

Sediment Trap Sizing
Windsor Solar One
Revised March 2024

TST #	Tributary Acreage, ac	<i>(134 cy / acre)*</i>	
		Volume Required Below Top of Spillway, cf	Volume Provided in Permanent Basin Below Top of Spillway, cf
1	11.0	39,798	44,039

* Per 2002 Connecticut Guidelines for Soil Erosion and Sediment Control

Summary for Pond 1: (new Pond)

[43] Hint: Has no inflow (Outflow=Zero)

Volume	Invert	Avail.Storage	Storage Description
#1	70.00'	1.011 af	230.00'W x 105.00'L x 1.70'H Prismatoid Z=3.0

Device	Routing	Invert	Outlet Devices
#1	Primary	71.00'	20.0' long + 1.0 ' SideZ x 5.0' breadth Broad-Crested Rectangular Weir Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 4.00 4.50 5.00 5.50 Coef. (English) 2.34 2.50 2.70 2.68 2.68 2.66 2.66 2.65 2.65 2.65 2.65 2.67 2.66 2.68 2.70 2.74 2.79 2.88

Primary OutFlow Max=0.00 cfs @ 5.00 hrs HW=0.00' (Free Discharge)

←1=**Broad-Crested Rectangular Weir**(Controls 0.00 cfs)

Pond 1: (new Pond)

Hydrograph

