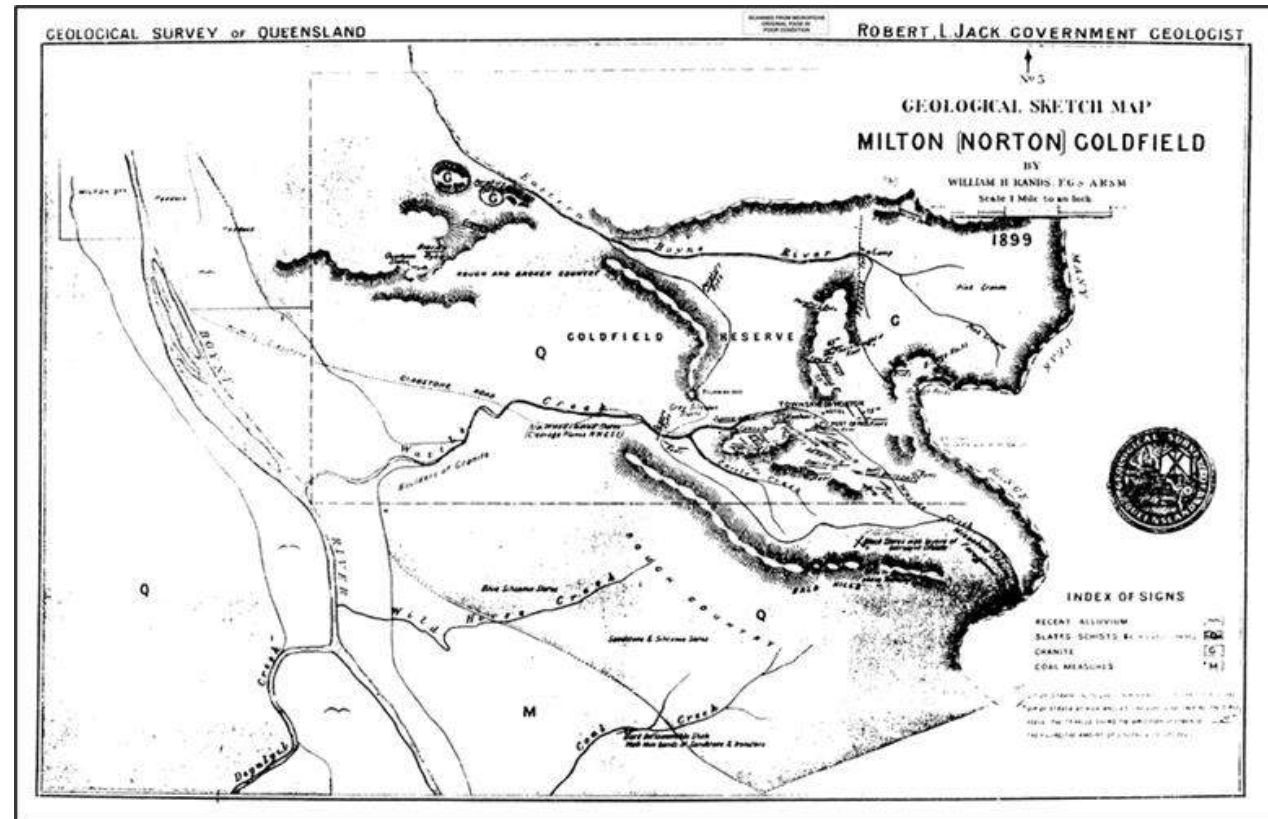


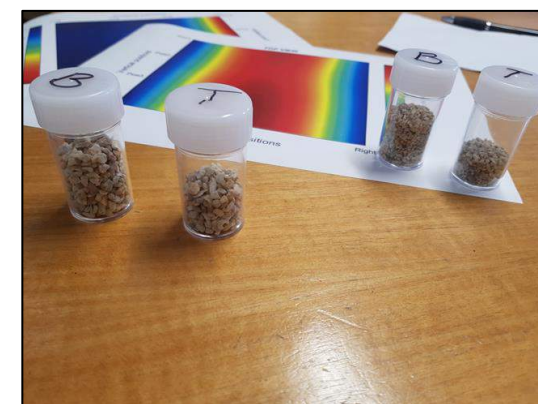
