:	Three Mile Prairie	**Date:**	12/30/2020
Project Address:	18-12-15-00-00200	**Permit Number:**	NA
	Florence, OR	**Catchment ID:**	4G
Designer:	Clint Beecroft		
Company:	EGR & Associates		

Instructions:

1. Complete this form for each drainage catchment in the project site that is to be sized per the Presumptive Approach.
2. Provide a distinctive Catchment ID for each facility coordinated with the site basin map to correlate the appropriate calculations with the facility.
3. The maximum drainage catchment to be modeled per the Presumptive Approach is 1 acre (43,560 SF)
4. For infiltration facilities in Class A or B soils where no infiltration testing has been perfromed use an infiltration rate of 0.5 in/hr. For all facilities use a maximum soil infiltration rate of 2.5 in/hr for topsoil/growing medium.

Design Requirements:

Choose "Yes" from the dropdown boxes below next to the design standards requirements for this facility.

Pollution Reduction (PR)	Yes
Flow Control (FC)	Yes
Destination (DT)	Yes

*An infiltration facility must be chosen as the facility type to meet destination requirements

Site Data-Post Development

Total Square Footage Impervious Area=	2492	sqft	**Total Square Footage Pervious Area=**	0	sqft
Impervious Area CN=	98		**Pervious Area CN=**	85	
Total Square Footage of Drainage Area=	2492	sft	**Time of Concentration Post Development=**	5	min
Weighted Average CN=	98				

Site Data-Pre Development (Data in this section is only used if Flow Control is required)

Pre-Development CN=	98		**Time of Concentration Pre-Development=**	5	min

Soil Data

Tested Soil Infiltration Rate=	10	in/hr (See Note 4)	**Destination Design=**	5	in/hr
Design Soil Infiltration Rate=	4	in/hr	**Soil Infiltration Rate**		

Design Storms Used For Calculations

Requirement	Rainfall Depth		Design Storm
Pollution Reduction	0.8	inches	Water Quality
Flow Control	5.1	inches	Flood Control
Destination	5.1	inches	Flood Control

Facility Data

Facility Type=	Infiltration Stormwater Planter		**Facility Surface Area=**	254.1	sqft
Surface Width=	7.7	ft	**Facility Surface Perimeter=**	81.4	ft
Surface Length=	33	ft	**Facility Bottom Area=**	141	sqft
Facility Side Slopes=	3	to 1	**Facility Bottom Perimeter=**	69	ft
Max. Ponding Depth in Stormwater Facility=	6	in	**Basin Volume=**	101.0	cf
Depth of Growing Medium (Soil)=	18	in	**Ratio of Facility Area to Impervious Area=**	0.102	

Pollution Reduction-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.010	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	130	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	0.0	in			
Drawdown Time=	0.2	hours			

Yes **Facility Sizing Meets Pollution Reduction Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

Flow Control-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.076	cfs	Peak Facility Overflow Rate=	0.016	cfs
Total Runoff Volume to Stormwater Facility =	999	cf	Total Overflow Volume=	20	cf
Max. Depth of Stormwater in Facility=	6.0	in	Peak Off-Site Flow Rate Filtration Facility Underdrain=	N\A	cfs
Drawdown Time=	0.2	hours			

Pre-Development Runoff Data

Peak Flow Rate =	0.076	cfs
Total Runoff Volume =	1002	cf

Yes **Facility Sizing Meets Flow Control Standards?**

YES **Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

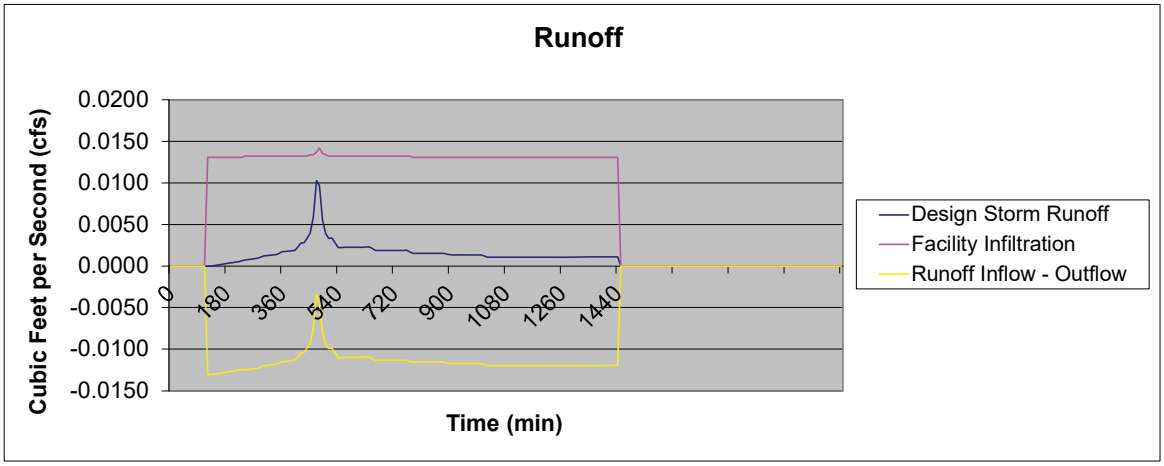
Destination-Calculation Results

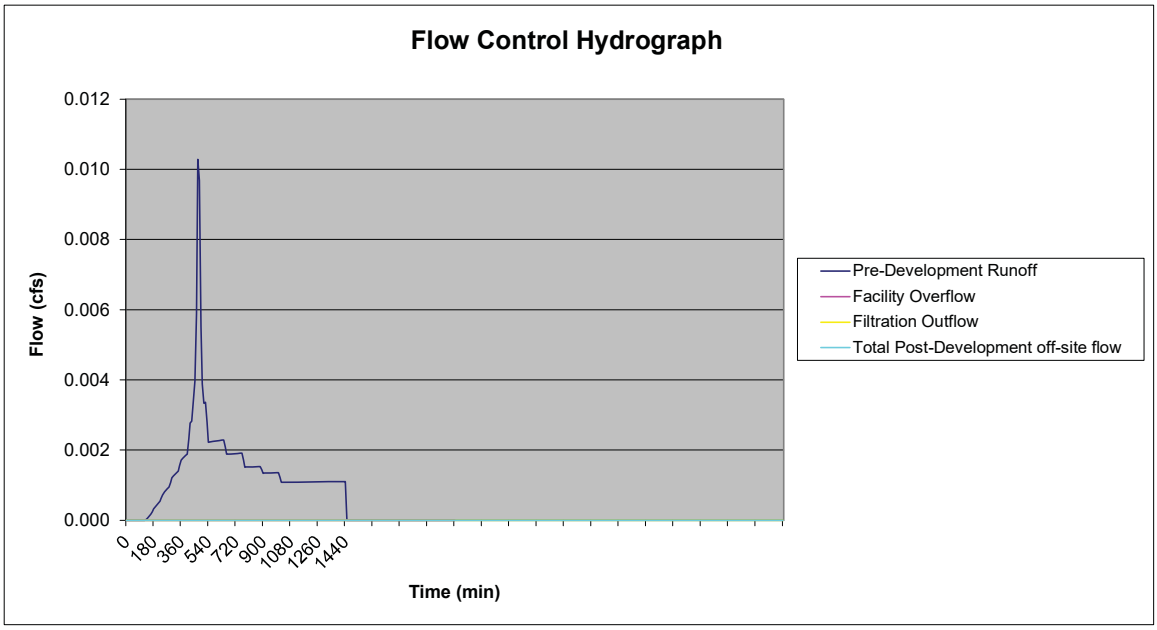
Peak Flow Rate to Stormwater Facility =	0.076	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	999	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	5.7	in			
Drawdown Time=	0.2	hours			

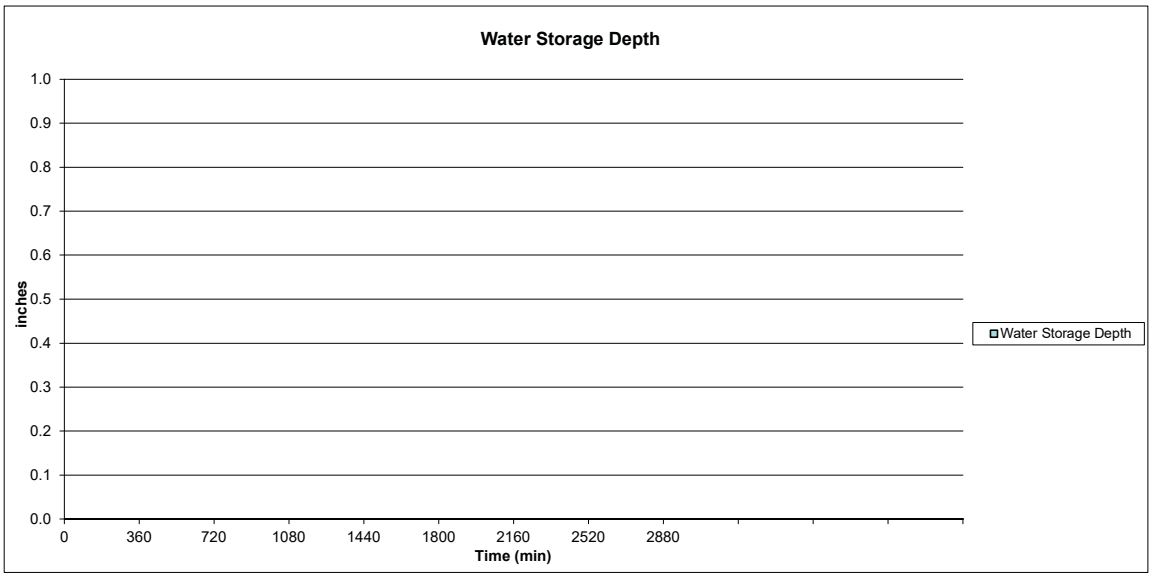
Yes **Facility Sizing Meets Destination Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 30 hour Drawdown Time?**

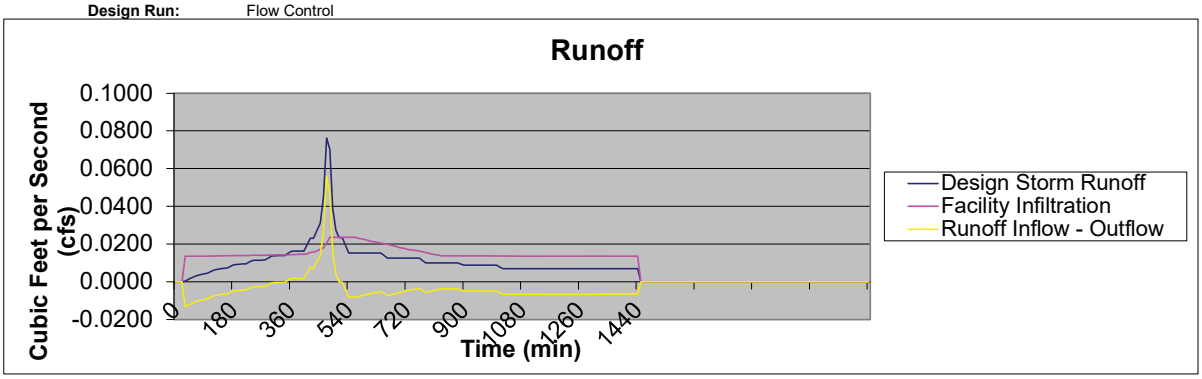
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 4G
Design Run: Pollution Reduction

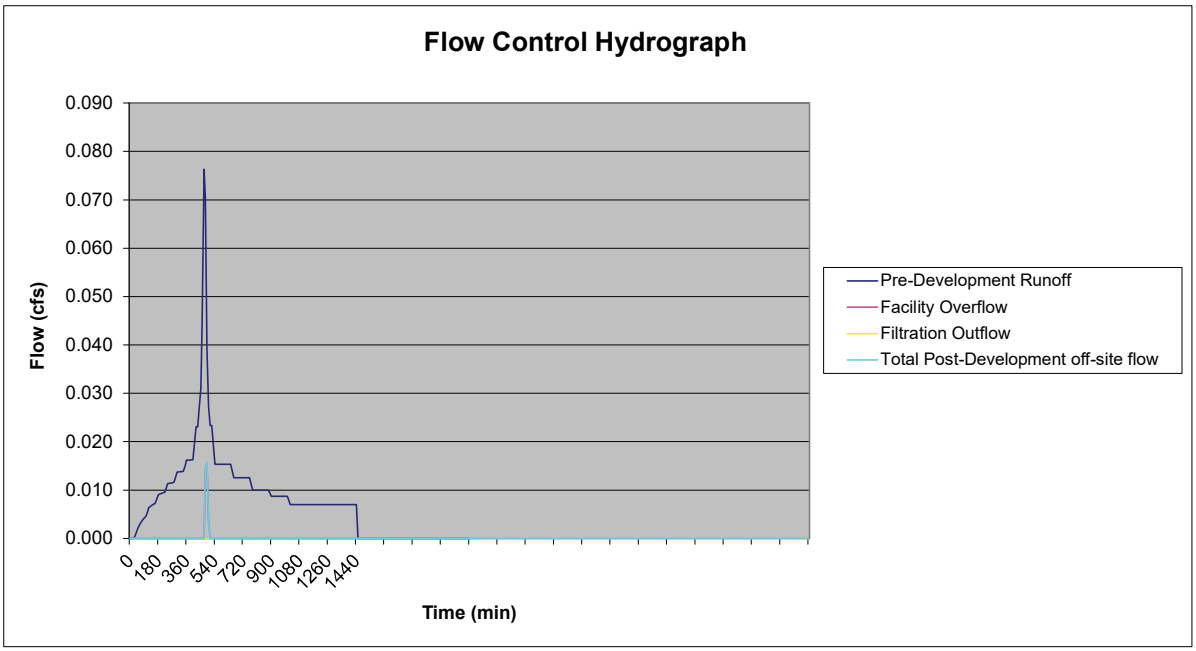


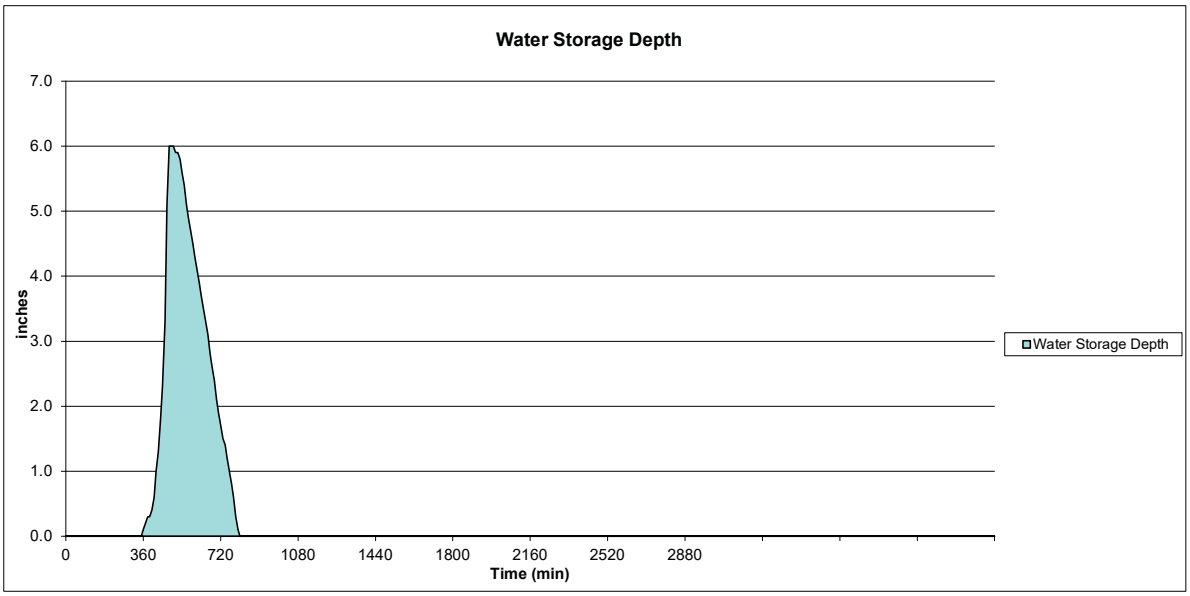




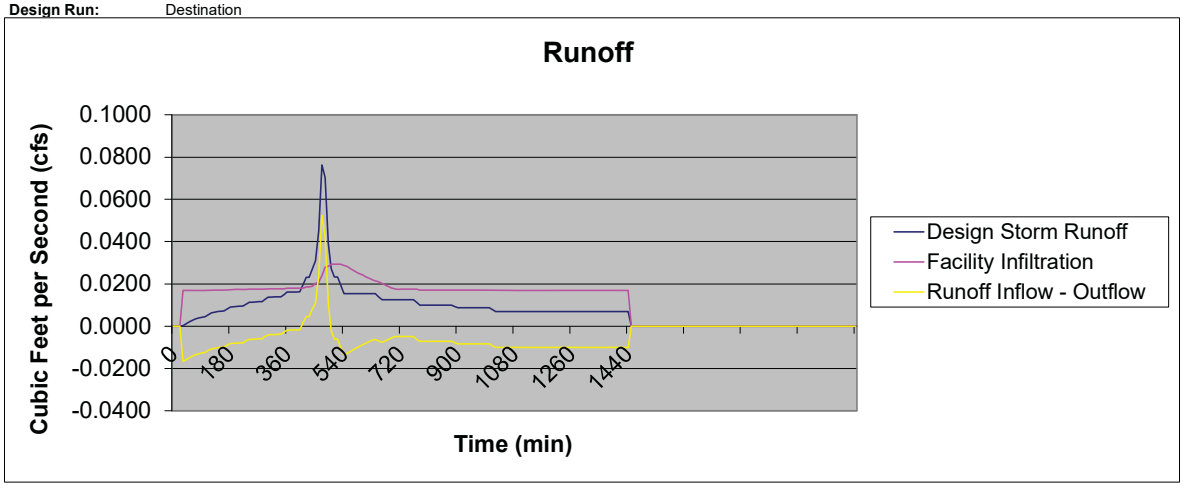
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 4G
Design Run: Flow Control

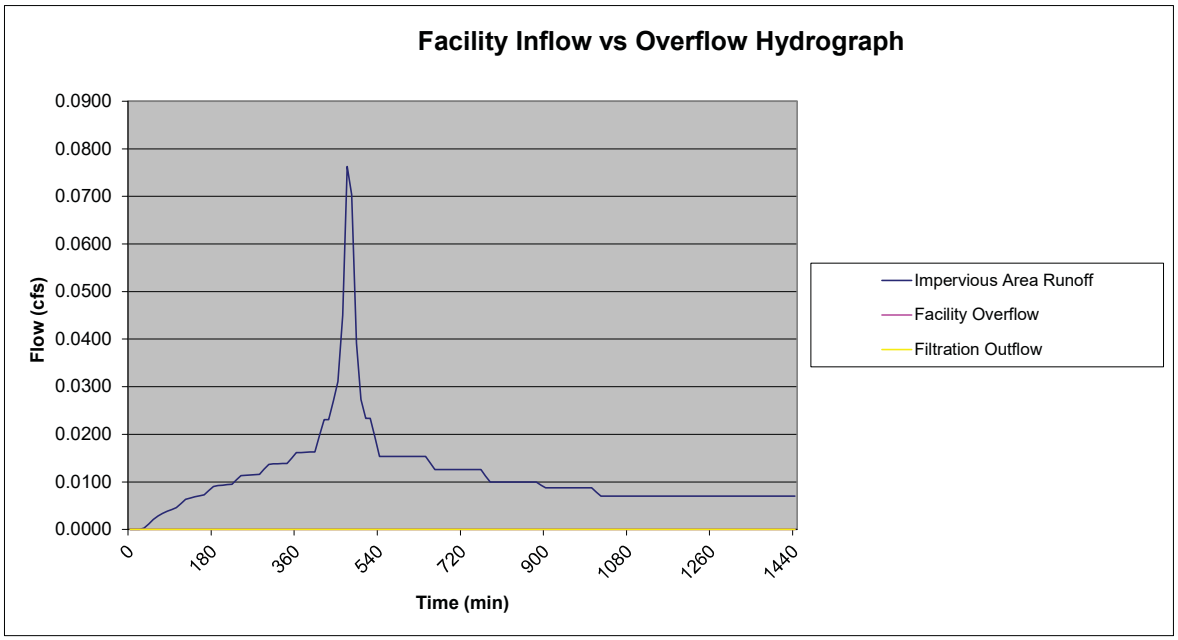


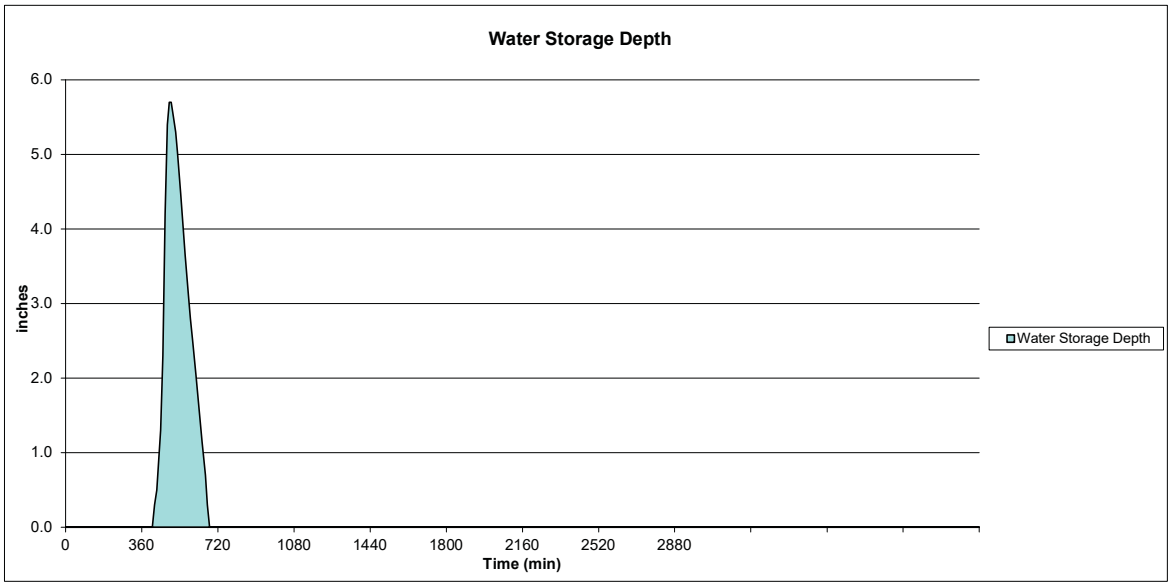




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 4G
Design Run: Destination







Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet
24 Hour Storm, NRCS Type 1A Rainfall Distribution
City of Eugene

Version 2.1

Project Information

Project Name:	Three Mile Prairie	**Date:**	12/30/2020
Project Address:	18-12-15-00-00200	**Permit Number:**	NA
	Florence, OR	**Catchment ID:**	4H
Designer:	Clint Beecroft		
Company:	EGR & Associates		

Instructions:

1. Complete this form for each drainage catchment in the project site that is to be sized per the Presumptive Approach.
2. Provide a distinctive Catchment ID for each facility coordinated with the site basin map to correlate the appropriate calculations with the facility.
3. The maximum drainage catchment to be modeled per the Presumptive Approach is 1 acre (43,560 SF)
4. For infiltration facilities in Class A or B soils where no infiltration testing has been perfromed use an infiltration rate of 0.5 in/hr. For all facilities use a maximum soil infiltration rate of 2.5 in/hr for topsoil/growing medium.

Design Requirements:

Choose "Yes" from the dropdown boxes below next to the design standards requirements for this facility.

Pollution Reduction (PR)	Yes
Flow Control (FC)	Yes
Destination (DT)	Yes

*An infiltration facility must be chosen as the facility type to meet destination requirements

Site Data-Post Development

Total Square Footage Impervious Area=	2492	sqft	**Total Square Footage Pervious Area=**	0	sqft
Impervious Area CN=	98		**Pervious Area CN=**	85	
Total Square Footage of Drainage Area=	2492	sft	**Time of Concentration Post Development=**	5	min
Weighted Average CN=	98				

Site Data-Pre Development (Data in this section is only used if Flow Control is required)

Pre-Development CN=	98		**Time of Concentration Pre-Development=**	5	min

Soil Data

Tested Soil Infiltration Rate=	10	in/hr (See Note 4)	**Destination Design=**	5	in/hr
Design Soil Infiltration Rate=	4	in/hr	**Soil Infiltration Rate**		

Design Storms Used For Calculations

Requirement	Rainfall Depth		Design Storm
Pollution Reduction	0.8	inches	Water Quality
Flow Control	5.1	inches	Flood Control
Destination	5.1	inches	Flood Control

Facility Data

Facility Type=	Infiltration Stormwater Planter		**Facility Surface Area=**	254.1	sqft
Surface Width=	7.7	ft	**Facility Surface Perimeter=**	81.4	ft
Surface Length=	33	ft	**Facility Bottom Area=**	141	sqft
Facility Side Slopes=	3	to 1	**Facility Bottom Perimeter=**	69	ft
Max. Ponding Depth in Stormwater Facility=	6	in	**Basin Volume=**	101.0	cf
Depth of Growing Medium (Soil)=	18	in	**Ratio of Facility Area to Impervious Area=**	0.102	

Pollution Reduction-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.010	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	130	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	0.0	in			
Drawdown Time=	0.2	hours			

Yes **Facility Sizing Meets Pollution Reduction Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

Flow Control-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.076	cfs	Peak Facility Overflow Rate=	0.016	cfs
Total Runoff Volume to Stormwater Facility =	999	cf	Total Overflow Volume=	20	cf
Max. Depth of Stormwater in Facility=	6.0	in	Peak Off-Site Flow Rate Filtration Facility Underdrain=	N\A	cfs
Drawdown Time=	0.2	hours			

Pre-Development Runoff Data

Peak Flow Rate =	0.076	cfs
Total Runoff Volume =	1002	cf

Yes **Facility Sizing Meets Flow Control Standards?**

YES **Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

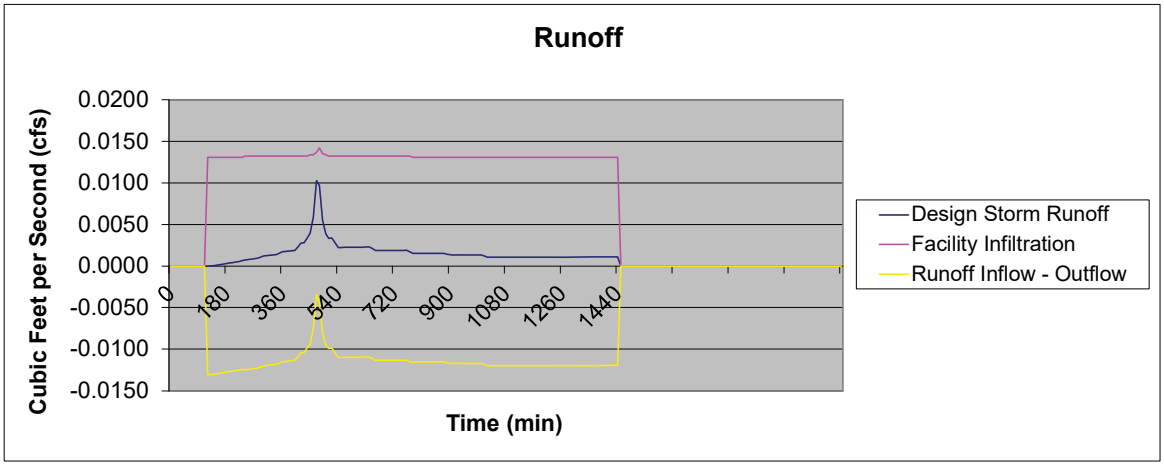
Destination-Calculation Results

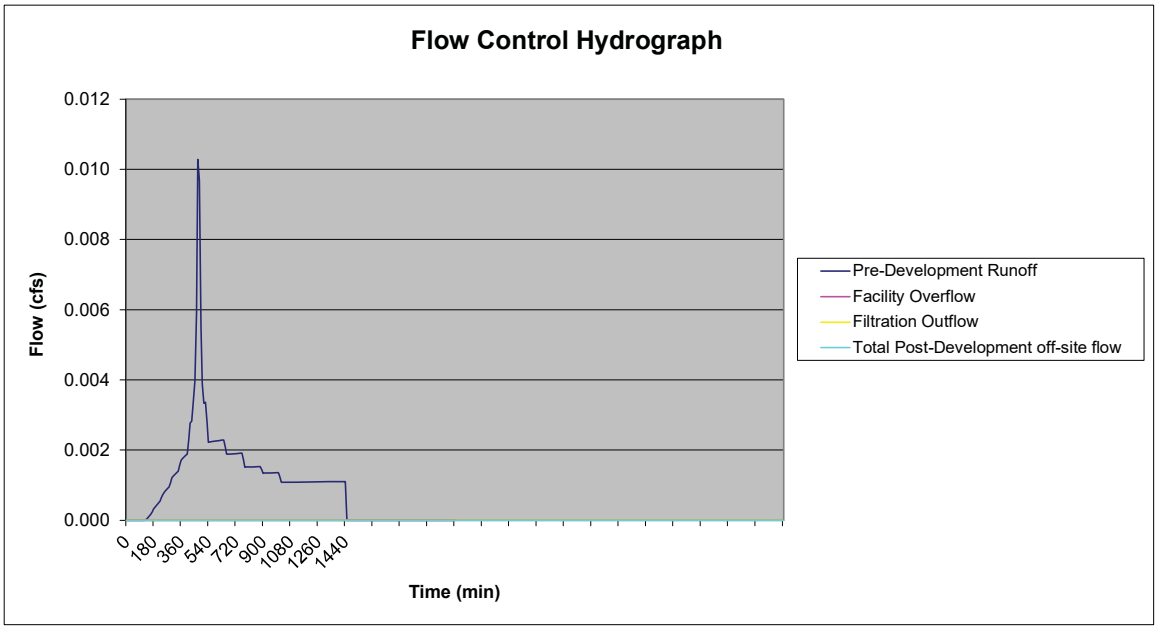
Peak Flow Rate to Stormwater Facility =	0.076	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	999	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	5.7	in			
Drawdown Time=	0.2	hours			

