

Hydrograph Report

Hydraflow Hydrographs by Intelisolve v9.22

Tuesday, Oct 13, 2020

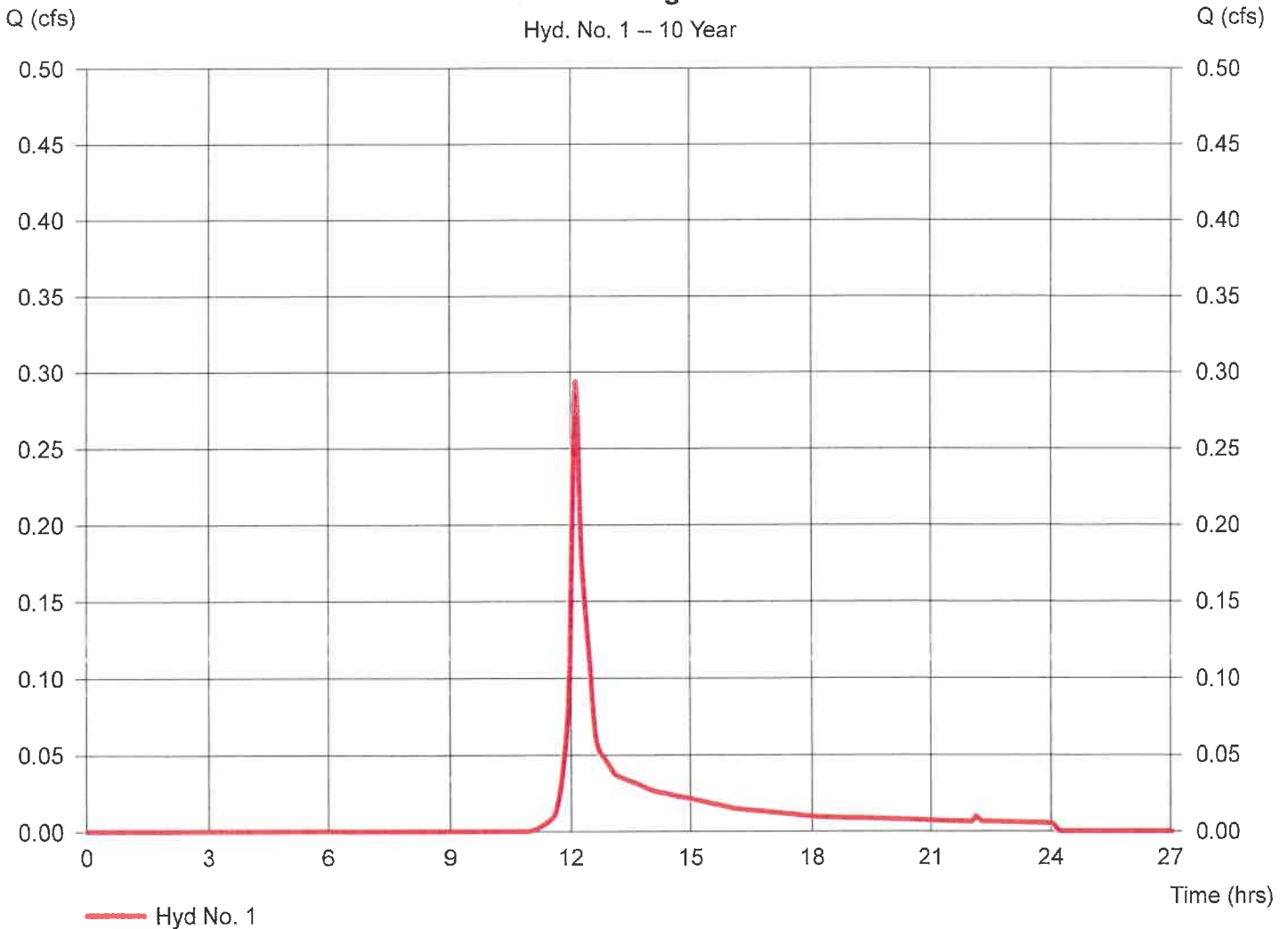
Hyd. No. 1

E.C.B.-1 to Design Point A

Hydrograph type	= SCS Runoff	Peak discharge	= 0.293 cfs
Storm frequency	= 10 yrs	Time to peak	= 12.10 hrs
Time interval	= 3 min	Hyd. volume	= 1,044 cuft
Drainage area	= 0.198 ac	Curve number	= 61.9
Basin Slope	= 2.4 %	Hydraulic length	= 143 ft
Tc method	= LAG	Time of conc. (Tc)	= 7.10 min
Total precip.	= 5.19 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484

E.C.B.-1 to Design Point A

Hyd. No. 1 -- 10 Year



Hydrograph Report

Hydraflow Hydrographs by Intelisolve v9.22

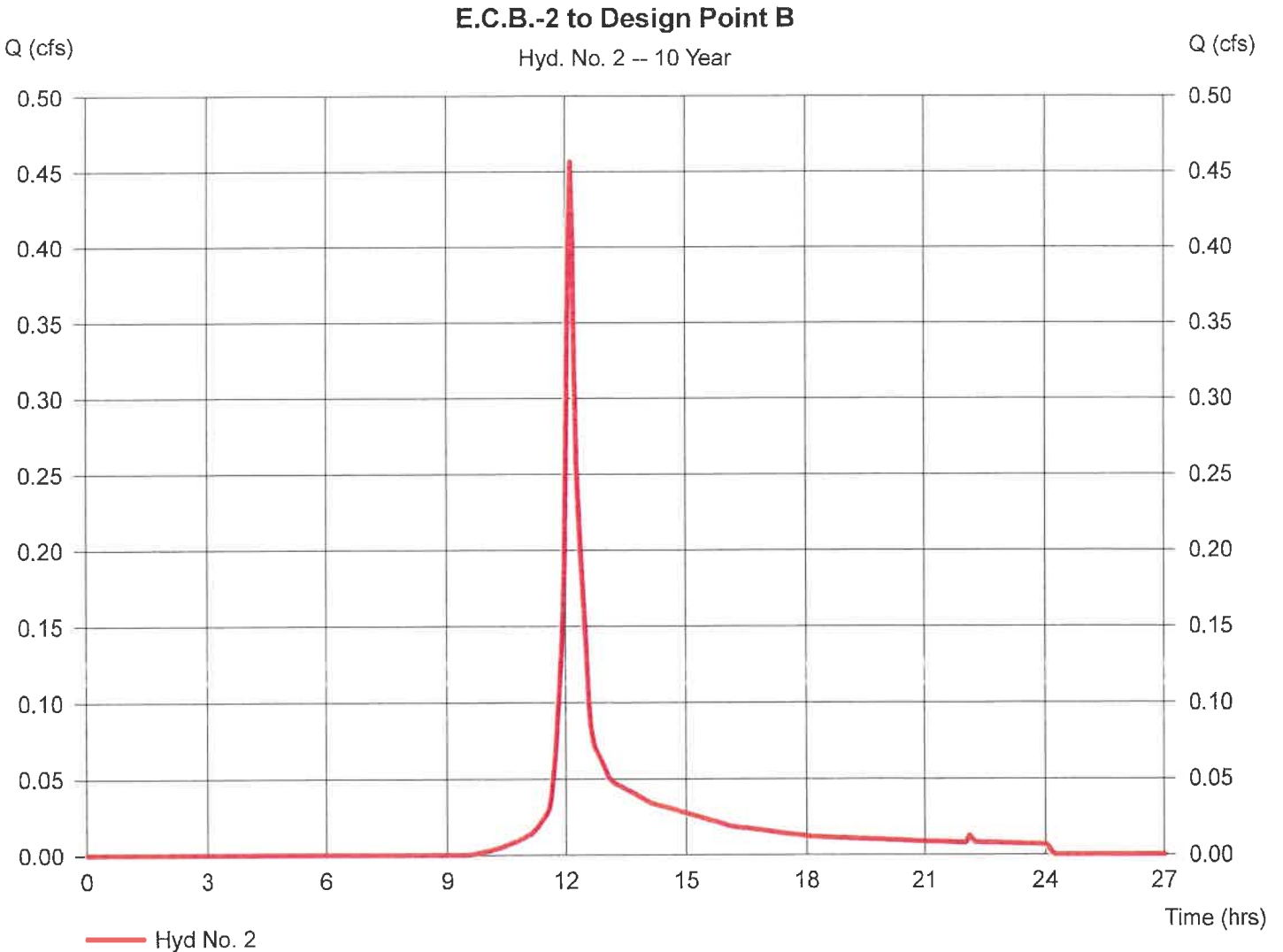
Tuesday, Oct 13, 2020

Hyd. No. 2

E.C.B.-2 to Design Point B

Hydrograph type = SCS Runoff
Storm frequency = 10 yrs
Time interval = 3 min
Drainage area = 0.204 ac
Basin Slope = 2.5 %
Tc method = LAG
Total precip. = 5.19 in
Storm duration = 24 hrs

