

lb/A

BROOKSIDE LABORATORIES, INC. 78813-6

SOIL AUDIT AND INVENTORY REPORT

Name Randall's Island Park City New York State NY

Independent Consultant Soil and Water Consulting Date 07/03/2025

Sample Location		BRONX SHORE	FIELDS				
Sample Identification			1				
Lab Number			0143-1				
Total Exchange Capacity (ME / 100 g)			11.68				
pH	Buffer (SMP/Sikora)		7.3				
	H ₂ O (1:1)		6.9				
Organic Matter (360°C LOI) %			5.00				
Estimated Nitrogen Release lb / A			100				
ANIONS	SOLUBLE SULFUR*		ppm	17			
	PHOSPHORUS	MEHLICH III	lb/A P as P ₂ O ₅ ppm of P	687			
		BRAY II	lb/A P as P ₂ O ₅ ppm of P	150			
		OLSEN	lb/A P as P ₂ O ₅ ppm of P				
	EXCHANGABLE CATIONS	CALCIUM*	lb/A	3472			
		ppm	1736				
MAGNESIUM*		lb/A	444				
		ppm	222				
POTASSIUM*		lb/A	236				
	ppm	118					
	SODIUM*	lb/A	68				
	ppm	34					
BASE SATURATION PERCENT							
	Calcium	%	74.32				
	Magnesium	%	15.84				
	Potassium	%	2.59				
	Sodium	%	1.27				
	Other Bases	%	4.50				
	Hydrogen	%	1.50				
EXTRACTABLE MINORS							
	Boron* (ppm)		0.79				
	Iron* (ppm)		293				
	Manganese* (ppm)		16				
	Copper* (ppm)		4.74				
	Zinc* (ppm)		12.39				
	Aluminum* (ppm)		727				
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		14.1				
	NH ₄ -N (ppm)		2.5				

* Mehlich III Extractable

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Sample Location		CENTRAL FIELDS	FIELDS				
Sample Identification			1				
Lab Number			0144-1				
Total Exchange Capacity (ME / 100 g)			4.14				
pH		Buffer (SMP/Sikora) H ₂ O (1:1)	7.4 6.0				
Organic Matter (360°C LOI) %			1.89				
Estimated Nitrogen Release		lb / A	58				
ANIONS	SOLUBLE SULFUR*		ppm	12			
	PHOSPHORUS	MEHLICH III	lb/A P as P ₂ O ₅ ppm of P	1154 252			
		BRAY II	lb/A P as P ₂ O ₅ ppm of P				
		OLSEN	lb/A P as P ₂ O ₅ ppm of P				
EXCHANGABLE CATIONS	CALCIUM*	lb/A	866				
		ppm	433				
	MAGNESIUM*	lb/A	210				
		ppm	105				
	POTASSIUM*	lb/A	106				
	ppm	53					
	SODIUM*	lb/A	56				
	ppm	28					
BASE SATURATION PERCENT							
	Calcium	%	52.29				
	Magnesium	%	21.14				
	Potassium	%	3.28				
	Sodium	%	2.94				
	Other Bases	%	5.40				
	Hydrogen	%	15.00				
EXTRACTABLE MINORS							
	Boron* (ppm)		0.62				
	Iron* (ppm)		534				
	Manganese* (ppm)		12				
	Copper* (ppm)		3.41				
	Zinc* (ppm)		11.21				
	Aluminum* (ppm)		431				
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		4.4				
	NH ₄ -N (ppm)		2.2				

