

**STAGE-STORAGE FOR IRREGULAR GEOMETRY**

Project: Black Hills Self Storage  
 Basin ID: Drainage Easement/ Detention Pond Volume

**Design Information (Input):**

From the pond site grading plan, enter water surface elevations and measured contour areas in ascending order.

Water Surface Elevation ft (input)	Eq-elev. Contour Area square feet (input)	Volume above Datum acre-ft (output)
3188.12	0	0.00
3189.00	5,715	0.06
3190.00	8,780	0.22
3191.00	12,687	0.47
3192.00	17,127	0.81
3193.00	22,137	1.26
3194.00	27,994	1.84
3195.00	34,985	2.56
3196.00	38,951	3.41
3197.00	42,933	4.35
3198.00	46,996	5.38
3199.00	50,914	6.51
3200.00	54,982	7.72

*Vol*  
*ft<sup>3</sup>*

0  
2514.6  
9762.1  
20495.6  
35402.6  
55034.6  
80100.1  
111590  
148558  
189500  
234464  
283419  
336367



