

Date	Sample ID	Clay (%)	Silt (%)	Sand (%)	Organic Matter (%)	Fine Gravel - 2 mm (%)	Very Coarse Sand - 1 mm (%)	Coarse Sand - 0.5 mm (%)	Medium Sand - 0.25 mm (%)	Fine Sand - 0.15 mm (%)	Very Fine Sand - 0.106 mm (%)	Very Fine Sand - 0.053 mm (%)	Saturated Conductivity (in/hr)	30cm Moisture Retention (%)	Air Filled Pore Space (%)	Capillary Pore Space (%)	Total Pore Space (%)	Bulk Density (g/cc)	Particle Density (g/cc)	pH	Visual Classification	
	<i>USGA Guide</i>	<=3	<=5			(<=3)	<=10	>=60	<=20	<=5	>6			15-30	15-25	35-55						
	HP/Peat 1.25"	0.6	0.6	99	0.8	0.1	2.7	24.9	51	16.8	2.6	0.5	25.3	12.9	25.9	19	45	1.49	2.7			
	USGA QC Intervals (+)	0.15	0.2		0.2	0.05	1.4	2.49	5.1	2.52	0.78	0.15	5.06									
7/25/16	HP/PEAT	1.8		98	0.9	0	3.3	28.2	48	15.2	2.8	0.5	26.1									
7/6/16	7/1/2016	2.2		98	0.9	0	3.4	26	48	16.3	3.2	0.5	17.5									
6/28/16	6/23/2016	1.5		99	0.6	0	3.5	25.7	50	16.3	2.4	0.5	12.5									
6/24/16	6/20/2016	1.9		98	0.6	0	3.5	28.9	49	13.6	2.4	0.4	24.8									
6/24/16	6-8+6-13	2.5		98	0.9	0	3.4	29	48	14.1	2.3	0.5	15.5									
6/16/16	HP/Peat 6/14/16	2		98	1.2	0	3.3	28.1	48	14.7	2.5	1	17.5									
6/13/16	HP/Peat 6/8/16	1.6		98	0.8	0	3.3	30	49	13	2.3	0.4	25.1									
6/8/16	HP/Peat 1.38"	2		98	0.9	0	3.6	31.3	49	12.1	1.6	0.3	29									
6/2/16	HP/Peat 1.38"	1.3		99	0.7	0.1	3.1	26.9	50	15.4	2.4	0.6	20.2									
5/26/16	HP/Peat 1.25"	0.3	1.4	98	1	0	2.3	23.7	52	17.1	2.4	0.5	21.3	14.5	20.4	22	42.8	1.55	2.7			
5/26/16	HP/Peat 1.25"	0.6	0.6	99	0.8	0.1	2.7	24.9	51	16.8	2.6	0.5	25.3	12.9	25.9	19	45	1.49	2.7			
5/25/16	HP/Peat 1.25"	1.8		98	0.9	0	3.2	28.3	50	13.8	2.1	0.5	21.9									
5/25/16	HP/Peat 1.25"	1.5		99	0.7	0	2.6	24.1	51	16.8	3.2	0.6	17.5									
5/20/16	HP/Peat 1.25"	1.9		98	1	0	2.4	24.1	51	16.4	3.3	0.5	20.6									
5/18/16	HP/Peat 1.25"	1.7		98	1	0	2.3	23.7	52	17.1	2.4	0.5	21.3									
5/18/16	HP/Peat 1.25"	1.2		99	0.8	0.1	2.7	24.9	51	16.8	2.6	0.5	25.3									
	Avg	1.61		98	0.9	0.02	3	26.7	50	15.3	2.53	0.52	21.3									
4/28/16	HP/PEAT (1")	0.7	0.7	99	0.7	0	3.3	27.1	47	16.1	3.7	1.4	16.1	12.7	17.2	21	38.3	1.67	2.7	7.8	Medium sphericity/subangular to subrounded	

Comments:

The most recent sample of HP/Peat Greens mix (6-16-16) contains .2% more organic matter than desired by the USGA confidence intervals and the Saturated Hydraulic Conductivity has been reduced to a little less than suggested by the confidence intervals as a result. The HP/Peat samples tested on 4/28/16 are representative of samples mixed by Osburn Industries and sampled by Mavis Consulting. The HP/Peat samples tested on 4/21/16 are representative of samples mixed by Osburn Industries and submitted to the lab. As expected the HP/Peat 2" sample matches the organic matter level best with the target 1.2% from the 80/20 mix dated 6/18/15. However, the moisture measurements do not match with the results from last year as had been expected. The peat is being evaluated to help determine if it has changed and is responsible for these differences along with the slight change in sand particle sizes. It is also surprising that the HP/Peat 1" sample does not even match the moisture measurements found last year. Reports for 2/10/16 are based on samples collected by Mavis Consulting and mixed at the lab. Based on these test results, the 80/20 (sand/peat) looks to be the best with sufficient organic matter and more than adequate hydraulic conductivity. The others fall short of 1% on the organic matter which is the minimum I recommend. The moisture curve readings may be skewed slightly as there seems to be a little more very