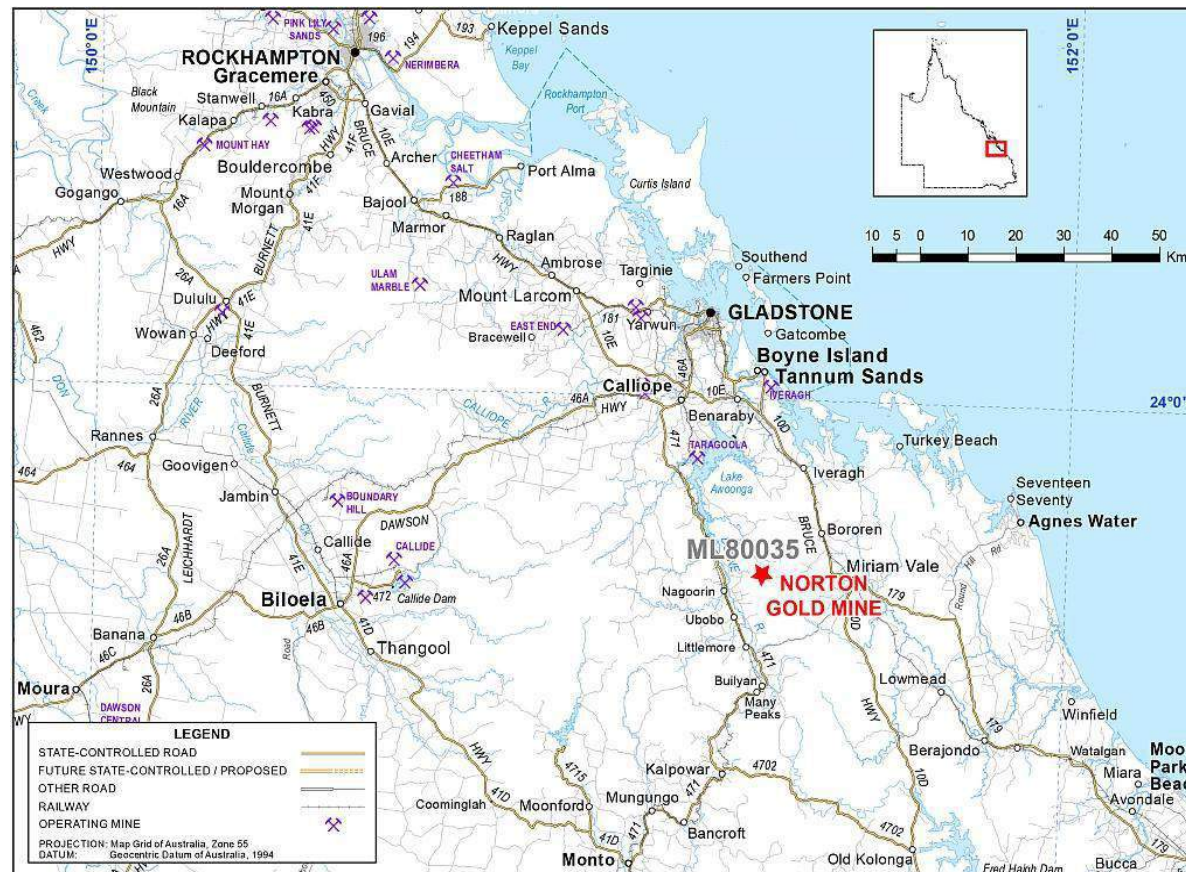
Welcome to Cleangold