Peak discharge = 0.457 cfs
Time to peak = 12.10 hrs
Hyd. volume = 1,535 cuft
Curve number = 70.4
Hydraulic length = 145 ft
Time of conc. (Tc) = 5.60 min
Distribution = Type III
Shape factor = 484



Hydrograph Report

Hydraflow Hydrographs by Intelisolve v9.22

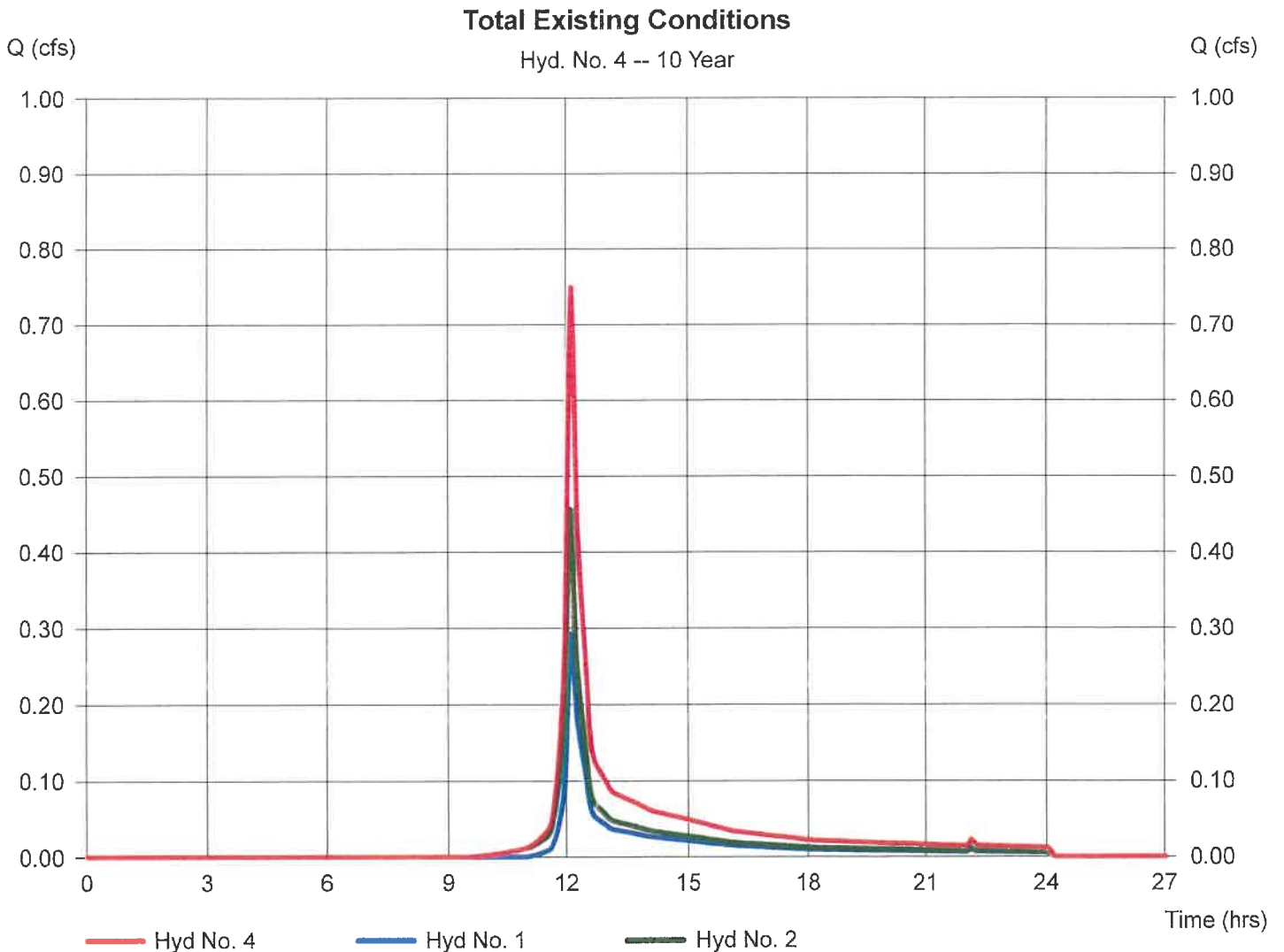
Tuesday, Oct 13, 2020

Hyd. No. 4

Total Existing Conditions

Hydrograph type = Combine
Storm frequency = 10 yrs
Time interval = 3 min
Inflow hyds. = 1, 2

Peak discharge = 0.750 cfs
Time to peak = 12.10 hrs
Hyd. volume = 2,579 cuft
Contrib. drain. area = 0.402 ac



Hydrograph Report

Hydraflow Hydrographs by Intelisolve v9.22

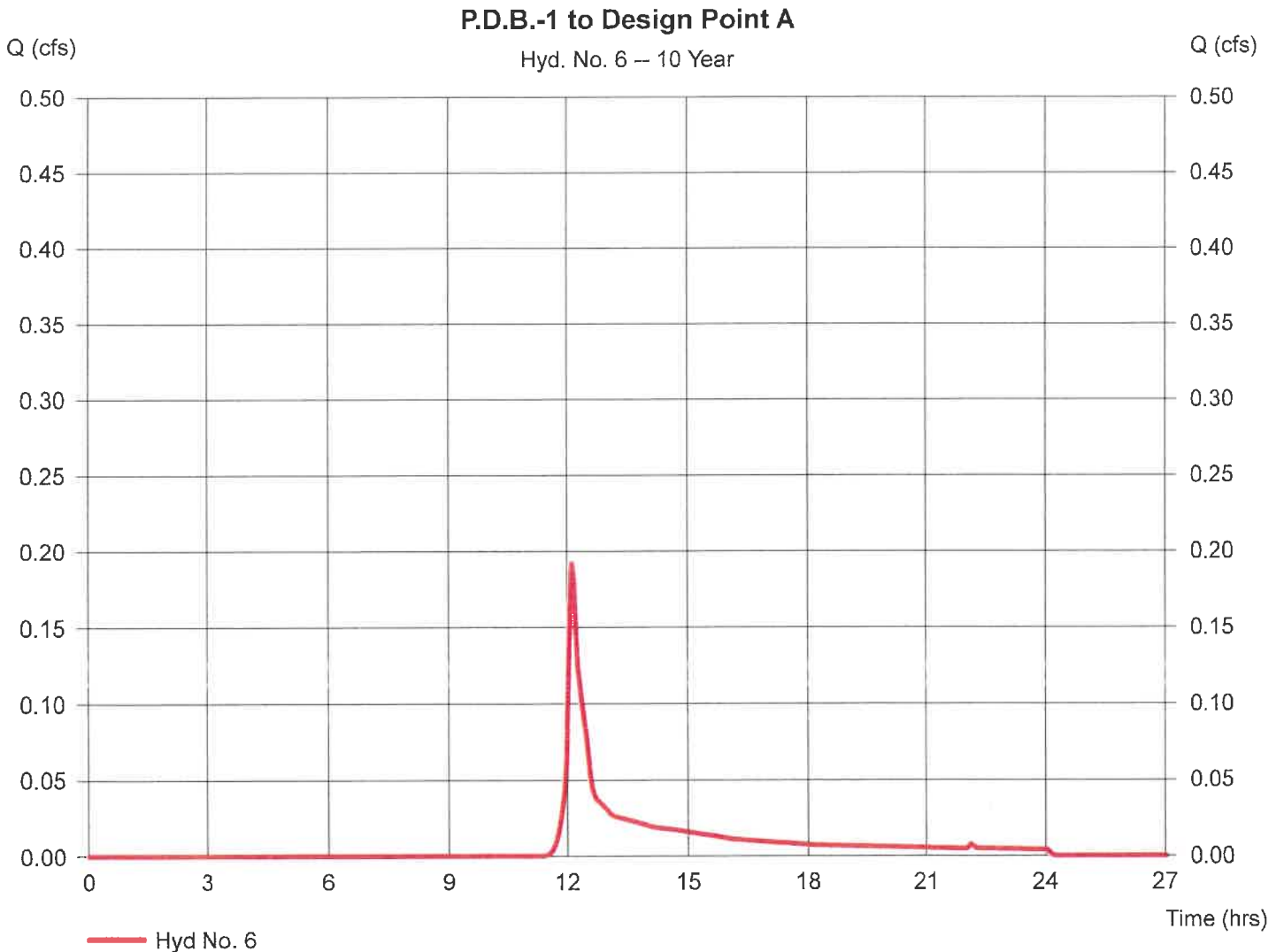
Tuesday, Oct 13, 2020

Hyd. No. 6

P.D.B.-1 to Design Point A

Hydrograph type = SCS Runoff
Storm frequency = 10 yrs
Time interval = 3 min
Drainage area = 0.166 ac
Basin Slope = 2.3 %
Tc method = LAG
Total precip. = 5.19 in
Storm duration = 24 hrs