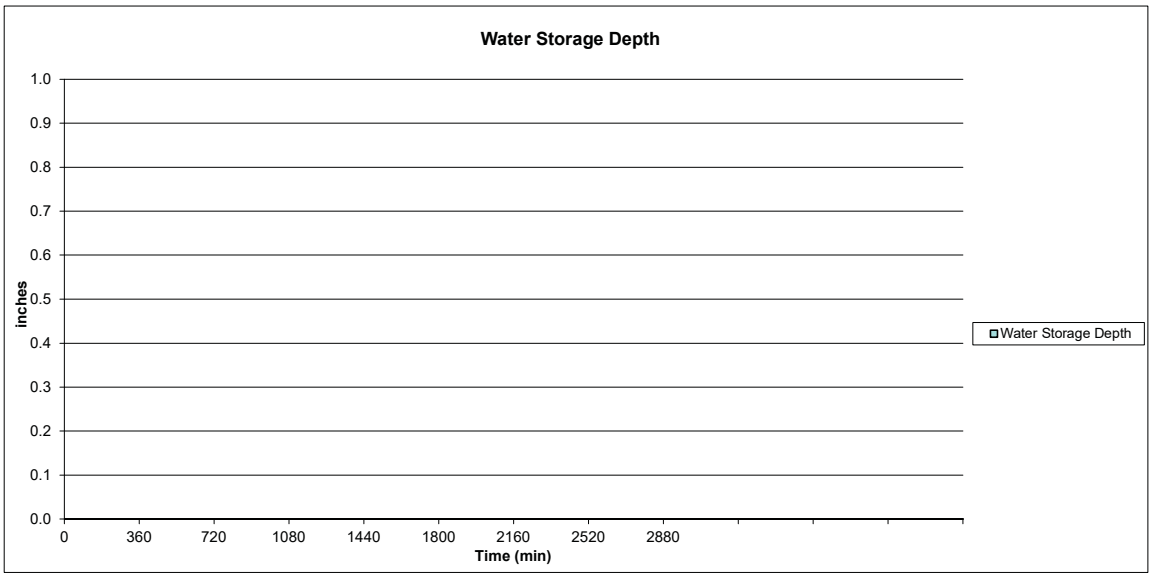
Yes **Facility Sizing Meets Destination Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 30 hour Drawdown Time?**

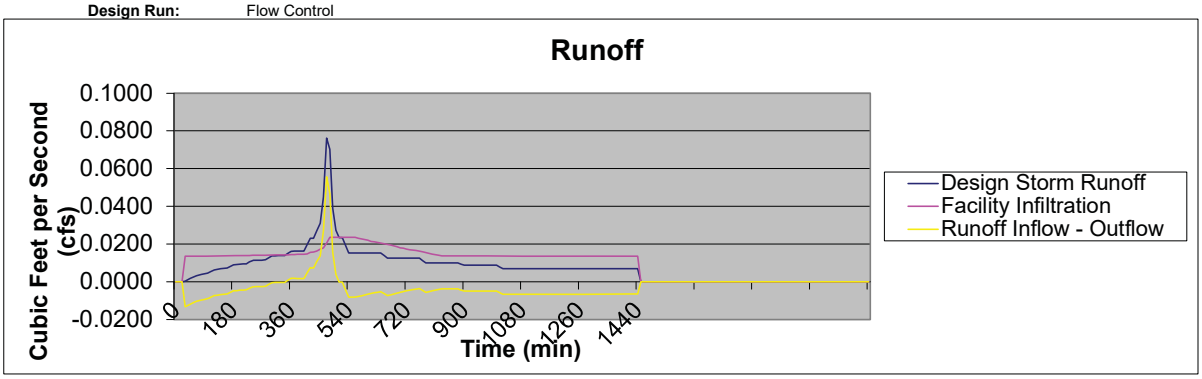
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 4H
Design Run: Pollution Reduction

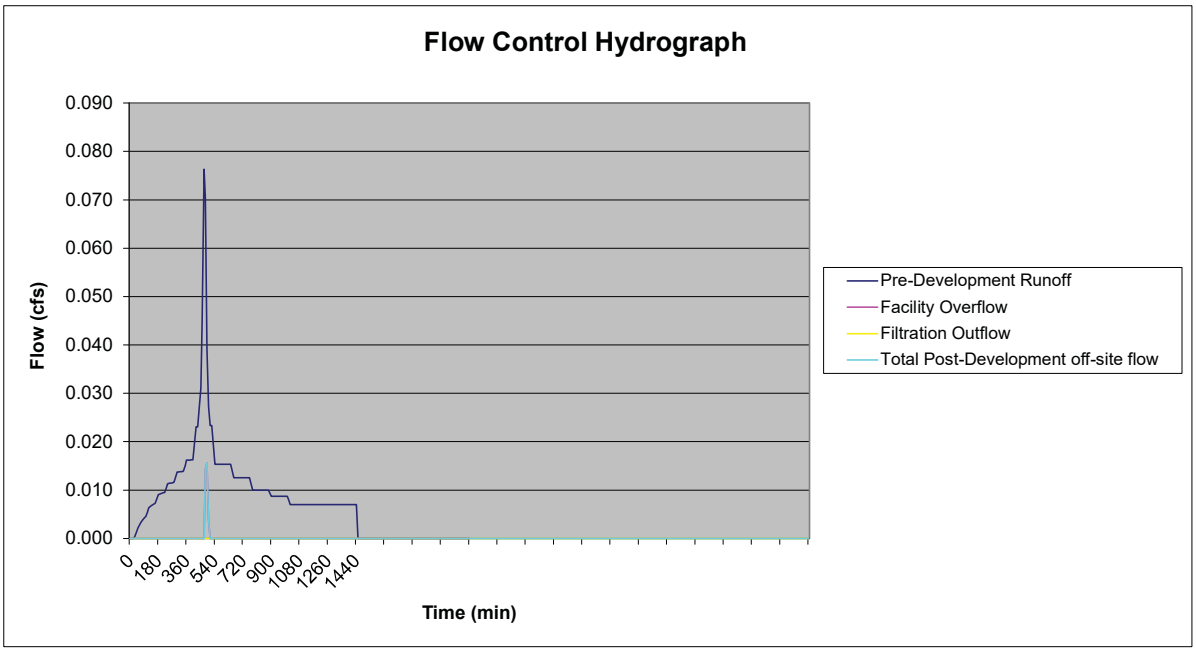


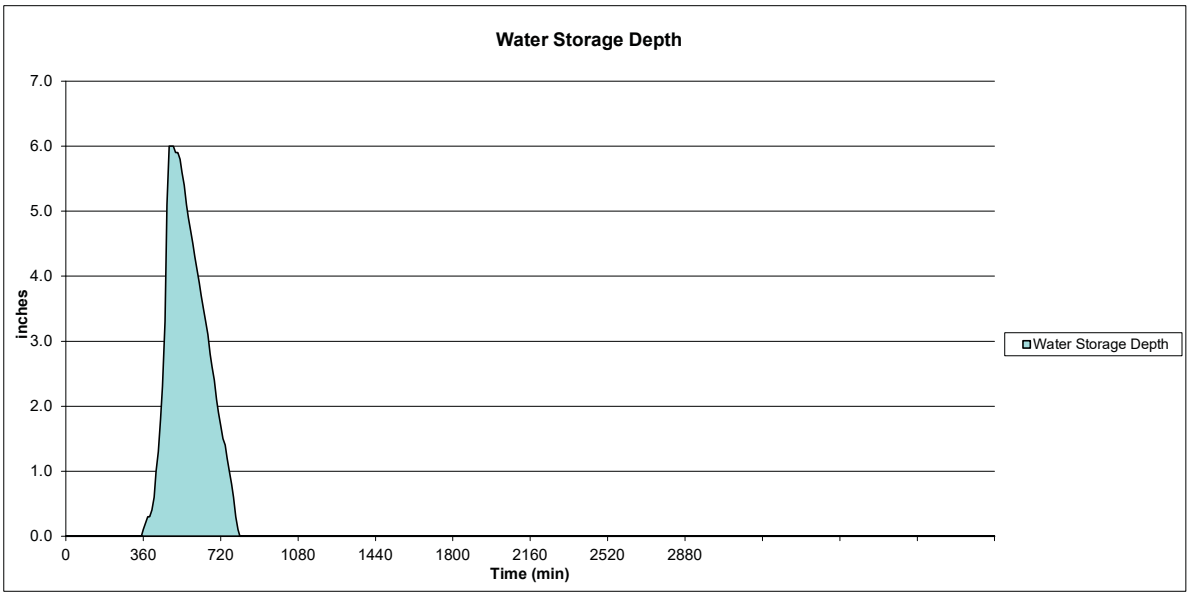




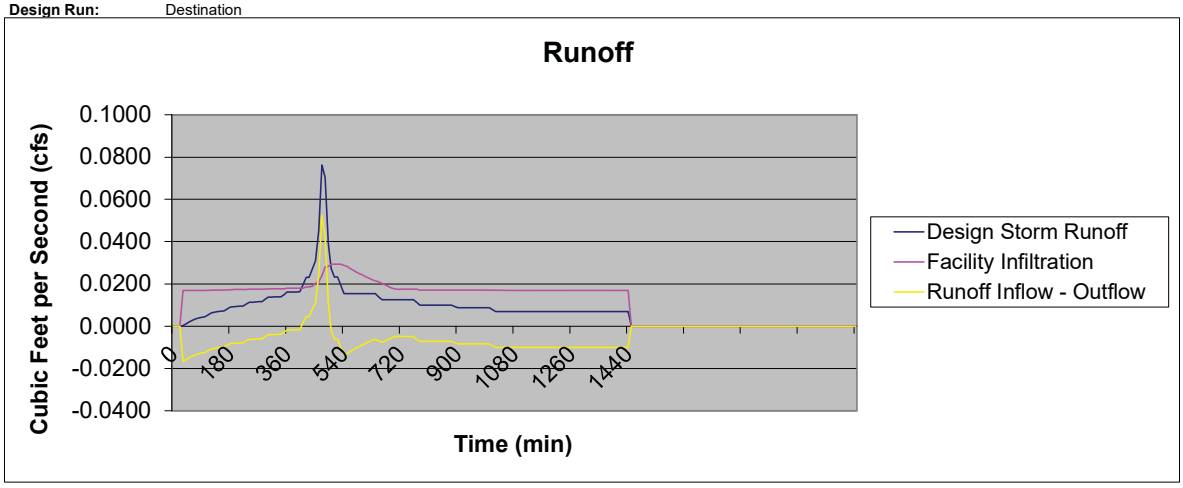
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 4H
Design Run: Flow Control

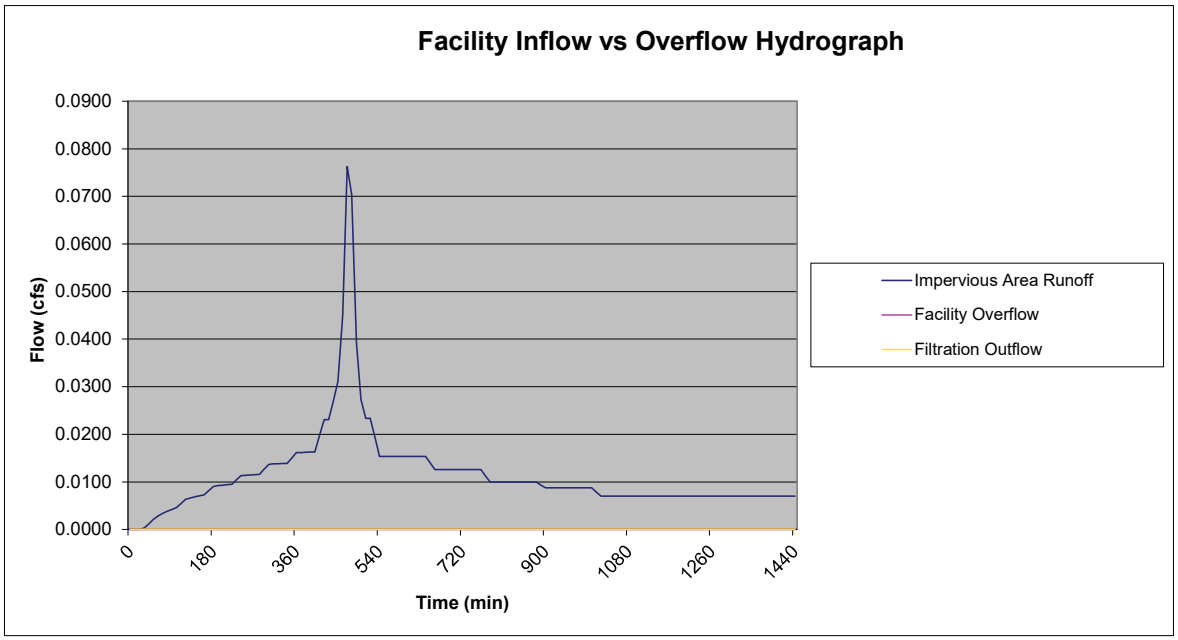


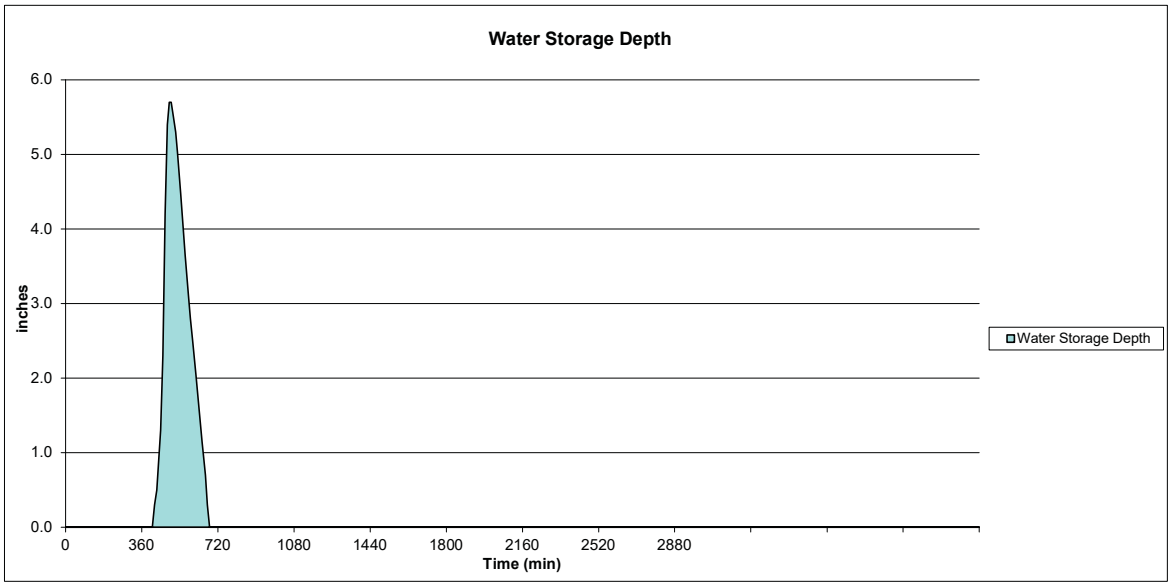




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 4H
Design Run: Destination







Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet
24 Hour Storm, NRCS Type 1A Rainfall Distribution
City of Eugene

Version 2.1

Project Information

Project Name:	Three Mile Prairie	**Date:**	12/30/2020
Project Address:	18-12-15-00-00200	**Permit Number:**	NA
	Florence, OR	**Catchment ID:**	4I
Designer:	Clint Beecroft		
Company:	EGR & Associates		

Instructions:

1. Complete this form for each drainage catchment in the project site that is to be sized per the Presumptive Approach.
2. Provide a distinctive Catchment ID for each facility coordinated with the site basin map to correlate the appropriate calculations with the facility.
3. The maximum drainage catchment to be modeled per the Presumptive Approach is 1 acre (43,560 SF)
4. For infiltration facilities in Class A or B soils where no infiltration testing has been perfromed use an infiltration rate of 0.5 in/hr. For all facilities use a maximum soil infiltration rate of 2.5 in/hr for topsoil/growing medium.

Design Requirements:

Choose "Yes" from the dropdown boxes below next to the design standards requirements for this facility.

Pollution Reduction (PR)	Yes
Flow Control (FC)	Yes
Destination (DT)	Yes

*An infiltration facility must be chosen as the facility type to meet destination requirements

Site Data-Post Development

Total Square Footage Impervious Area=	812	sqft	**Total Square Footage Pervious Area=**	0	sqft
Impervious Area CN=	98		**Pervious Area CN=**	85	
Total Square Footage of Drainage Area=	812	sft	**Time of Concentration Post Development=**	5	min
Weighted Average CN=	98				

Site Data-Pre Development (Data in this section is only used if Flow Control is required)

Pre-Development CN=	98		**Time of Concentration Pre-Development=**	5	min

Soil Data

Tested Soil Infiltration Rate=	10	in/hr (See Note 4)	**Destination Design=**	5	in/hr
Design Soil Infiltration Rate=	4	in/hr	**Soil Infiltration Rate**		

Design Storms Used For Calculations

Requirement	Rainfall Depth		Design Storm
Pollution Reduction	0.8	inches	Water Quality
Flow Control	5.1	inches	Flood Control
Destination	5.1	inches	Flood Control

Facility Data

Facility Type=	Infiltration Stormwater Planter		**Facility Surface Area=**	64	sqft
Surface Width=	6.4	ft	**Facility Surface Perimeter=**	32.8	ft
Surface Length=	10	ft	**Facility Bottom Area=**	64	sqft
Facility Side Slopes=	0	to 1	**Facility Bottom Perimeter=**	33	ft
Max. Ponding Depth in Stormwater Facility=	6	in	**Basin Volume=**	32.0	cf
Depth of Growing Medium (Soil)=	18	in	**Ratio of Facility Area to Impervious Area=**	0.079	

Pollution Reduction-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.003	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	42	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	0.0	in			
Drawdown Time=	0.2	hours			

Yes **Facility Sizing Meets Pollution Reduction Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

Flow Control-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.025	cfs	Peak Facility Overflow Rate=	0.007	cfs
Total Runoff Volume to Stormwater Facility =	326	cf	Total Overflow Volume=	9	cf
Max. Depth of Stormwater in Facility=	6.0	in	Peak Off-Site Flow Rate Filtration Facility Underdrain=	N\A	cfs
Drawdown Time=	0.2	hours			

Pre-Development Runoff Data

Peak Flow Rate =	0.025	cfs
Total Runoff Volume =	326	cf

Yes **Facility Sizing Meets Flow Control Standards?**

YES **Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

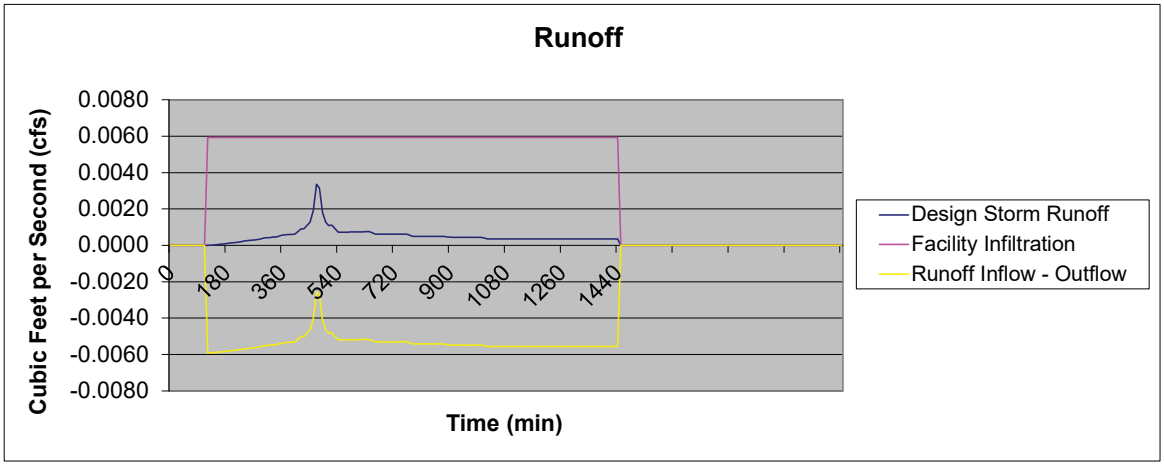
Destination-Calculation Results

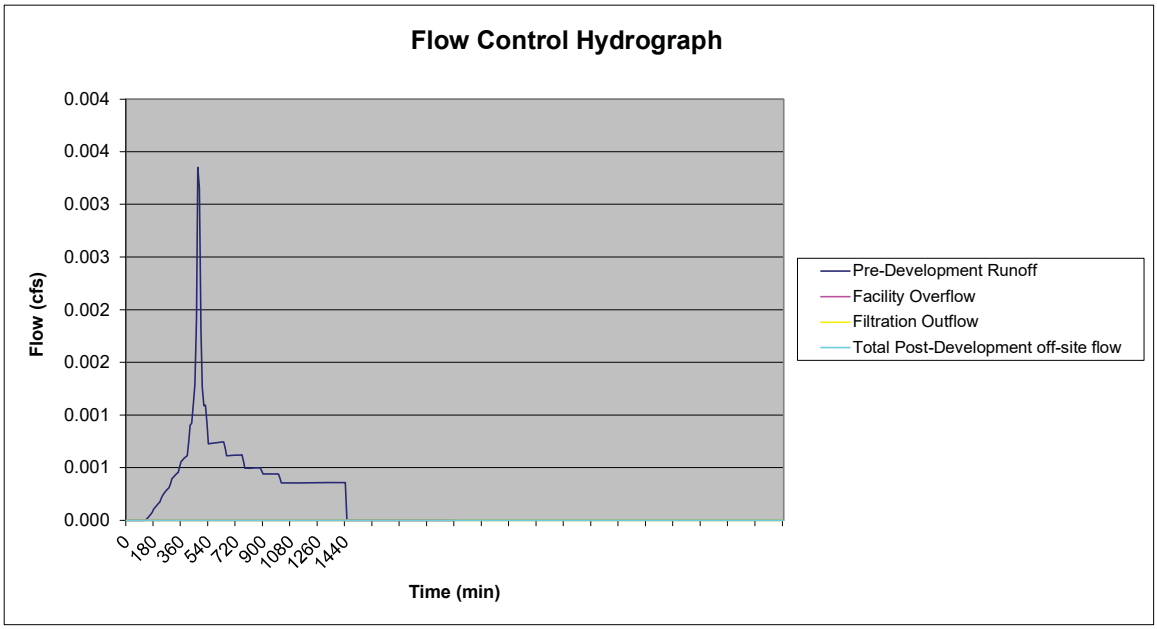
Peak Flow Rate to Stormwater Facility =	0.025	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	326	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	5.8	in			
Drawdown Time=	0.2	hours			

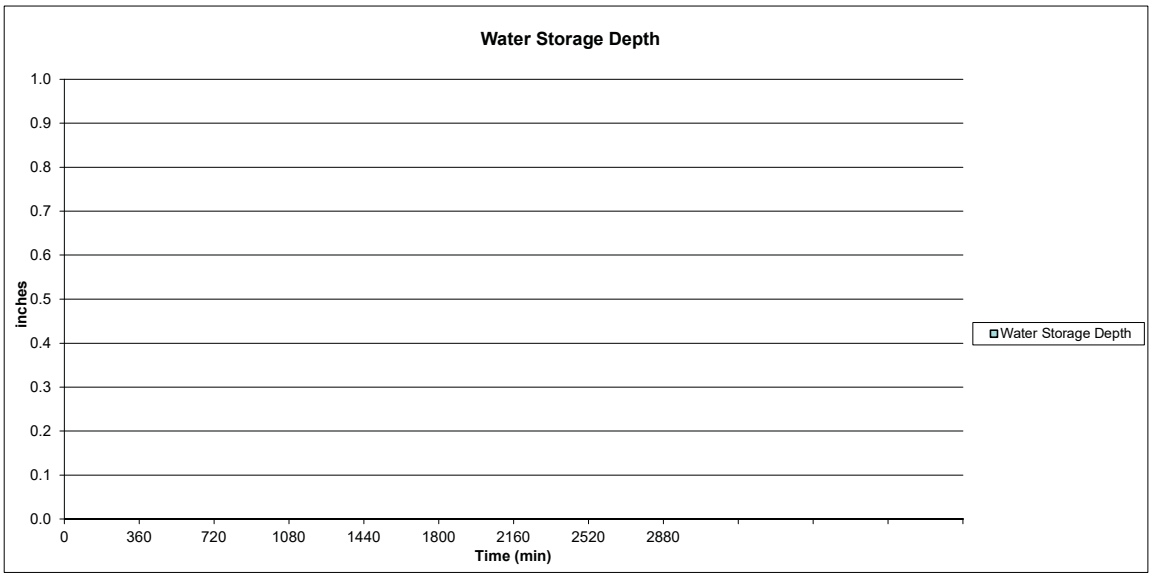
Yes **Facility Sizing Meets Destination Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 30 hour Drawdown Time?**

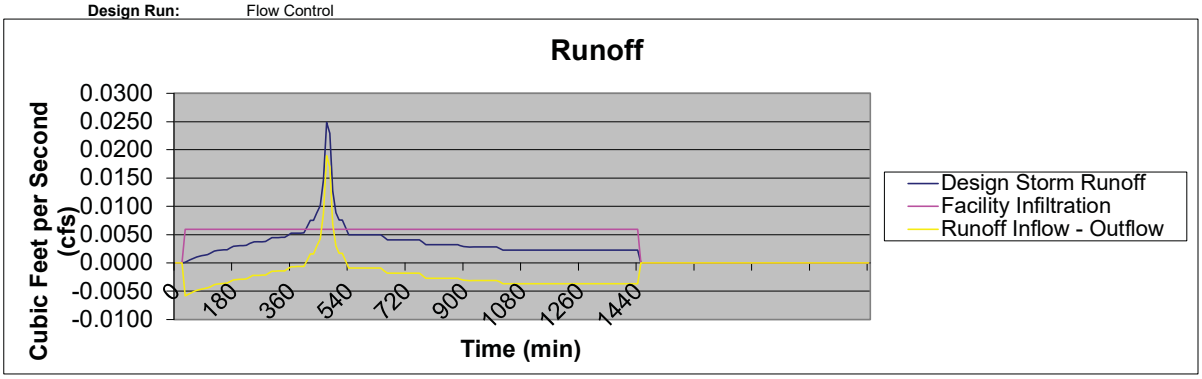
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 4I
Design Run: Pollution Reduction

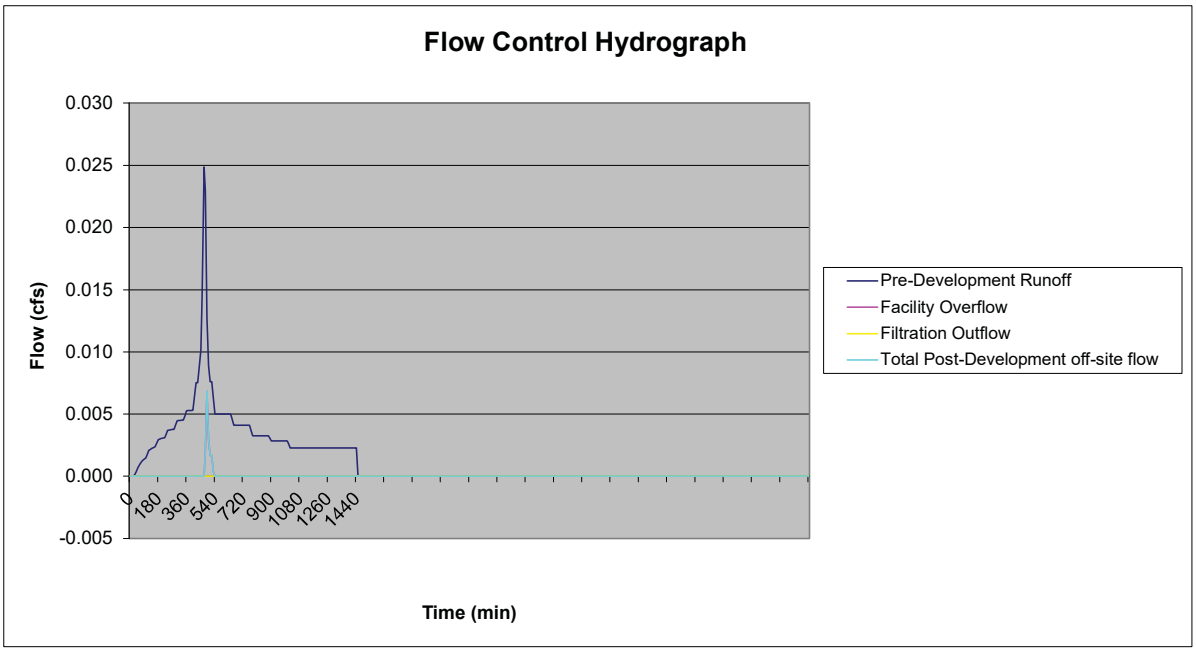


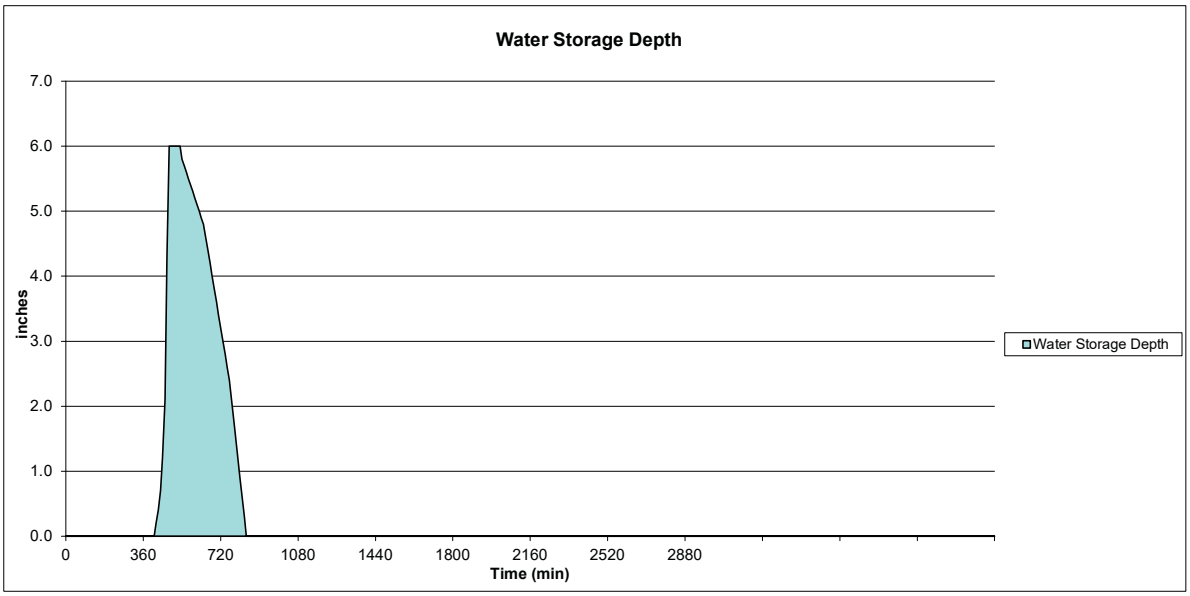




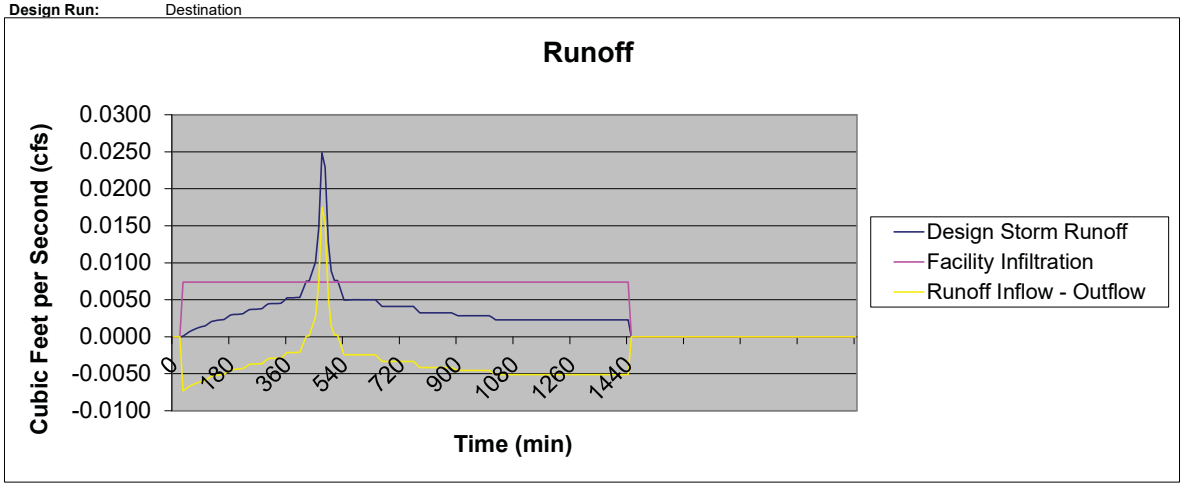
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 4I
Design Run: Flow Control