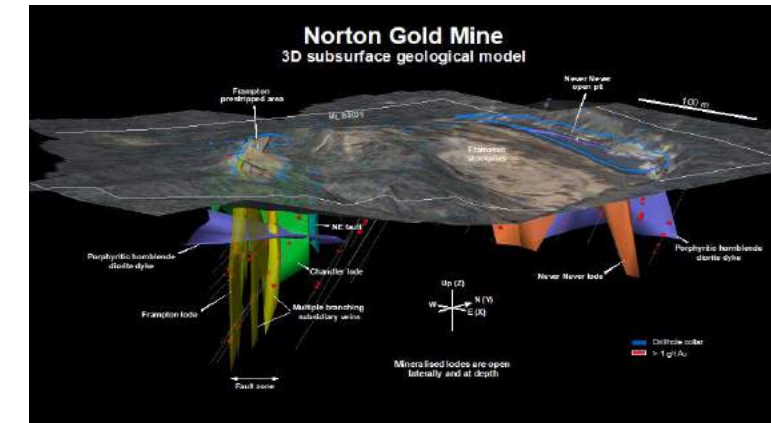


The Old Norton Gold Mine



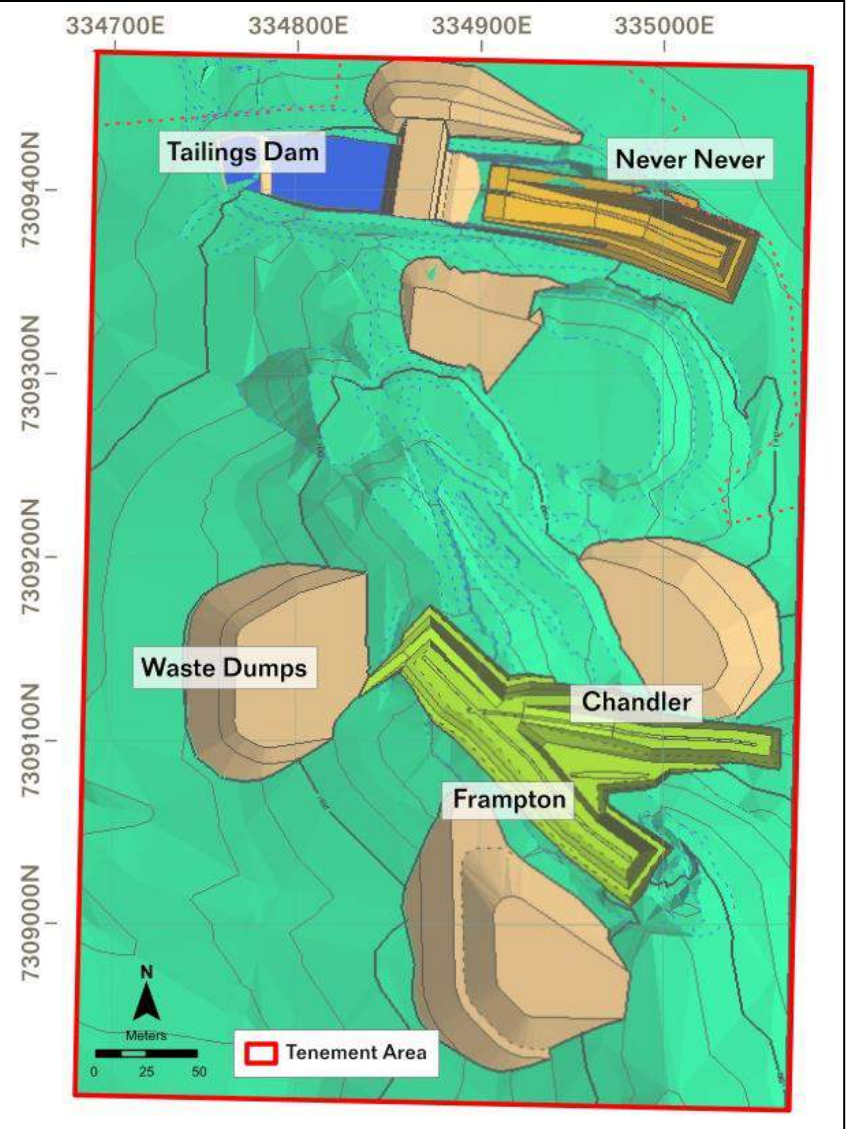