Peak discharge = 0.192 cfs
Time to peak = 12.10 hrs
Hyd. volume = 724 cuft
Curve number = 58.1
Hydraulic length = 150 ft
Time of conc. (Tc) = 8.30 min
Distribution = Type III
Shape factor = 484



Hydrograph Report

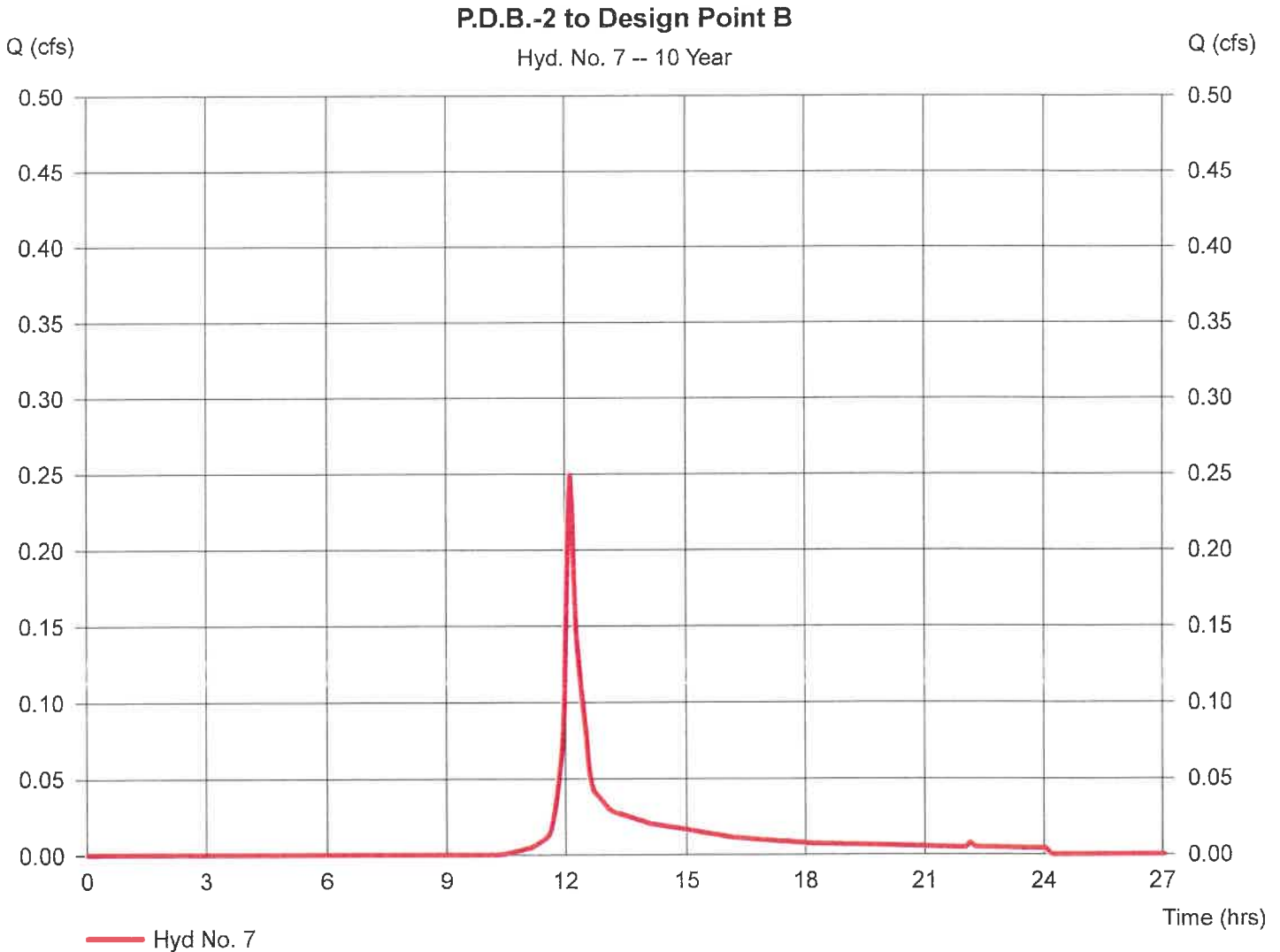
Hydraflow Hydrographs by Intellisolve v9.22

Tuesday, Oct 13, 2020

Hyd. No. 7

P.D.B.-2 to Design Point B

Hydrograph type	= SCS Runoff	Peak discharge	= 0.249 cfs
Storm frequency	= 10 yrs	Time to peak	= 12.10 hrs
Time interval	= 3 min	Hyd. volume	= 856 cuft
Drainage area	= 0.136 ac	Curve number	= 65.9
Basin Slope	= 2.1 %	Hydraulic length	= 163 ft
Tc method	= LAG	Time of conc. (Tc)	= 7.60 min
Total precip.	= 5.19 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484



