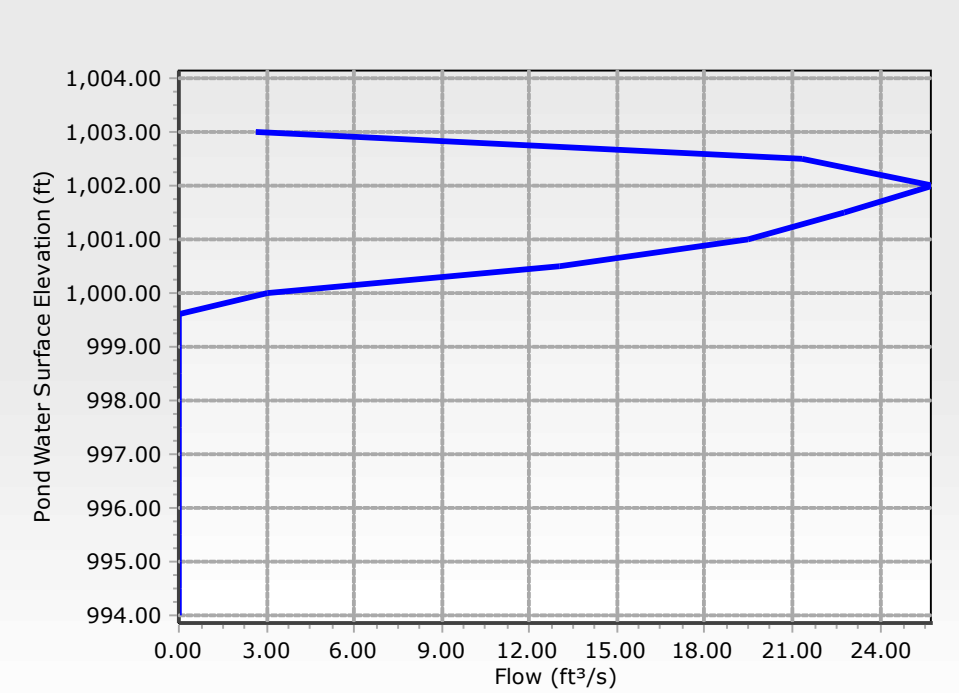
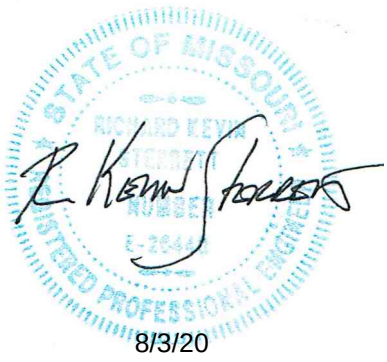
Composite Outlet Structure Detailed Report: Composite Outlet Structure - 3

Outlet Structure (Orifice)			
Orifice	Circular Orifice	Orifice Coefficient	0.600
Number of Openings	6	Orifice Diameter	12.0 in

Outlet Structure (Common)	
Elevation	999.60 ft





RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Orifice - 1 (Orifice-Circular)

Upstream ID = (Pond Water Surface)
Downstream ID = Culvert - 3 (Culvert-Circular)

Water Surface Elevation (ft)	Device Flow (ft³/s)	(into) Headwater Hydraulic Grade Line (ft)	Converge Downstream Hydraulic Grade Line (ft)	Next Downstream Hydraulic Grade Line (ft)
994.00	0.00	0.00	0.00	0.00
994.50	0.00	0.00	0.00	0.00
995.00	0.00	0.00	0.00	0.00
995.50	0.00	0.00	0.00	0.00
996.00	0.00	0.00	0.00	0.00
996.50	0.00	0.00	0.00	0.00
997.00	0.00	0.00	0.00	0.00

Composite Outlet Structure Detailed Report: Composite Outlet Structure - 3

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Orifice - 1 (Orifice-Circular)

Upstream ID = (Pond Water Surface)
Downstream ID = Culvert - 3 (Culvert-Circular)

Water Surface Elevation (ft)	Device Flow (ft^3/s)	(into) Headwater Hydraulic Grade Line (ft)	Converge Downstream Hydraulic Grade Line (ft)	Next Downstream Hydraulic Grade Line (ft)
997.50	0.00	0.00	0.00	0.00
998.00	0.00	0.00	0.00	0.00
998.50	0.00	0.00	0.00	0.00
999.00	0.00	0.00	0.00	0.00
999.50	0.00	0.00	0.00	0.00
999.60	0.00	0.00	0.00	0.00
1,000.00	3.01	1,000.00	Free Outfall	998.82
1,000.50	13.03	1,000.50	999.79	999.79
1,001.00	19.45	1,001.00	1,000.26	1,000.26
1,001.50	22.75	1,001.50	1,000.49	1,000.49
1,002.00	25.81	1,002.00	1,000.71	1,000.71
1,002.50	21.30	1,002.50	1,001.62	1,001.62
1,003.00	2.64	1,003.00	1,002.99	1,002.99

