

Maintenance and Life Cycle Cost Estimate
Hagensborg Waterworks District
 based on 190 units

Revised: April 18, 2015

	YEAR	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	Frequency	Cost Ea.														
Pentek DGD-2501-20	1	21.45	21.45	21.45	21.45	21.45	21.45	21.45	21.45	21.45	21.45	21.45	21.45	21.45	21.45	21.45
Harmsco Poly Pleat PP-BB-20-1	2	82.62		82.62		82.62		82.62		82.62		82.62		82.62		82.62
Pentek Housing O-Rings	per filter	5.12	5.12	10.24	5.12	10.24	5.12	10.24	5.12	10.24	5.12	10.24	5.12	10.24	5.12	10.24
Pentek Housing Sump	10	35.00										35.00				
Pro10 Lamp	2	131.85		131.85		131.85		131.85		131.85		131.85		131.85		131.85
Pro10 Sleeve	5	33.52					33.52					33.52				33.52
Pro10 UV Intensity Sensor	5	241.20					241.20					241.20				241.20
Sleeve Breakage 5% per year			1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68	1.68
per Unit per Year		1.68	28.25	247.83	28.25	247.83	302.97	247.83	28.25	247.83	28.25	557.55	28.25	247.83	28.25	247.83
Based on 190 units		318.44	5,366.74	47,087.89	5,366.74	47,087.89	57,563.54	47,087.89	5,366.74	47,087.89	5,366.74	105,934.69	5,366.74	47,087.89	5,366.74	47,087.89
Maintenance Contingency		200.00	500.00	500.00	500.00	500.00	1,000.00	1,250.00	1,500.00	1,750.00	2,000.00	2,250.00	2,500.00	2,750.00	3,000.00	3,250.00
Total Parts:		518.44	5,866.74	47,587.89	5,866.74	47,587.89	58,563.54	48,337.89	6,866.74	48,837.89	7,366.74	108,184.69	7,866.74	49,837.89	8,366.74	50,337.89
Labour		11,700.00	11,700.00	11,700.00	11,700.00	11,700.00	11,700.00	11,700.00	11,700.00	11,700.00	11,700.00	11,700.00	11,700.00	11,700.00	11,700.00	11,700.00
Total Maintenance:		12,218.44	17,566.74	59,287.89	17,566.74	59,287.89	70,263.54	60,037.89	18,566.74	60,537.89	19,066.74	119,884.69	19,566.74	61,537.89	20,066.74	62,037.89
Total Maintenance Per Unit		64.31	92.46	312.04	92.46	312.04	369.81	315.99	97.72	318.62	100.35	630.97	102.98	323.88	105.61	326.52
Cummulative Maintenance Cost:		64.31	156.76	468.81	561.26	873.30	1,243.11	1,559.10	1,656.82	1,975.44	2,075.79	2,706.76	2,809.75	3,133.63	3,239.25	3,565.76
Capital Cost	2,225.00	2,225.00	2,225.00	2,225.00	2,225.00	2,225.00	2,225.00	2,225.00	2,225.00	2,225.00	2,225.00	2,225.00	2,225.00	2,225.00	2,225.00	2,225.00
Installation Labour	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00	140.00
Installation Parts	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00	70.00
Electrician	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00	20.00
Life cycle Cost per Unit:		2,519.31	2,611.76	2,923.81	3,016.26	3,328.30	3,698.11	4,014.10	4,111.82	4,430.44	4,530.79	5,161.76	5,264.75	5,588.63	5,694.25	6,020.76
Per Year:		2,519.31	1,305.88	974.60	754.07	665.66	616.35	573.44	513.98	492.27	453.08	469.25	438.73	429.89	406.73	401.38