Hydrograph Report

Hydraflow Hydrographs by Intelisolve v9.22

Tuesday, Oct 13, 2020

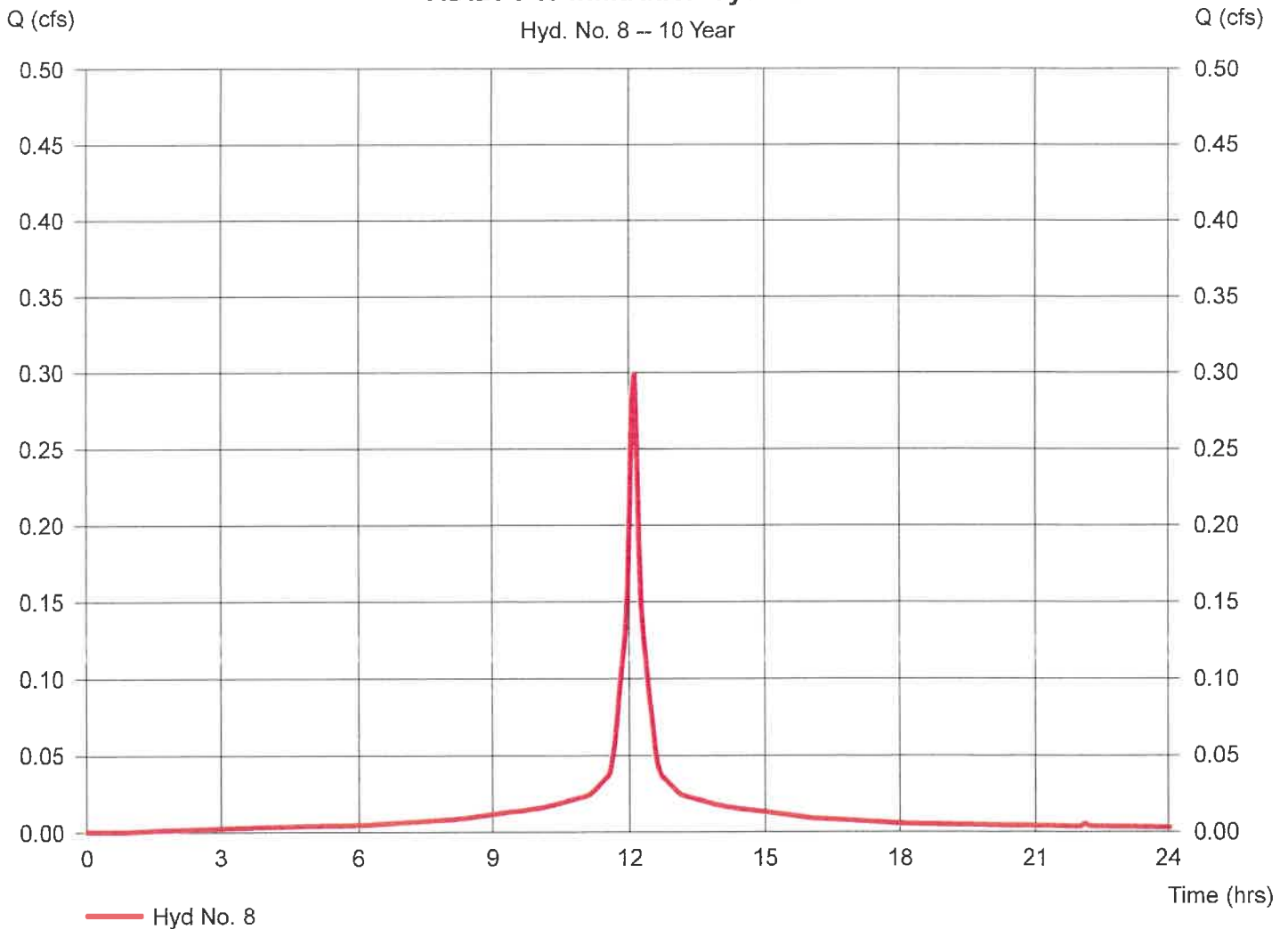
Hyd. No. 8

P.D.B.-3 to Infiltration System 1

Hydrograph type	= SCS Runoff	Peak discharge	= 0.299 cfs
Storm frequency	= 10 yrs	Time to peak	= 12.10 hrs
Time interval	= 3 min	Hyd. volume	= 1,146 cuft
Drainage area	= 0.068 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= USER	Time of conc. (Tc)	= 5.00 min
Total precip.	= 5.19 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484

P.D.B.-3 to Infiltration System 1

Hyd. No. 8 -- 10 Year



Hydrograph Report

Hydraflow Hydrographs by Intelisolve v9.22

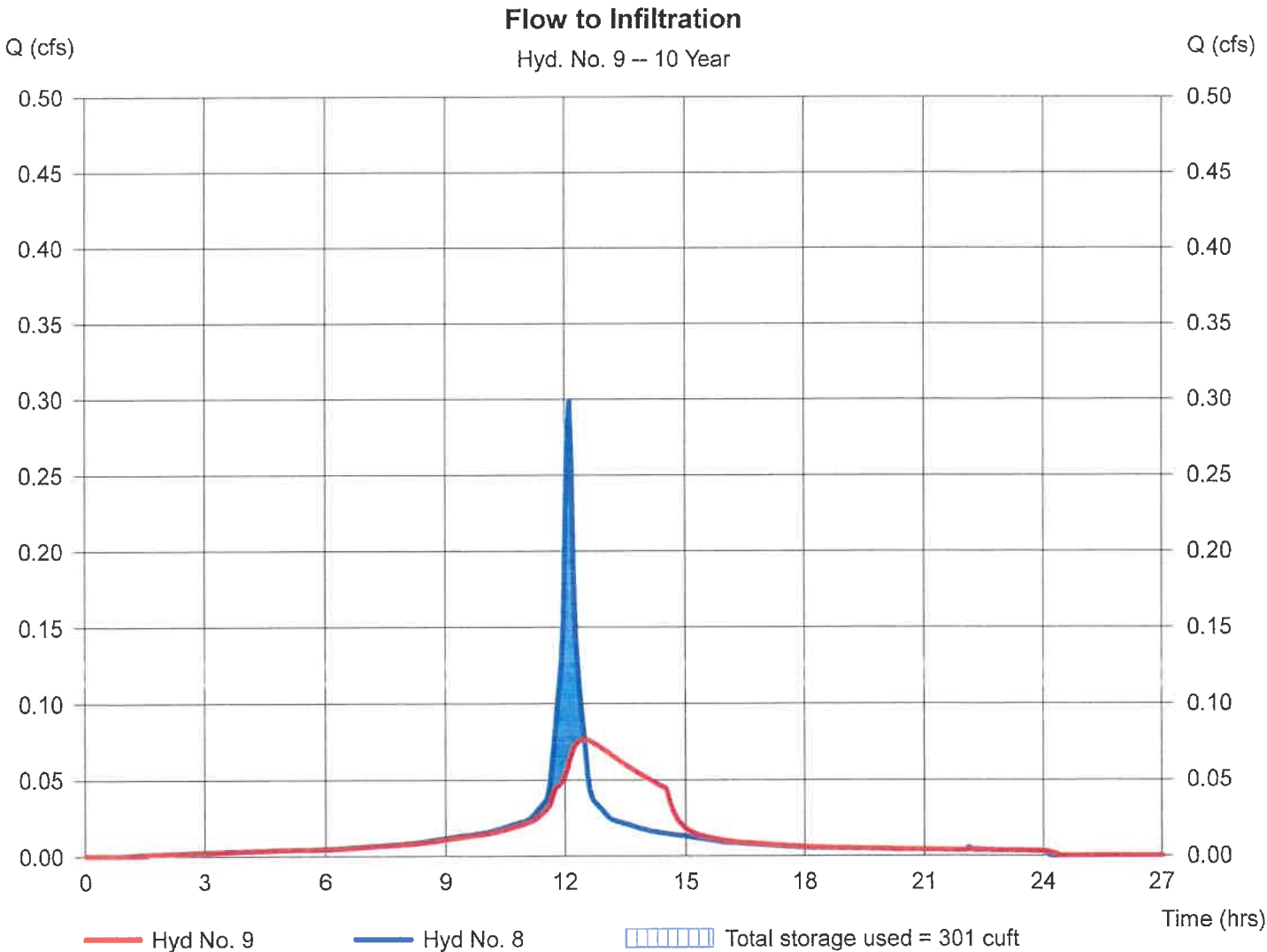
Tuesday, Oct 13, 2020

Hyd. No. 9

Flow to Infiltration

Hydrograph type	= Reservoir	Peak discharge	= 0.077 cfs
Storm frequency	= 10 yrs	Time to peak	= 12.45 hrs
Time interval	= 3 min	Hyd. volume	= 1,145 cuft
Inflow hyd. No.	= 8 - P.D.B.-3 to Infiltration System 1	Max. Elevation	= 141.02 ft
Reservoir name	= Infiltration System 1	Max. Storage	= 301 cuft

Storage Indication method used. Outflow includes exfiltration.



Hydrograph Report

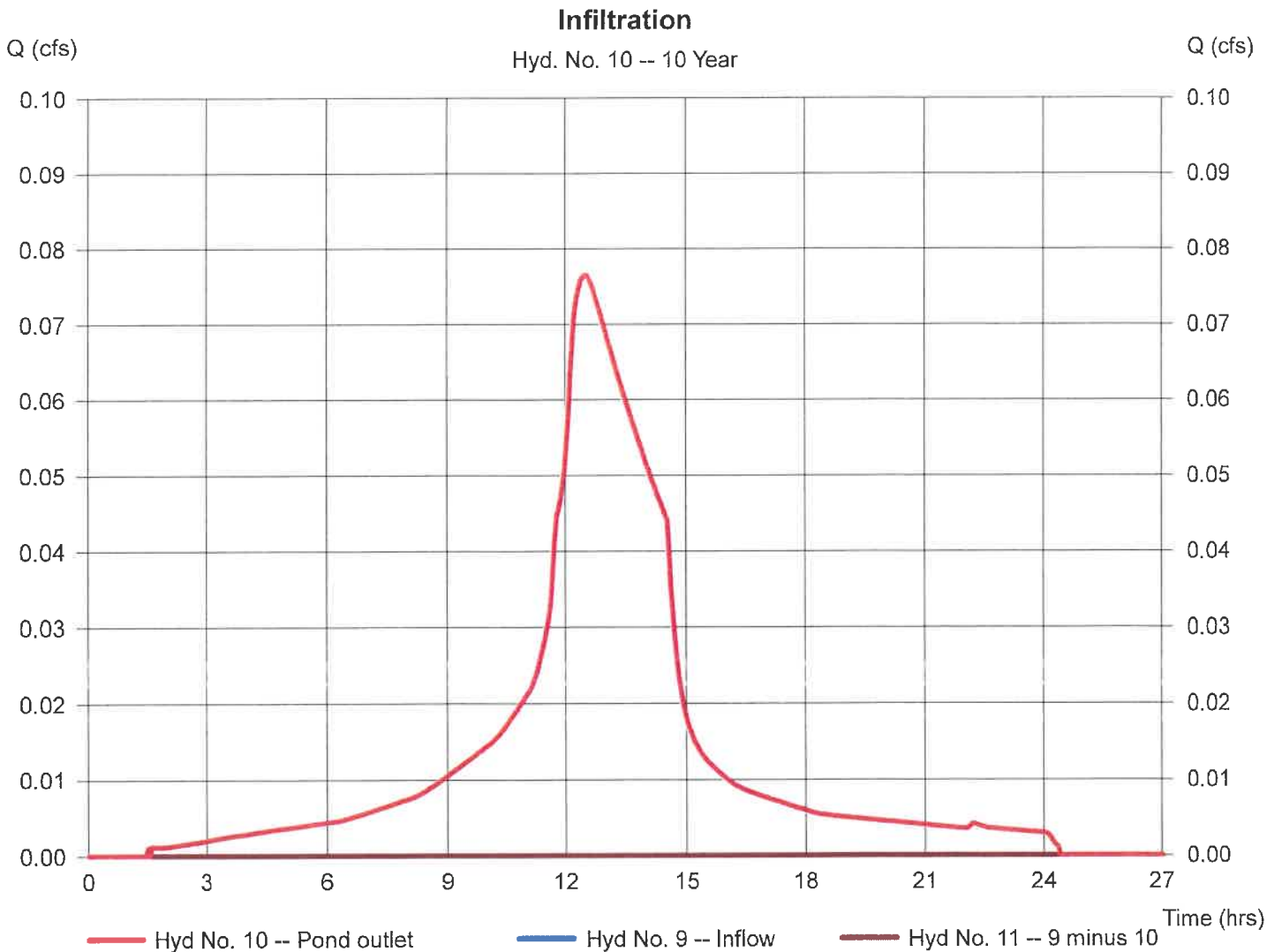
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Tuesday, Oct 13, 2020

