

1.7 Mtpa Mass Balance:		
Stream Number 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33	
ROM Feed Beedurt Withdrawal Withdrawal Total Mill Feed/Product Primary Mill Primary Mill Discharge Tank Olischarge Tank Cyclone Feed Cyclone Coerflow to Surge Tank	Aeration Circuii Necucu Bulk Necucu Bulk Floatation Feed Conditioner Conditioner Conditioner Rougher Floation Regind Mill Cyclone Oif Tailings Regind Mill Fee Cyclone Uif Medium Grade C Rougher Floation Regind Mill Fee Cyclone Uif Medium Grade C Regind Mill Fee Concentrate Ploation Medium Grade Regind Mill Fee Concentrate Ploation Medium Grade Saw. Cleaner Floation Medium Grade Concentrate Concentrate Ploation Medium Grade Saw. Floation Concentrate Concentrate	N.C.L.Co Concentrate Thickener Feed Concentrate Thicken of LuCo Concentrate Filter Filterake NuC.L.Co Concentrate Filter
Solids t/h 283.3 341.5 212.5 624.9 42.9 412.3 212.6 Solution th t/h 14.9 21.0 13.1 61.6 237.6 197.2 437.8 137.4 300.4 Total Mass t/h 298.2 362.5 225.6 61.6 882.5 197.2 1062.7 549.7 513.0 Solids SG t/m² 4.27 4.27 4.27 4.27 4.27 4.27 4.27 4.27 4.27 4.27 4.27 1.82 2.35 1.46	212.8 16.8 31.3 164.7 6.3 25.1 26.5 6.8 13.0 26.5 92.3 397.4 49.3 104.6 262.0 74.0 30.6 83.6 34.8 37.4 199.7 92.3 610.2 66.1 135.9 426.8 80.3 55.7 110.1 41.6 504.4 196.2 4.27 4.80 4.55 4.80 4.60 4.25 4.60 4.53 1.00 1.36 1.25 1.22 1.42 1.06 1.54 1.23 1.14 1.25 1.12 92.3 447.3 52.9 111.5 301.4 75.5 361 89.4 40.3 175.5 34.9 25.5 23.4 38.6 7.8 45.0 24.1 16.3 25.8 13.5 11.1 6.9 6.2 13.1 1.8 15.1 6.5 4.4 7.0 3.3	21.7 21.7 21.7 67.0 14.5 3.0 11.5 88.6 36.2 24.6 11.5 4.60 4.60 4.60 4.60 1.24 1.89 3.21 1.00 71.7 19.2 7.7 11.5 24.5 60.0 88.0 6.6 24.6 61.5
Stream Number 43 44 45 46 47 48 49 50 50 51 52 53 54 55 56 57	58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74	75 76 77 78 79 80 81 82
NI-Cu-Co Concentrate Thickener O'Flow Total Spray and Gland Service Water Excess Water to termedate Tank Intermediate Thickener O'Flow Intermediate Thickener Pumped U/Flow Pyrrhotte Rougher Floation Concentrate Concentrate Rougher Floation Floation Concentrate Concentrate Concentrate Pyrrhotte Rougher Floation Concentrate Concen	Pumped Non- Pyrrhotite Taillings Total Raw Water Demand Crusher Circuit Dust Suppression Primary Mill Feed Dilution Water Reagent Make-Up Water Raw Water to Potable Treatment Plant Feed Milling & Bulk Flotation Water Milling & Bulk Flotation Water Total Bulk Flotation Water Total Water Total Water Total Water Total Water Total Water Poscess Po Flotation Water GENCESS Water (VIA WTP) WTP Discharge (Brine) Po Process Water Make-up Water (VIA WTP) WTP Discharge GSW and Spray Water Make-up HG Jameson Cleaner (Pomped)	MG Jameson ReC. Floration Tailings Ni-Cu-Co Process Water Make-up Raw Water Make Up Water Mill Seal Water Pyrrhotite Floration Water
Solids th 1913 1913 1913 1913 1392 52.1 1392 1392 52.1 1392 52.1 1392 52.1 1392 52.1 1392 52.1 1392 52.1 1392 52.1 1392 52.1 1392 52.1 1392 52.1 1392 52.1 1392 52.1 1392 52.1 1392 <th< td=""><td>52.1 39.0 117.8 5.0 61.6 8.5 5.0 4.5 383.4 24.8 8.9 33.6 31.6 2.0 5 28.2 29.5 47.5 91.1 117.8 5.0 61.6 8.5 5.0 4.5 383.4 24.8 8.9 33.6 31.6 2.0 5 28.2 38.2 55.6</td><td>21.7 134.3 156.0 144.0 28.2 5.0 250.0 44.0 28.2 5.0 250.0</td></th<>	52.1 39.0 117.8 5.0 61.6 8.5 5.0 4.5 383.4 24.8 8.9 33.6 31.6 2.0 5 28.2 29.5 47.5 91.1 117.8 5.0 61.6 8.5 5.0 4.5 383.4 24.8 8.9 33.6 31.6 2.0 5 28.2 38.2 55.6	21.7 134.3 156.0 144.0 28.2 5.0 250.0 44.0 28.2 5.0 250.0
Solids SG t/m ²	3.41 3.41 4.60 4.60 4.60 4.60 4.60 4.60 4.60 4.60	150.0 44.0 28.2 5.0 250.0 4.59 1.12 1.00 1.00 1.00 1.00
Total Volume m³/h 66.0 138.2	54.3 117.8 5.0 61.6 8.5 5.0 4.5 383.4 24.8 8.9 33.6 31.6 2.0 E 28.2 31.4 49.2 57.2 27 14.6	139.0 44.0 28.2 5.0 250.0 13.9 3.4
% Solids % v/v 9.5 30.5 11.3 10.2 13.4 20.8 19.5 35.3	28.1 6.0 3.6	
3.4 Mtpa Mass Balance: Stream Number	17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33	34 35 36 37 38 39 40 41 42
Primary MIII Stockpile	Aeration Circuit Feed Dilution Water Libration Feed Dilution Water Libration Feed Dilution Water Conditioner Conditioner Conditioner Flodation Flo	Regerind Mill Feed Cyclone U.F. Plotation Crade Ci. Plotation Concentrate Seav Cleaner Chemistra Characterist (Pumped) Module 23 MG James 24 MG James 24 MG James 25 MG James
Secondary Crusher Stream Number 1 2 3 4 5 6 10 11 12 13 14 15 16 16 17 17 18 19 19 19 19 19 19 19	Aeration Circuit Feed Dilution Water Libration Feed Dilution Water Libration Feed Dilution Water Conditioner Conditioner Conditioner Flodation Flo	Regerind Mill Feed Cyclone U.F. Plotation Crade Ci. Plotation Concentrate Seav Cleaner Chemistra Characterist (Pumped) Module 23 MG James 24 MG James 24 MG James 25 MG James
3.4 Mtpa Mass Balance: Stream Number 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 16 16 16 16 16 16	17	Paul Day Day
3.4 Mtpa Mass Balance: Stream Number	17	Paul Day Day
3.4 Mtpa Mass Balance: Stream Number 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	177 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 32 4 26 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	Pad
3.4 Mtpa Mass Balance: Stream Number 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 Description	17	Part
3.4 Mtpa Mass Balance: Stream Number 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 16 16 16 16 16 16	17	December
3.4 Mtps Mass Balance: 1	17	Horation Jameson Cleaner Horation Ho
Secretary Secr	17	Particle
Stream Number 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16	17	Part