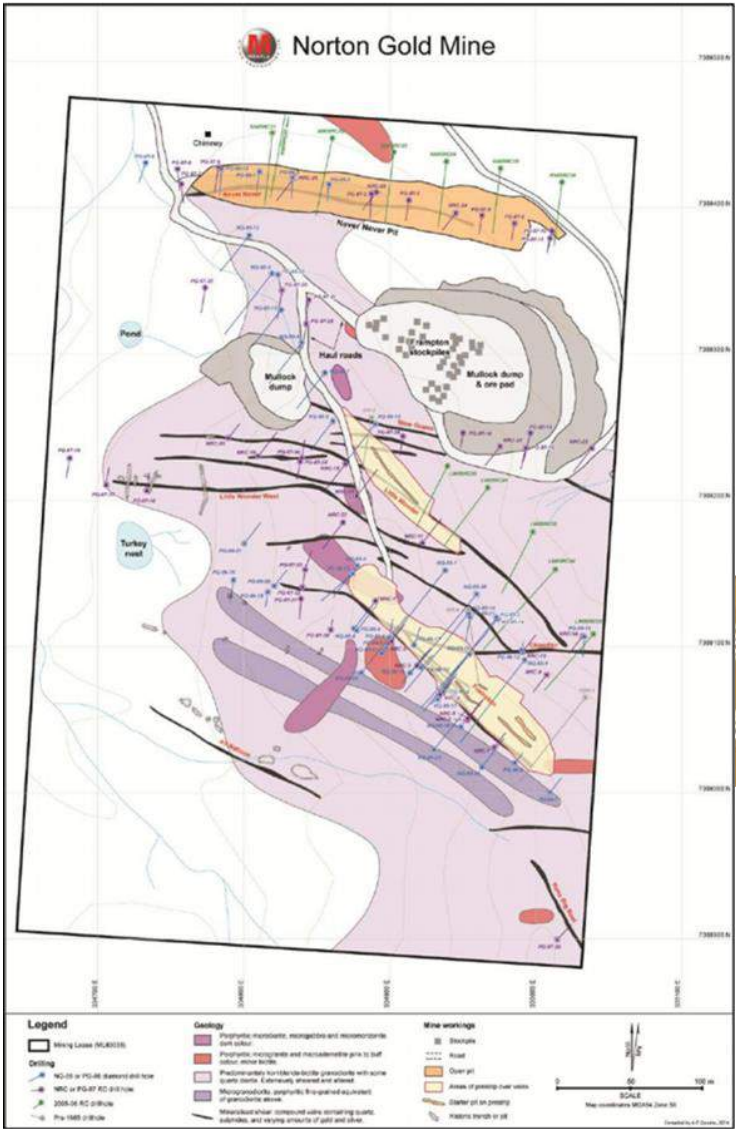
The New Norton Gold Mine





