

## **PROPRIETARY**

## Alpha NutriFilter Filtration System - Removal Rates and O&M

Approx 1 Acre - 1.35 mm gallons - Average Depth Approx 4 ft - Max Do Calculation of Annual Load and Removal Rates										· / /t		D	occrinti	<b>o</b> n			Oty/Yr	En	ch	Total		Year1	Year2	Year3
							Description Filter Replacement (All Chambers)								5199	101a1 \$398		\$398	\$398	\$398				
Amount of Water Treated Annually					78,840,000			onthly			Chambe	:15)			1	-	5129	\$1,548		\$1,548	\$1,548	\$1,548		
TP Concentration (mg/l) - Avg Pre-Existing Condition						0.37	_	OTAL										\$1,946	_	\$1,946	\$1,946	\$1,94		
																					-			-
Annual TP load (lbs per year)						244.	_				t (5 Yeai	,			\$9,730				-top	the set	Section State	ALC:		
													(5 Yea	r)			\$1,946		a series			1.		
	oncentration - Red	duction	Acheiv	ed (mg	/I)			0.12				hly Cos					\$162	- 18	P) in					
Redu	ction Percent							68%	6 A	verage	Annual	Cost/P	ound of	TP Ren	noved		\$11.69		1	Storing Ma				Production
	ected Annual TP							166.4	_															
0.9																								
0.9	1												_					-	_					2
0.8																								
0.8																								
0.8																								
	Drier	10 14	out the o	Lliele			_	_										2						
	Prior	10 M	onths	High <sup>-</sup>	ГР																	R		
0.7 0.6	Prior	10 M	onths	High <sup>-</sup>	ГР																			
0.7	Prior	10 M	onths	High <sup>-</sup>	ГР																-			
0.7 0.6 0.5	Prior	10 M	onths	High <sup>-</sup>	ГР					6018													hosFilte	r Filtr
0.7 0.6	Prior	10 M	onths	High <sup>-</sup>	ГР																		hosFilte	r Filtr
0.7 0.6 0.5	Prior	10 M	onths	High <sup>-</sup>	ГР																	Part of the second seco	hosFilte	r Filtr
0.7 0.6 0.5 0.4	Prior	10 M	onths	High <sup>-</sup>	ΓP						Sample Ev					SIT							hosFilte	r Filtr
0.7 0.6 0.5 0.4	Prior	10 M	onths	High <sup>-</sup>	N	IC Limit										See. 10							hosFilte	r Filtr
0.7 0.6 0.5 0.4 0.3 0.2	Prior	10 M	onths	High <sup>-</sup>	N	4C Limit 0 mg/I TP										S							hosFilte	r Filtr
0.7 0.6 0.5 0.4 0.3	Prior	10 M	onths	High <sup>-</sup>	N											<u></u>							hosFilte	r Filtr
0.7 0.6 0.5 0.4 0.3 0.2 0.1	Prior	10 M	onths	High <sup>-</sup>	N											91 10 10 10 10 10 10 10 10 10 10 10 10 10							hosFilte	er Filtr
0.7 0.6 0.5 0.4 0.3 0.2	mg/L mg/L	mg/L	mg/L 8/14/12	High	N	0 mg/l TP		650	mg/L /16/13			8 Months											hosFilte	r Filt

Field Trials of PhosFilter Adsorption System For Reduction Of Total Phosphorus (TP) In Residential Stormwater Pond. Numerous Modifications/Adjustments Were Made To The Intake Screen (Algae/Debris Ingestion Issues) Over Several Months. System Fully Operational In Late July 2013. August 27, 2013 Sample Was In Compliance With NNC For First Time In 18 Months. Samples Collected From Pond Outfall To Canal Receiving Water.





Year4

\$1,548

\$1,946

Chambers

\$398

Year5

\$1,548

\$1,946

\$398