

Pond Report

Hydraflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2025

Friday, 09 / 5 / 2025

Pond No. 3 - Forebay

Pond Data

Contours -User-defined contour areas. Conic method used for volume calculation. Beginning Elevation = 131.00 ft

Stage / Storage Table

Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (cuft)	Total storage (cuft)
0.00	131.00	180	0	0
1.00	132.00	480	318	318
2.00	133.00	840	652	970

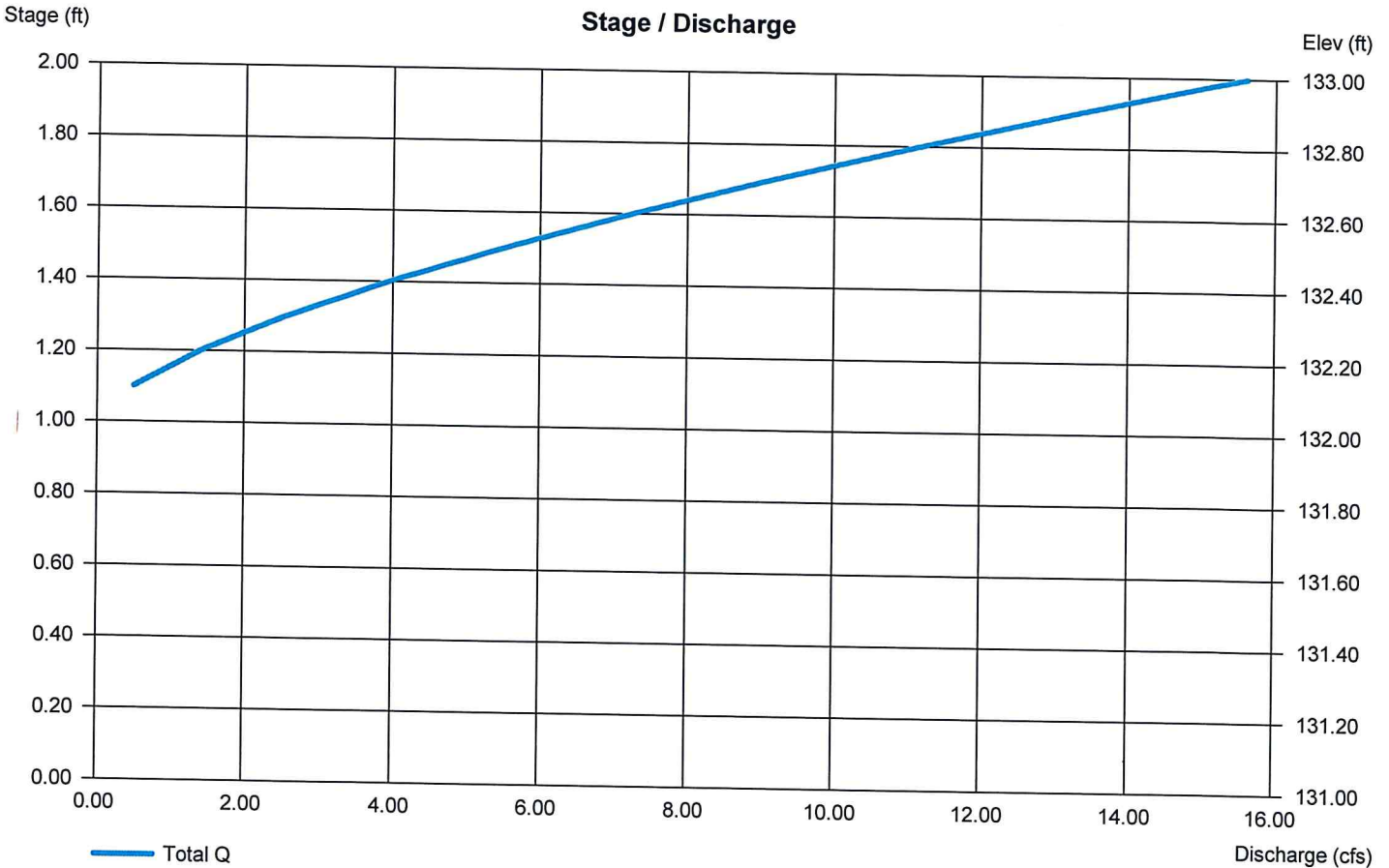
Culvert / Orifice Structures

	[A]	[B]	[C]	[PrfRsr]
Rise (in)	= 0.00	0.00	0.00	0.00
Span (in)	= 0.00	0.00	0.00	0.00
No. Barrels	= 0	0	0	0
Invert El. (ft)	= 0.00	0.00	0.00	0.00
Length (ft)	= 0.00	0.00	0.00	0.00
Slope (%)	= 0.00	0.00	0.00	n/a
N-Value	= .013	.013	.013	n/a
Orifice Coeff.	= 0.60	0.60	0.60	0.60
Multi-Stage	= n/a	No	No	No

Weir Structures

	[A]	[B]	[C]	[D]
Crest Len (ft)	= 6.00	0.00	0.00	0.00
Crest El. (ft)	= 132.00	0.00	0.00	0.00
Weir Coeff.	= 2.60	3.33	3.33	3.33
Weir Type	= Broad	---	---	---
Multi-Stage	= No	No	No	No
Exfil.(in/hr)	= 0.000 (by Wet area)			
TW Elev. (ft)	= 0.00			

Note: Culvert/Orifice outflows are analyzed under inlet (ic) and outlet (oc) control. Weir risers checked for orifice conditions (ic) and submergence (s).



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PROJECT NAME: _____

PROJECT NO: _____ SHEET NO. _____ OF _____

BY: _____ DATE _____

SCALE: _____

RIPRAP SPLASH PAD

$$L = \frac{1.7Q}{D^{3/2}} + 8D \quad Q_{25} = 5.8 \text{ CFS}$$

$$L = \frac{1.7(5.8)}{(1.25)^{3/2}} + 8(1.25) = 17 \text{ LF}$$

$$W = 3D + 0.4L = 3(1.25) + 0.4(17) = 11 \text{ FEET}$$

$$d_{50} = \left(\frac{0.02}{TW} \right) \left(\frac{Q}{D} \right)^{4/3} = 0.25 \text{ FEET} = 3 \text{ INCHES}$$

USE MODIFIED RIPRAP