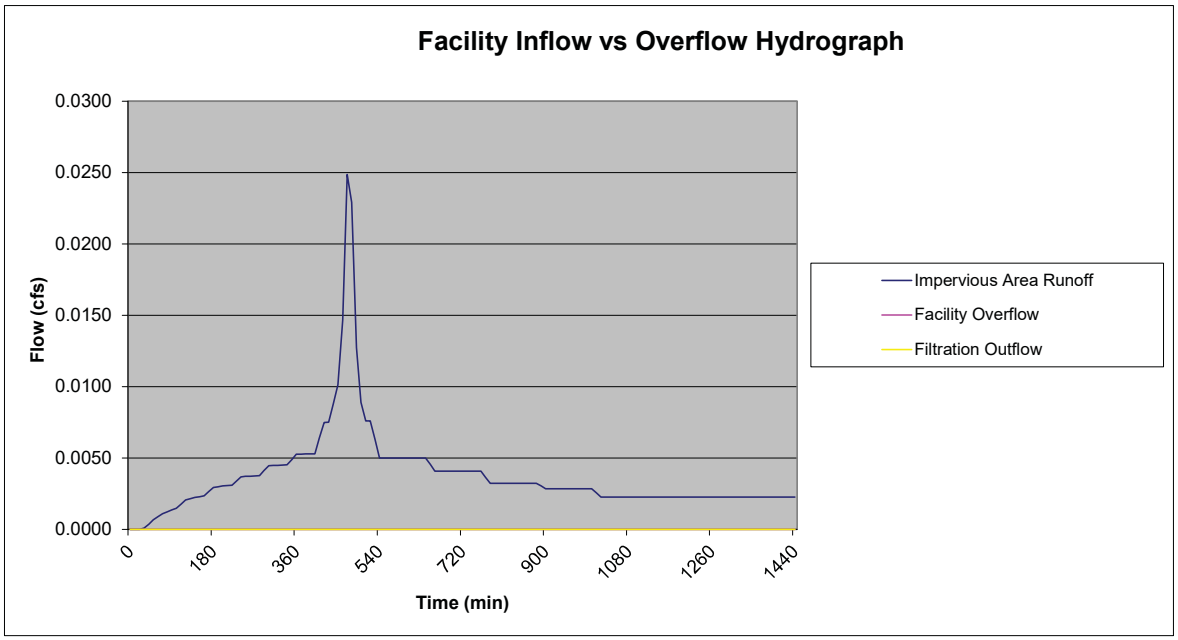


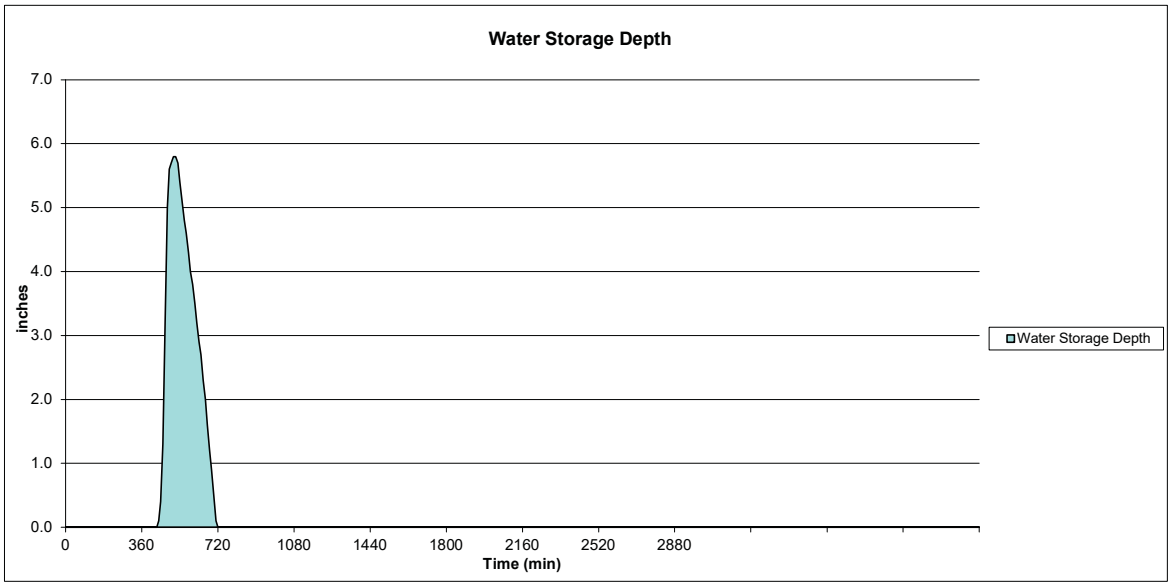




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 4I
Design Run: Destination







Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet
24 Hour Storm, NRCS Type 1A Rainfall Distribution
City of Eugene

Version 2.1

Project Information

Project Name:	Three Mile Prairie	**Date:**	12/30/2020
Project Address:	18-12-15-00-00200	**Permit Number:**	NA
	Florence, OR	**Catchment ID:**	4J
Designer:	Clint Beecroft		
Company:	EGR & Associates		

Instructions:

1. Complete this form for each drainage catchment in the project site that is to be sized per the Presumptive Approach.
2. Provide a distinctive Catchment ID for each facility coordinated with the site basin map to correlate the appropriate calculations with the facility.
3. The maximum drainage catchment to be modeled per the Presumptive Approach is 1 acre (43,560 SF)
4. For infiltration facilities in Class A or B soils where no infiltration testing has been perfromed use an infiltration rate of 0.5 in/hr. For all facilities use a maximum soil infiltration rate of 2.5 in/hr for topsoil/growing medium.

Design Requirements:

Choose "Yes" from the dropdown boxes below next to the design standards requirements for this facility.

Pollution Reduction (PR)	Yes
Flow Control (FC)	Yes
Destination (DT)	Yes

*An infiltration facility must be chosen as the facility type to meet destination requirements

Site Data-Post Development

Total Square Footage Impervious Area=	807	sqft	**Total Square Footage Pervious Area=**	0	sqft
Impervious Area CN=	98		**Pervious Area CN=**	85	
Total Square Footage of Drainage Area=	807	sft	**Time of Concentration Post Development=**	5	min
Weighted Average CN=	98				

Site Data-Pre Development (Data in this section is only used if Flow Control is required)

Pre-Development CN=	98		**Time of Concentration Pre-Development=**	5	min

Soil Data

Tested Soil Infiltration Rate=	10	in/hr (See Note 4)	**Destination Design=**	5	in/hr
Design Soil Infiltration Rate=	4	in/hr	**Soil Infiltration Rate**		

Design Storms Used For Calculations

Requirement	Rainfall Depth		Design Storm
Pollution Reduction	0.8	inches	Water Quality
Flow Control	5.1	inches	Flood Control
Destination	5.1	inches	Flood Control

Facility Data

Facility Type=	Infiltration Stormwater Planter		**Facility Surface Area=**	63	sqft
Surface Width=	6.3	ft	**Facility Surface Perimeter=**	32.6	ft
Surface Length=	10	ft	**Facility Bottom Area=**	63	sqft
Facility Side Slopes=	0	to 1	**Facility Bottom Perimeter=**	33	ft
Max. Ponding Depth in Stormwater Facility=	6	in	**Basin Volume=**	31.5	cf
Depth of Growing Medium (Soil)=	18	in	**Ratio of Facility Area to Impervious Area=**	0.078	

Pollution Reduction-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.003	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	42	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	0.0	in			
Drawdown Time=	0.2	hours			

Yes **Facility Sizing Meets Pollution Reduction Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

Flow Control-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.025	cfs	Peak Facility Overflow Rate=	0.007	cfs
Total Runoff Volume to Stormwater Facility =	324	cf	Total Overflow Volume=	10	cf
Max. Depth of Stormwater in Facility=	6.0	in	Peak Off-Site Flow Rate Filtration Facility Underdrain=	N\A	cfs
Drawdown Time=	0.2	hours			

Pre-Development Runoff Data

Peak Flow Rate =	0.025	cfs
Total Runoff Volume =	324	cf

Yes **Facility Sizing Meets Flow Control Standards?**

YES **Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

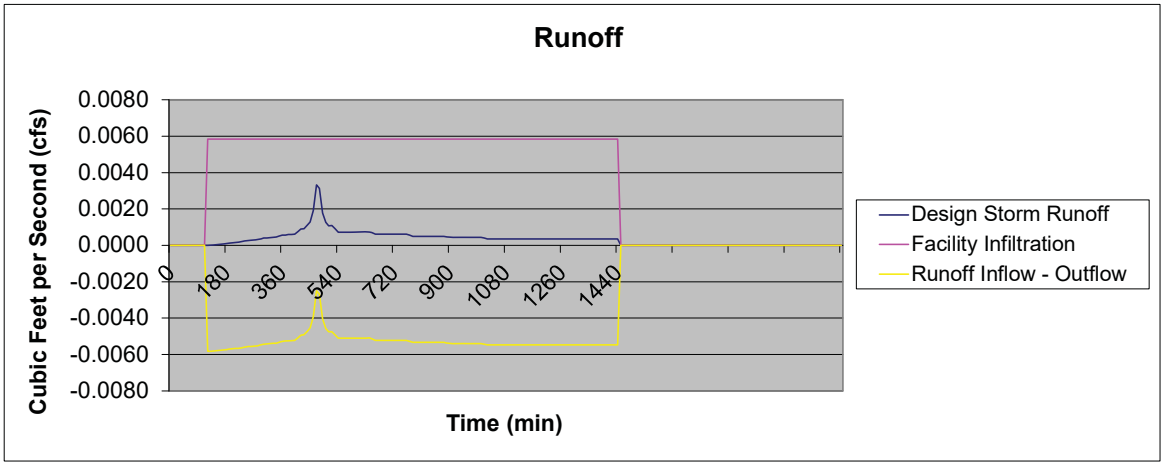
Destination-Calculation Results

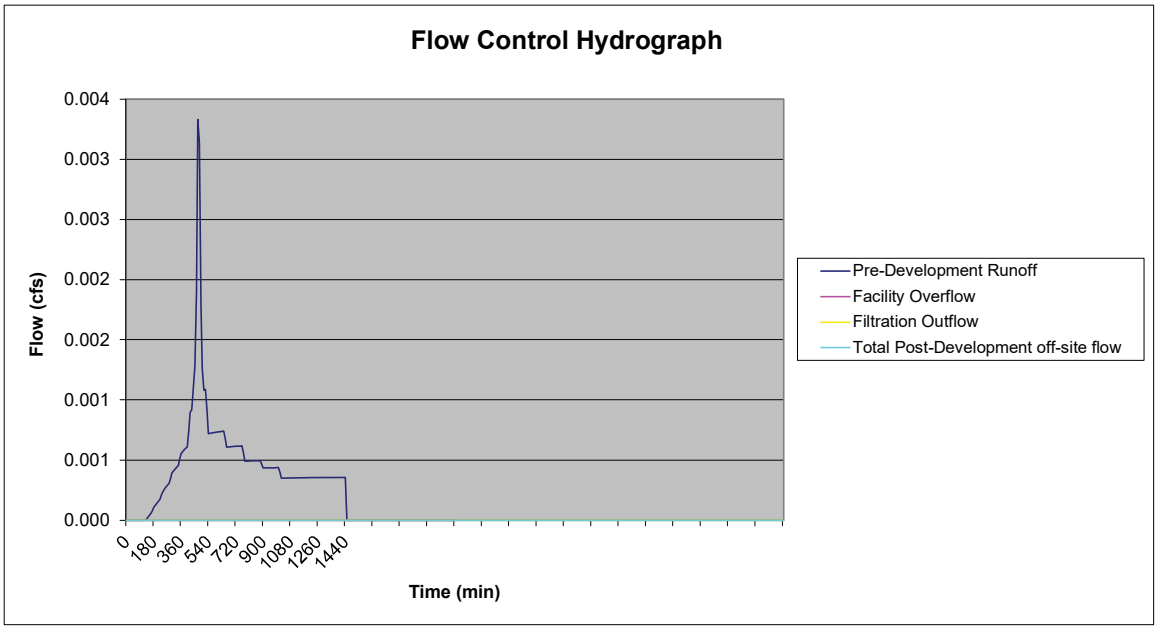
Peak Flow Rate to Stormwater Facility =	0.025	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	324	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	5.9	in			
Drawdown Time=	0.2	hours			

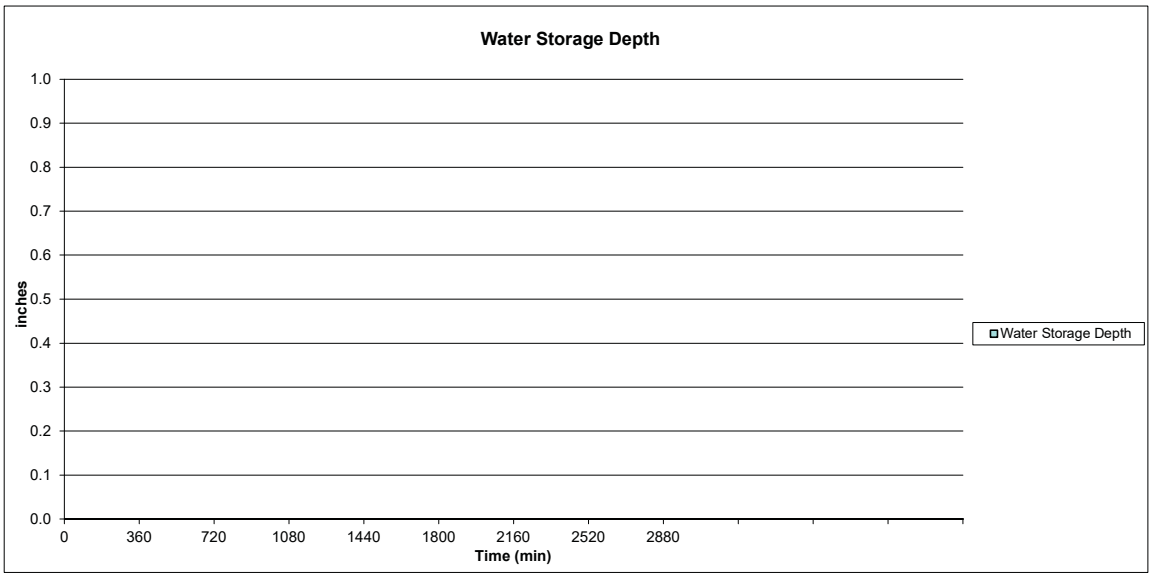
Yes **Facility Sizing Meets Destination Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 30 hour Drawdown Time?**

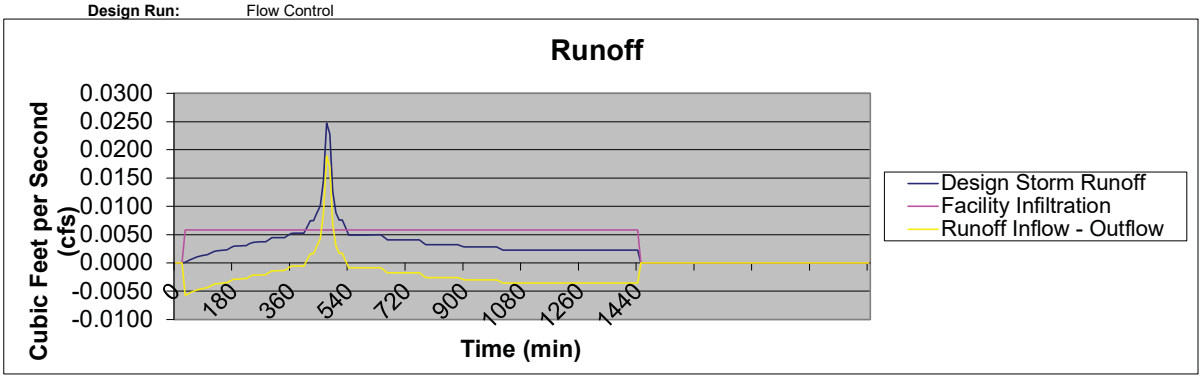
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 4J
Design Run: Pollution Reduction

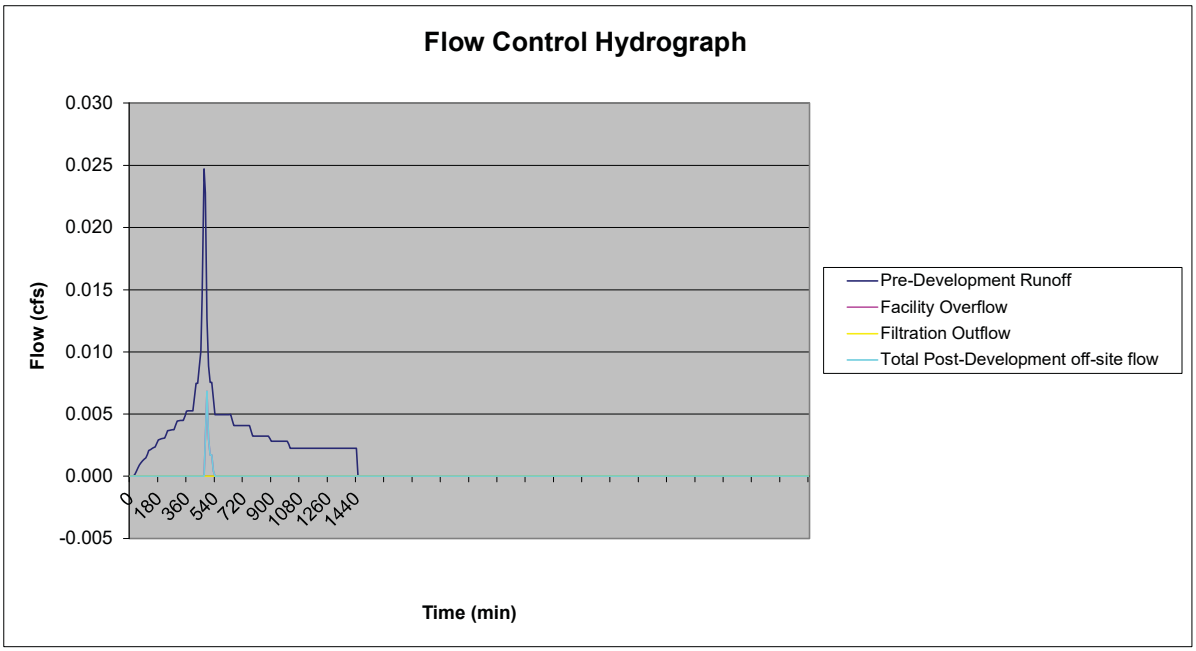


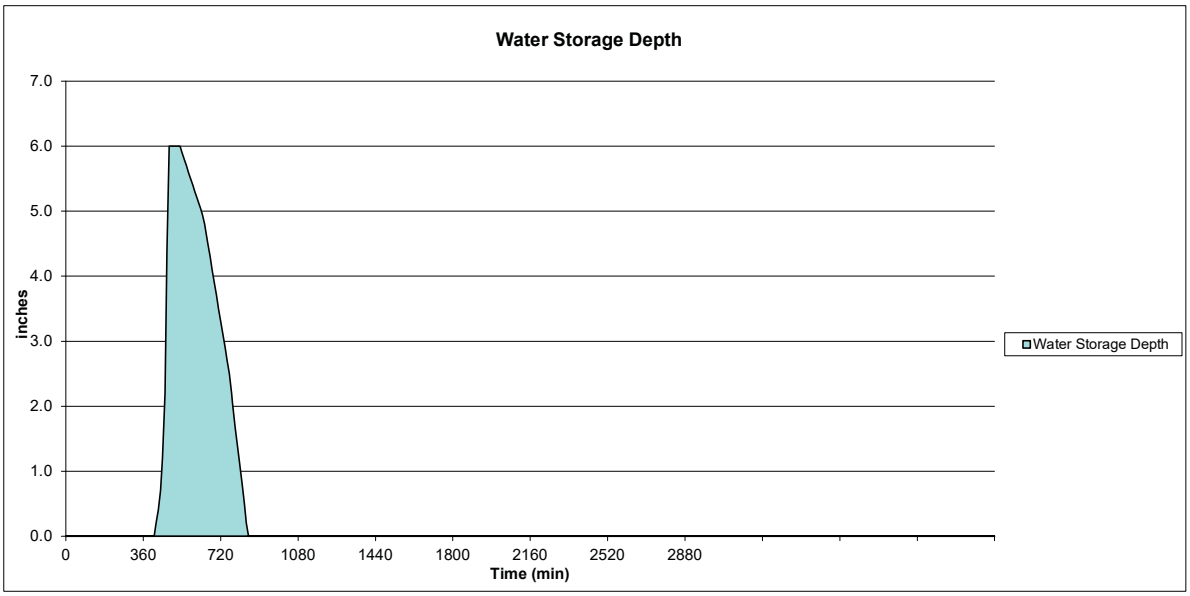




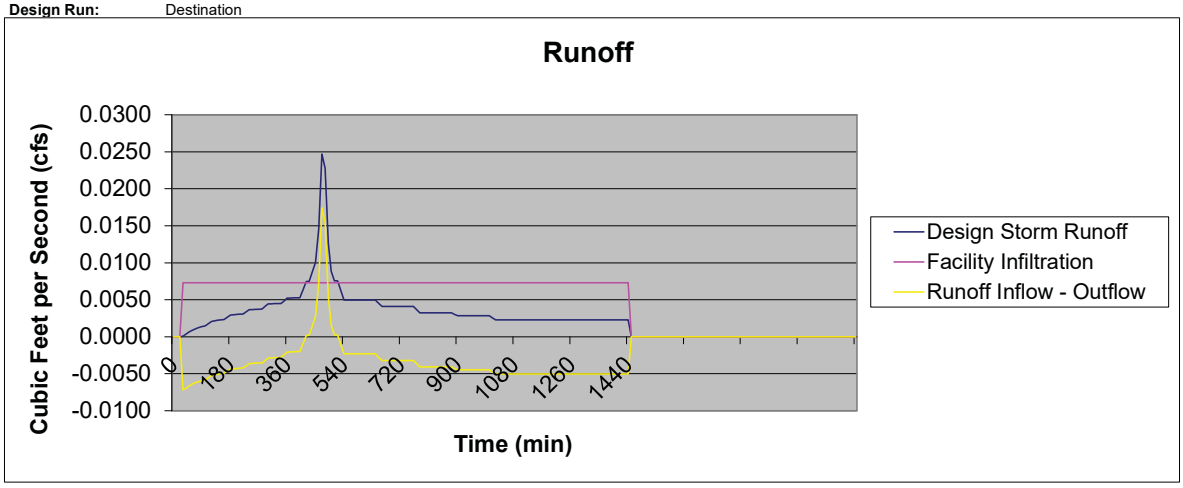
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 4J
Design Run: Flow Control

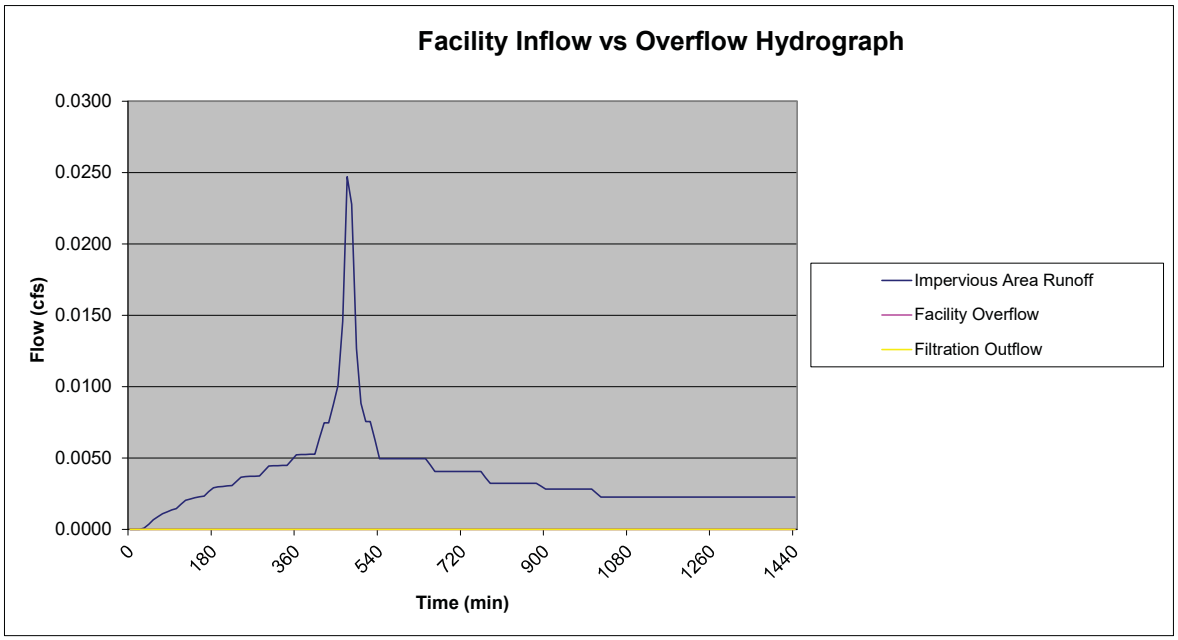


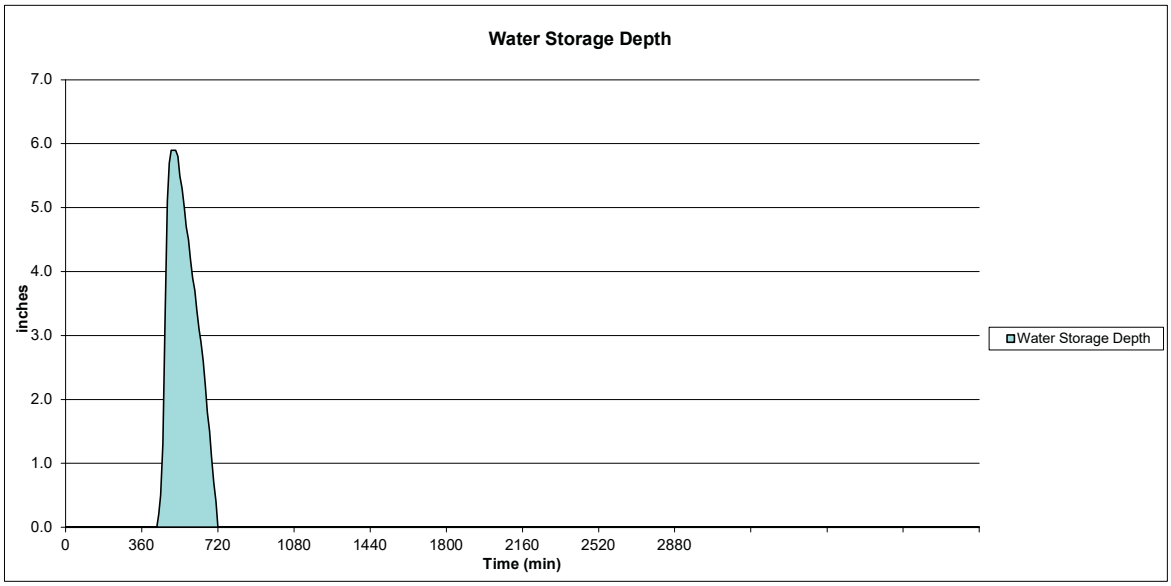




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 4J
Design Run: Destination







Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet
24 Hour Storm, NRCS Type 1A Rainfall Distribution
City of Eugene

Version 2.1

Project Information

Project Name:	Three Mile Prairie	**Date:**	12/30/2020
Project Address:	18-12-15-00-00200	**Permit Number:**	NA
	Florence, OR	**Catchment ID:**	4K
Designer:	Clint Beecroft		
Company:	EGR & Associates		

Instructions:

1. Complete this form for each drainage catchment in the project site that is to be sized per the Presumptive Approach.
2. Provide a distinctive Catchment ID for each facility coordinated with the site basin map to correlate the appropriate calculations with the facility.
3. The maximum drainage catchment to be modeled per the Presumptive Approach is 1 acre (43,560 SF)
4. For infiltration facilities in Class A or B soils where no infiltration testing has been perfromed use an infiltration rate of 0.5 in/hr. For all facilities use a maximum soil infiltration rate of 2.5 in/hr for topsoil/growing medium.