Hyd. No. 10

Infiltration

Hydrograph type	= Diversion1	Peak discharge	= 0.077 cfs
Storm frequency	= 10 yrs	Time to peak	= 12.45 hrs
Time interval	= 3 min	Hyd. volume	= 1,145 cuft
Inflow hydrograph	= 9 - Flow to Infiltration	2nd diverted hyd.	= 11
Diversion method	= Pond - Infiltration System 1	Pond structure	= Exfiltration



Hydrograph Report

Hydraflow Hydrographs by Intelisolve v9.22

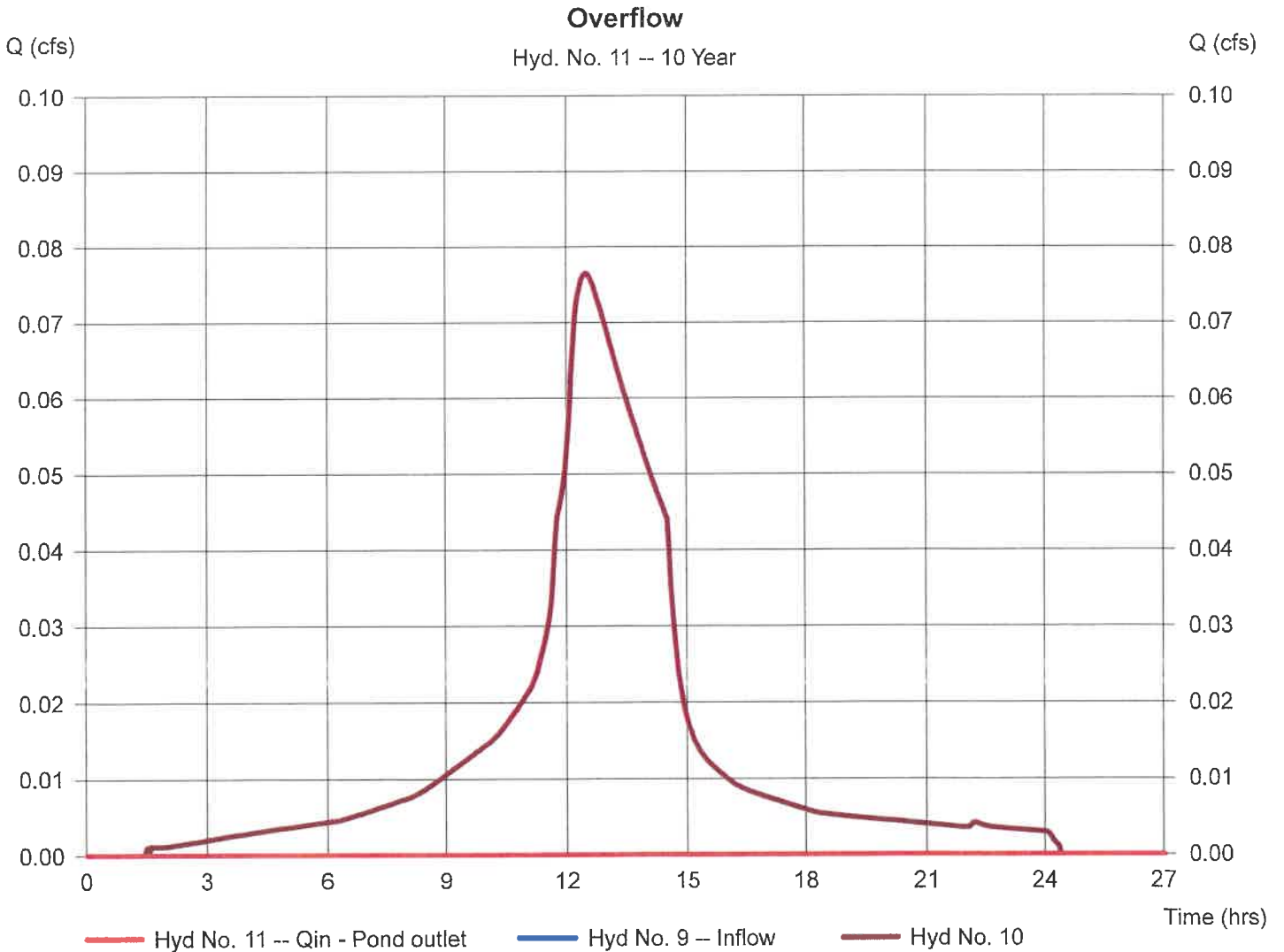
Tuesday, Oct 13, 2020

Hyd. No. 11

Overflow

Hydrograph type = Diversion2
Storm frequency = 10 yrs
Time interval = 3 min
Inflow hydrograph = 9 - Flow to Infiltration
Diversion method = Pond - Infiltration System 1

Peak discharge = 0.000 cfs
Time to peak = 11.45 hrs
Hyd. volume = 0 cuft
2nd diverted hyd. = 10
Pond structure = Exfiltration



