SG-1 Pond						
	ac-ft	ft^2	ft^3	cfs	ft	
water shed area		603800.9				
water shed perimiter					6457.85	
soil type						90b,10c
pond area		21573				
pond volume 100			87555.4			
pond volume 25			61506.58			
required storage 100	2.01					
required storage 25	1.412					
Discharge req 25				17.64		
Discharge req 100				24.35		
pond depth 100					4.058564	
pond depth 25					2.851091	
d=(1525((Q*n)/sqrt(S)))^.375						

elevation change	distance
350	6767
Area	501.534
dis w/ shaft	29.02

SG-2 Pond							elevation change	distance
	ac-ft	ft^2	ft^3	cfs	ft		490	1735
water shed area		139509.3						
water shed perimiter					1805.374			
soil type						80b,20c		
pond area		4088.7						
pond volume 100			17384.54					
pond volume 25			11803.19					
required storage 100	0.4							
required storage 25	0.27							
Discharge req 25				3.31				
Discharge req 100				4.67				
pond depth 100					4.25185			
pond depth 25					2.886782			
d=(1525((Q*n)/sqrt(S)))^.375								

SG-3 Pond						
	ac-ft	ft^2	ft^3	cfs	ft	
water shed area		159443.8				
water shed perimiter					1483.175	
soil type						100B
pond area		6088.4				
pond volume 100			27007.14			
pond volume 25			16378.52			
required storage 100	0.62					
required storage 25	0.38					
Discharge req 25				5.44		
Discharge req 100				7.5		
pond depth 100					4.435835	
pond depth 25					2.690119	
d=(1525((Q*n)/sqrt(S)))^.375						

elevation change	distance
380	5742
Area	501.534

SG-4 Pond						
	ac-ft	ft^2	ft^3	cfs	ft	
water shed area		440492.3				
water shed perimiter					4987.885	
soil type						5B,70C,25D
pond area		9820.164				
pond volume 100			88862.2			
pond volume 25			62377.78			
required storage 100	2.04					
required storage 25	1.43					
Discharge req 25				17.88		
Discharge req 100				24.68		
pond depth 100					9.048952	
pond depth 25					6.35201	
d=(1525((Q*n)/sqrt(S)))^.375						

elevation change	distance
100	1443
Area	501.534

Shaft 3-Laydown-Deepwell-Sly Fan ponds-Drill hole to old B-seam 25 year				
	discharge	flow rates	Diamiter	
Shaft 3	3.31	3.31	6.421741189	
Laydown pond	17.64	20.95	17.63562878	
Deepwell pond	5.44	26.39	18.3617939	
Sly Fan Pond	17.88	44.27	22.10110161	d=(1525((Q*n)/sqrt(S)))^.375

Manning	0.015
Slope 1	0.282420749
Slope 2	0.05172159
Slope 3	0.066179032
Slope 4	0.069300069

100%

Shaft 3-Laydown-Deepwell-Sly Fan ponds-Drill hole to old B-seam 100 year				
	discharge	flow rates	Diamiter	
Shaft 3	4.67	4.67	7.306529315	
Laydown pond	24.35	29.02	19.92775918	
Deepwell pond	7.5	36.52	20.74074611	
Sly Fan Pond	24.68	61.2	24.95483105	d=(1525((Q*n)/sqrt(S)))^.375

%	100	90	80	70	60	50	40	30	20	10
Final Size 25	22.1	21.2	20.3	19.3	18.2	17.0	15.7	14.1	12.1	9.3
Final size 100	24.95	24.0	22.95	21.8	20.6	19.2	17.7	15.9	13.6	10.5

Shaft 3-Laydown-Deepwell-Sly Fan ponds-Drill hole to old B-seam 25 year				
	discharge	flow rates	Diamiter	
Shaft 3	0.1655	0.1655	2.088173	
Laydown pond	0.882	1.0475	5.734621	
Deepwell pond	0.272	1.3195	5.97075	
Sly Fan Pond	0.894	2.2135	7.186669	d=(1525((Q*n)/sqrt(S)))^.375

Manning	0.015
Slope 1	0.282421
Slope 2	0.051722
Slope 3	0.066179
Slope 4	0.0693

993.4188

5.0%

Shaft 3-Laydown-Deepwell-Sly Fan ponds-Drill hole to old B-seam 100 year				
	discharge	flow rates	Diamiter	
Shaft 3	0.2335	0.2335	2.375882	
Laydown pond	1.2175	1.451	6.479958	
Deepwell pond	0.375	1.826	6.744319	
Sly Fan Pond	1.234	3.06	8.114624	d=(1525((Q*n)/sqrt(S)))^.375

1373.328

Shaft 3-Laydown-Deepwell-Sly Fan ponds-Drill hole to old B-seam 25 year				
	discharge	flow rates	Diamiter	
Shaft 3	0.0993	0.0993	1.724143	
Laydown pond	0.5292	0.6285	4.734907	
Deepwell pond	0.1632	0.7917	4.929871	
Sly Fan Pond	0.5364	1.3281	5.93382	d=(1525((Q*n)/sqrt(S)))^.375

Manning	0.015		596.0513
Slope 1	0.282421		
Slope 2	0.051722		
Slope 3	0.066179		3%
Slope 4	0.0693		

Shaft 3-Laydown-Deepwell-Sly Fan ponds-Drill hole to old B-seam 100 year				
	discharge	flow rates	Diamiter	
Shaft 3	0.1401	0.1401	1.961696	
Laydown pond	0.7305	0.8706	5.35031	
Deepwell pond	0.225	1.0956	5.568585	
Sly Fan Pond	0.7404	1.836	6.700005	d=(1525((Q*n)/sqrt(S)))^.375

823.9968