Design Requirements:

Choose "Yes" from the dropdown boxes below next to the design standards requirements for this facility.

Pollution Reduction (PR)	Yes
Flow Control (FC)	Yes
Destination (DT)	Yes

*An infiltration facility must be chosen as the facility type to meet destination requirements

Site Data-Post Development

Total Square Footage Impervious Area=	1698	sqft	**Total Square Footage Pervious Area=**	0	sqft
Impervious Area CN=	98		**Pervious Area CN=**	85	
Total Square Footage of Drainage Area=	1698	sft	**Time of Concentration Post Development=**	5	min
Weighted Average CN=	98				

Site Data-Pre Development (Data in this section is only used if Flow Control is required)

Pre-Development CN=	98		**Time of Concentration Pre-Development=**	5	min

Soil Data

Tested Soil Infiltration Rate=	10	in/hr (See Note 4)	**Destination Design=**	5	in/hr
Design Soil Infiltration Rate=	4	in/hr	**Soil Infiltration Rate**		

Design Storms Used For Calculations

Requirement	Rainfall Depth		Design Storm
Pollution Reduction	0.8	inches	Water Quality
Flow Control	5.1	inches	Flood Control
Destination	5.1	inches	Flood Control

Facility Data

Facility Type=	Infiltration Stormwater Planter		**Facility Surface Area=**	117	sqft
Surface Width=	11.7	ft	**Facility Surface Perimeter=**	43.4	ft
Surface Length=	10	ft	**Facility Bottom Area=**	117	sqft
Facility Side Slopes=	0	to 1	**Facility Bottom Perimeter=**	43	ft
Max. Ponding Depth in Stormwater Facility=	8	in	**Basin Volume=**	78.0	cf
Depth of Growing Medium (Soil)=	18	in	**Ratio of Facility Area to Impervious Area=**	0.069	

Pollution Reduction-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.007	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	89	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	0.0	in			
Drawdown Time=	0.2	hours			

Yes **Facility Sizing Meets Pollution Reduction Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

Flow Control-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.052	cfs	Peak Facility Overflow Rate=	0.015	cfs
Total Runoff Volume to Stormwater Facility =	681	cf	Total Overflow Volume=	21	cf
Max. Depth of Stormwater in Facility=	8.0	in	Peak Off-Site Flow Rate Filtration Facility Underdrain=	N\A	cfs
Drawdown Time=	0.2	hours			

Pre-Development Runoff Data

Peak Flow Rate =	0.052	cfs
Total Runoff Volume =	682	cf

Yes **Facility Sizing Meets Flow Control Standards?**

YES **Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

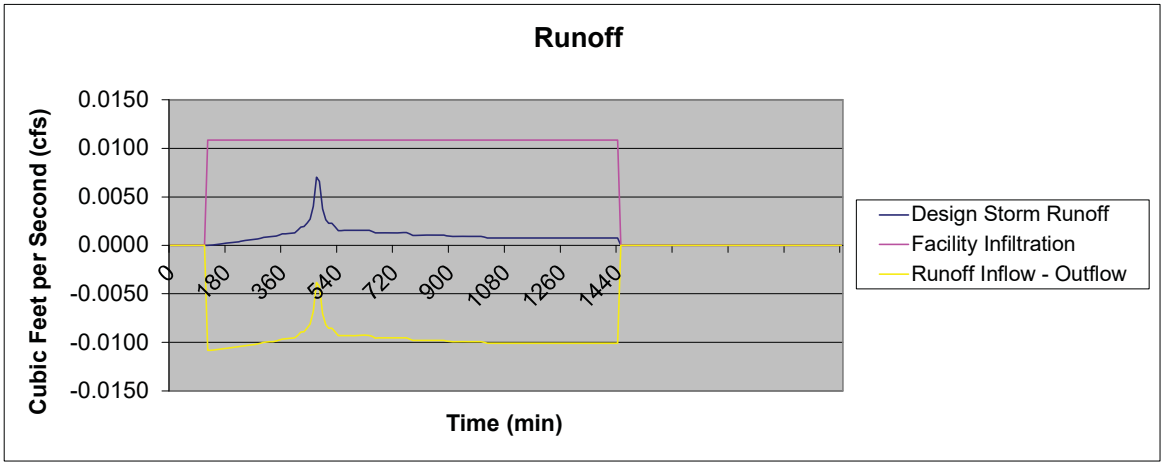
Destination-Calculation Results

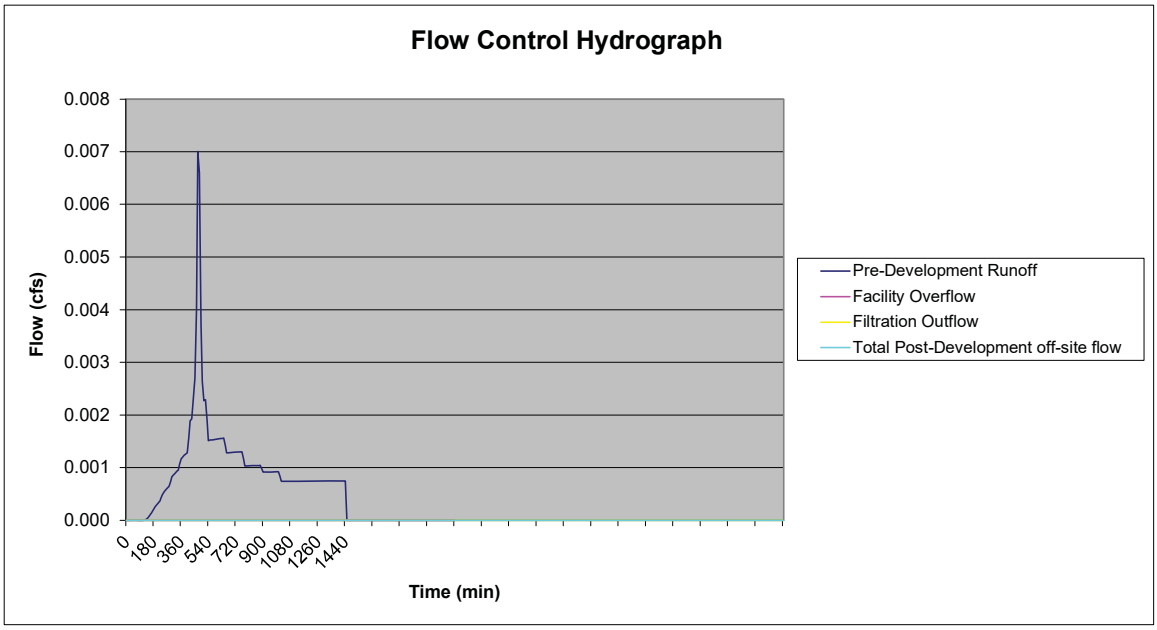
Peak Flow Rate to Stormwater Facility =	0.052	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	681	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	7.9	in			
Drawdown Time=	0.2	hours			

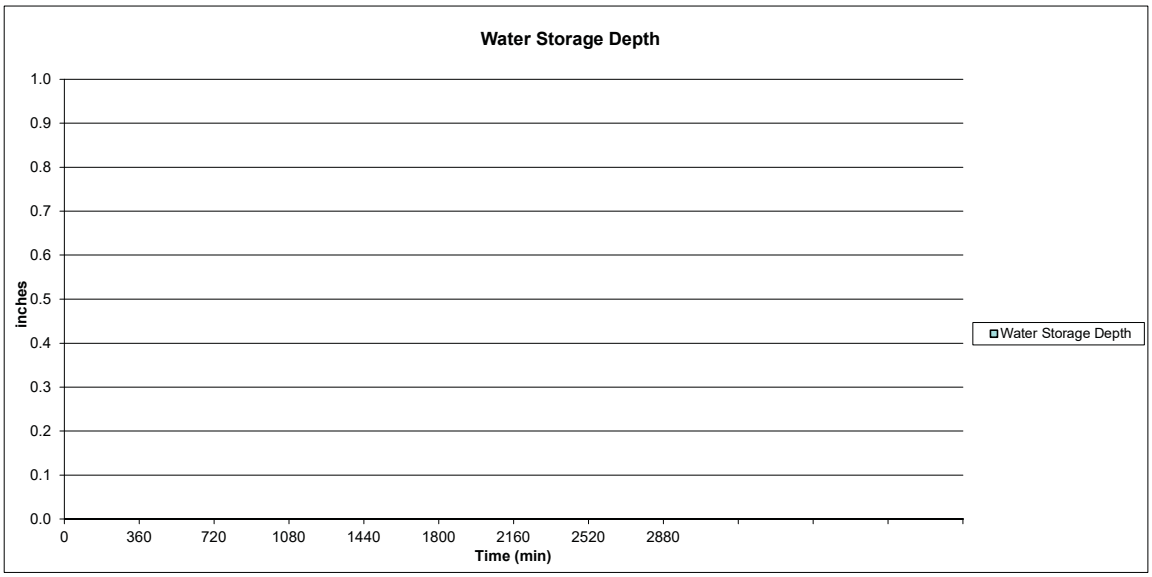
Yes **Facility Sizing Meets Destination Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 30 hour Drawdown Time?**

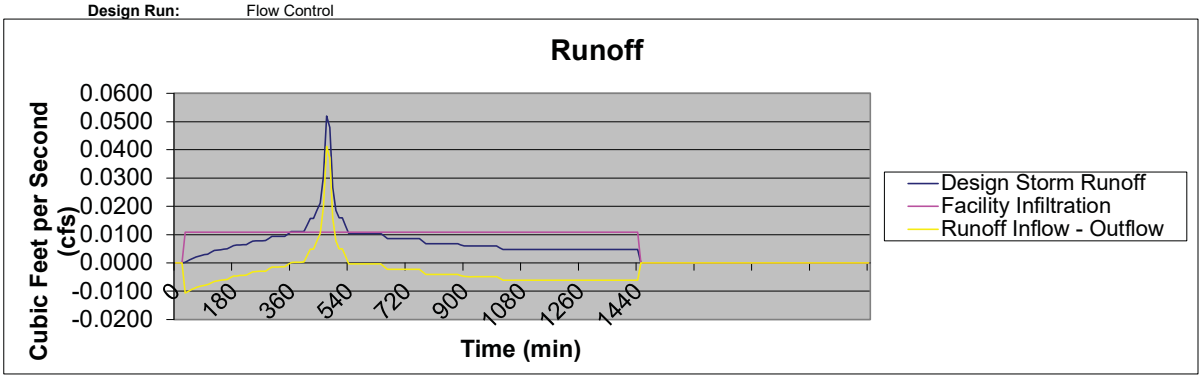
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 4K
Design Run: Pollution Reduction

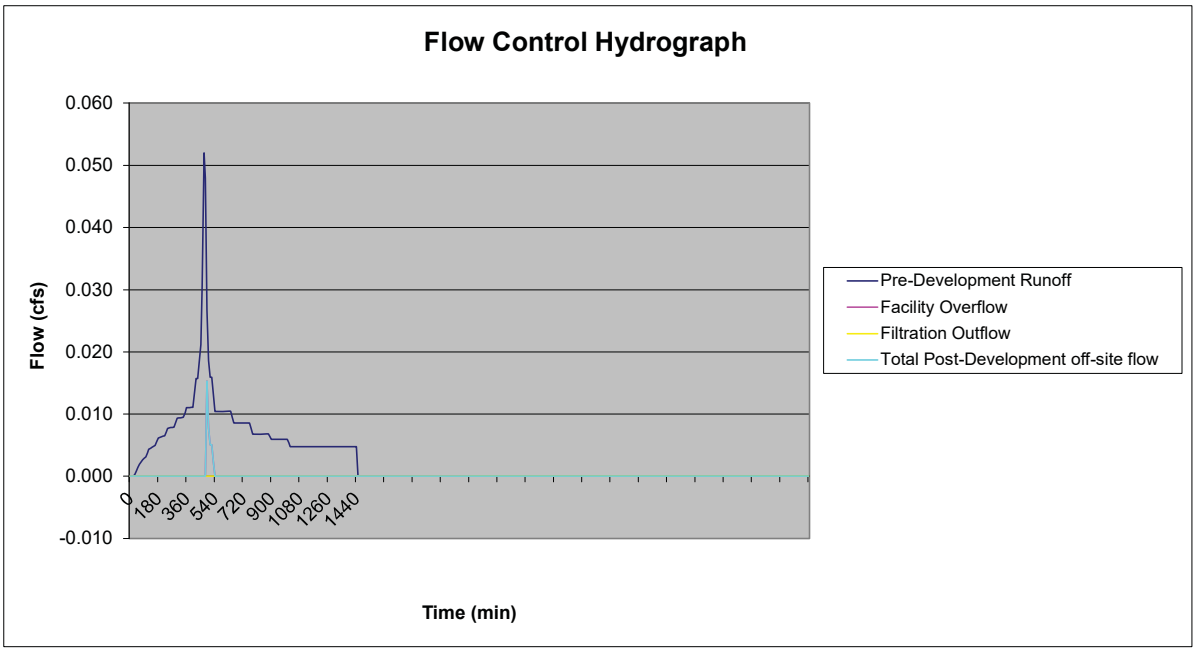


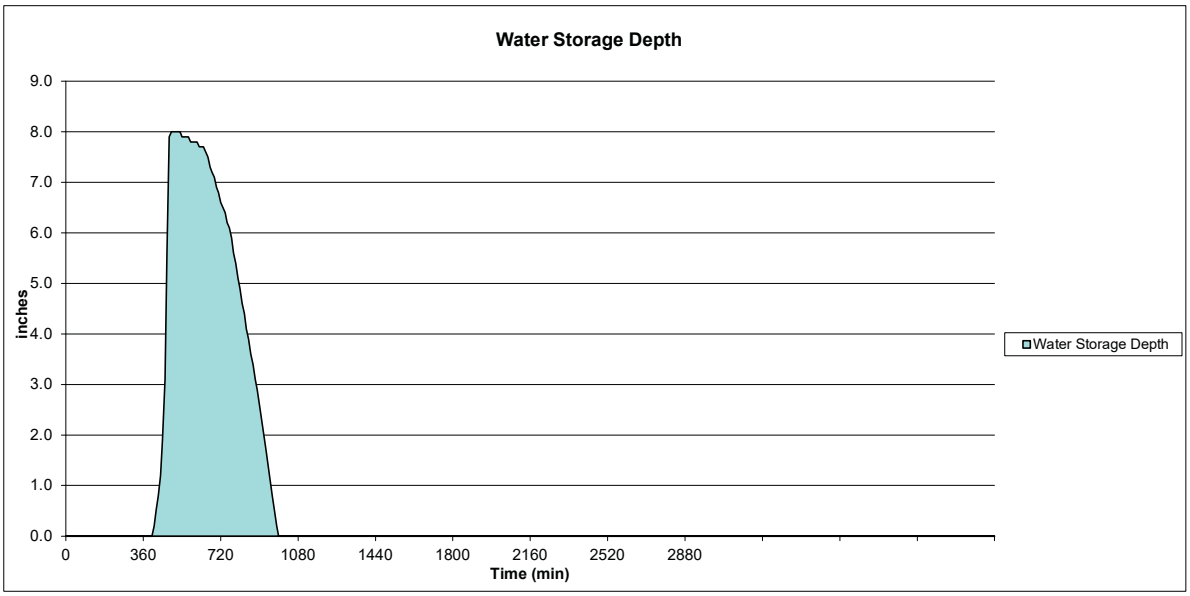




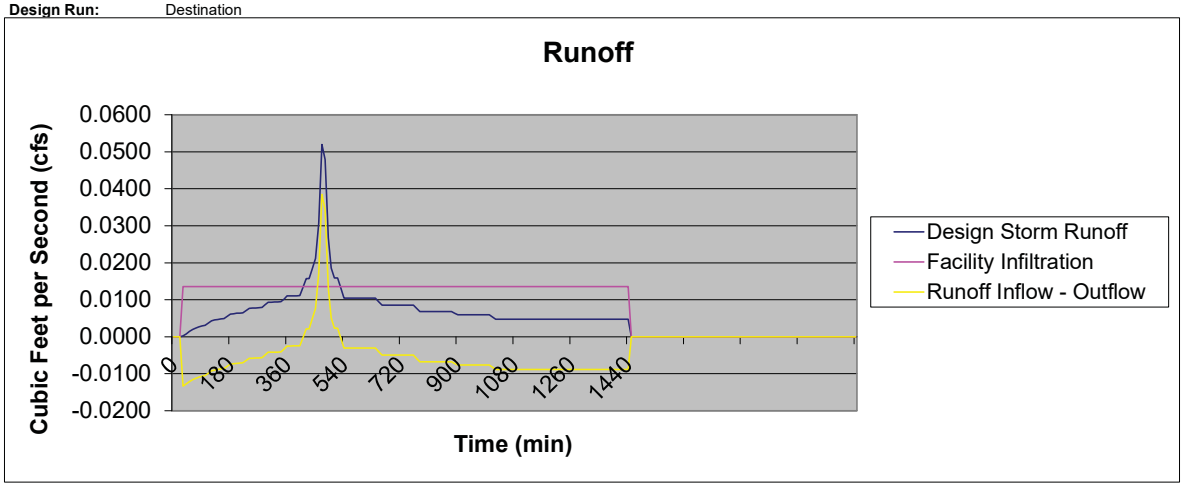
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 4K
Design Run: Flow Control

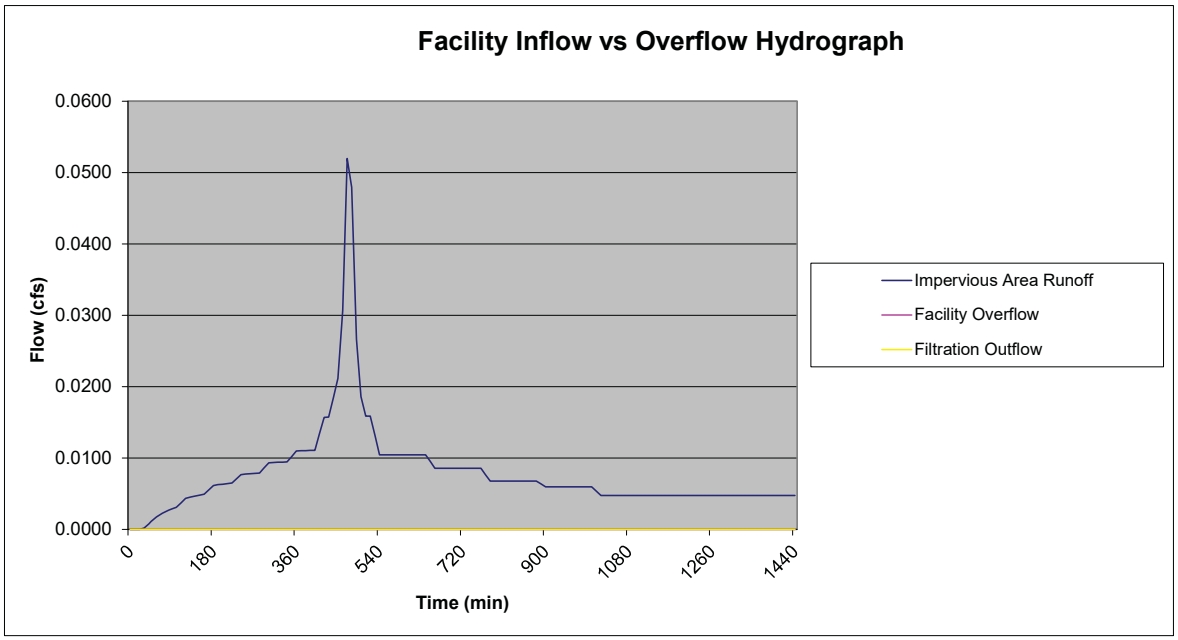


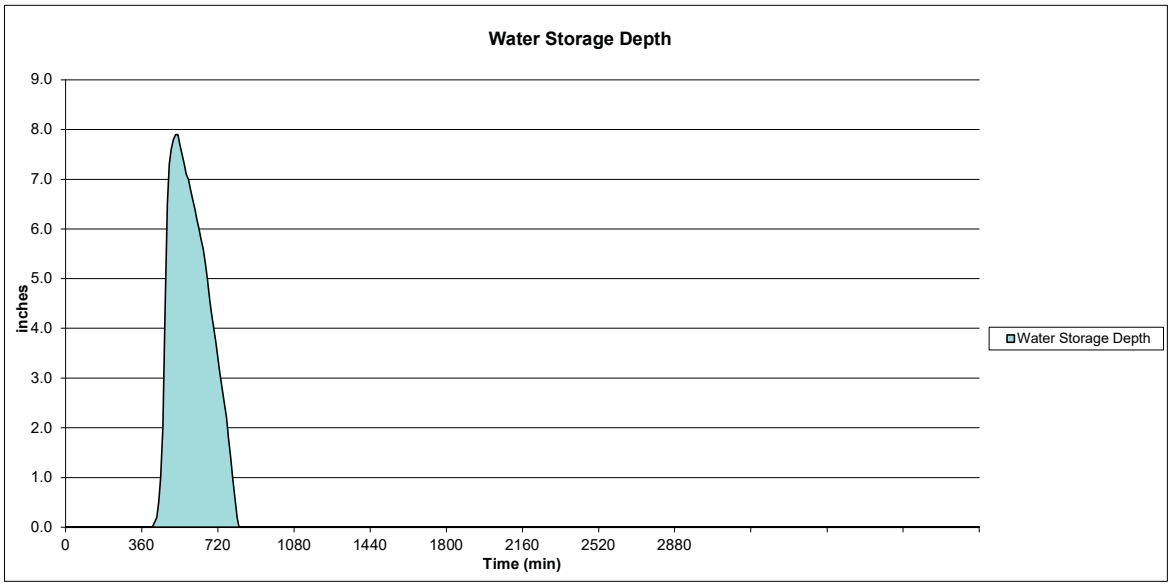




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 4K
Design Run: Destination







Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet
24 Hour Storm, NRCS Type 1A Rainfall Distribution
City of Eugene

Version 2.1

Project Information

Project Name:	Three Mile Prairie	**Date:**	12/30/2020
Project Address:	18-12-15-00-00200	**Permit Number:**	NA
	Florence, OR	**Catchment ID:**	4L
Designer:	Clint Beecroft		
Company:	EGR & Associates		

Instructions:

1. Complete this form for each drainage catchment in the project site that is to be sized per the Presumptive Approach.
2. Provide a distinctive Catchment ID for each facility coordinated with the site basin map to correlate the appropriate calculations with the facility.
3. The maximum drainage catchment to be modeled per the Presumptive Approach is 1 acre (43,560 SF)
4. For infiltration facilities in Class A or B soils where no infiltration testing has been perfromed use an infiltration rate of 0.5 in/hr. For all facilities use a maximum soil infiltration rate of 2.5 in/hr for topsoil/growing medium.

Design Requirements:

Choose "Yes" from the dropdown boxes below next to the design standards requirements for this facility.

Pollution Reduction (PR)	Yes
Flow Control (FC)	Yes
Destination (DT)	Yes

*An infiltration facility must be chosen as the facility type to meet destination requirements

Site Data-Post Development

Total Square Footage Impervious Area=	1695	sqft	**Total Square Footage Pervious Area=**	0	sqft
Impervious Area CN=	98		**Pervious Area CN=**	85	
Total Square Footage of Drainage Area=	1695	sft	**Time of Concentration Post Development=**	5	min
Weighted Average CN=	98				

Site Data-Pre Development (Data in this section is only used if Flow Control is required)

Pre-Development CN=	98		**Time of Concentration Pre-Development=**	5	min

Soil Data

Tested Soil Infiltration Rate=	10	in/hr (See Note 4)	**Destination Design=**	5	in/hr
Design Soil Infiltration Rate=	4	in/hr	**Soil Infiltration Rate**		

Design Storms Used For Calculations

Requirement	Rainfall Depth		Design Storm
Pollution Reduction	0.8	inches	Water Quality
Flow Control	5.1	inches	Flood Control
Destination	5.1	inches	Flood Control

Facility Data

Facility Type=	Infiltration Stormwater Planter		**Facility Surface Area=**	117	sqft
Surface Width=	11.7	ft	**Facility Surface Perimeter=**	43.4	ft
Surface Length=	10	ft	**Facility Bottom Area=**	117	sqft
Facility Side Slopes=	0	to 1	**Facility Bottom Perimeter=**	43	ft
Max. Ponding Depth in Stormwater Facility=	8	in	**Basin Volume=**	78.0	cf
Depth of Growing Medium (Soil)=	18	in	**Ratio of Facility Area to Impervious Area=**	0.069	

Pollution Reduction-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.007	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	88	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	0.0	in			
Drawdown Time=	0.2	hours			

Yes **Facility Sizing Meets Pollution Reduction Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

Flow Control-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.052	cfs	Peak Facility Overflow Rate=	0.015	cfs
Total Runoff Volume to Stormwater Facility =	680	cf	Total Overflow Volume=	21	cf
Max. Depth of Stormwater in Facility=	8.0	in	Peak Off-Site Flow Rate Filtration Facility Underdrain=	N\A	cfs
Drawdown Time=	0.2	hours			

Pre-Development Runoff Data

Peak Flow Rate =	0.052	cfs
Total Runoff Volume =	681	cf

Yes **Facility Sizing Meets Flow Control Standards?**

YES **Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

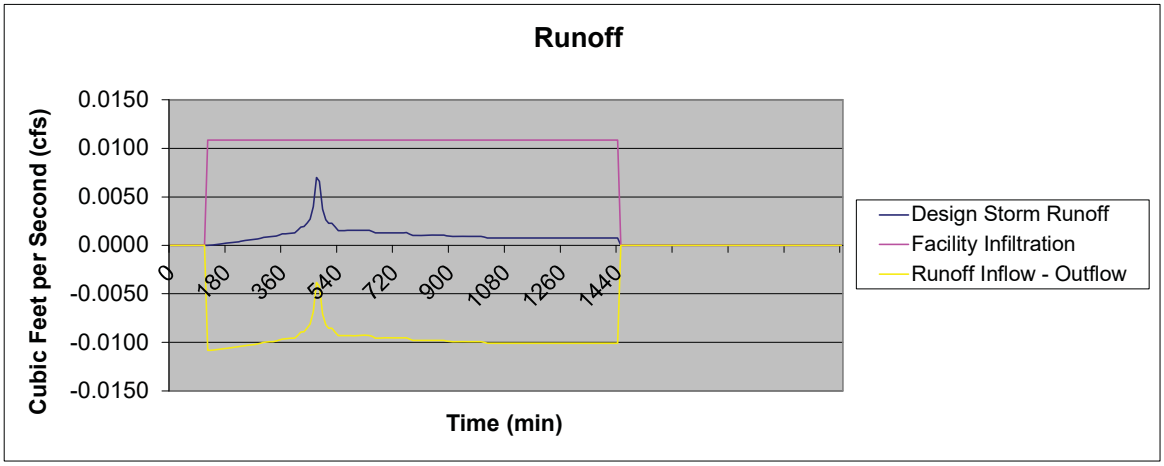
Destination-Calculation Results

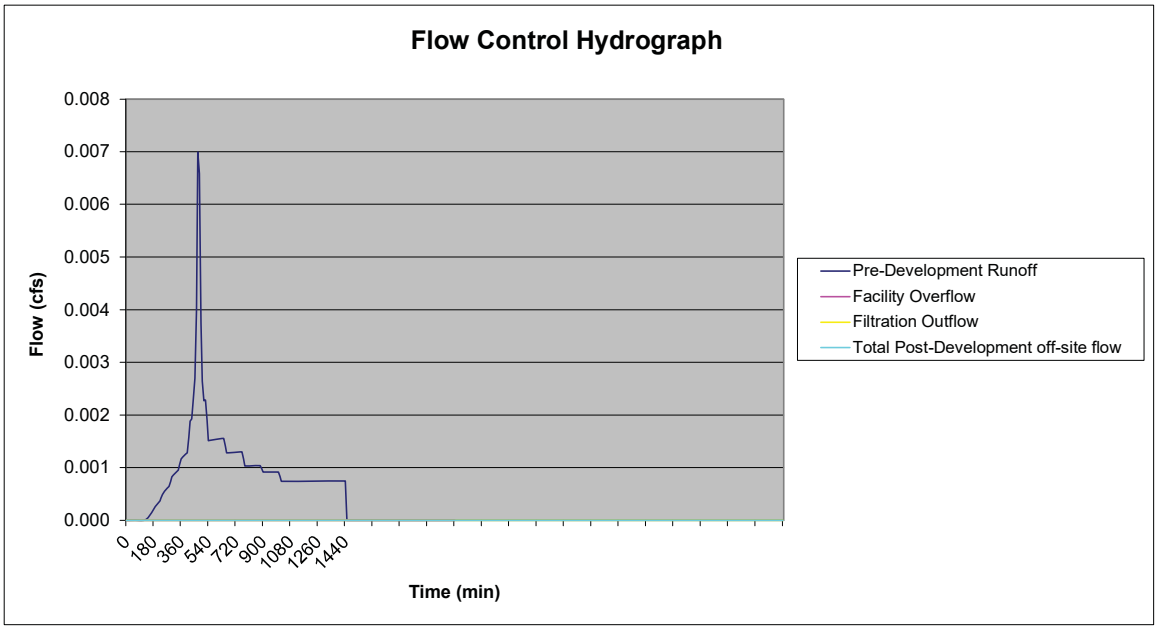
Peak Flow Rate to Stormwater Facility =	0.052	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	680	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	7.9	in			
Drawdown Time=	0.2	hours			

