

kg/ha

**BROOKSIDE LABORATORIES, INC.**

34834-1078

**SOIL AUDIT AND INVENTORY REPORT**Name Agronomic Advisory Services City Hamilton State NZLIndependent Consultant Agronomic Advisory Services Date 14/08/2018

Sample Location	S + T ZINK	2	23 HIGH	7 LOW			
Sample Identification		EFFLUENT	GROUND	GROUND			
Lab Number		0255-1	0256-1	0257-1			
Total Exchange Capacity (ME/100 g)		13.37	14.18	14.70			
pH (H <sub>2</sub> O 1:1)		6.3	6.3	6.2			
Organic Matter (humus) %		12.39	16.41	21.17			
Estimated Nitrogen Release	kg/ha	141	143	> 130			
<b>ANIONS</b>	SOLUBLE SULFUR*	ppm	15	16	21		
	PHOSPHORUS	MEHLICH III	kg/ha P as P <sub>2</sub> O <sub>5</sub>	872	303	564	
			ppm of P	170	59	110	*
		BRAY II	kg/ha P as P <sub>2</sub> O <sub>5</sub>				
		ppm of P					
	OLSEN	kg/ha P as P <sub>2</sub> O <sub>5</sub>	385	185	221		
		ppm of P	75	36	43		
<b>EXCHANGEABLE CATIONS</b>	CALCIUM*	kg/ha	4070	4567	4756		
		ppm	1817	2039	2123		
	MAGNESIUM*	kg/ha	455	379	282		
		ppm	203	169	126		
	POTASSIUM*	kg/ha	258	181	269		
		ppm	115	81	120		
	SODIUM*	kg/ha	108	81	101		
		ppm	48	36	45		
<b>BASE SATURATION PERCENT</b>							
Calcium	%	67.95	71.90	72.21			
Magnesium	%	12.65	9.93	7.14			
Potassium	%	2.21	1.46	2.09			
Sodium	%	1.56	1.10	1.33			
Other Bases	%	5.10	5.10	5.20			
Hydrogen	%	10.50	10.50	12.00			
<b>EXTRACTABLE MINORS</b>							
Boron*	(ppm)	0.52	0.65	0.52			
Iron*	(ppm)	166	68	151	*		
Manganese*	(ppm)	11	27	9			
Copper*	(ppm)	1.85	2.23	2.05			
Zinc*	(ppm)	27.22	19.84	20.63			
Aluminum*	(ppm)	932	1165	1361	*		
<b>OTHER TESTS</b>	Soluble Salts	(mmhos/cm)					
	Chlorides	(ppm)					

\* Mehlich III Extractable