

File.... \\S10svr01\M\p\0403734\STORM\BASHER_KILL_PROPOSED.PPW

Elevation (ft)	Planimeter (sq.in)	Area (acres)	A1+A2+sqr(A1*A2) (acres)	Volume (ac-ft)	Volume Sum (ac-ft)
490.00	-----	.1030	.0000	.000	.000
495.00	-----	.2500	.5135	.856	.856

POND VOLUME EQUATIONS

* Incremental volume computed by the Conic Method for Reservoir Volumes.

$$\text{Volume} = (1/3) * (\text{EL2}-\text{EL1}) * (\text{Areal} + \text{Area2} + \text{sq.rt.}(\text{Areal}*\text{Area2}))$$

where: EL1, EL2 = Lower and upper elevations of the increment
Areal, Area2 = Areas computed for EL1, EL2, respectively
Volume = Incremental volume between EL1 and EL2

Type.... Vol: Elev-Area
Name.... POND 1N

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Elevation (ft)	Planimeter (sq.in)	Area (acres)	$A1+A2+\text{sqr}(A1*A2)$ (acres)	Volume (ac-ft)	Volume Sum (ac-ft)
490.00	-----	.1910	.0000	.000	.000
495.00	-----	.3430	.7900	1.317	1.317

POND VOLUME EQUATIONS

* Incremental volume computed by the Conic Method for Reservoir Volumes.

$$\text{Volume} = (1/3) * (\text{EL2}-\text{EL1}) * (\text{Area1} + \text{Area2} + \text{sq.rt.}(\text{Area1}*\text{Area2}))$$

where: EL1, EL2 = Lower and upper elevations of the increment
Area1, Area2 = Areas computed for EL1, EL2, respectively
Volume = Incremental volume between EL1 and EL2

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Elevation (ft)	Planimeter (sq.in)	Area (acres)	A1+A2+sqr(A1*A2) (acres)	Volume (ac-ft)	Volume Sum (ac-ft)
490.00	-----	.4980	.0000	.000	.000
494.00	-----	.6750	1.7528	2.337	2.337

POND VOLUME EQUATIONS

* Incremental volume computed by the Conic Method for Reservoir Volumes.

$$\text{Volume} = (1/3) * (\text{EL2}-\text{EL1}) * (\text{Areal} + \text{Area2} + \text{sq.rt.}(\text{Areal}*\text{Area2}))$$

where: EL1, EL2 = Lower and upper elevations of the increment
Areal, Area2 = Areas computed for EL1, EL2, respectively
Volume = Incremental volume between EL1 and EL2

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Elevation (ft)	Planimeter (sq.in)	Area (acres)	A1+A2+sqr(A1*A2) (acres)	Volume (ac-ft)	Volume Sum (ac-ft)
525.00	-----	.2500	.0000	.000	.000
530.00	-----	.2500	.7500	1.250	1.250

POND VOLUME EQUATIONS

* Incremental volume computed by the Conic Method for Reservoir Volumes.

$$\text{Volume} = (1/3) * (\text{EL2}-\text{EL1}) * (\text{Area1} + \text{Area2} + \text{sq.rt.}(\text{Area1}*\text{Area2}))$$

where: EL1, EL2 = Lower and upper elevations of the increment
Area1,Area2 = Areas computed for EL1, EL2, respectively
Volume = Incremental volume between EL1 and EL2

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Elevation (ft)	Planimeter (sq.in)	Area (acres)	A1+A2+sqrt(A1*A2) (acres)	Volume (ac-ft)	Volume Sum (ac-ft)
664.00	-----	.0220	.0000	.000	.000
670.00	-----	.1650	.2472	.494	.494

POND VOLUME EQUATIONS

* Incremental volume computed by the Conic Method for Reservoir Volumes.

$$\text{Volume} = (1/3) * (\text{EL2}-\text{EL1}) * (\text{Areal} + \text{Area2} + \text{sq.rt.}(\text{Areal}*\text{Area2}))$$

where: EL1, EL2 = Lower and upper elevations of the increment
Areal, Area2 = Areas computed for EL1, EL2, respectively
Volume = Incremental volume between EL1 and EL2