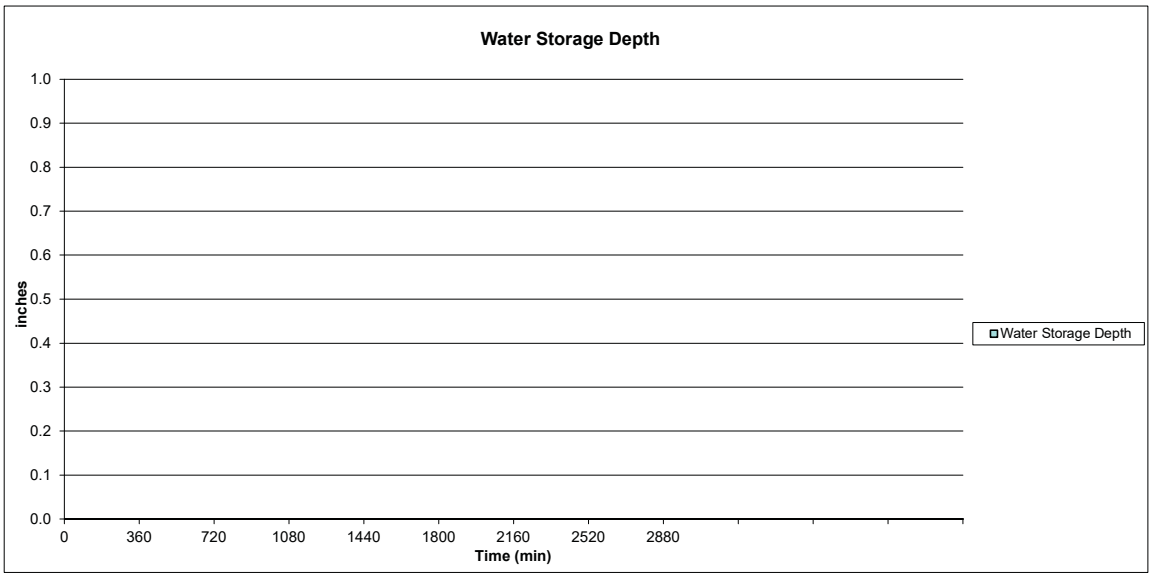
Yes **Facility Sizing Meets Destination Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 30 hour Drawdown Time?**

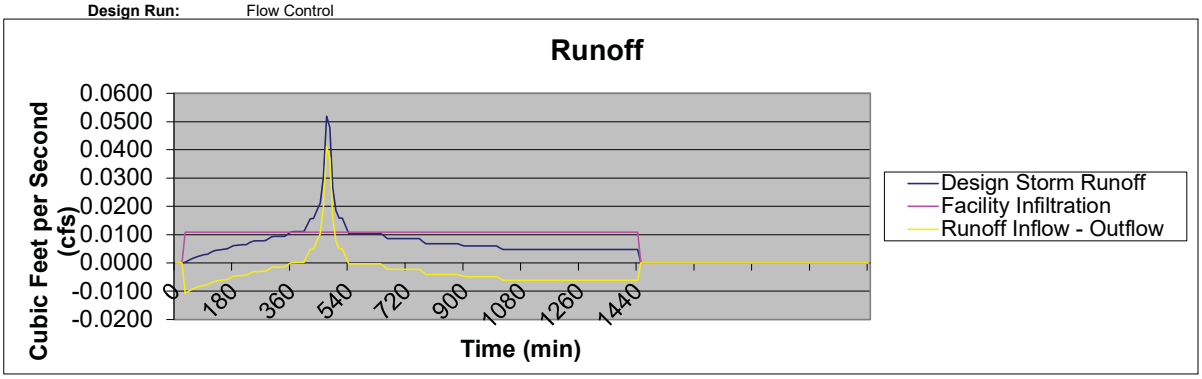
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 4L
Design Run: Pollution Reduction

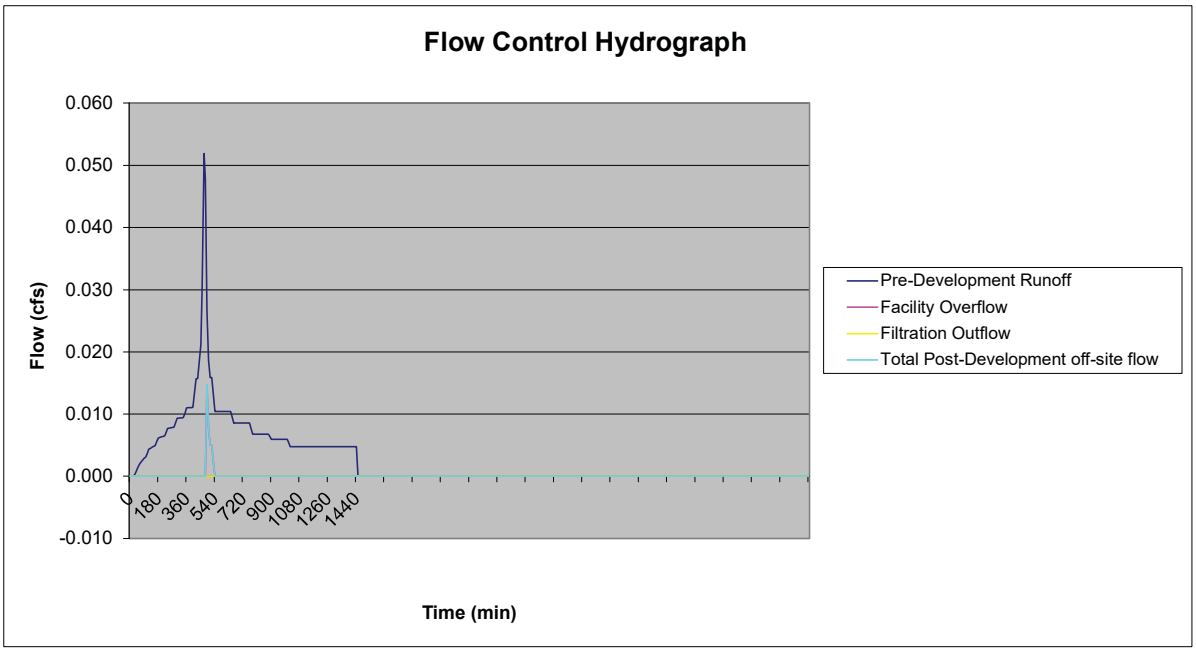


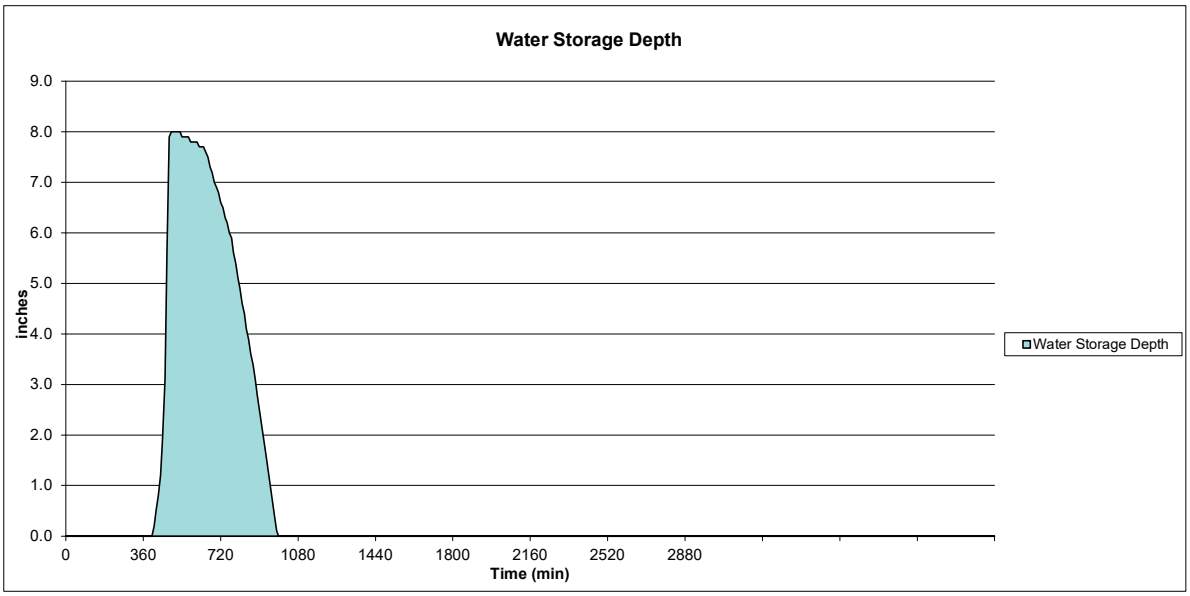




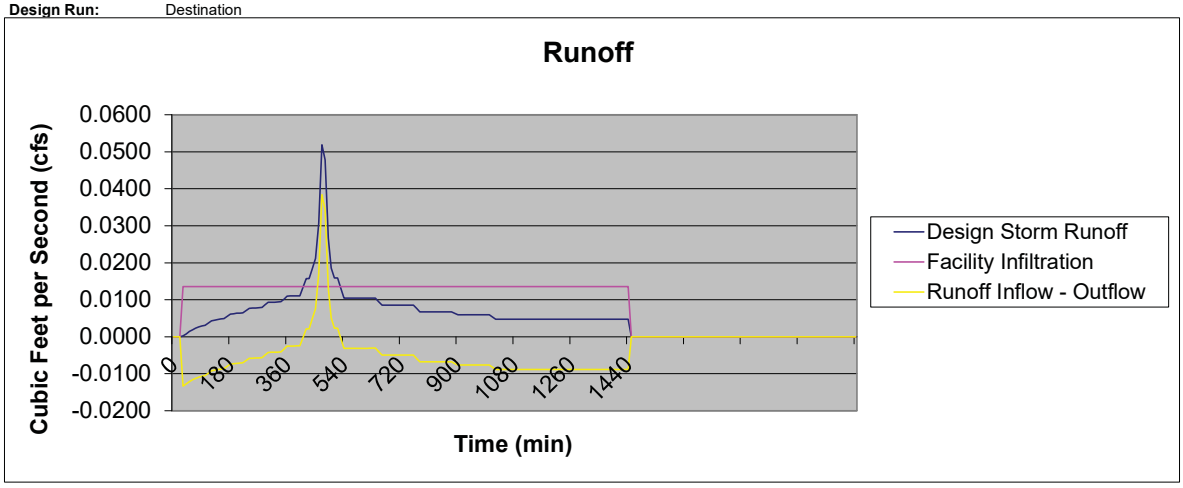
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 4L
Design Run: Flow Control

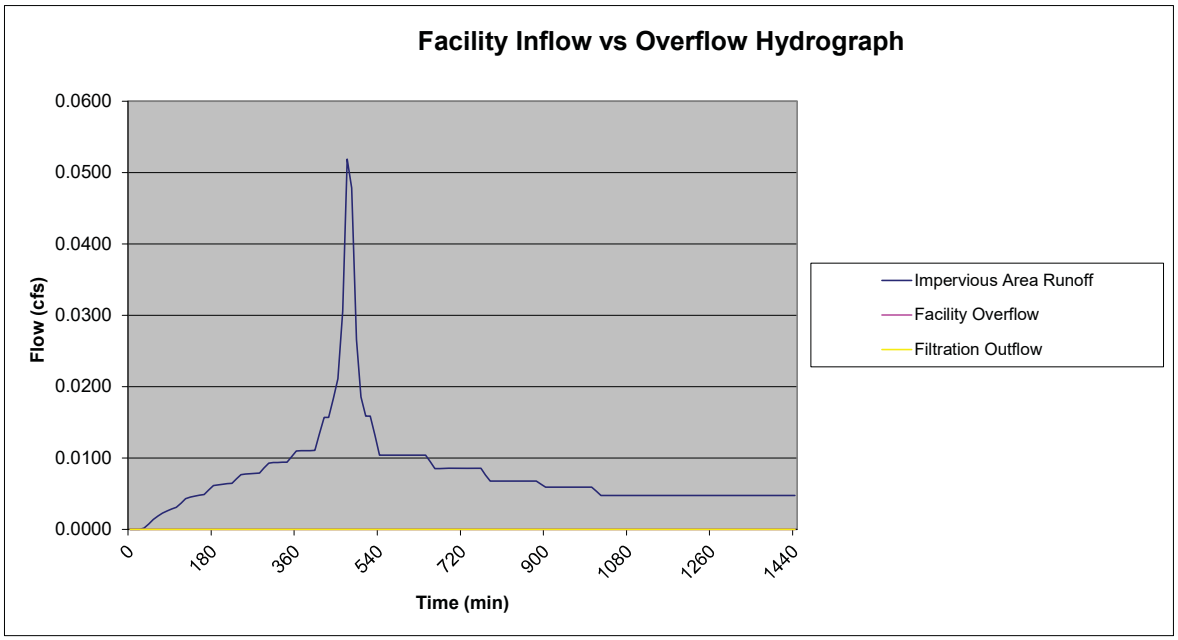


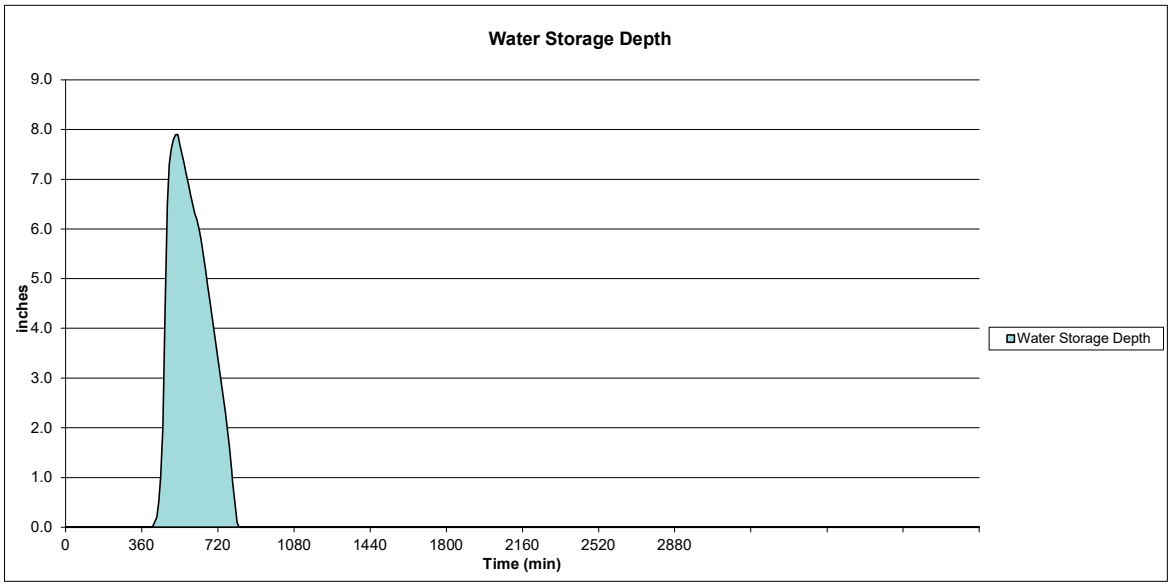




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 4L
Design Run: Destination







Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet
24 Hour Storm, NRCS Type 1A Rainfall Distribution
City of Eugene

Version 2.1

Project Information

Project Name:	Three Mile Prairie	**Date:**	12/30/2020
Project Address:	18-12-15-00-00200	**Permit Number:**	NA
	Florence, OR	**Catchment ID:**	4M
Designer:	Clint Beecroft		
Company:	EGR & Associates		

Instructions:

1. Complete this form for each drainage catchment in the project site that is to be sized per the Presumptive Approach.
2. Provide a distinctive Catchment ID for each facility coordinated with the site basin map to correlate the appropriate calculations with the facility.
3. The maximum drainage catchment to be modeled per the Presumptive Approach is 1 acre (43,560 SF)
4. For infiltration facilities in Class A or B soils where no infiltration testing has been perfromed use an infiltration rate of 0.5 in/hr. For all facilities use a maximum soil infiltration rate of 2.5 in/hr for topsoil/growing medium.

Design Requirements:

Choose "Yes" from the dropdown boxes below next to the design standards requirements for this facility.

Pollution Reduction (PR)	Yes
Flow Control (FC)	Yes
Destination (DT)	Yes

*An infiltration facility must be chosen as the facility type to meet destination requirements

Site Data-Post Development

Total Square Footage Impervious Area=	570	sqft	**Total Square Footage Pervious Area=**	0	sqft
Impervious Area CN=	98		**Pervious Area CN=**	85	
Total Square Footage of Drainage Area=	570	sft	**Time of Concentration Post Development=**	5	min
Weighted Average CN=	98				

Site Data-Pre Development (Data in this section is only used if Flow Control is required)

Pre-Development CN=	98		**Time of Concentration Pre-Development=**	5	min

Soil Data

Tested Soil Infiltration Rate=	10	in/hr (See Note 4)	**Destination Design=**	5	in/hr
Design Soil Infiltration Rate=	4	in/hr	**Soil Infiltration Rate**		

Design Storms Used For Calculations

Requirement	Rainfall Depth		Design Storm
Pollution Reduction	0.8	inches	Water Quality
Flow Control	5.1	inches	Flood Control
Destination	5.1	inches	Flood Control

Facility Data

Facility Type=	Infiltration Stormwater Planter		**Facility Surface Area=**	107.8	sqft
Surface Width=	7.7	ft	**Facility Surface Perimeter=**	43.4	ft
Surface Length=	14	ft	**Facility Bottom Area=**	52	sqft
Facility Side Slopes=	3	to 1	**Facility Bottom Perimeter=**	31	ft
Max. Ponding Depth in Stormwater Facility=	6	in	**Basin Volume=**	42.1	cf
Depth of Growing Medium (Soil)=	18	in	**Ratio of Facility Area to Impervious Area=**	0.189	

Pollution Reduction-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.002	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	30	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	0.0	in			
Drawdown Time=	0.2	hours			

Yes **Facility Sizing Meets Pollution Reduction Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

Flow Control-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.017	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	229	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	3.1	in	Peak Off-Site Flow Rate Filtration Facility Underdrain=	N\A	cfs
Drawdown Time=	0.2	hours			

Pre-Development Runoff Data

Peak Flow Rate =	0.017	cfs
Total Runoff Volume =	229	cf

Yes **Facility Sizing Meets Flow Control Standards?**

YES **Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

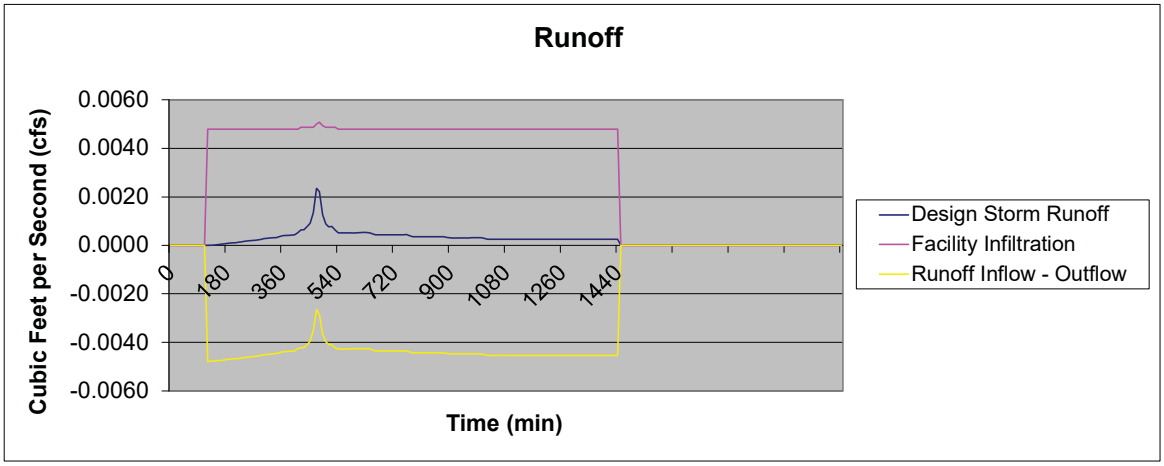
Destination-Calculation Results

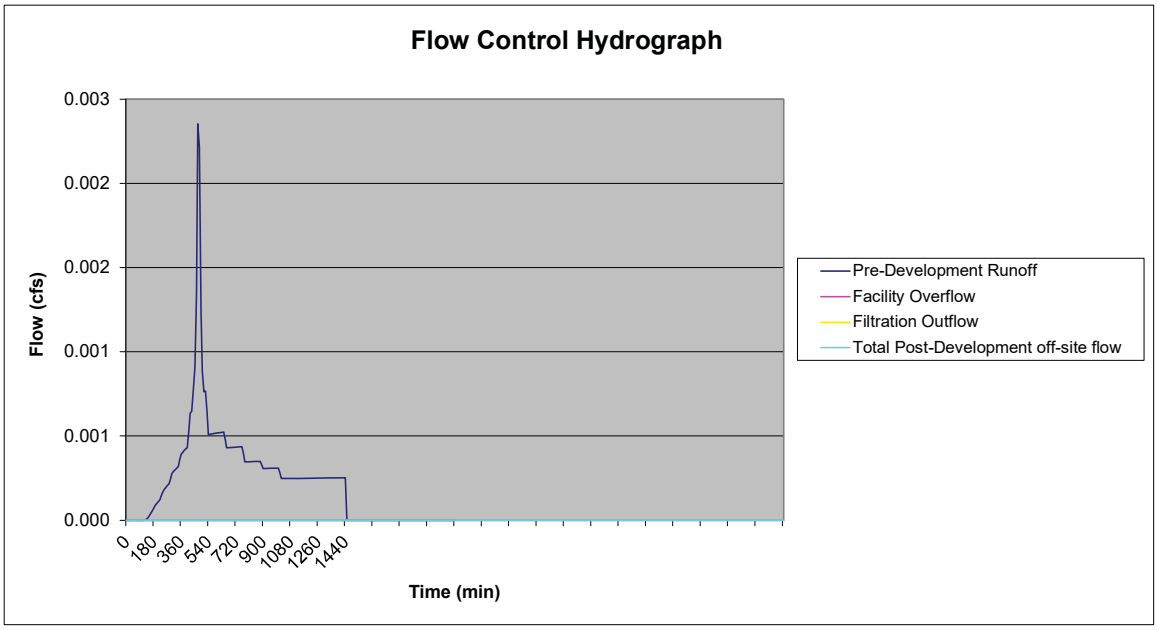
Peak Flow Rate to Stormwater Facility =	0.017	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	229	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	2.4	in			
Drawdown Time=	0.2	hours			

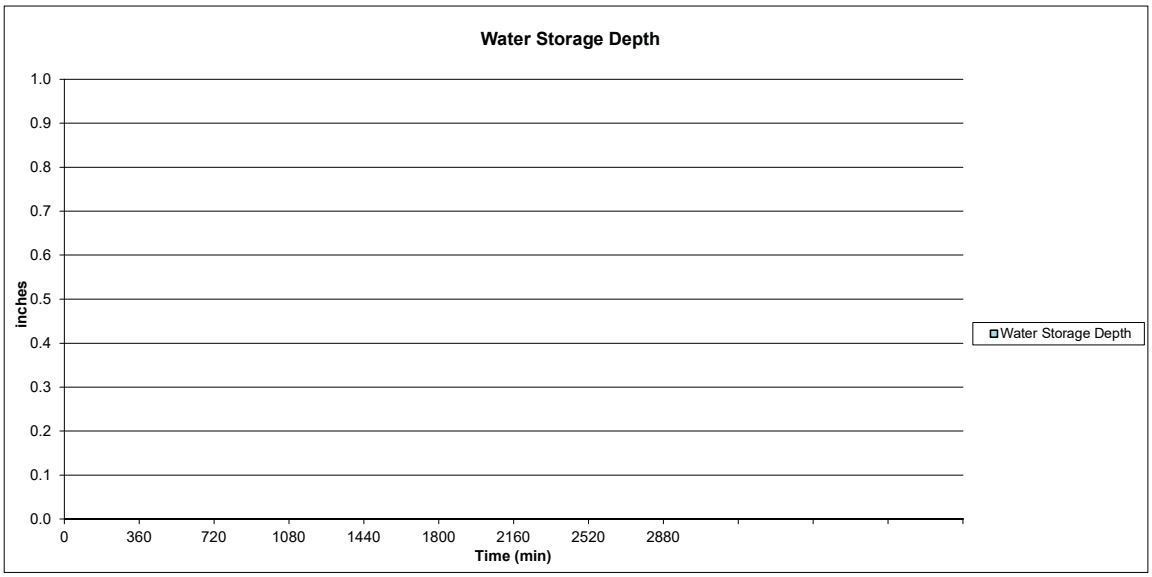
Yes **Facility Sizing Meets Destination Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 30 hour Drawdown Time?**

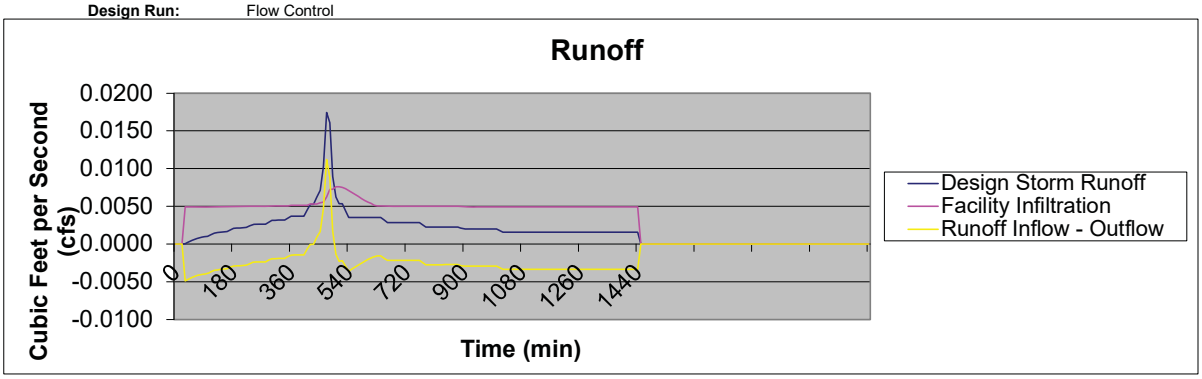
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 4M
Design Run: Pollution Reduction

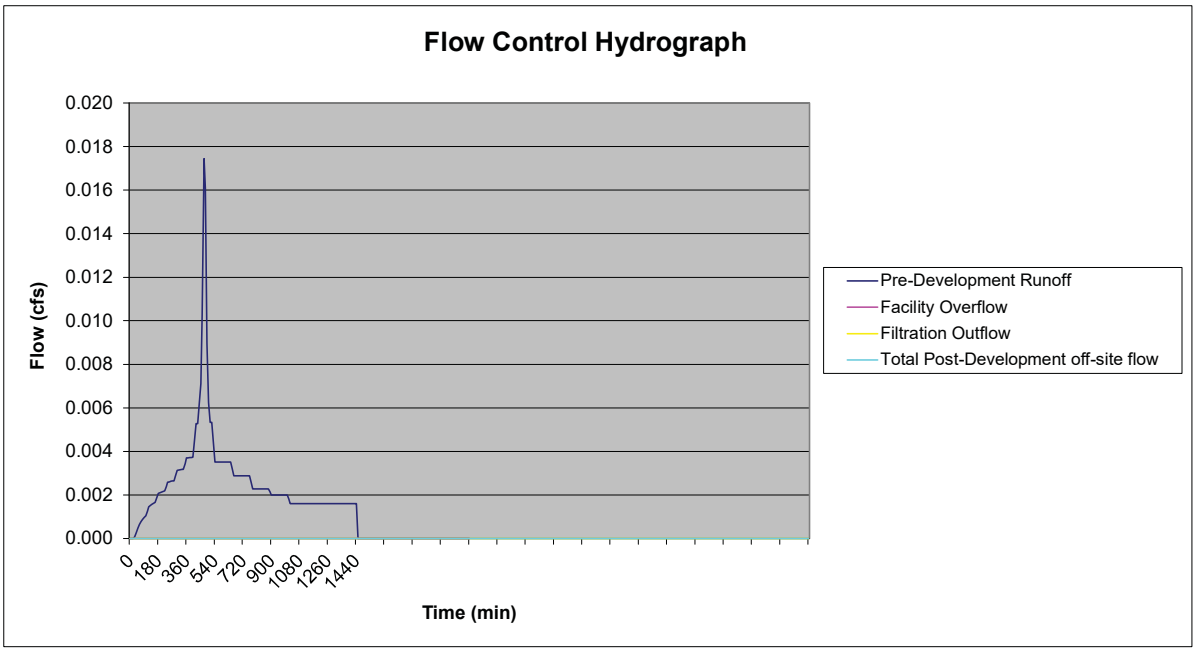


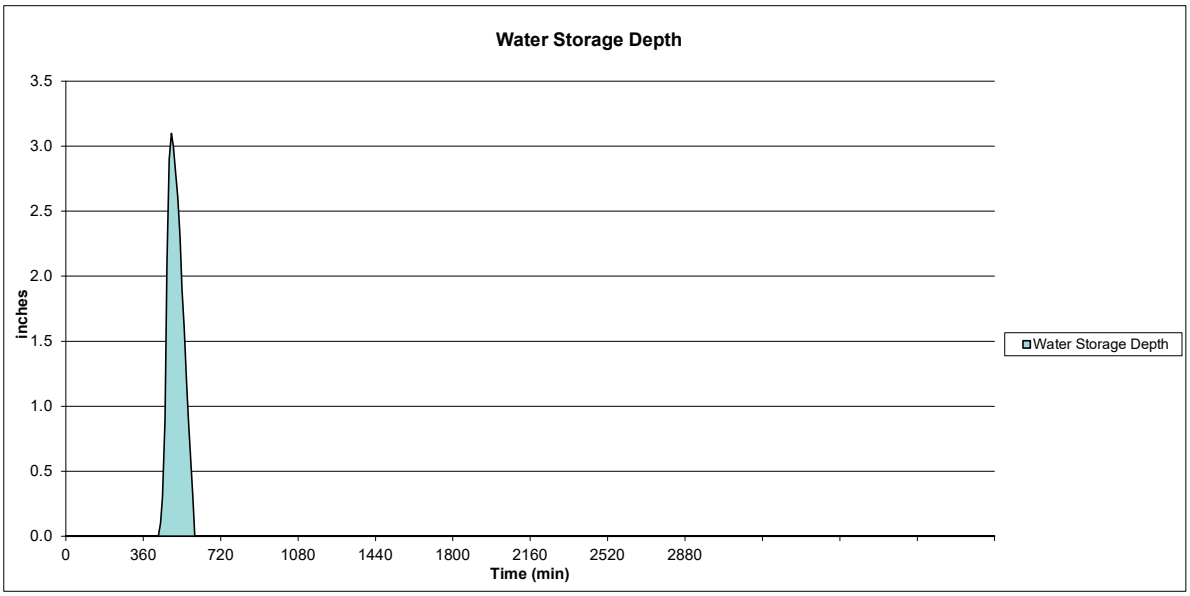




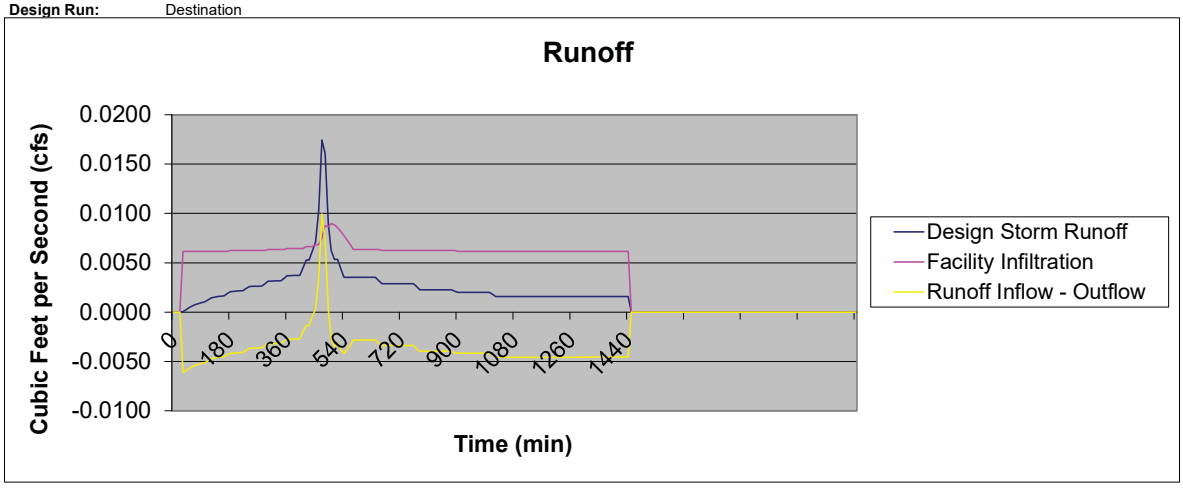
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 4M
Design Run: Flow Control