Hydrograph Report

Hydraflow Hydrographs by Intelisolve v9.22

Tuesday, Oct 13, 2020

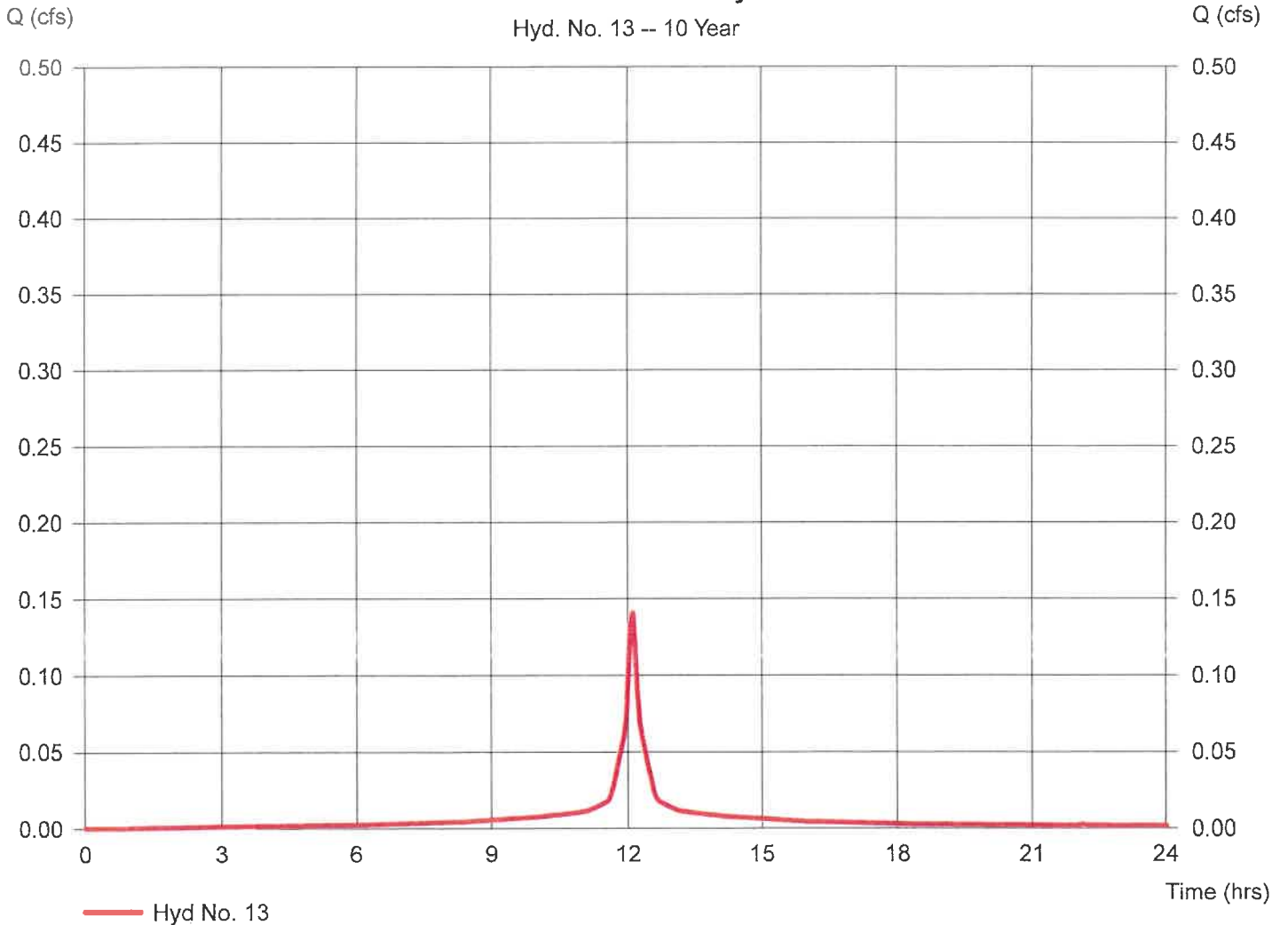
Hyd. No. 13

P.D.B.-4 Tto Infiltration System 2

Hydrograph type	= SCS Runoff	Peak discharge	= 0.141 cfs
Storm frequency	= 10 yrs	Time to peak	= 12.10 hrs
Time interval	= 3 min	Hyd. volume	= 539 cuft
Drainage area	= 0.032 ac	Curve number	= 98
Basin Slope	= 0.0 %	Hydraulic length	= 0 ft
Tc method	= USER	Time of conc. (Tc)	= 5.00 min
Total precip.	= 5.19 in	Distribution	= Type III
Storm duration	= 24 hrs	Shape factor	= 484

P.D.B.-4 Tto Infiltration System 2

Hyd. No. 13 -- 10 Year



Hydrograph Report

Hydraflow Hydrographs by Intelisolve v9.22

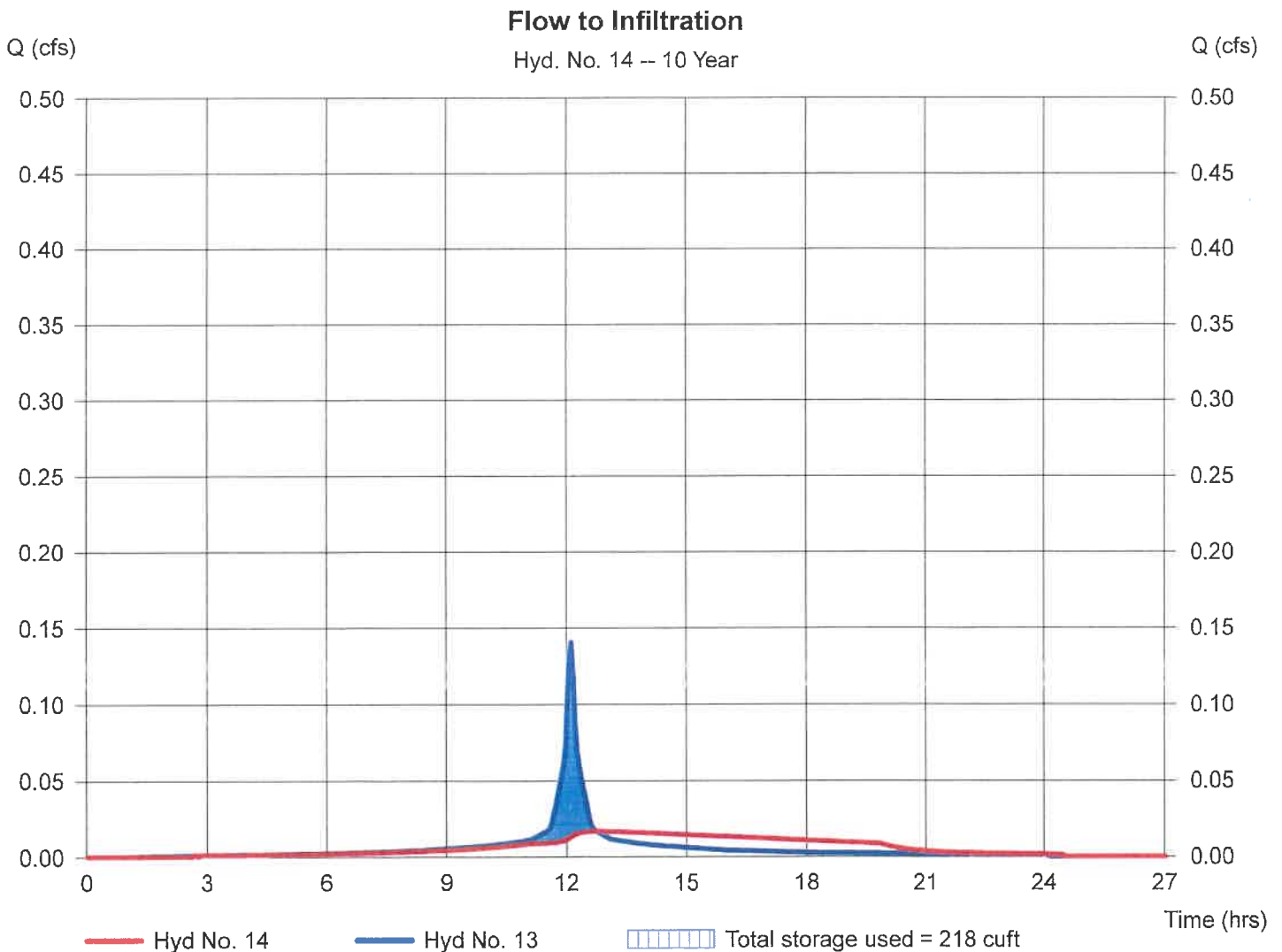
Tuesday, Oct 13, 2020

Hyd. No. 14

Flow to Infiltration

Hydrograph type	= Reservoir	Peak discharge	= 0.017 cfs
Storm frequency	= 10 yrs	Time to peak	= 12.75 hrs
Time interval	= 3 min	Hyd. volume	= 536 cuft
Inflow hyd. No.	= 13 - P.D.B.-4 Tto Infiltration System 2	Max. Elevation	= 140.27 ft
Reservoir name	= Infiltration System 2	Max. Storage	= 218 cuft

Storage Indication method used. Outflow includes exfiltration.