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Sample Location		EAST RIVER	FIELD				
Sample Identification		71/80/81					
Lab Number		0145-1					
Total Exchange Capacity (ME / 100 g)		4.54					
pH	Buffer (SMP/Sikora)	7.3					
	H ₂ O (1:1)	6.0					
Organic Matter (360°C LOI) %		2.25					
Estimated Nitrogen Release lb / A		65					
ANIONS	SOLUBLE SULFUR*		ppm	15			
	PHOSPHORUS	MEHLICH III	lb/A P as P ₂ O ₅ ppm of P	1493			
		BRAY II	lb/A P as P ₂ O ₅ ppm of P	326			
		OLSEN	lb/A P as P ₂ O ₅ ppm of P				
EXCHANGABLE CATIONS	CALCIUM*	lb/A	1026				
		ppm	513				
	MAGNESIUM*	lb/A	182				
		ppm	91				
	POTASSIUM*	lb/A	142				
	ppm	71					
	SODIUM*	lb/A	50				
	ppm	25					
BASE SATURATION PERCENT							
	Calcium	%	56.50				
	Magnesium	%	16.70				
	Potassium	%	4.01				
	Sodium	%	2.39				
	Other Bases	%	5.40				
	Hydrogen	%	15.00				
EXTRACTABLE MINORS							
	Boron* (ppm)		0.64				
	Iron* (ppm)		533				
	Manganese* (ppm)		14				
	Copper* (ppm)		3.45				
	Zinc* (ppm)		10.68				
	Aluminum* (ppm)		499				
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		8.2				
	NH ₄ -N (ppm)		1.7				

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Sample Location HARLEM RIVER		EVENTS				
Sample Identification		AREA				
Lab Number		0146-1				
Total Exchange Capacity (ME / 100 g)		8.17				
pH	Buffer (SMP/Sikora)	7.5				
	H ₂ O (1:1)	7.0				
Organic Matter (360°C LOI) %		3.89				
Estimated Nitrogen Release lb / A		89				
ANIONS	SOLUBLE SULFUR*	ppm	14			
	MEHLICH III lb/A P as P ₂ O ₅	902				
		ppm of P	197			
	BRAY II lb/A P as P ₂ O ₅					
		ppm of P				
EXCHANGABLE CATIONS	OLSEN lb/A P as P ₂ O ₅					
		ppm of P				
	CALCIUM* lb/A	2364				
		ppm	1182			
	MAGNESIUM* lb/A	360				
		ppm	180			
	POTASSIUM* lb/A	194				
		ppm	97			
	SODIUM* lb/A	68				
		ppm	34			
BASE SATURATION PERCENT						
Calcium %		72.34				
Magnesium %		18.36				
Potassium %		3.04				
Sodium %		1.81				
Other Bases %		4.40				
Hydrogen %		0.00				
EXTRACTABLE MINORS						
Boron* (ppm)		0.76				
Iron* (ppm)		300				
Manganese* (ppm)		49				
Copper* (ppm)		7.83				
Zinc* (ppm)		8.88				
Aluminum* (ppm)		780				
OTHER TESTS	Soluble Salts (mmhos/cm)					
	Chlorides (ppm)					
	NO ₃ -N (ppm)	8.9				
	NH ₄ -N (ppm)	1.3				

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Sample Location		HELL GATE	FIELDS	FIELDS			
Sample Identification			60&61	60&61 BA			
Lab Number			0147-1	0148-1			
Total Exchange Capacity (ME / 100 g)			12.60	14.42			
pH	Buffer (SMP/Sikora)		7.3	NA			
	H ₂ O (1:1)		6.8	7.2			
Organic Matter (360°C LOI) %			6.60	8.06			
Estimated Nitrogen Release		lb / A	108	115			
ANIONS	SOLUBLE SULFUR*						
		ppm	20	37			
	MEHLICH III	lb/A P as P ₂ O ₅ ppm of P	476	504			
	BRAY II	lb/A P as P ₂ O ₅ ppm of P	104	110			
EXCHANGABLE CATIONS	OLSEN	lb/A P as P ₂ O ₅ ppm of P					
	CALCIUM*	lb/A	3736	4536			
		ppm	1868	2268			
	MAGNESIUM*	lb/A	450	458			
		ppm	225	229			
	POTASSIUM*	lb/A	224	278			
		ppm	112	139			
	SODIUM*	lb/A	64	98			
		ppm	32	49			
BASE SATURATION PERCENT							
Calcium		%	74.13	78.64			
Magnesium		%	14.88	13.23			
Potassium		%	2.28	2.47			
Sodium		%	1.10	1.48			
Other Bases		%	4.60	4.20			
Hydrogen		%	3.00	0.00			
EXTRACTABLE MINORS							
Boron* (ppm)			0.65	0.99			
Iron* (ppm)			315	350			
Manganese* (ppm)			15	23			
Copper* (ppm)			7.26	7.70			
Zinc* (ppm)			13.68	25.45			
Aluminum* (ppm)			705	661			
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		12.0	28.3			
	NH ₄ -N (ppm)		0.5	< 0.5			