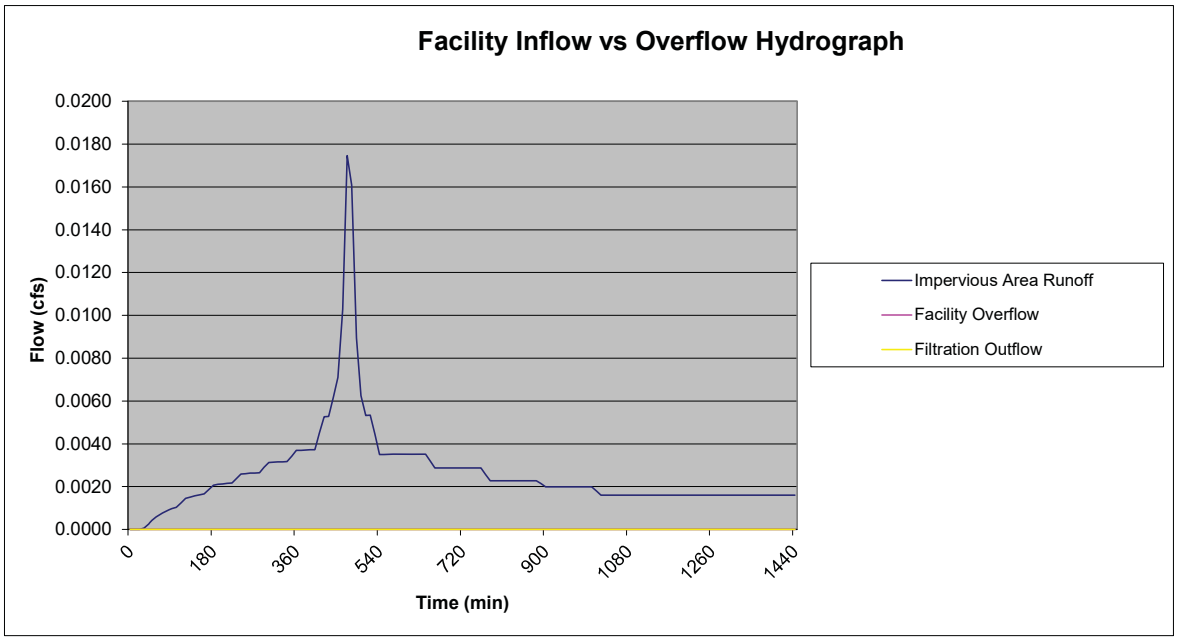


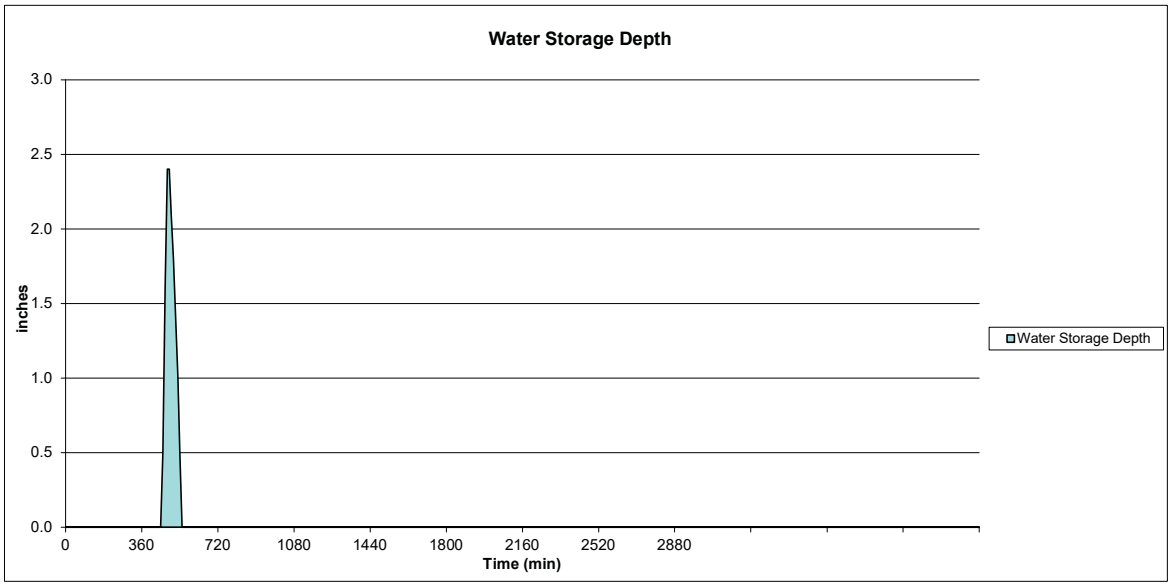




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 4M
Design Run: Destination







Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet
24 Hour Storm, NRCS Type 1A Rainfall Distribution
City of Eugene

Version 2.1

Project Information

Project Name:	Three Mile Prairie	**Date:**	12/30/2020
Project Address:	18-12-15-00-00200	**Permit Number:**	NA
	Florence, OR	**Catchment ID:**	4N
Designer:	Clint Beecroft		
Company:	EGR & Associates		

Instructions:

1. Complete this form for each drainage catchment in the project site that is to be sized per the Presumptive Approach.
2. Provide a distinctive Catchment ID for each facility coordinated with the site basin map to correlate the appropriate calculations with the facility.
3. The maximum drainage catchment to be modeled per the Presumptive Approach is 1 acre (43,560 SF)
4. For infiltration facilities in Class A or B soils where no infiltration testing has been perfromed use an infiltration rate of 0.5 in/hr. For all facilities use a maximum soil infiltration rate of 2.5 in/hr for topsoil/growing medium.

Design Requirements:

Choose "Yes" from the dropdown boxes below next to the design standards requirements for this facility.

Pollution Reduction (PR)	Yes
Flow Control (FC)	Yes
Destination (DT)	Yes

*An infiltration facility must be chosen as the facility type to meet destination requirements

Site Data-Post Development

Total Square Footage Impervious Area=	566	sqft	**Total Square Footage Pervious Area=**	0	sqft
Impervious Area CN=	98		**Pervious Area CN=**	85	
Total Square Footage of Drainage Area=	566	sft	**Time of Concentration Post Development=**	5	min
Weighted Average CN=	98				

Site Data-Pre Development (Data in this section is only used if Flow Control is required)

Pre-Development CN=	98		**Time of Concentration Pre-Development=**	5	min

Soil Data

Tested Soil Infiltration Rate=	10	in/hr (See Note 4)	**Destination Design=**	5	in/hr
Design Soil Infiltration Rate=	4	in/hr	**Soil Infiltration Rate**		

Design Storms Used For Calculations

Requirement	Rainfall Depth		Design Storm
Pollution Reduction	0.8	inches	Water Quality
Flow Control	5.1	inches	Flood Control
Destination	5.1	inches	Flood Control

Facility Data

Facility Type=	Infiltration Stormwater Planter		**Facility Surface Area=**	107.8	sqft
Surface Width=	7.7	ft	**Facility Surface Perimeter=**	43.4	ft
Surface Length=	14	ft	**Facility Bottom Area=**	52	sqft
Facility Side Slopes=	3	to 1	**Facility Bottom Perimeter=**	31	ft
Max. Ponding Depth in Stormwater Facility=	6	in	**Basin Volume=**	42.1	cf
Depth of Growing Medium (Soil)=	18	in	**Ratio of Facility Area to Impervious Area=**	0.190	

Pollution Reduction-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.002	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	30	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	0.0	in			
Drawdown Time=	0.2	hours			

Yes **Facility Sizing Meets Pollution Reduction Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

Flow Control-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.017	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	227	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	3.1	in	Peak Off-Site Flow Rate Filtration Facility Underdrain=	N\A	cfs
Drawdown Time=	0.2	hours			

Pre-Development Runoff Data

Peak Flow Rate =	0.017	cfs
Total Runoff Volume =	227	cf

Yes **Facility Sizing Meets Flow Control Standards?**

YES **Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

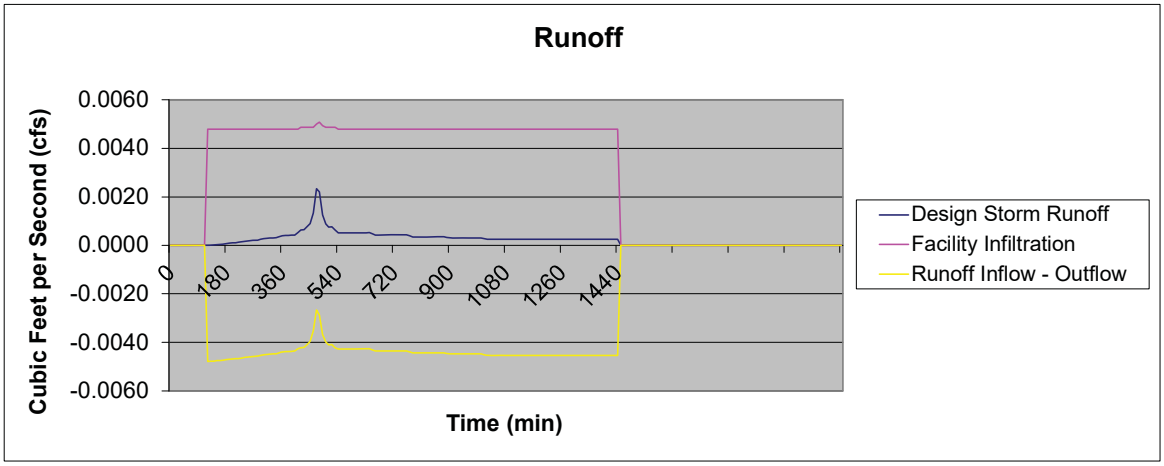
Destination-Calculation Results

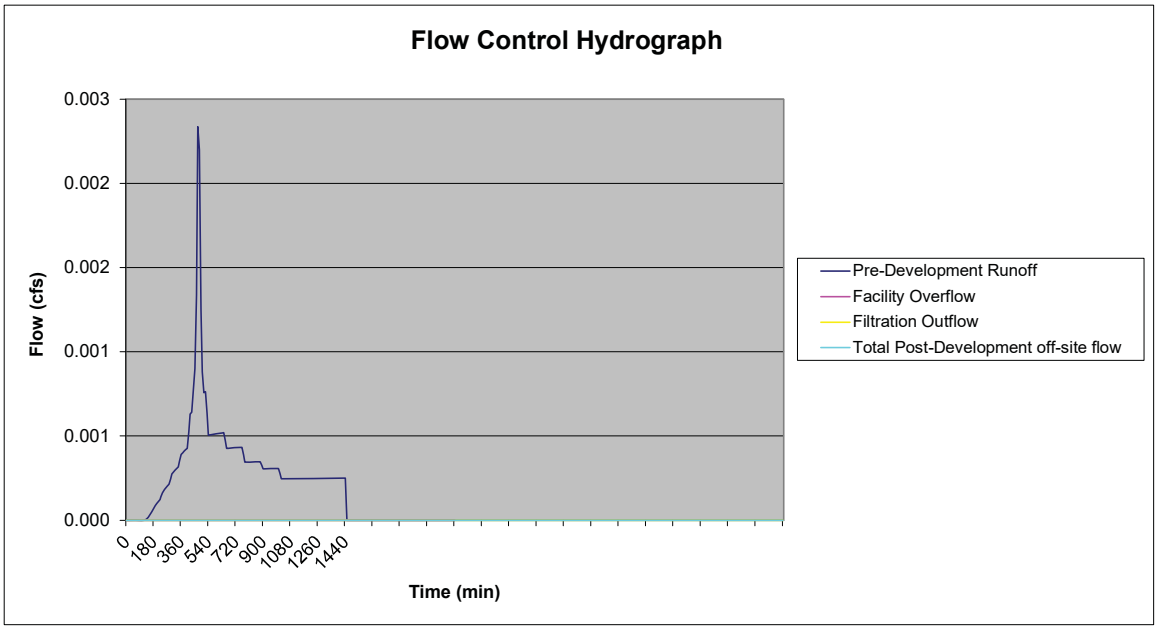
Peak Flow Rate to Stormwater Facility =	0.017	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	227	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	2.4	in			
Drawdown Time=	0.2	hours			

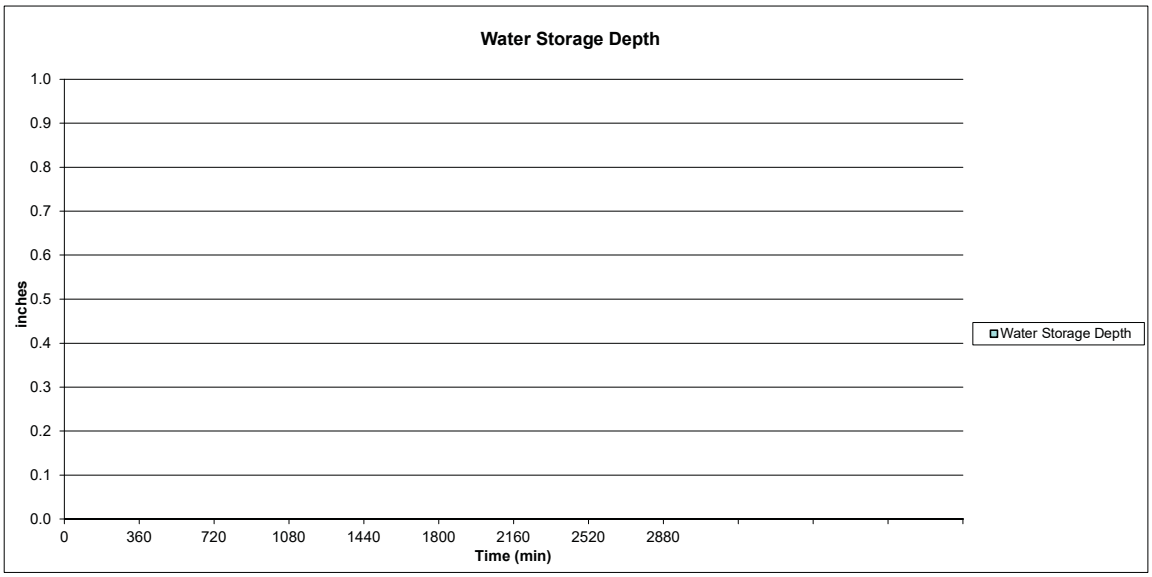
Yes **Facility Sizing Meets Destination Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 30 hour Drawdown Time?**

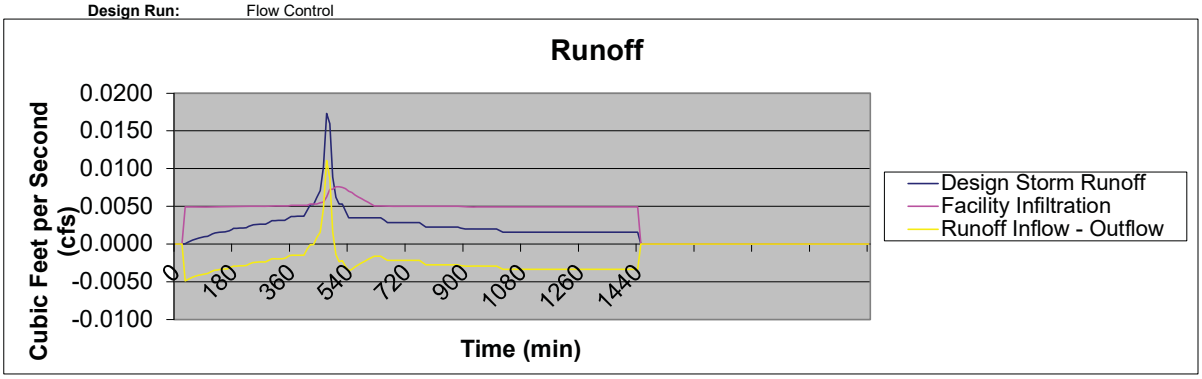
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 4N
Design Run: Pollution Reduction

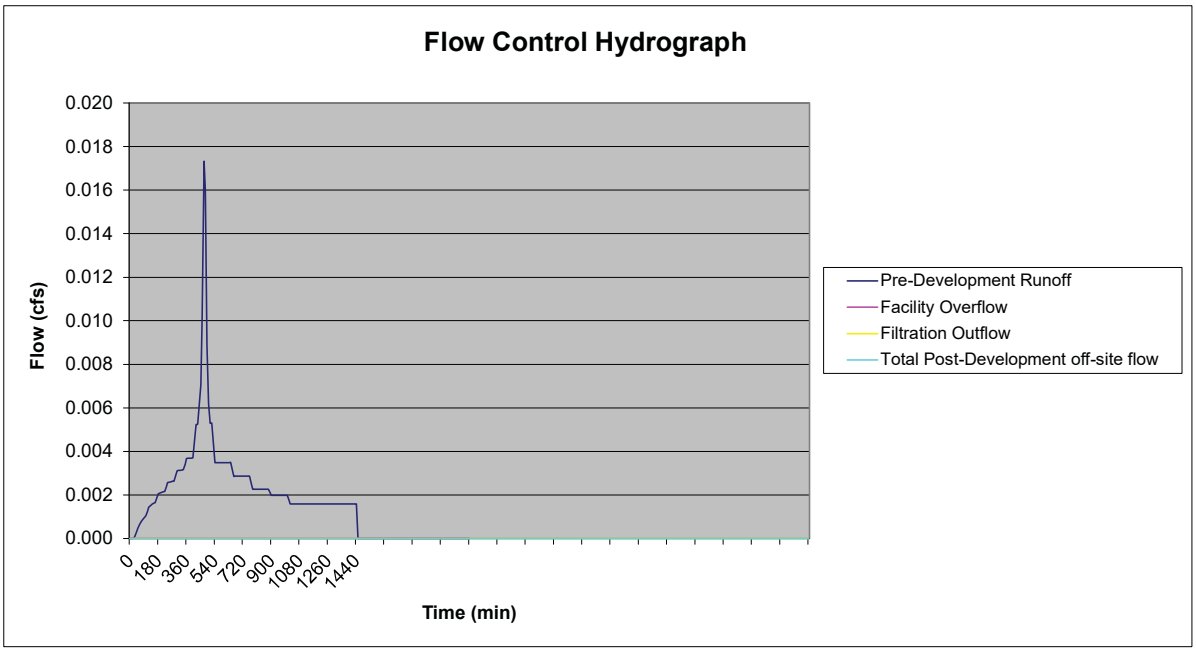


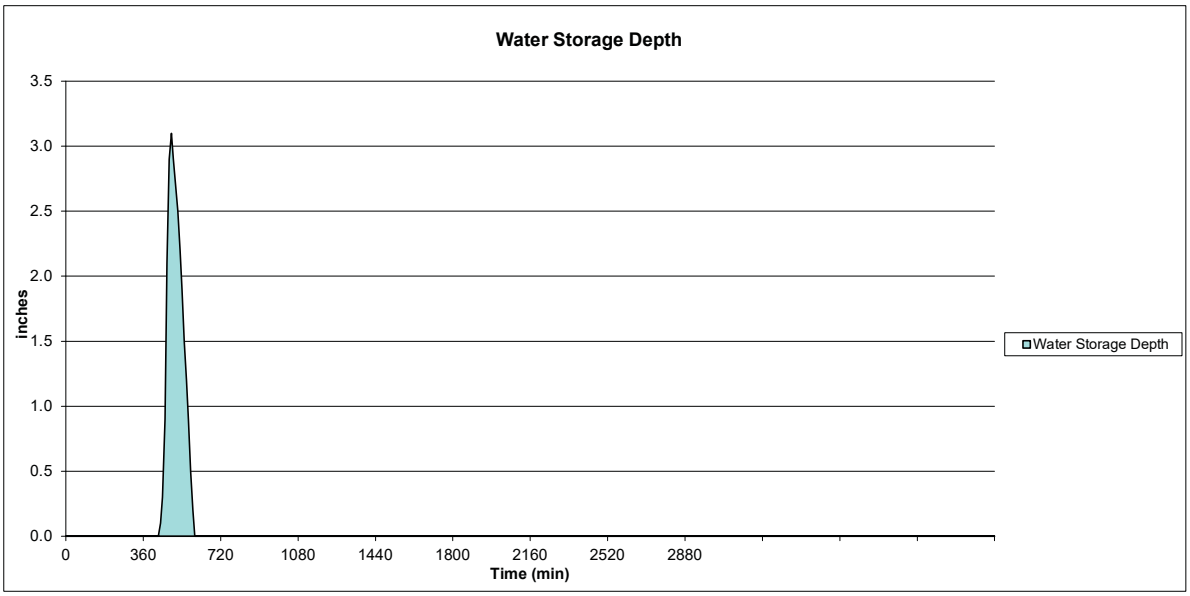




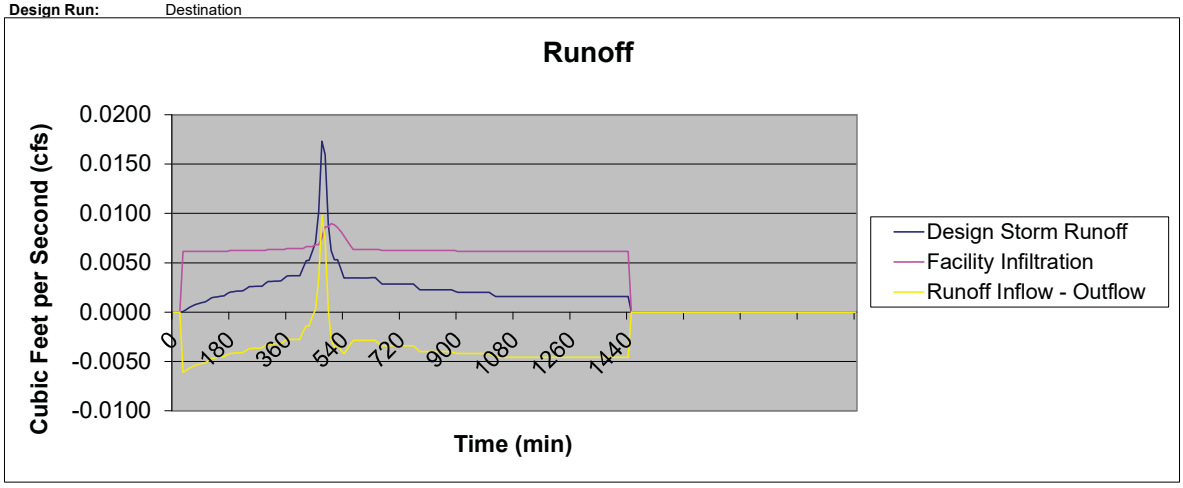
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 4N
Design Run: Flow Control

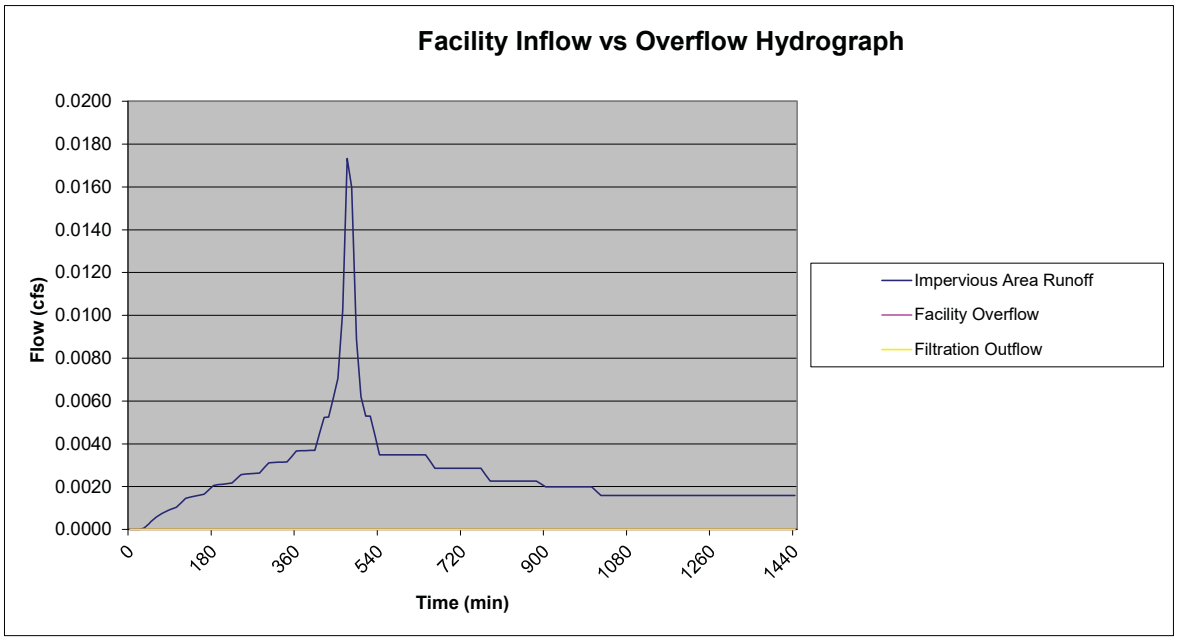


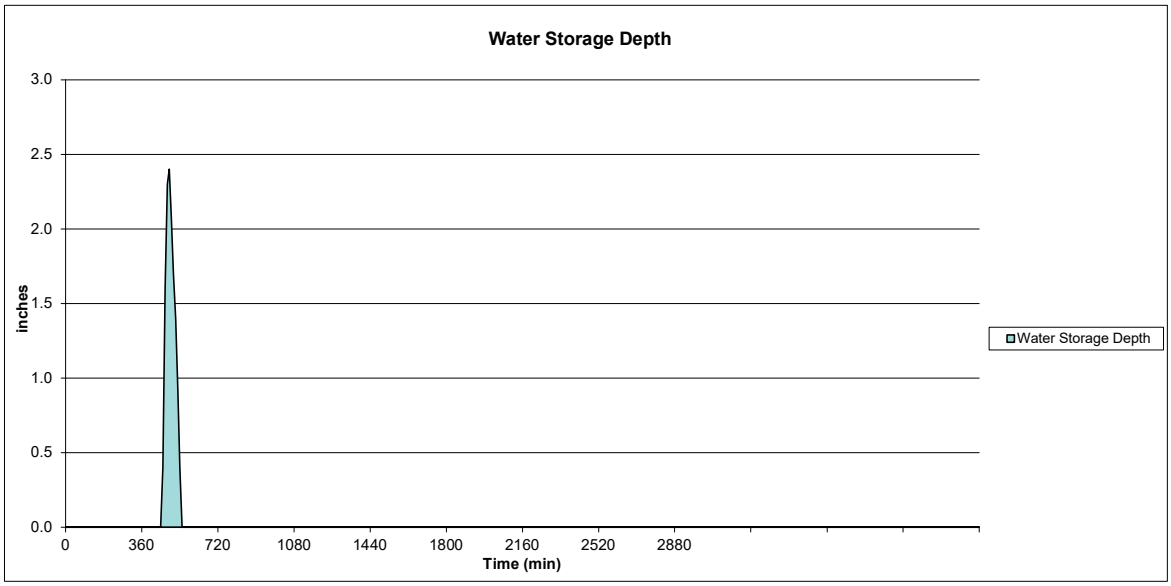




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 4N
Design Run: Destination







Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet
24 Hour Storm, NRCS Type 1A Rainfall Distribution
City of Eugene

Version 2.1

Project Information

Project Name:	Three Mile Prairie	**Date:**	12/30/2020
Project Address:	18-12-15-00-00200	**Permit Number:**	NA
	Florence, OR	**Catchment ID:**	5A
Designer:	Clint Beecroft		
Company:	EGR & Associates		

Instructions:

1. Complete this form for each drainage catchment in the project site that is to be sized per the Presumptive Approach.
2. Provide a distinctive Catchment ID for each facility coordinated with the site basin map to correlate the appropriate calculations with the facility.
3. The maximum drainage catchment to be modeled per the Presumptive Approach is 1 acre (43,560 SF)
4. For infiltration facilities in Class A or B soils where no infiltration testing has been perfromed use an infiltration rate of 0.5 in/hr. For all facilities use a maximum soil infiltration rate of 2.5 in/hr for topsoil/growing medium.

Design Requirements:

Choose "Yes" from the dropdown boxes below next to the design standards requirements for this facility.