Class	Tonnes	Gold (g/t)	Gold (oz)	Silver (g/t)	Silver (oz)
Indicated	107,000	6.2	21,100	15	50,300
Inferred	141,000	3.9	17,700	12	52,600
Total	248,000	4.9	38,800	13	103,000

Mine Design



Dry Fine Separation

Intrusive Related Gold System (IRGS):

- Found along watercourses and near oceans.
- Permitting issues are due to wet processing.
- Dry fine processing allows mining to occur.

Separating waste from ore:

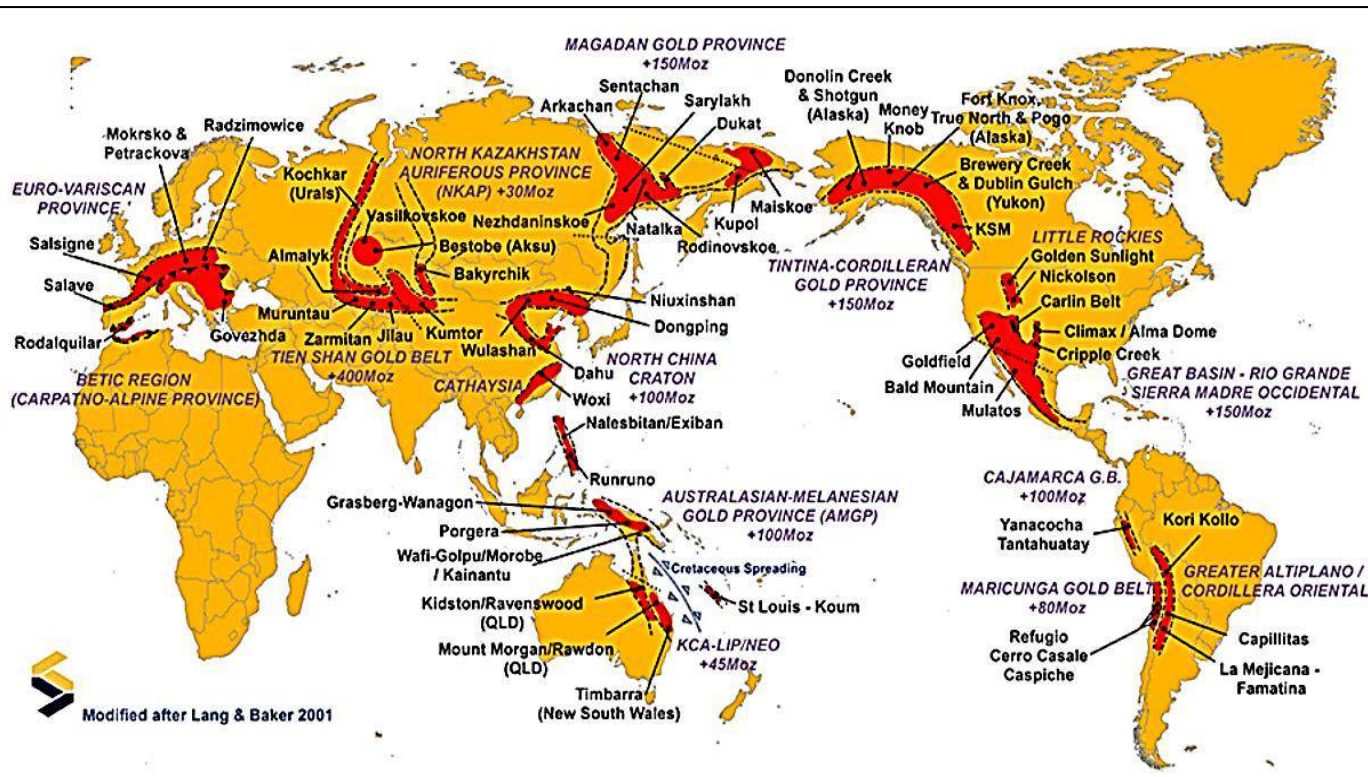
- Mine, process, leach, smelt.
- Break, separate, break again.
- One order of magnitude steps.

Ore Sorter optimises mining:

- Allows bulk mining methods.
- Maximise recovery, reduce costs.
- Reduce acidic tailings, no water.

Separator optimises process:

- Create high grade concentrates.
- Resolve wet process permitting.
- Maximise recovery, reduces cost.



Benefits of Sorting

At Norton, and in typical IRGS style deposits:

- The 50mm – 5mm fraction contains around 80% waste that is easy to Ore Sort.
- The 1mm – 0.1mm fraction contains another 80% waste Eddy Current ready.
- Recovery done dry in air allows stranded mines to gain approvals to operate.

Ore Sorter:

- Bulk mining.
- Coarse waste.
- Much more ore.

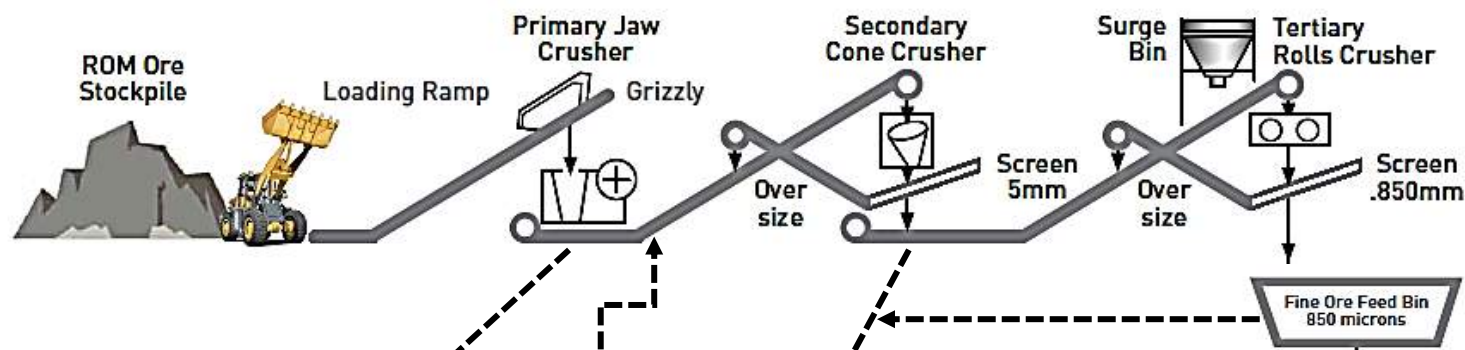


Eddy Separator:

- Fine waste.
- No wet tails.
- Allows permits.