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Sample Location		ICHAN	STADIUM				
Sample Identification			FIELD				
Lab Number			0149-1				
Total Exchange Capacity (ME / 100 g)			2.98				
pH	Buffer (SMP/Sikora)		7.6				
	H ₂ O (1:1)		6.8				
Organic Matter (360°C LOI) %			0.78				
Estimated Nitrogen Release lb / A			31				
ANIONS	SOLUBLE SULFUR*						
		ppm		14			
	PHOSPHORUS	MEHLICH III lb/A P as P ₂ O ₅		408			
			ppm of P		89		
		BRAY II lb/A P as P ₂ O ₅					
	ppm of P						
	OLSEN lb/A P as P ₂ O ₅						
	ppm of P						
EXCHANGABLE CATIONS	CALCIUM*	lb/A		902			
		ppm		451			
	MAGNESIUM*	lb/A		80			
		ppm		40			
	POTASSIUM*	lb/A		70			
		ppm		35			
	SODIUM*	lb/A		36			
		ppm		18			
BASE SATURATION PERCENT							
Calcium	%		75.67				
Magnesium	%		11.19				
Potassium	%		3.01				
Sodium	%		2.63				
Other Bases	%		4.60				
Hydrogen	%		3.00				
EXTRACTABLE MINORS							
	Boron* (ppm)		0.26				
	Iron* (ppm)		174				
	Manganese* (ppm)		6				
	Copper* (ppm)		1.24				
	Zinc* (ppm)		4.49				
	Aluminum* (ppm)		228				
OTHER TESTS	Soluble Salts (mmhos/cm)						
	Chlorides (ppm)						
	NO ₃ -N (ppm)		< 0.5				
	NH ₄ -N (ppm)		1.6				

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Sample Location	SUNKEN	MEADOWS			
Sample Identification		FIELD			
Lab Number		0150-1			
Total Exchange Capacity (ME / 100 g)		3.53			
pH	Buffer (SMP/Sikora) H ₂ O (1:1)	7.5 6.3			
Organic Matter (360°C LOI) %		2.01			
Estimated Nitrogen Release	lb / A	60			
ANIONS	SOLUBLE SULFUR*	ppm	12		
	MEHLICH III	lb/A P as P ₂ O ₅ ppm of P	485 106		
	BRAY II	lb/A P as P ₂ O ₅ ppm of P			
	OLSEN	lb/A P as P ₂ O ₅ ppm of P			
EXCHANGABLE CATIONS	CALCIUM*	lb/A ppm	946 473		
	MAGNESIUM*	lb/A ppm	110 55		
	POTASSIUM*	lb/A ppm	46 23		
	SODIUM*	lb/A ppm	44 22		
BASE SATURATION PERCENT					
	Calcium	%	67.00		
	Magnesium	%	12.98		
	Potassium	%	1.67		
	Sodium	%	2.71		
	Other Bases	%	5.10		
	Hydrogen	%	10.50		
EXTRACTABLE MINORS					
	Boron* (ppm)		0.38		
	Iron* (ppm)		316		
	Manganese* (ppm)		14		
	Copper* (ppm)		3.63		
	Zinc* (ppm)		8.46		
	Aluminum* (ppm)		283		
OTHER TESTS	Soluble Salts (mmhos/cm)				
	Chlorides (ppm)				
	NO ₃ -N (ppm)		1.8		
	NH ₄ -N (ppm)		0.8		

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