Pollution Reduction (PR)	Yes
Flow Control (FC)	Yes
Destination (DT)	Yes

*An infiltration facility must be chosen as the facility type to meet destination requirements

Site Data-Post Development

Total Square Footage Impervious Area=	3512	sqft	**Total Square Footage Pervious Area=**	0	sqft
Impervious Area CN=	98		**Pervious Area CN=**	85	
Total Square Footage of Drainage Area=	3512	sft	**Time of Concentration Post Development=**	5	min
Weighted Average CN=	98				

Site Data-Pre Development (Data in this section is only used if Flow Control is required)

Pre-Development CN=	98		**Time of Concentration Pre-Development=**	5	min

Soil Data

Tested Soil Infiltration Rate=	10	in/hr (See Note 4)	**Destination Design=**	5	in/hr
Design Soil Infiltration Rate=	4	in/hr	**Soil Infiltration Rate**		

Design Storms Used For Calculations

Requirement	Rainfall Depth		Design Storm
Pollution Reduction	0.8	inches	Water Quality
Flow Control	5.1	inches	Flood Control
Destination	5.1	inches	Flood Control

Facility Data

Facility Type=	Infiltration Stormwater Planter		**Facility Surface Area=**	277.4	sqft
Surface Width=	3.8	ft	**Facility Surface Perimeter=**	153.6	ft
Surface Length=	73	ft	**Facility Bottom Area=**	277	sqft
Facility Side Slopes=	0	to 1	**Facility Bottom Perimeter=**	154	ft
Max. Ponding Depth in Stormwater Facility=	6	in	**Basin Volume=**	138.7	cf
Depth of Growing Medium (Soil)=	18	in	**Ratio of Facility Area to Impervious Area=**	0.079	

Pollution Reduction-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.014	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	183	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	0.0	in			
Drawdown Time=	0.2	hours			

Yes **Facility Sizing Meets Pollution Reduction Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

Flow Control-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.108	cfs	Peak Facility Overflow Rate=	0.029	cfs
Total Runoff Volume to Stormwater Facility =	1409	cf	Total Overflow Volume=	40	cf
Max. Depth of Stormwater in Facility=	6.0	in	Peak Off-Site Flow Rate Filtration Facility Underdrain=	N\A	cfs
Drawdown Time=	0.2	hours			

Pre-Development Runoff Data

Peak Flow Rate =	0.108	cfs
Total Runoff Volume =	1412	cf

Yes **Facility Sizing Meets Flow Control Standards?**

YES **Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

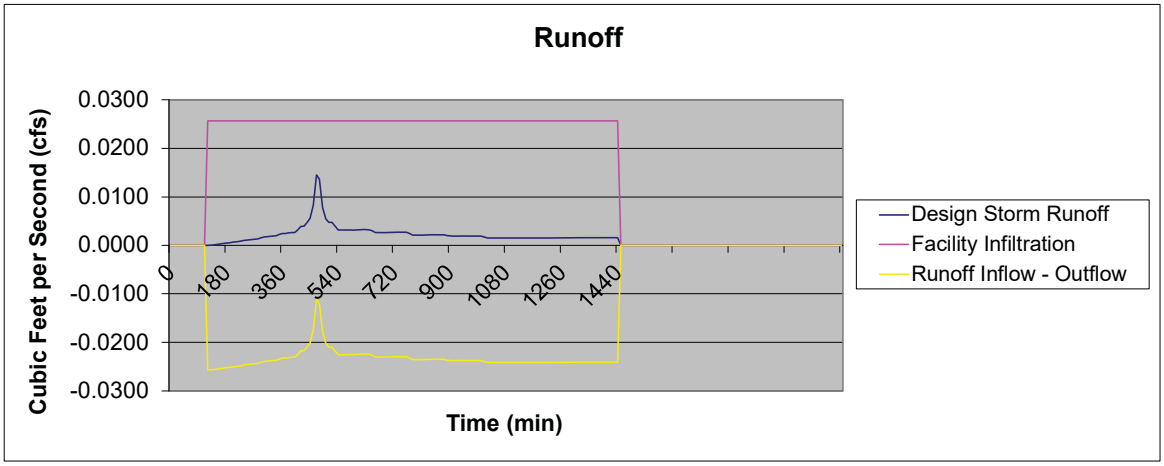
Destination-Calculation Results

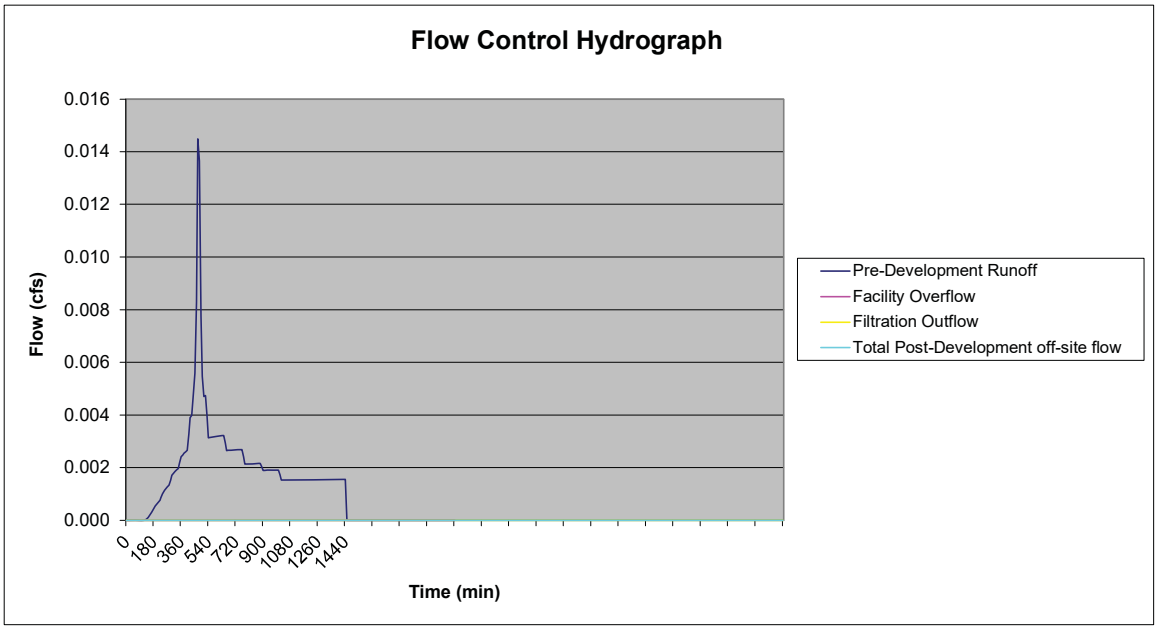
Peak Flow Rate to Stormwater Facility =	0.108	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	1409	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	5.7	in			
Drawdown Time=	0.2	hours			

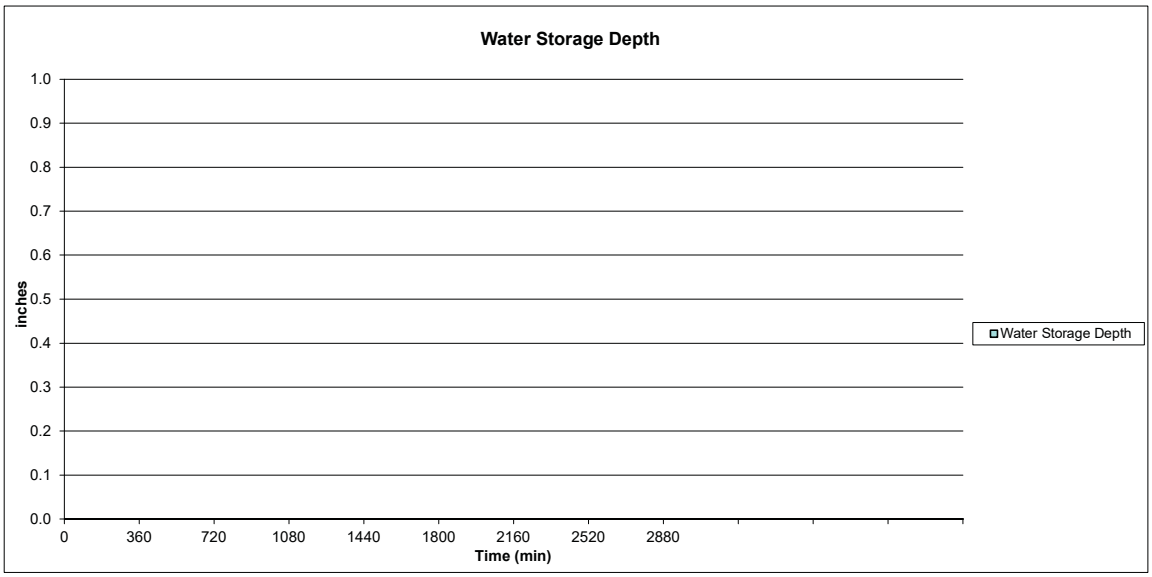
Yes **Facility Sizing Meets Destination Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 30 hour Drawdown Time?**

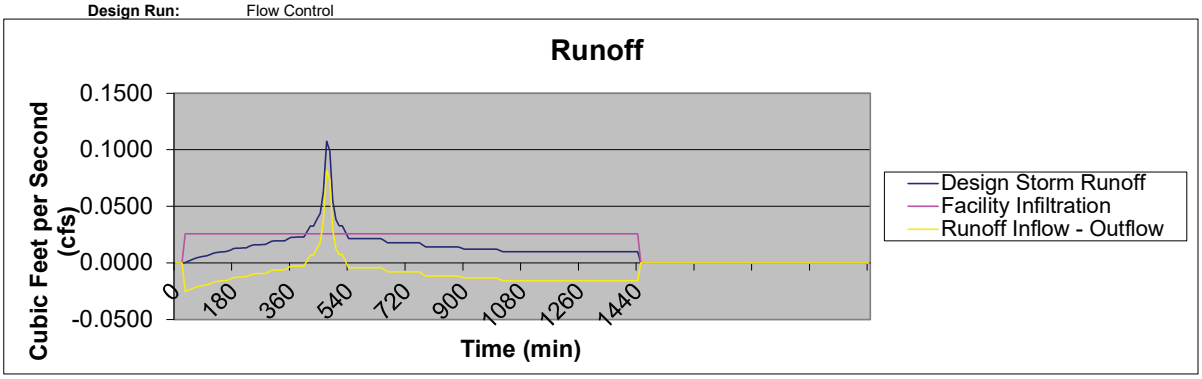
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 5A
Design Run: Pollution Reduction

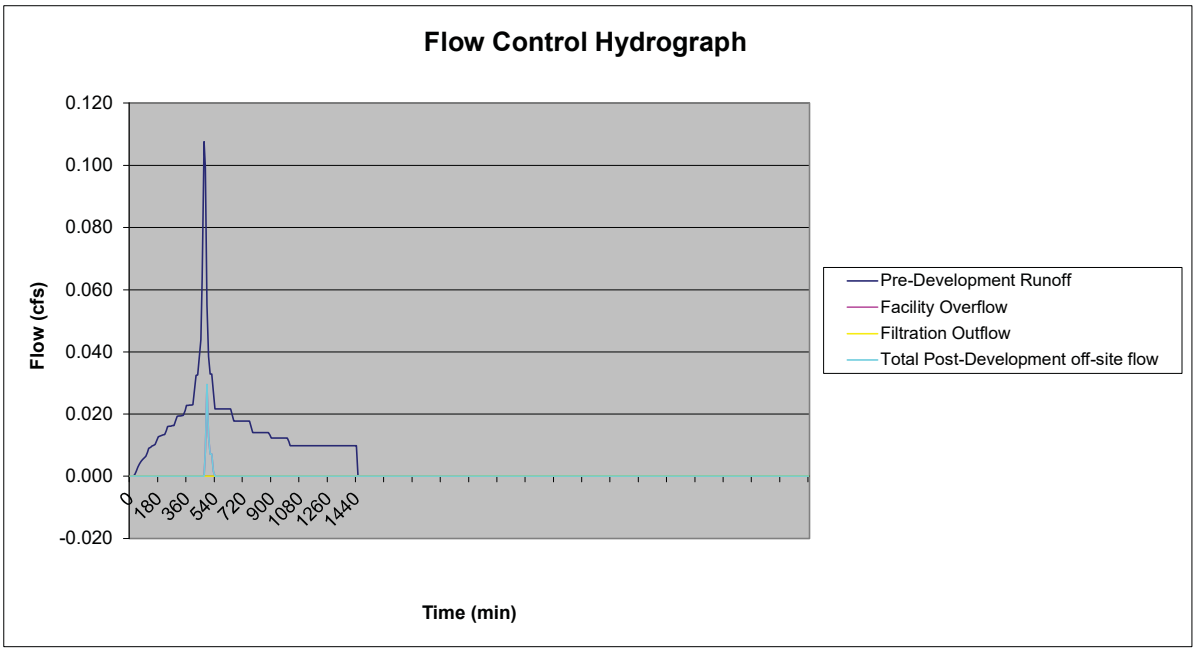


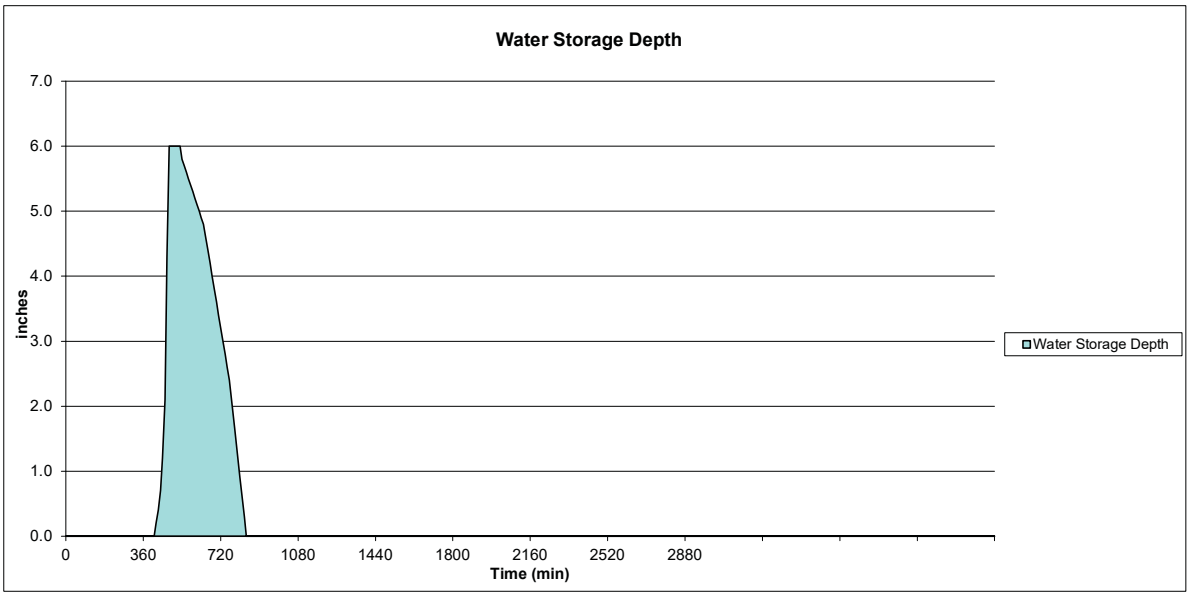




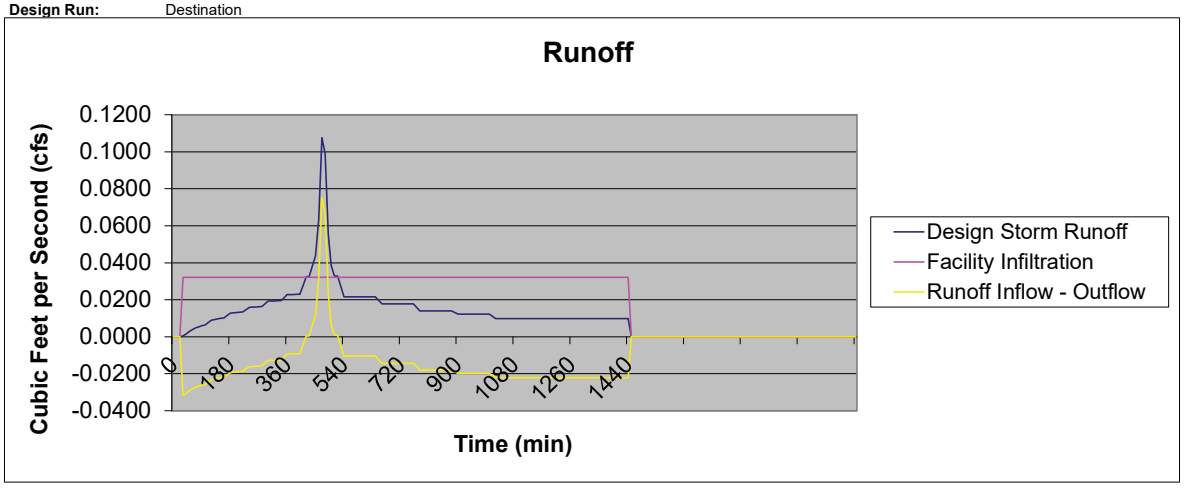
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 5A
Design Run: Flow Control

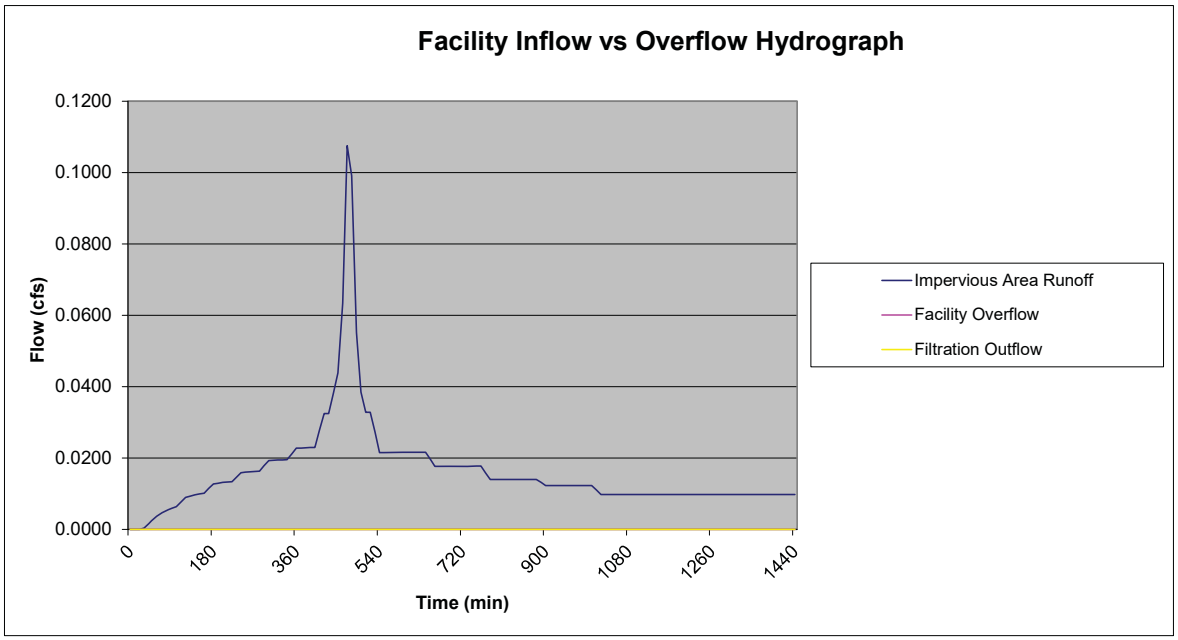


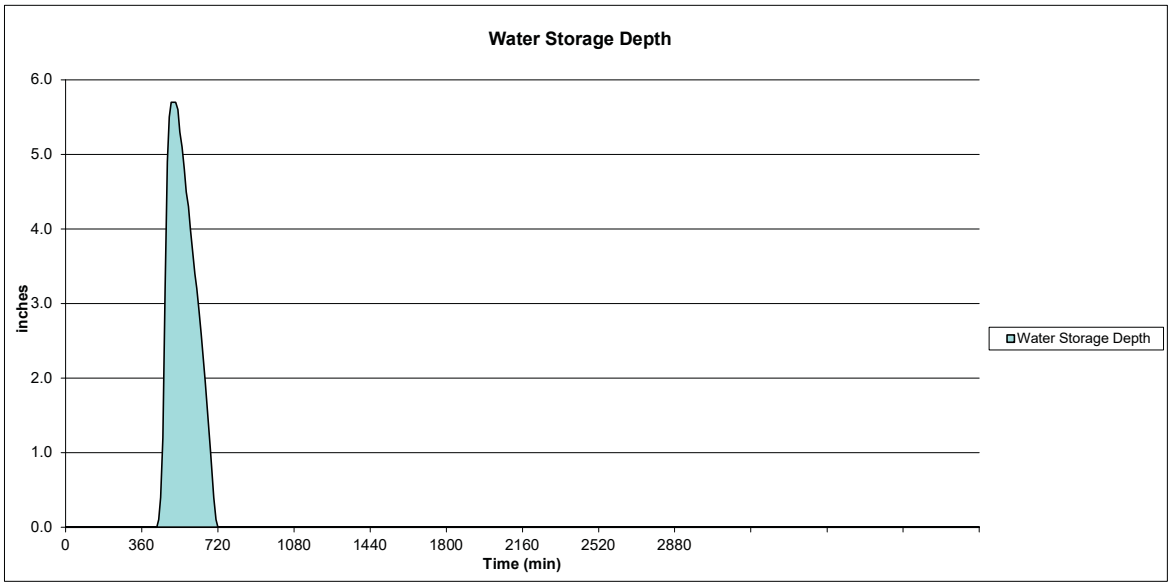




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 5A
Design Run: Destination







Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet
24 Hour Storm, NRCS Type 1A Rainfall Distribution
City of Eugene

Version 2.1

Project Information

Project Name:	Three Mile Prairie	**Date:**	12/30/2020
Project Address:	18-12-15-00-00200	**Permit Number:**	NA
	Florence, OR	**Catchment ID:**	5B
Designer:	Clint Beecroft		
Company:	EGR & Associates		

Instructions:

1. Complete this form for each drainage catchment in the project site that is to be sized per the Presumptive Approach.
2. Provide a distinctive Catchment ID for each facility coordinated with the site basin map to correlate the appropriate calculations with the facility.
3. The maximum drainage catchment to be modeled per the Presumptive Approach is 1 acre (43,560 SF)
4. For infiltration facilities in Class A or B soils where no infiltration testing has been perfromed use an infiltration rate of 0.5 in/hr. For all facilities use a maximum soil infiltration rate of 2.5 in/hr for topsoil/growing medium.

Design Requirements:

Choose "Yes" from the dropdown boxes below next to the design standards requirements for this facility.

Pollution Reduction (PR)	Yes
Flow Control (FC)	Yes
Destination (DT)	Yes

*An infiltration facility must be chosen as the facility type to meet destination requirements

Site Data-Post Development

Total Square Footage Impervious Area=	3520	sqft	**Total Square Footage Pervious Area=**	0	sqft
Impervious Area CN=	98		**Pervious Area CN=**	85	
Total Square Footage of Drainage Area=	3520	sft	**Time of Concentration Post Development=**	5	min
Weighted Average CN=	98				

Site Data-Pre Development (Data in this section is only used if Flow Control is required)

Pre-Development CN=	98		**Time of Concentration Pre-Development=**	5	min

Soil Data

Tested Soil Infiltration Rate=	10	in/hr (See Note 4)	**Destination Design=**	5	in/hr
Design Soil Infiltration Rate=	4	in/hr	**Soil Infiltration Rate**		

Design Storms Used For Calculations

Requirement	Rainfall Depth		Design Storm
Pollution Reduction	0.8	inches	Water Quality
Flow Control	5.1	inches	Flood Control
Destination	5.1	inches	Flood Control

Facility Data

Facility Type=	Infiltration Stormwater Planter		**Facility Surface Area=**	277.4	sqft
Surface Width=	3.8	ft	**Facility Surface Perimeter=**	153.6	ft
Surface Length=	73	ft	**Facility Bottom Area=**	277	sqft
Facility Side Slopes=	0	to 1	**Facility Bottom Perimeter=**	154	ft
Max. Ponding Depth in Stormwater Facility=	6	in	**Basin Volume=**	138.7	cf
Depth of Growing Medium (Soil)=	18	in	**Ratio of Facility Area to Impervious Area=**	0.079	

Pollution Reduction-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.015	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	183	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	0.0	in			
Drawdown Time=	0.2	hours			

Yes **Facility Sizing Meets Pollution Reduction Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

Flow Control-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.108	cfs	Peak Facility Overflow Rate=	0.030	cfs
Total Runoff Volume to Stormwater Facility =	1412	cf	Total Overflow Volume=	41	cf
Max. Depth of Stormwater in Facility=	6.0	in	Peak Off-Site Flow Rate Filtration Facility Underdrain=	N\A	cfs
Drawdown Time=	0.2	hours			

Pre-Development Runoff Data

Peak Flow Rate =	0.108	cfs
Total Runoff Volume =	1415	cf

Yes **Facility Sizing Meets Flow Control Standards?**

YES **Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

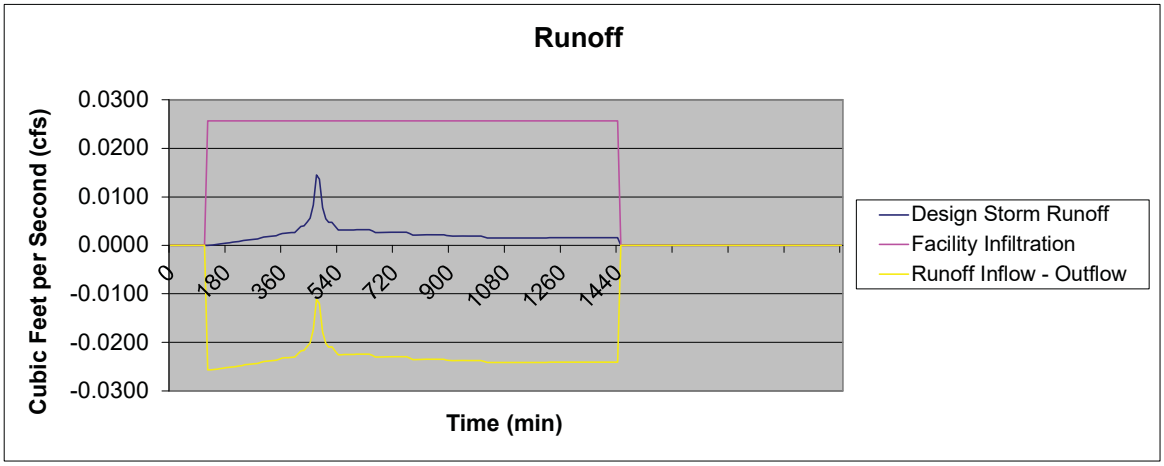
Destination-Calculation Results

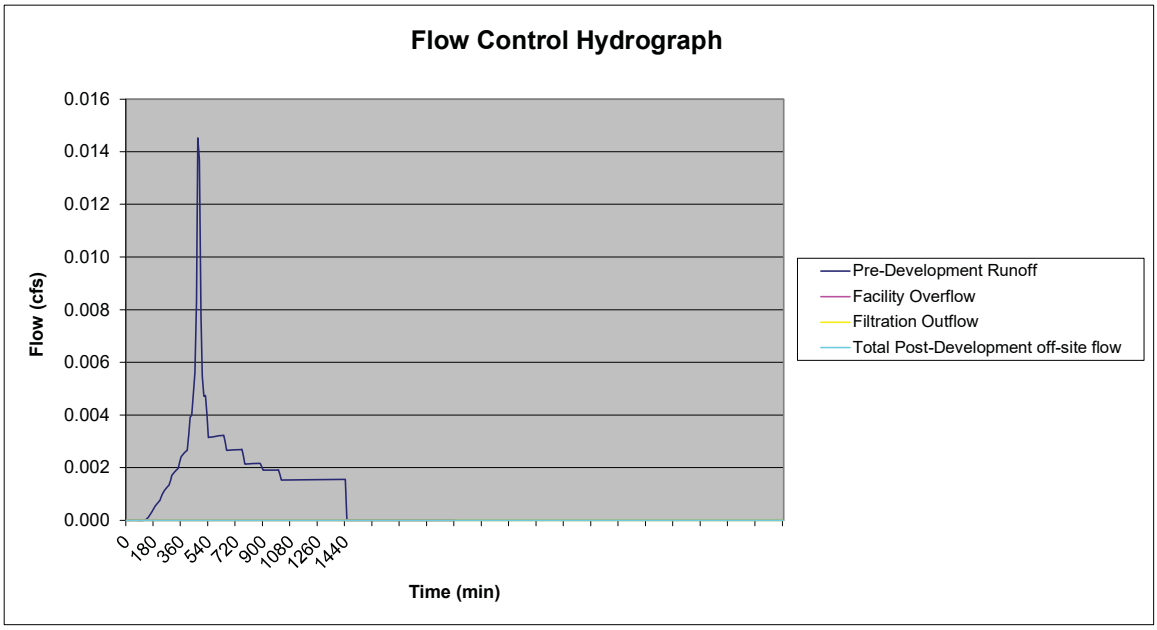
Peak Flow Rate to Stormwater Facility =	0.108	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	1412	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	5.8	in			
Drawdown Time=	0.2	hours			

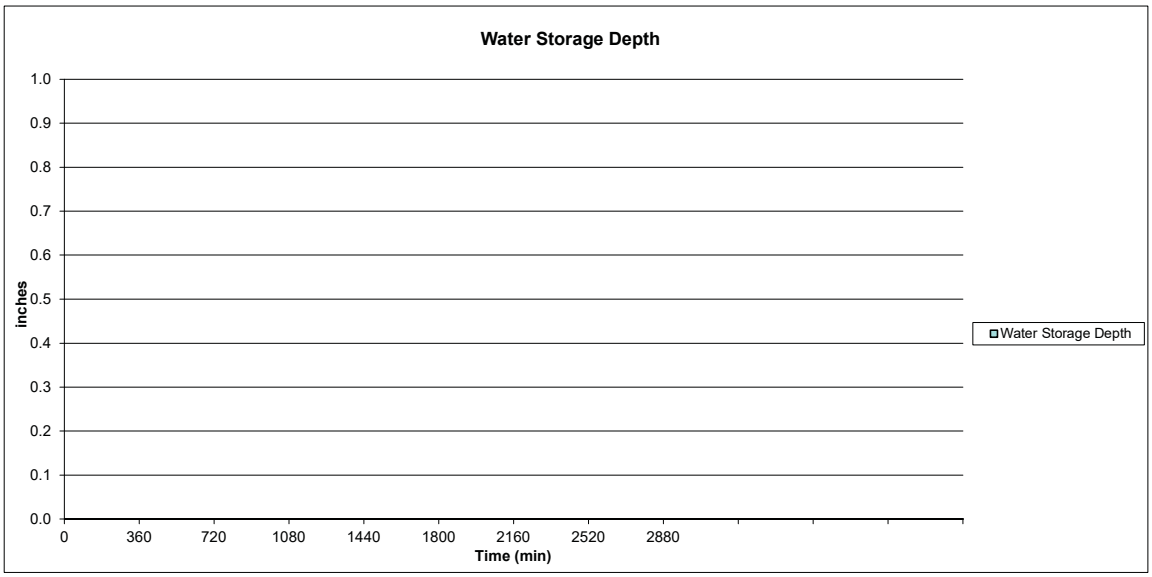
Yes **Facility Sizing Meets Destination Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 30 hour Drawdown Time?**