Hydrograph Report

Hydraflow Hydrographs by Intelisolve v9.22

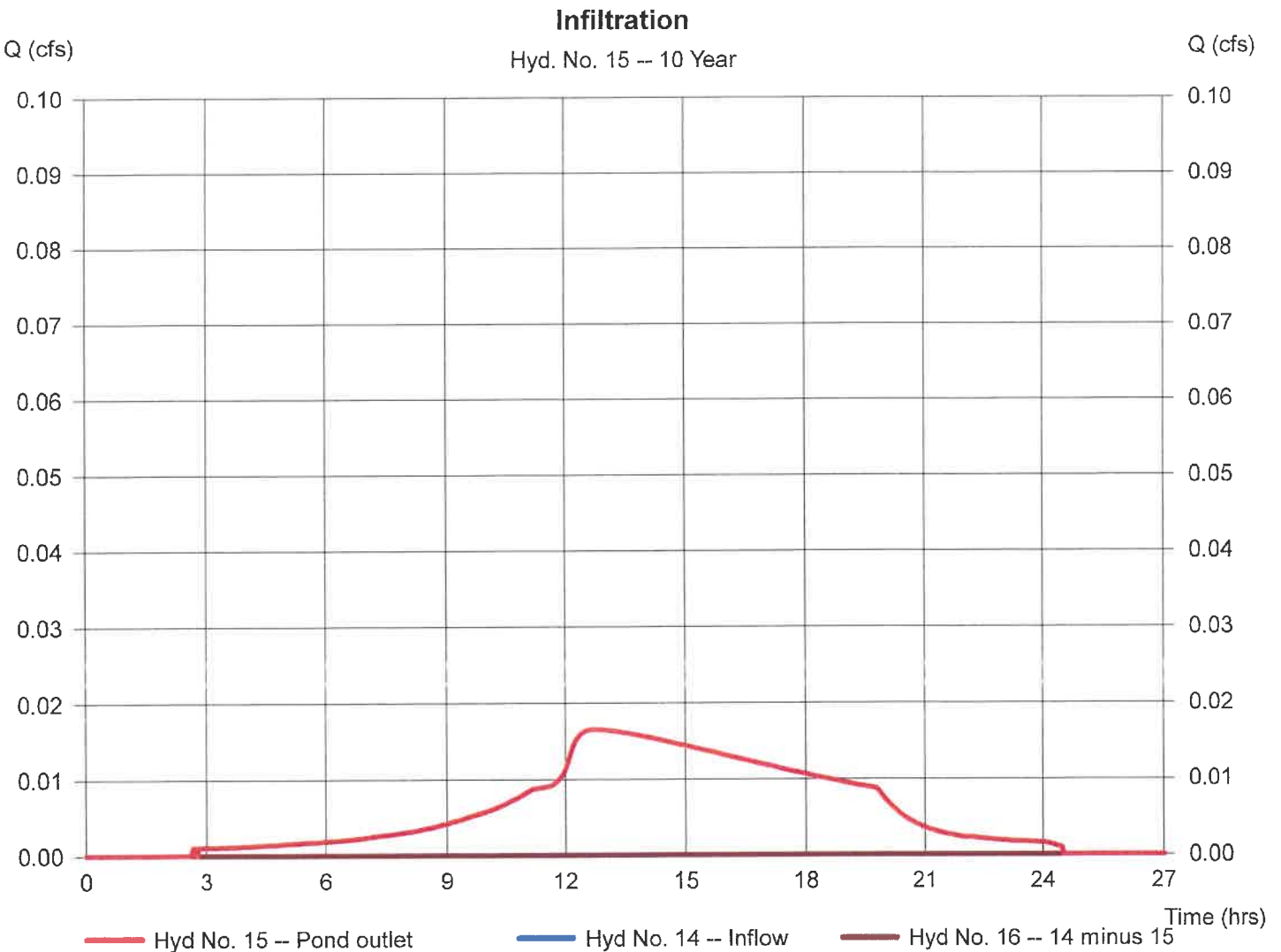
Tuesday, Oct 13, 2020

Hyd. No. 15

Infiltration

Hydrograph type = Diversion1
Storm frequency = 10 yrs
Time interval = 3 min
Inflow hydrograph = 14 - Flow to Infiltration
Diversion method = Pond - Infiltration System 2

Peak discharge = 0.017 cfs
Time to peak = 12.75 hrs
Hyd. volume = 536 cuft
2nd diverted hyd. = 16
Pond structure = Exfiltration



Hydrograph Report

Hydraflow Hydrographs by Intelisolve v9.22

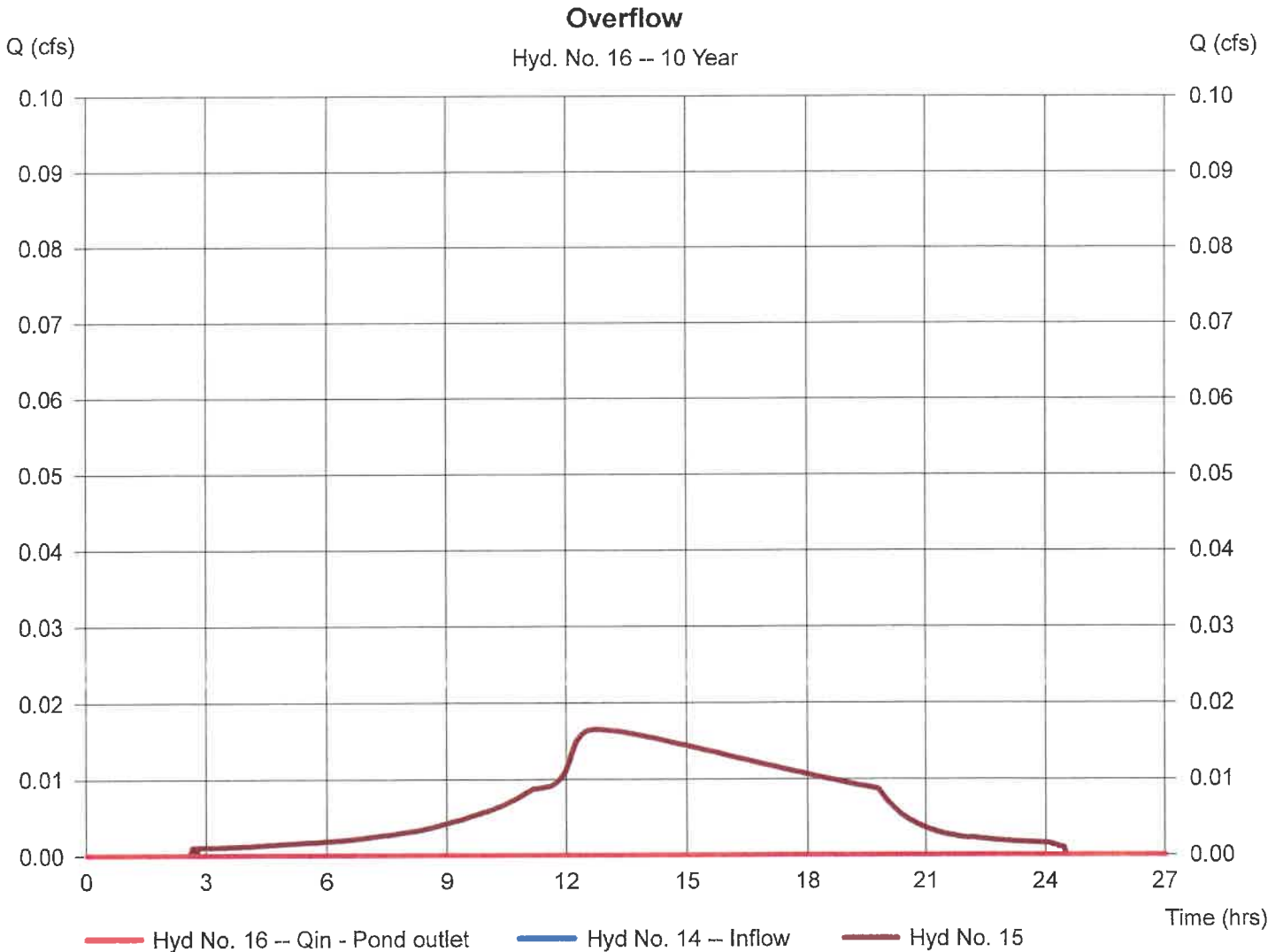
Tuesday, Oct 13, 2020

Hyd. No. 16

Overflow

Hydrograph type = Diversion2
Storm frequency = 10 yrs
Time interval = 3 min
Inflow hydrograph = 14 - Flow to Infiltration
Diversion method = Pond - Infiltration System 2

Peak discharge = 0.000 cfs
Time to peak = 10.25 hrs
Hyd. volume = 0 cuft
2nd diverted hyd. = 15
Pond structure = Exfiltration



