



PSI Calculation:	System A	System B
Deepest Depth	10 Feet	0 Feet
Total 3/8" Self Weighted Airline	400	0
Total 5/8" Self Weighted Airline	0 Feet	0 Feet
Total 5/8" Direct Burial Airline	125 Feet	0 Feet
Total System PSI	9.795 PSI	0.43 PSI
Recommended Aeration System(s):	AM70LK	

Client Name:	Platinum Ponds
Contact:	Richard Panten
Site Name:	Church Pond
Site Address:	500 W. Lee Road, Taylors, SC
Date:	August 23, 2011
Design Technician:	Cary Martin

Surface Acres:	1.32
Average Center Depth (feet):	10
Diffuser Placement Depth (feet):	10
Perimeter (feet):	1,391
Shelf Width (feet):	3
Average Shelf Depth (feet):	3.0
GPM @ Depth for Diffuser:	3390
Average Waterway Depth (feet):	9.5
Total Waterway Volume (Gallons):	4,083,334
Complete Site Turnover / Day:	3.6
Diffuser Pads Recommended:	3.0

Diffuser Depth (ft)	Circulation Rate (GPM)
3	500
4	1,482
5	1,958
6	2,434
7	2,628
8	3,255
9	3,330
10	3,390
11	3,407
12	3,450
13	3,527
14	3,625
15	3,808
16	3,858
17	4,109
18	4,152
19	4,196
20	4,240
21	4,257
22	4,265
23	4,357
24+	4,357



Diffuser Airline Length (ft)				
Plate				
1	155			
2	55			
3	185			
4				
5				
6				
Total	395	0	0	0

Definitions:

- Average Center Depth: The average depth in the deepest areas.
- Diffuser Plates Recommended: The number of diffuser plates for correct aeration, based on area and shape.
- Perimeter: The distance in feet along the entire shoreline around the water way.
- Complete Site Turnover / Day: The number of times per day the full volume of the water way is moved from the bottom to the surface.
- Surface Acres: The total surface acres of the entire water way.
- Total Waterway Volume: The volume of the entire water way in U.S. Gallons.

- = Self Weighted Airline
- = Direct Burial Airline