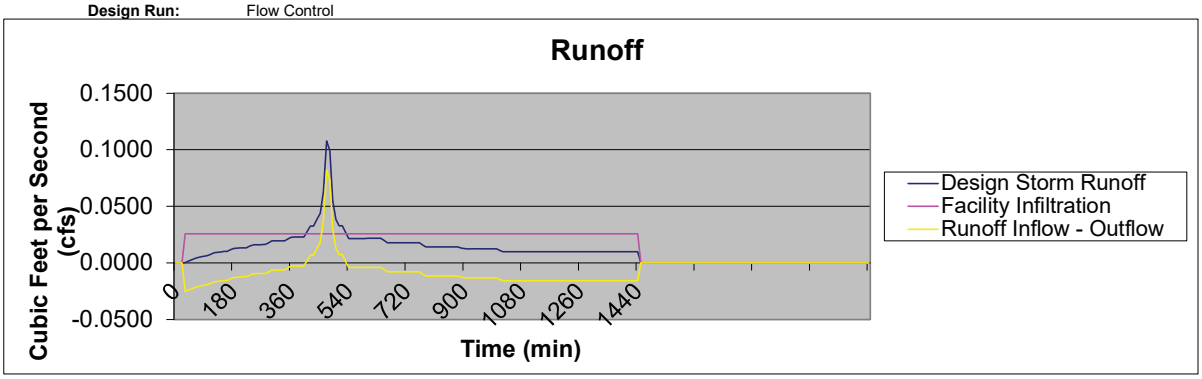
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 5B
Design Run: Pollution Reduction

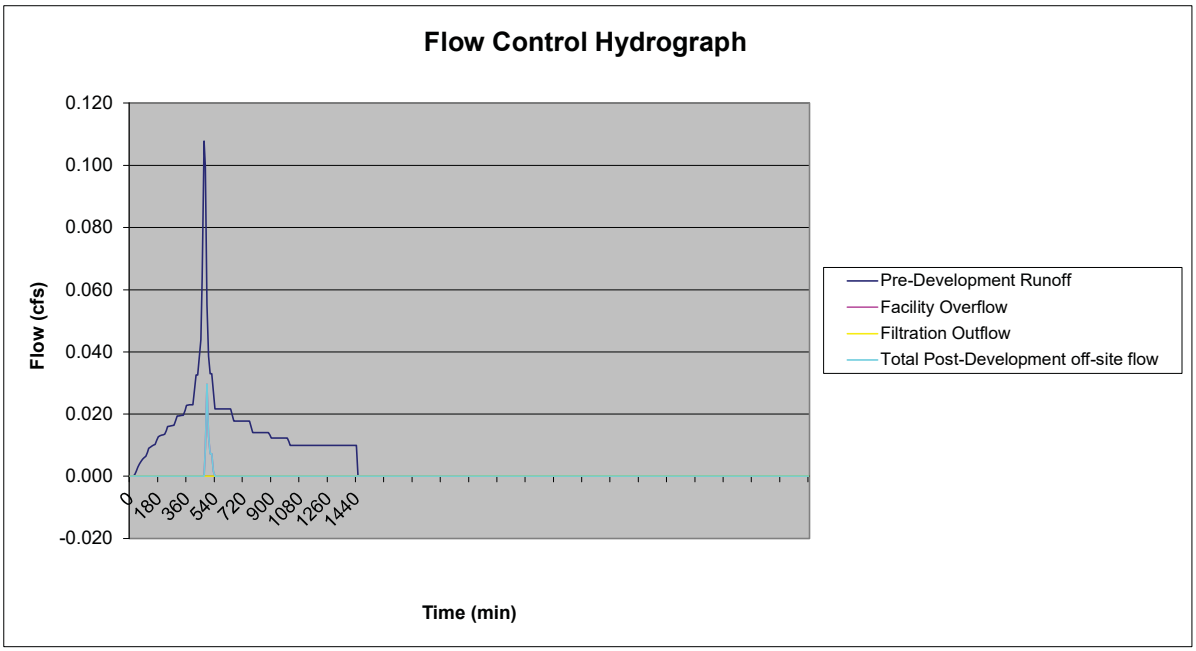


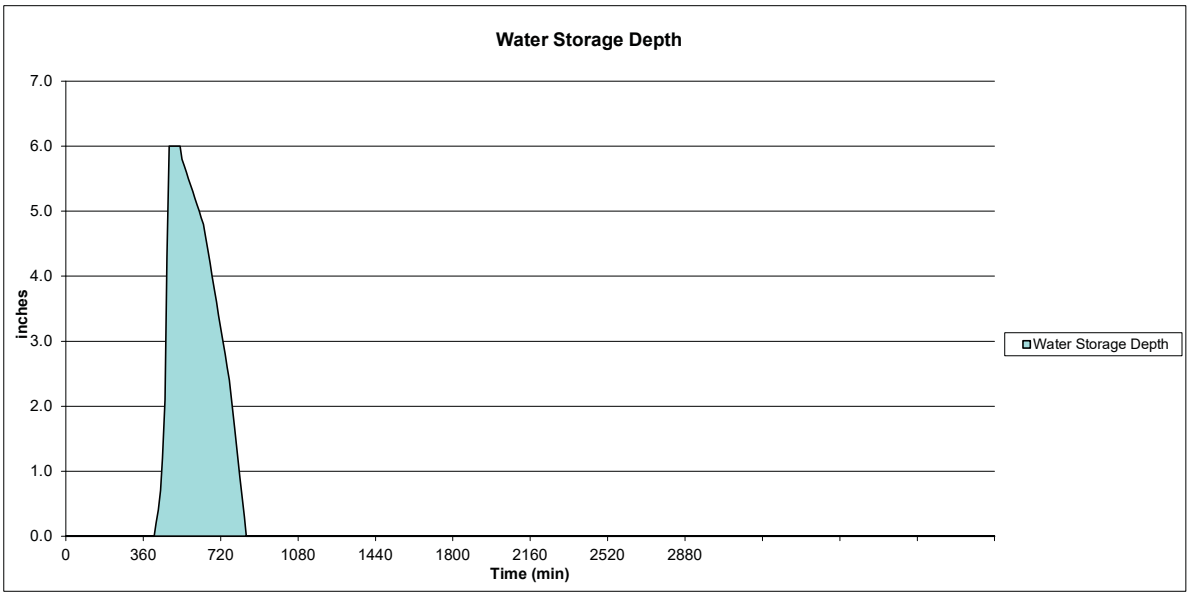




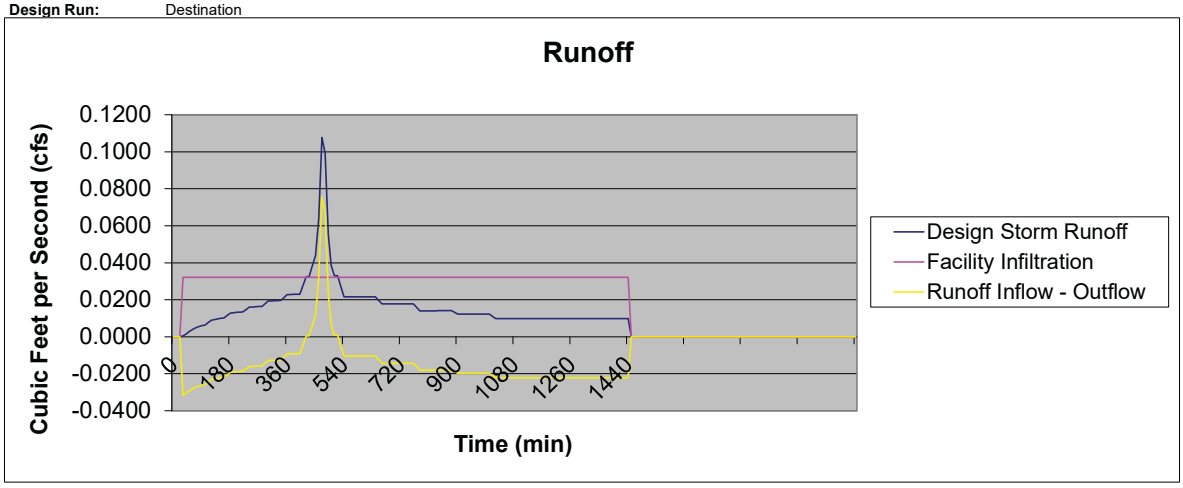
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 5B
Design Run: Flow Control

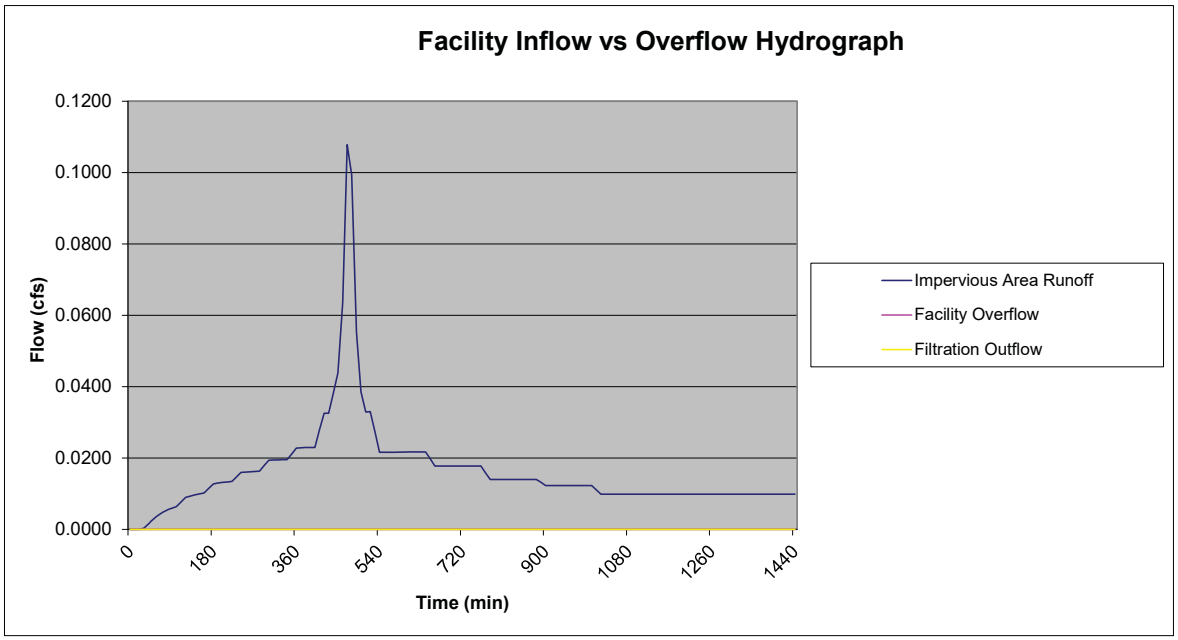


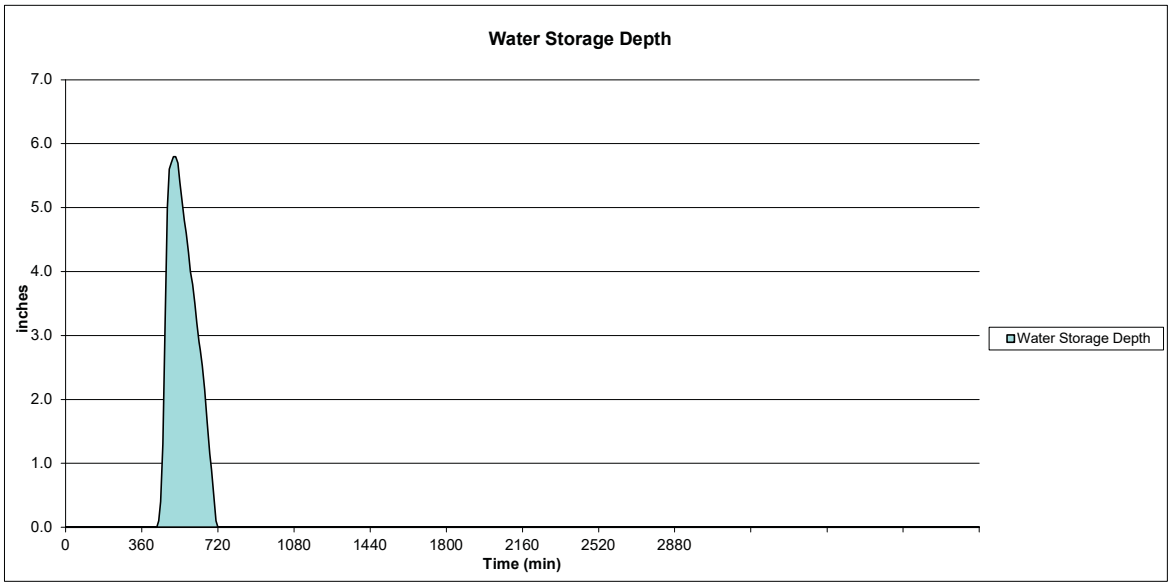




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 5B
Design Run: Destination







Stormwater Surface Filtration/Infiltration Facility Sizing Spreadsheet
24 Hour Storm, NRCS Type 1A Rainfall Distribution
City of Eugene

Version 2.1

Project Information

Project Name:	Three Mile Prairie	**Date:**	12/30/2020
Project Address:	18-12-15-00-00200	**Permit Number:**	NA
	Florence, OR	**Catchment ID:**	5C
Designer:	Clint Beecroft		
Company:	EGR & Associates		

Instructions:

1. Complete this form for each drainage catchment in the project site that is to be sized per the Presumptive Approach.
2. Provide a distinctive Catchment ID for each facility coordinated with the site basin map to correlate the appropriate calculations with the facility.
3. The maximum drainage catchment to be modeled per the Presumptive Approach is 1 acre (43,560 SF)
4. For infiltration facilities in Class A or B soils where no infiltration testing has been perfromed use an infiltration rate of 0.5 in/hr. For all facilities use a maximum soil infiltration rate of 2.5 in/hr for topsoil/growing medium.

Design Requirements:

Choose "Yes" from the dropdown boxes below next to the design standards requirements for this facility.

Pollution Reduction (PR)	Yes
Flow Control (FC)	Yes
Destination (DT)	Yes

*An infiltration facility must be chosen as the facility type to meet destination requirements

Site Data-Post Development

Total Square Footage Impervious Area=	1555	sqft	**Total Square Footage Pervious Area=**	0	sqft
Impervious Area CN=	98		**Pervious Area CN=**	85	
Total Square Footage of Drainage Area=	1555	sft	**Time of Concentration Post Development=**	5	min
Weighted Average CN=	98				

Site Data-Pre Development (Data in this section is only used if Flow Control is required)

Pre-Development CN=	98		**Time of Concentration Pre-Development=**	5	min

Soil Data

Tested Soil Infiltration Rate=	10	in/hr (See Note 4)	**Destination Design=**	5	in/hr
Design Soil Infiltration Rate=	4	in/hr	**Soil Infiltration Rate**		

Design Storms Used For Calculations

Requirement	Rainfall Depth		Design Storm
Pollution Reduction	0.8	inches	Water Quality
Flow Control	5.1	inches	Flood Control
Destination	5.1	inches	Flood Control

Facility Data

Facility Type=	Infiltration Stormwater Planter		**Facility Surface Area=**	121.6	sqft
Surface Width=	3.8	ft	**Facility Surface Perimeter=**	71.6	ft
Surface Length=	32	ft	**Facility Bottom Area=**	122	sqft
Facility Side Slopes=	0	to 1	**Facility Bottom Perimeter=**	72	ft
Max. Ponding Depth in Stormwater Facility=	6	in	**Basin Volume=**	60.8	cf
Depth of Growing Medium (Soil)=	18	in	**Ratio of Facility Area to Impervious Area=**	0.078	

Pollution Reduction-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.006	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	81	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	0.0	in			
Drawdown Time=	0.2	hours			

Yes **Facility Sizing Meets Pollution Reduction Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

Flow Control-Calculation Results

Peak Flow Rate to Stormwater Facility =	0.048	cfs	Peak Facility Overflow Rate=	0.013	cfs
Total Runoff Volume to Stormwater Facility =	624	cf	Total Overflow Volume=	19	cf
Max. Depth of Stormwater in Facility=	6.0	in	Peak Off-Site Flow Rate Filtration Facility Underdrain=	N\A	cfs
Drawdown Time=	0.2	hours			

Pre-Development Runoff Data

Peak Flow Rate =	0.048	cfs
Total Runoff Volume =	625	cf

Yes **Facility Sizing Meets Flow Control Standards?**

YES **Meets Requirement for Post Development offsite flow less or equal to Pre-Development Flow?**
YES **Meets Requirement for Maximum of 18 Hour Drawdown Time?**

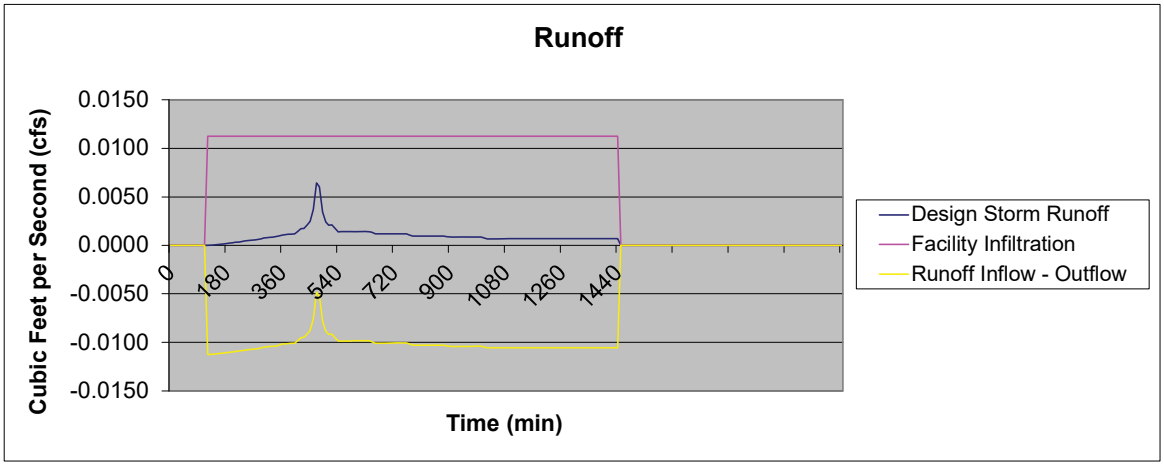
Destination-Calculation Results

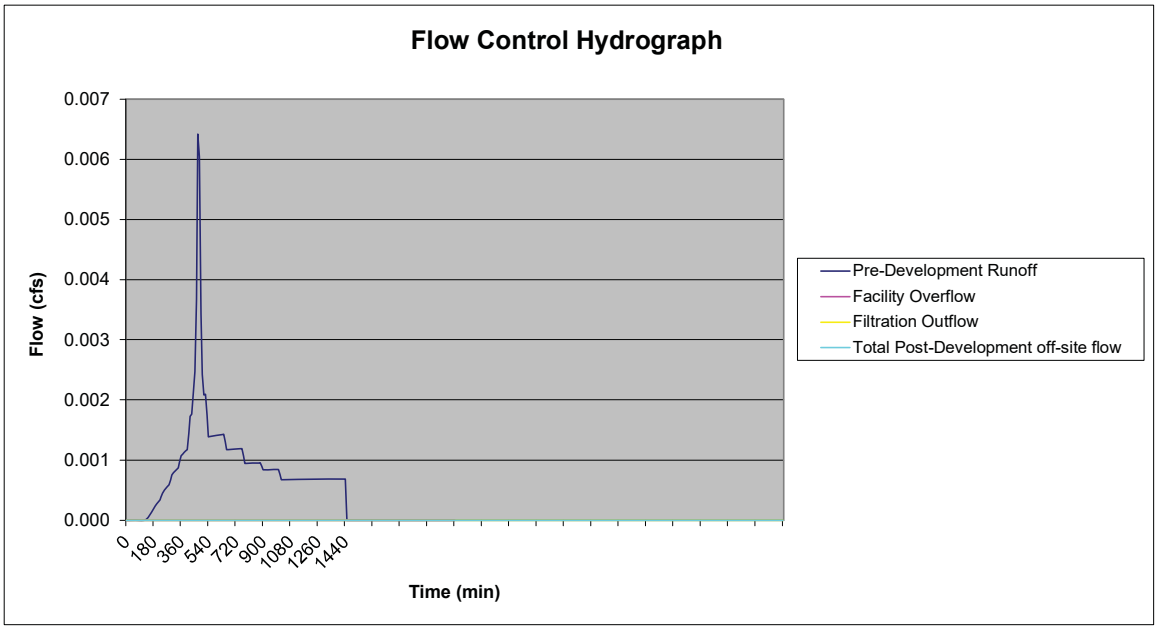
Peak Flow Rate to Stormwater Facility =	0.048	cfs	Peak Facility Overflow Rate=	0.000	cfs
Total Runoff Volume to Stormwater Facility =	624	cf	Total Overflow Volume=	0	cf
Max. Depth of Stormwater in Facility=	5.9	in			
Drawdown Time=	0.2	hours			

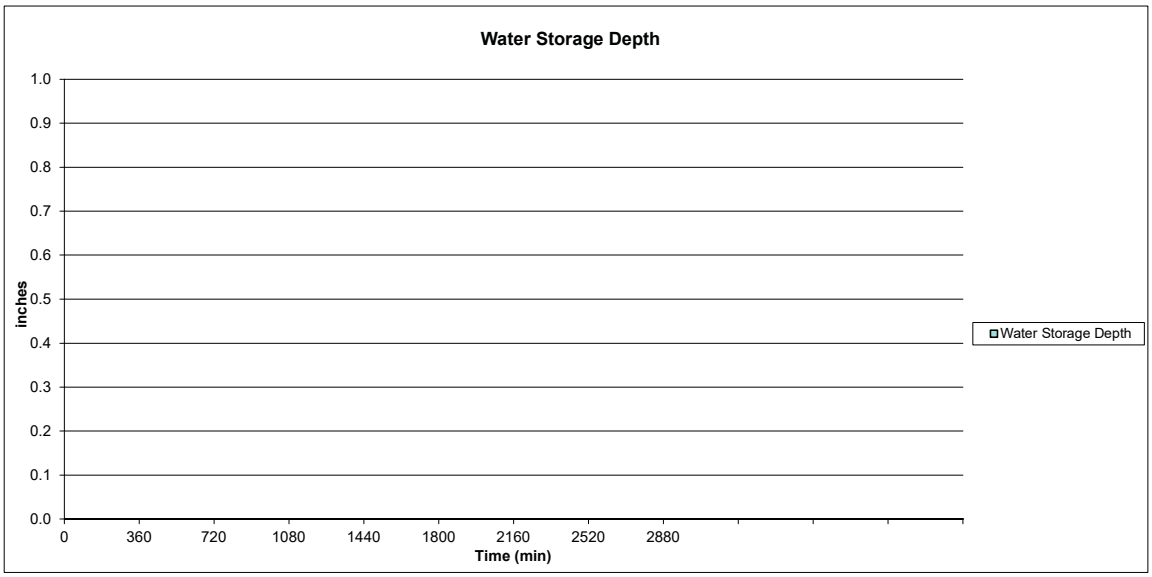
Yes **Facility Sizing Meets Destination Standards?**

YES **Meets Requirement of No Facility Flooding?**
YES **Meets Requirement for Maximum of 30 hour Drawdown Time?**

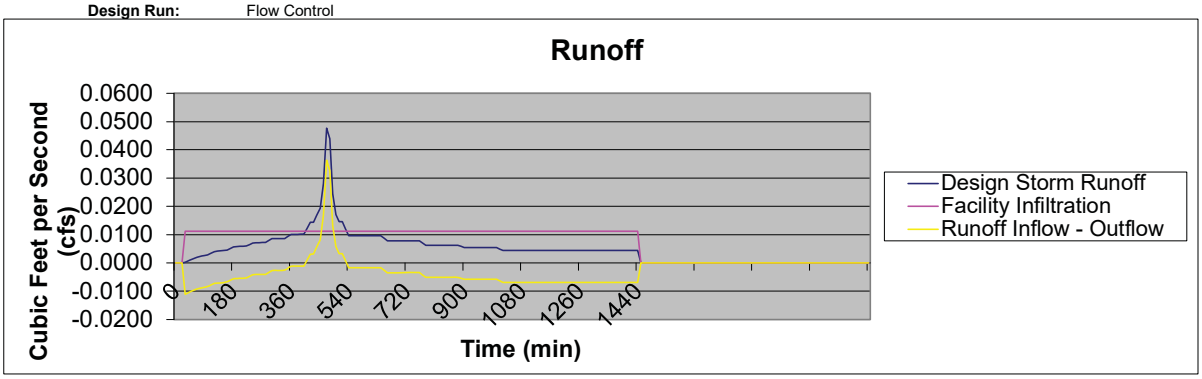
Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 5C
Design Run: Pollution Reduction

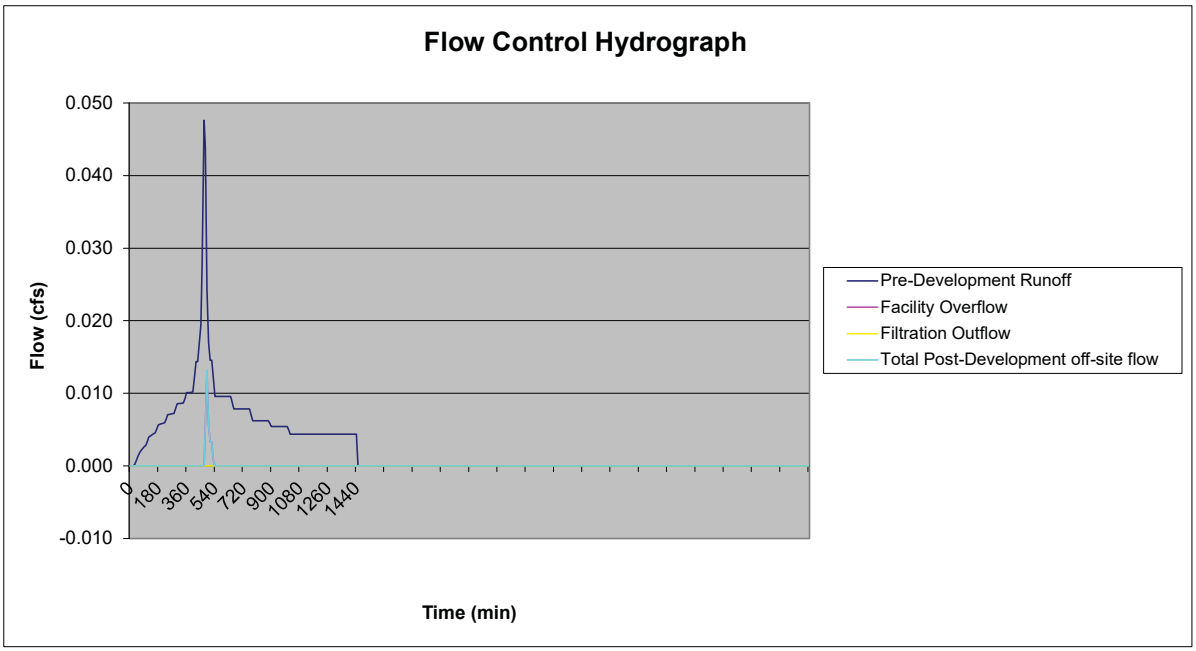


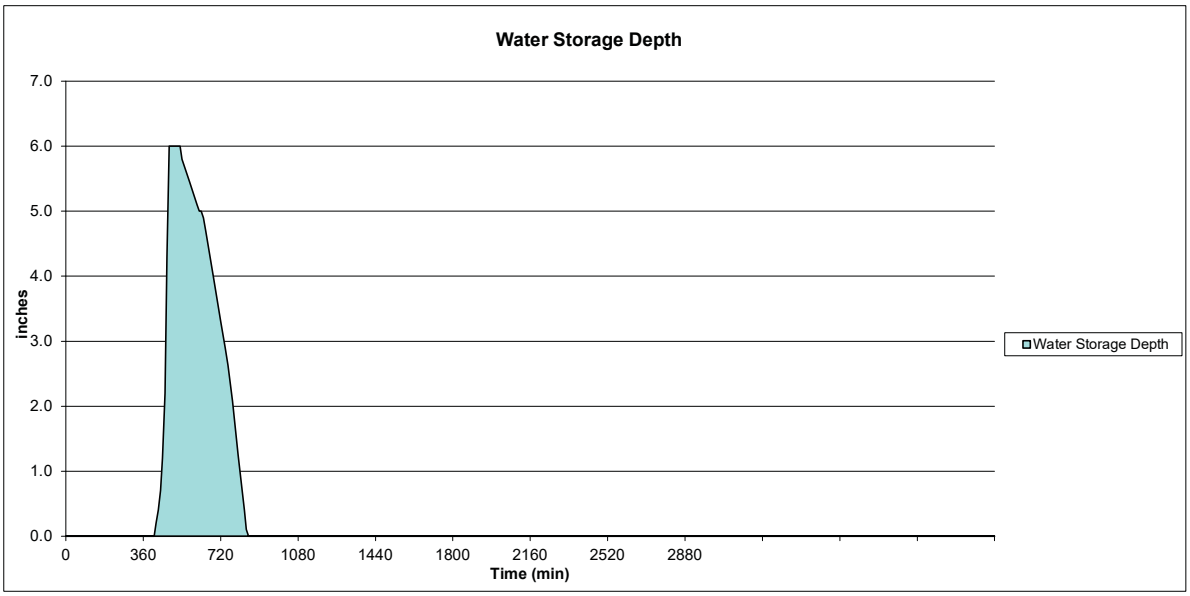




Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 5C
Design Run: Flow Control







Project Name: Three Mile Prairie
Permit Number: NA
Catchment ID: 5C
Design Run: Destination