В	CJ	26/09/23	ISSUED FOR CLIENT COMMENT	LL	26/09/23	MMK	26/09/2
Α	MMK	27/07/23	ISSUED FOR COMMENT	WM	27/07/23	MML	27/07/2
REV.	BY	DATE	REVISIONS	снк.	DATE	S.L.	DATE



APPROVAL SIGNATURE DATE D.O. MANAGER PROJECT MANAGER M. Towsend July 2023 SECTION LEADER PROJECT ENGINEER DRAWN M. Kok Jul 2023 PROJECT ENGINEER DRG. CHECKED W. Mulder Jul 2023 DISCIPLINE ENGINEER ENG. CHECKED PR. ENG. / PR. TECH.							
PROJECT ENGINEER DRAWN M. Kok Jul 2023 PROJECT ENGINEER DRG. CHECKED W. Mulder Jul 2023 DISCIPLINE ENGINEER ENG. CHECKED T	APPROVAL	SIGNATURE	DATE	D.O. MANAGER]
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DISCIPLINE ENGINEER ENG. CHECKED	PROJECT ENGINEER			DRAWN	M. Kok	Jul 2023]
	PROJECT ENGINEER			DRG. CHECKED	W. Mulder	Jul 2023	Ļ
DISCIPLINE ENGINEER PR. ENG. / PR. TECH.	DISCIPLINE ENGINEER			ENG. CHECKED			l
	DISCIPLINE ENGINEER			P	R. ENG. / PR. TECH.		1

NAME: REG. NUMBER: DRAWING OFFICE

DRA PROJECTS

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SIGNATURE:

DISCIPLINE ENGINEER

DESIGN ENGINEER

Building 33 / The Woodlands Office Park 20 Woodlands Drive / Woodlands Sandton / South Africa / 2080 draglobal.com

TITLE KABANGA NICKEL PROJECT DFS CONCENTRATOR

OVERALL FLOWSHEET - SHEET 2 MASS BALANCE SUMMARY

4	-		ANCE SUM		icer z	
		PROJECT	DWG No.			SHEET
	A1	06902	PED	_	0003-02	2 05

LINE LEGEND:	
EXISTING:	
PHASE 1/CONTINUOUS FLOW:	
PHASE 2:	
INTERMITTENT_OPTIONAL:	
TEMPORARY:	