Hydrograph Report

Hydraflow Hydrographs by Intelisolve v9.22

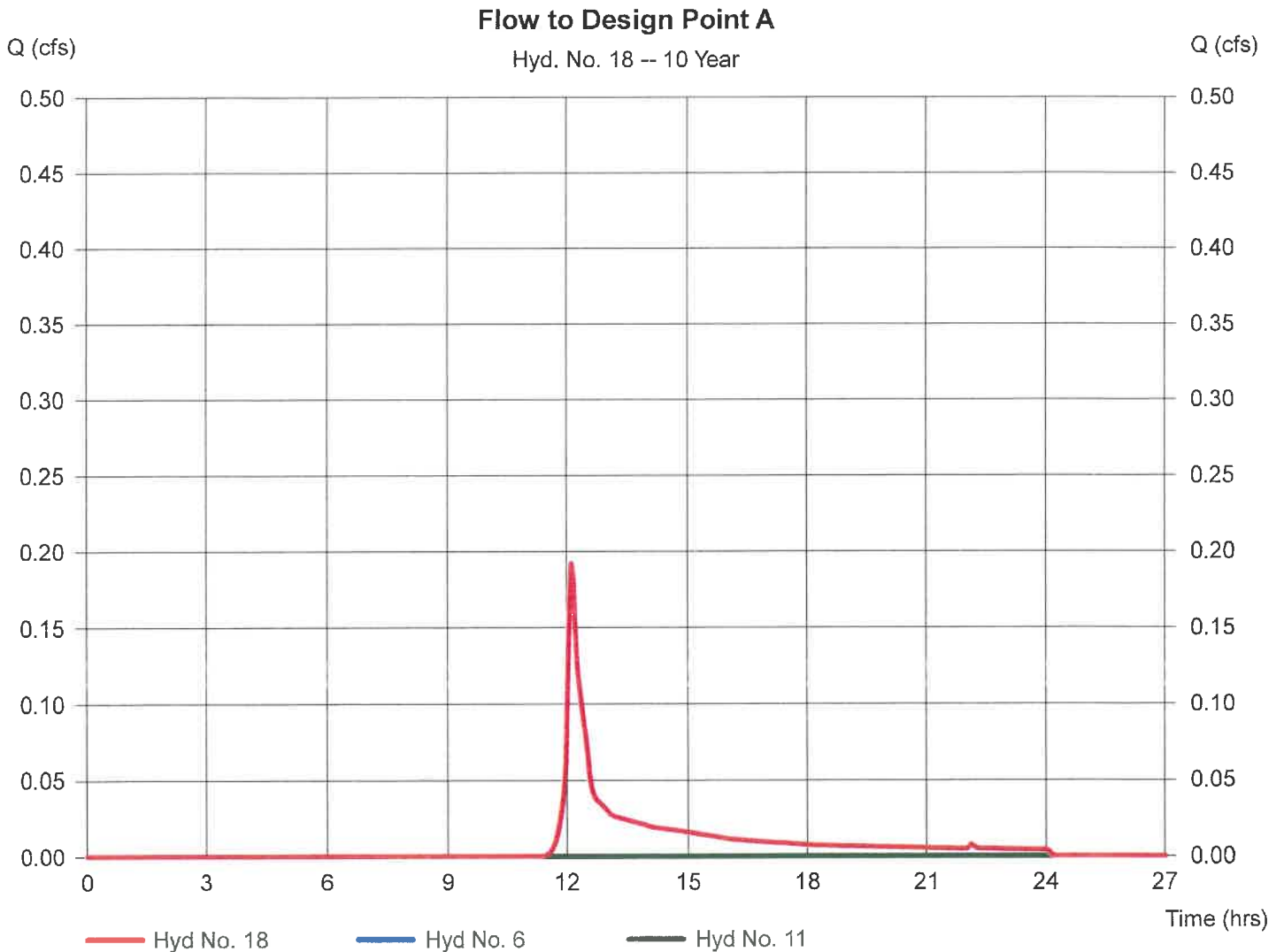
Tuesday, Oct 13, 2020

Hyd. No. 18

Flow to Design Point A

Hydrograph type = Combine
Storm frequency = 10 yrs
Time interval = 3 min
Inflow hyds. = 6, 11

Peak discharge = 0.192 cfs
Time to peak = 12.10 hrs
Hyd. volume = 724 cuft
Contrib. drain. area = 0.166 ac



Hydrograph Report

Hydraflow Hydrographs by Intelisolve v9.22

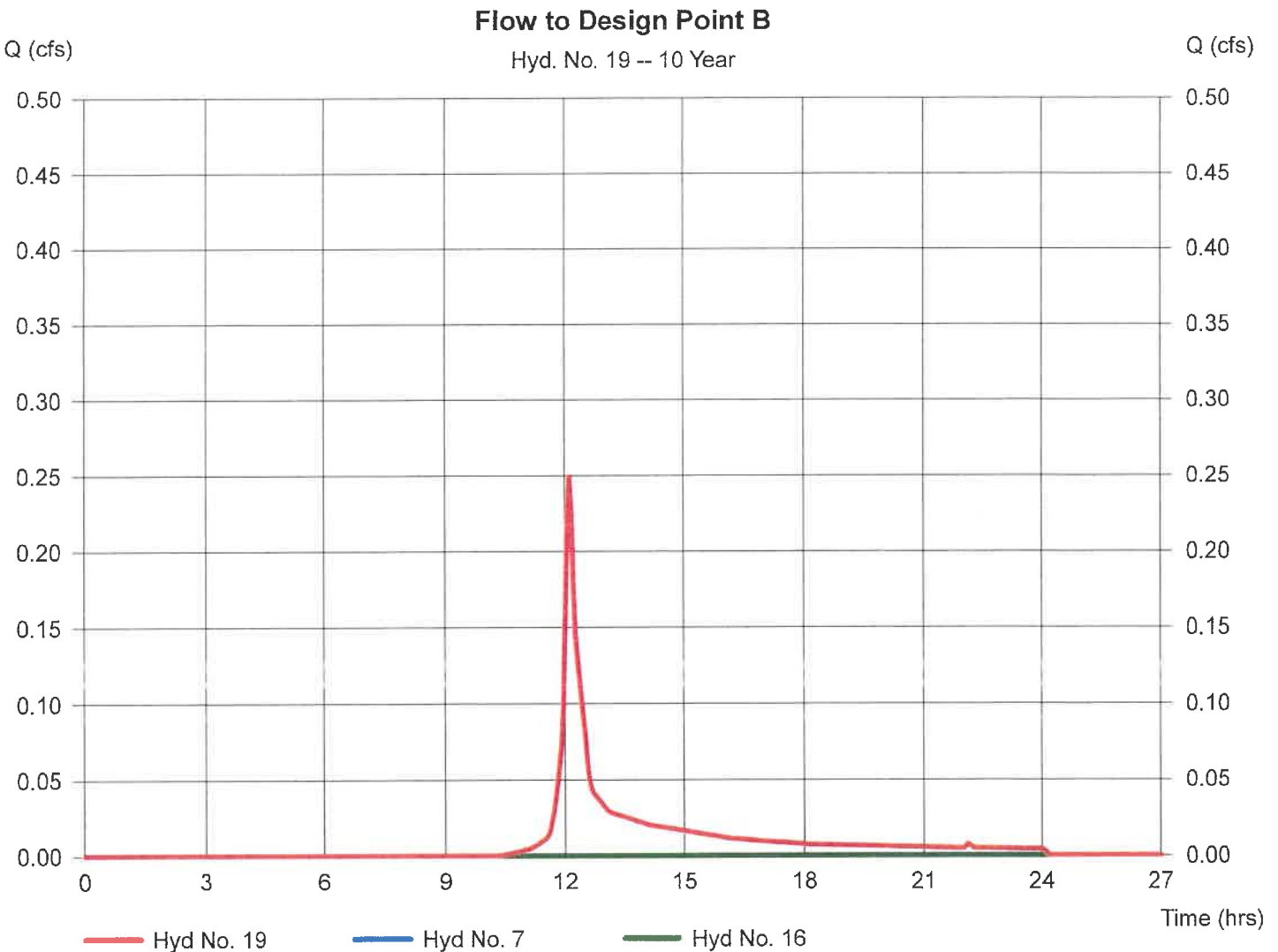
Tuesday, Oct 13, 2020

Hyd. No. 19

Flow to Design Point B

Hydrograph type = Combine
Storm frequency = 10 yrs
Time interval = 3 min
Inflow hyds. = 7, 16

Peak discharge = 0.249 cfs
Time to peak = 12.10 hrs
Hyd. volume = 856 cuft
Contrib. drain. area = 0.136 ac



Hydrograph Report

Hydraflow Hydrographs by Intelisolve v9.22

Tuesday, Oct 13, 2020

Hyd. No. 20

Total Proposed Flow

Hydrograph type = Combine
Storm frequency = 10 yrs
Time interval = 3 min
Inflow hyds. = 6, 7, 11, 16

Peak discharge = 0.441 cfs
Time to peak = 12.10 hrs
Hyd. volume = 1,580 cuft
Contrib. drain. area = 0.302 ac

