

BROOKSIDE LABORATORIES, INC.

SATURATED SOIL ANALYSIS

Downingtown Country Club
93 Country Club Road
Downingtown, PA 19335

File Number: 74198
Date Received: 5/20/2024
Date Reported: 5/22/2024

Submitted By: Soil and Water Consulting

Lab Number	0034			0035			
Description	TEE			TEE			
	3			15			
pH	7.7			7.8			
	(ppm)	meq/l	%	(ppm)	meq/l	%	
Soluble Salts *	239			300			
Chloride	52			69			
Nitrate (NO3-N)	< 0.5			< 0.5			
Bicarbonate	68.38			70.77			
Sulfur	7.72			8.82			
Phosphorus	4.82			2.08			
Calcium	19.70	0.98	26.70	37.05	1.85	41.53	
Magnesium	7.59	0.62	16.94	8.20	0.67	15.15	
Potassium	31.90	0.82	22.16	23.28	0.60	13.37	
Sodium	28.98	1.26	34.21	30.66	1.33	29.94	
TOTAL		3.68	100		4.45	100	
Boron	0.02			0.03			
Iron	1.31			1.68			
Manganese	0.05			0.08			
Copper	0.03			0.06			
Zinc	0.03			0.04			
Aluminum	1.85			2.72			
Ammonium (NH4-N)	1.0			< 0.5			
ESP (calculated)	0.81			0.49			
SAR (calculated)	1.41			1.19			

* Soluble Salts: mmhos/cm = ppm / 640

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Lab Number	0036			0037		
Description	FAIRWAY			FAIRWAY		
	3			15		
pH	8.0			7.9		
	(ppm)	meq/l	%	(ppm)	meq/l	%
Soluble Salts *	282			368		
Chloride	55			82		
Nitrate (NO3-N)	0.7			< 0.5		
Bicarbonate	92.20			73.78		
Sulfur	11.74			22.03		
Phosphorus	0.91			0.29		
Calcium	39.95	1.99	44.18	41.04	2.05	36.80
Magnesium	12.08	0.99	22.02	13.02	1.07	19.23
Potassium	20.15	0.52	11.42	14.41	0.37	6.62
Sodium	23.23	1.01	22.38	47.81	2.08	37.35
TOTAL		4.51	100		5.57	100
Boron	0.02			0.02		
Iron	1.33			1.40		
Manganese	0.13			0.09		
Copper	0.02			0.02		
Zinc	0.03			0.03		
Aluminum	2.06			2.13		
Ammonium (NH4-N)	< 0.5			< 0.5		
ESP (calculated)	< .01			1.18		
SAR (calculated)	0.83			1.66		

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Lab Number	0038			0039			
Description	GREEN			GREEN			
	3			15			
pH	8.0			7.7			
	(ppm)	meq/l	%	(ppm)	meq/l	%	
Soluble Salts *	333			346			
Chloride	64			59			
Nitrate (NO3-N)	< 0.5			1.8			
Bicarbonate	92.41			58.59			
Sulfur	17.23			28.77			
Phosphorus	1.26			0.82			
Calcium	33.64	1.68	32.58	32.17	1.61	32.53	
Magnesium	11.44	0.94	18.26	10.30	0.85	17.16	
Potassium	50.81	1.30	25.22	36.27	0.93	18.80	
Sodium	28.36	1.23	23.94	35.77	1.56	31.51	
TOTAL		5.15	100		4.93	100	
Boron	0.02			0.03			
Iron	1.62			2.75			
Manganese	0.13			0.09			
Copper	0.06			0.04			
Zinc	0.05			0.06			
Aluminum	2.25			4.52			
Ammonium (NH4-N)	0.5			< 0.5			
ESP (calculated)	0.33			0.80			
SAR (calculated)	1.08			1.40			

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Lab Number	0040
Description	GREEN BIG PG

pH	7.9
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	(ppm)	meq/l	%	(ppm)	meq/l	%
Soluble Salts *	310					
Chloride	65					
Nitrate (NO3-N)	1.0					
Bicarbonate	87.46					

Sulfur	13.67					
Phosphorus	2.56					
Calcium	24.11	1.20	24.62			
Magnesium	9.42	0.77	15.85			
Potassium	39.08	1.00	20.45			
Sodium	43.92	1.91	39.08			
TOTAL		4.89	100			

Boron	0.04
Iron	0.66
Manganese	0.06
Copper	0.08
Zinc	0.04
Aluminum	1.54
Ammonium (NH4-N)	1.7

ESP (calculated)	1.55
SAR (calculated)	1.92

* Soluble Salts: mmhos/cm = ppm / 640