Type.... Vol: Elev-Area
Name.... POND 1S

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Elevation (ft)	Planimeter (sq.in)	Area (acres)	A1+A2+sqr(A1*A2) (acres)	Volume (ac-ft)	Volume Sum (ac-ft)
658.00	-----	.1000	.0000	.000	.000
662.00	-----	.1940	.4333	.578	.578

POND VOLUME EQUATIONS

* Incremental volume computed by the Conic Method for Reservoir Volumes.

$$\text{Volume} = (1/3) * (\text{EL2}-\text{EL1}) * (\text{Areal} + \text{Area2} + \text{sq.rt.}(\text{Areal}*\text{Area2}))$$

where: EL1, EL2 = Lower and upper elevations of the increment
Areal,Area2 = Areas computed for EL1, EL2, respectively
Volume = Incremental volume between EL1 and EL2

Type.... Outlet Input Data
Name.... Outlet 1A

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REQUESTED POND WS ELEVATIONS:

Min. Elev.= 664.00 ft
Increment = .10 ft
Max. Elev.= 670.00 ft

OUTLET CONNECTIVITY

---> Forward Flow Only (UpStream to DnStream)
<--- Reverse Flow Only (DnStream to UpStream)
<---> Forward and Reverse Both Allowed

Structure	No.		Outfall	E1, ft	E2, ft
Orifice-Circular	00	--->	TW	664.400	670.000
Weir-Rectangular	W0	--->	TW	667.150	670.000

TW SETUP, DS Channel

Type.... Outlet Input Data
Name.... Outlet 1A

File.... \\S10svr01\M\p\0403734\STORM\BASHER_KILL_PROPOSED.PPW

OUTLET STRUCTURE INPUT DATA

Structure ID = 00
Structure Type = Orifice-Circular

of Openings = 1
Invert Elev. = 664.40 ft
Diameter = .5000 ft
Orifice Coeff. = .600

Structure ID = W0
Structure Type = Weir-Rectangular

of Openings = 1
Crest Elev. = 667.15 ft
Weir Length = 3.00 ft
Weir Coeff. = 3.330000

Weir TW effects (Use adjustment equation)

Structure ID = TW
Structure Type = TW SETUP, DS Channel

FREE OUTFALL CONDITIONS SPECIFIED

CONVERGENCE TOLERANCES...
Maximum Iterations= 40
Min. TW tolerance = .01 ft
Max. TW tolerance = .01 ft
Min. HW tolerance = .01 ft
Max. HW tolerance = .01 ft
Min. Q tolerance = .00 cfs
Max. Q tolerance = .00 cfs

Type.... Outlet Input Data
Name.... Outlet 1B

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REQUESTED POND WS ELEVATIONS:

Min. Elev.= 664.00 ft
Increment = .10 ft
Max. Elev.= 670.00 ft

OUTLET CONNECTIVITY

----> Forward Flow Only (UpStream to DnStream)
<---- Reverse Flow Only (DnStream to UpStream)
<----> Forward and Reverse Both Allowed

Structure	No.	Outfall	E1, ft	E2, ft
Orifice-Circular	00	----> TW	665.700	670.000
Weir-Rectangular	W0	----> TW	667.800	670.000

TW SETUP, DS Channel

Type.... Outlet Input Data
Name.... Outlet 1B

File.... \\S10svr01\M\p\0403734\STORM\BASHER_KILL_PROPOSED.PPW

OUTLET STRUCTURE INPUT DATA

Structure ID = 00
Structure Type = Orifice-Circular

of Openings = 1
Invert Elev. = 665.70 ft
Diameter = .3330 ft
Orifice Coeff. = .600

Structure ID = W0
Structure Type = Weir-Rectangular

of Openings = 1
Crest Elev. = 667.80 ft
Weir Length = 4.00 ft
Weir Coeff. = 3.330000

Weir TW effects (Use adjustment equation)

Structure ID = TW
Structure Type = TW SETUP, DS Channel

FREE OUTFALL CONDITIONS SPECIFIED

CONVERGENCE TOLERANCES...
Maximum Iterations= 40
Min. TW tolerance = .01 ft
Max. TW tolerance = .01 ft
Min. HW tolerance = .01 ft
Max. HW tolerance = .01 ft
Min. Q tolerance = .00 cfs
Max. Q tolerance = .00 cfs