

Penhesgyn IVC

Analysis of Lagoon

Date 12/03/2025

Analytical Report Number: 24-03533

Sample Number: 20408

Application rate (t/ha)	250
Application rate (t/acre)	100.0
pH	7.4
Dry solids (%)	0.0
TOC (%)	0.02

NUTRIENT CONTENT

TOTALS	result	units	Total		Available	
			(kg/tonne)	(kg/ha)	(kg/tonne)	(kg/ha)
Nitrogen (N)	0.002	%	0.02	5.5	0.02	4.9
Ammonium-N	19	mg/kg	0.02	4.9		
Phosphorus (P)	3.97	mg/kg	0.00			
Phosphate (P ₂ O ₅)			0.01	2.3	0.00	1.1
Potassium (K)	436	mg/kg	0.44			
Potash (K ₂ O)			0.52	130.8	0.47	117.7
Magnesium (Mg)	15.9	mg/kg	0.02			
Magnesium (MgO)			0.03	6.4	0.01	1.6
Sulphur (S)		mg/kg	0.00			
Sulphur (SO ₃)	61.4		0.061	15.4	0.01	3.1
Sodium (Na)	96.9	mg/kg	0.10	24.2	0.05	12.1

POTENTIALLY TOXIC ELEMENTS

TOTALS	result	units	Rate		Limit
			(g/tonne)	(kg/ha)	(kg/ha/yr)
Zinc	0.08	mg/kg	0.1	0.02	15.00
Copper	0.03	mg/kg	0.0	0.01	7.50
Nickel	0.02	mg/kg	0.0	0.00	3.00
Lead	0.01	mg/kg	0.0	0.00	15.00
Cadmium	0.00	mg/kg	0.0	0.00	0.15
Chromium	0.01	mg/kg	0.0	0.00	15.00
Mercury	0.01	mg/kg	0.0	0.00	0.10
Arsenic	0.02	mg/kg	0.0	0.01	0.70

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Application rate (t/ha) 108
Application rate (t/acre) 43.2
pH 7.9
Dry solids (%) 0.1
TOC (%) 0.07

NUTRIENT CONTENT

TOTALS	result	units	Total		Available	
			(kg/tonne)	(kg/ha)	(kg/tonne)	(kg/ha)
Nitrogen (N)	0.022	%	0.22	23.4	0.22	23.4
Ammonium-N	217	mg/kg	0.22	23.4		
Phosphorus (P)	11.4	mg/kg	0.01			
Phosphate (P ₂ O ₅)			0.03	2.8	0.01	1.4
Potassium (K)	1080	mg/kg	1.08			
Potash (K ₂ O)			1.30	140.0	1.17	126.0
Magnesium (Mg)	55.2	mg/kg	0.06			
Magnesium (MgO)			0.09	9.5	0.02	2.4
Sulphur (S)		mg/kg	0.00			
Sulphur (SO ₃)	0.3		0.000	0.0	0.00	0.0
Sodium (Na)	166	mg/kg	0.17	17.9	0.08	9.0

POTENTIALLY TOXIC ELEMENTS

TOTALS	result	units	Rate		Limit
			(g/tonne)	(kg/ha)	(kg/ha/yr)
Zinc	0.08	mg/kg	0.1	0.01	15.00
Copper	0.01	mg/kg	0.0	0.00	7.50
Nickel	0.05	mg/kg	0.1	0.01	3.00
Lead	0.01	mg/kg	0.0	0.00	15.00
Cadmium	0.00	mg/kg	0.0	0.00	0.15
Chromium	0.01	mg/kg	0.0	0.00	15.00
Mercury	0.00	mg/kg	0.0	0.00	0.10
Arsenic	0.04	mg/kg	0.0	0.00	0.70

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Application rate (t/ha) 217
Application rate (t/acre) 86.8
pH 7.9
Dry solids (%) 0.1
TOC (%) 0.07

NUTRIENT CONTENT

TOTALS	result	units	Total		Available	
			(kg/tonne)	(kg/ha)	(kg/tonne)	(kg/ha)
Nitrogen (N)	0.022	%	0.22	47.1	0.22	47.1
Ammonium-N	217	mg/kg	0.22	47.1		
Phosphorus (P)	11.4	mg/kg	0.01			
Phosphate (P ₂ O ₅)			0.03	5.6	0.01	2.8
Potassium (K)	1080	mg/kg	1.08			
Potash (K ₂ O)			1.30	281.2	1.17	253.1
Magnesium (Mg)	55.2	mg/kg	0.06			
Magnesium (MgO)			0.09	19.2	0.02	4.8
Sulphur (S)		mg/kg	0.00			
Sulphur (SO ₃)	0.3		0.000	0.1	0.00	0.0
Sodium (Na)	166	mg/kg	0.17	36.0	0.08	18.0

POTENTIALLY TOXIC ELEMENTS

TOTALS	result	units	Rate		Limit
			(g/tonne)	(kg/ha)	(kg/ha/yr)
Zinc	0.08	mg/kg	0.1	0.02	15.00
Copper	0.01	mg/kg	0.0	0.00	7.50
Nickel	0.05	mg/kg	0.1	0.01	3.00
Lead	0.01	mg/kg	0.0	0.00	15.00
Cadmium	0.00	mg/kg	0.0	0.00	0.15
Chromium	0.01	mg/kg	0.0	0.00	15.00
Mercury	0.00	mg/kg	0.0	0.00	0.10
Arsenic	0.04	mg/kg	0.0	0.01	0.70

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Application rate (t/ha)	240
Application rate (t/acre)	96.0
pH	7.9
Dry solids (%)	0.1
TOC (%)	0.07

NUTRIENT CONTENT

TOTALS	result	units	Total		Available	
			(kg/tonne)	(kg/ha)	(kg/tonne)	(kg/ha)
Nitrogen (N)	0.022	%	0.22	52.1	0.22	52.1
Ammonium-N	217	mg/kg	0.22	52.1		
Phosphorus (P)	11.4	mg/kg	0.01			
Phosphate (P ₂ O ₅)			0.03	6.2	0.01	3.1
Potassium (K)	1080	mg/kg	1.08			
Potash (K ₂ O)			1.30	311.0	1.17	279.9
Magnesium (Mg)	55.2	mg/kg	0.06			
Magnesium (MgO)			0.09	21.2	0.02	5.3
Sulphur (S)		mg/kg	0.00			
Sulphur (SO ₃)	0.3		0.000	0.1	0.00	0.0
Sodium (Na)	166	mg/kg	0.17	39.8	0.08	19.9

POTENTIALLY TOXIC ELEMENTS

TOTALS	result	units	Rate		Limit
			(g/tonne)	(kg/ha)	(kg/ha/yr)
Zinc	0.08	mg/kg	0.1	0.02	15.00
Copper	0.01	mg/kg	0.0	0.00	7.50
Nickel	0.05	mg/kg	0.1	0.01	3.00
Lead	0.01	mg/kg	0.0	0.00	15.00
Cadmium	0.00	mg/kg	0.0	0.00	0.15
Chromium	0.01	mg/kg	0.0	0.00	15.00
Mercury	0.00	mg/kg	0.0	0.00	0.10
Arsenic	0.04	mg/kg	0.0	0.01	0.70