Downstream Hydraulic Grade Line Error (ft)	Convergence Error (ft^3/s)	Downstream Channel Tailwater (ft)	Tailwater Error (ft)
0.00	0.00	(N/A)	0.00
0.00	0.00	(N/A)	0.00
0.00	0.00	(N/A)	0.00
0.00	0.00	(N/A)	0.00
0.00	0.00	(N/A)	0.00
0.00	0.00	(N/A)	0.00
0.00	0.00	(N/A)	0.00
0.00	0.00	(N/A)	0.00
0.00	0.00	(N/A)	0.00
0.00	0.00	(N/A)	0.00
0.00	0.00	(N/A)	0.00
0.00	0.00	(N/A)	0.00
0.00	0.00	(N/A)	0.00
0.00	0.00	(N/A)	0.00
0.00	0.00	(N/A)	0.00
0.00	0.00	(N/A)	0.00
0.00	0.00	(N/A)	0.00
0.00	0.00	(N/A)	0.00
0.00	0.00	(N/A)	0.00
0.00	0.00	(N/A)	0.00

Message
WS below an invert; no flow.
WS below an invert; no flow.

Composite Outlet Structure Detailed Report: Composite Outlet Structure - 3

RATING TABLE FOR ONE OUTLET TYPE
Structure ID = Orifice - 1 (Orifice-Circular)

Upstream ID = (Pond Water Surface)
Downstream ID = Culvert - 3 (Culvert-Circular)

Message
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
WS below an invert; no flow.
CRIT.DEPTH CONTROL Vh= .105ft Dcr= .294ft CRIT.DEPTH Hev= .00ft
CRIT.DEPTH CONTROL Vh= .270ft Dcr= .630ft CRIT.DEPTH Hev= .00ft
H =.74
H =1.01
H =1.29
H =.88
H =.01

Composite Outlet Structure Detailed Report: Composite Outlet Structure - 3

Composite Rating Table
Tailwater Elevation = Free Outfall (Composite Outlet Structure - 3)

Water Surface Elevation (ft)	Flow (ft^3/s)	Tailwater Elevation (ft)	Convergence Error (ft)
994.00	0.00	(N/A)	0.00
994.50	0.00	(N/A)	0.00
995.00	0.00	(N/A)	0.00
995.50	0.00	(N/A)	0.00
996.00	0.00	(N/A)	0.00
996.50	0.00	(N/A)	0.00
997.00	0.00	(N/A)	0.00
997.50	0.00	(N/A)	0.00
998.00	0.00	(N/A)	0.00
998.50	0.00	(N/A)	0.00
999.00	0.00	(N/A)	0.00
999.50	0.00	(N/A)	0.00
999.60	0.00	(N/A)	0.00
1,000.00	3.01	(N/A)	0.00
1,000.50	13.03	(N/A)	0.00
1,001.00	19.44	(N/A)	0.00
1,001.50	22.75	(N/A)	0.00
1,002.00	25.82	(N/A)	0.00
1,002.50	37.94	(N/A)	0.00
1,003.00	49.81	(N/A)	0.00

Contributing Structures
(no Q: Riser - 3,Orifice - 1,Culvert - 3)
(no Q: Riser - 3,Orifice - 1,Culvert - 3)
(no Q: Riser - 3,Orifice - 1,Culvert - 3)
(no Q: Riser - 3,Orifice - 1,Culvert - 3)
(no Q: Riser - 3,Orifice - 1,Culvert - 3)
(no Q: Riser - 3,Orifice - 1,Culvert - 3)
(no Q: Riser - 3,Orifice - 1,Culvert - 3)
(no Q: Riser - 3,Orifice - 1,Culvert - 3)
(no Q: Riser - 3,Orifice - 1,Culvert - 3)
(no Q: Riser - 3,Orifice - 1,Culvert - 3)
(no Q: Riser - 3,Orifice - 1,Culvert - 3)
(no Q: Riser - 3,Orifice - 1,Culvert - 3)

Composite Outlet Structure Detailed Report: Composite Outlet Structure - 3

Composite Rating Table
Tailwater Elevation = Free Outfall (Composite Outlet Structure - 3)

Contributing Structures
(no Q: Riser - 3,Orifice - 1,Culvert - 3)
Orifice - 1,Culvert - 3 (no Q: Riser - 3)
Orifice - 1,Culvert - 3 (no Q: Riser - 3)
Orifice - 1,Culvert - 3 (no Q: Riser - 3)
Orifice - 1,Culvert - 3 (no Q: Riser - 3)
Orifice - 1,Culvert - 3 (no Q: Riser - 3)
Riser - 3,Orifice - 1,Culvert - 3
Riser - 3,Orifice - 1,Culvert - 3