<u>1000mm</u>	<u>100mm</u>	<u>10mm</u>	<u>1mm</u>	<u>0.1mm</u>	<u>0.01mm</u>
Explor drill	blast hole	jaw crush	cone crush	ball mill	bio-ox
JORC drill	mined ore	Opportunity	wet gravity	spin float	CN leach

Mine to Mill Improvements

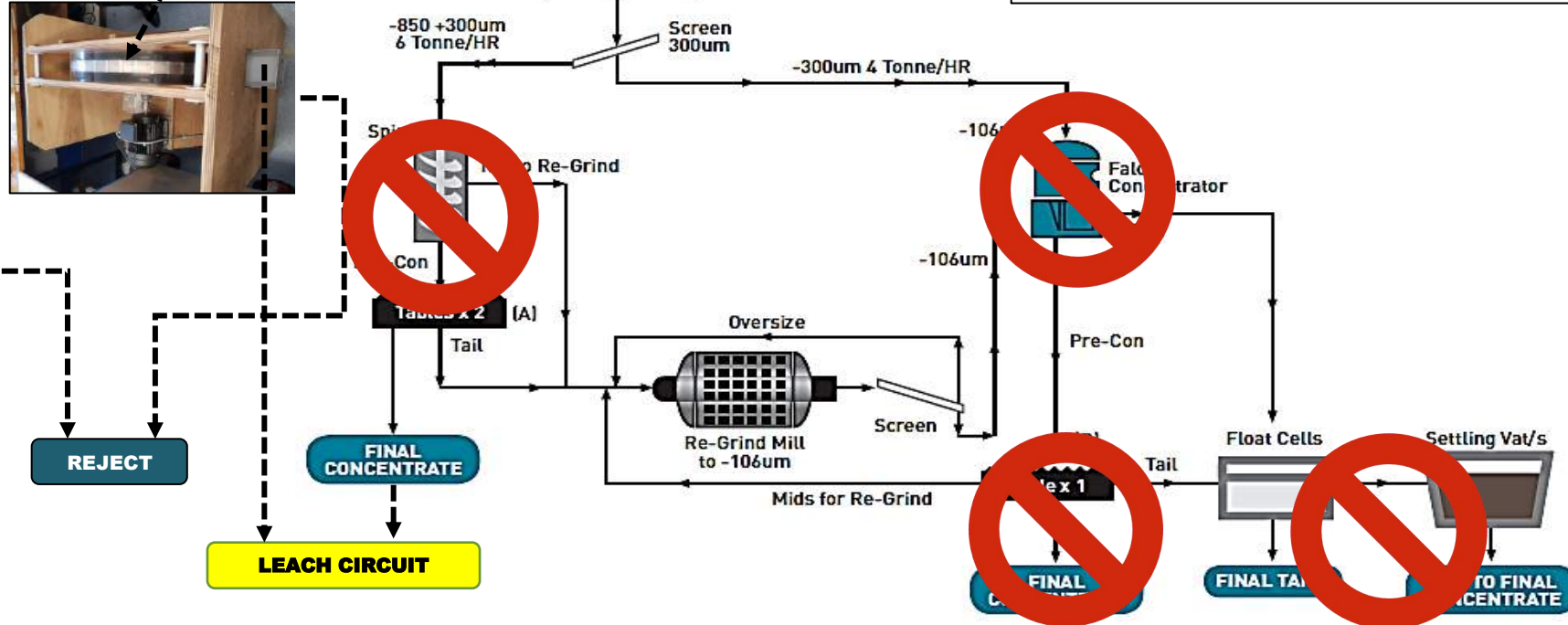


Dry separation:

- No WSF or TSF.
- Make ultra cons.
- Higher recovery.

Wet process:

- Full wet process.
- Large tails storage.
- Permitting issues.



The First Blast



The Ore offers Upgrade



The Rocks Offer Upgrade

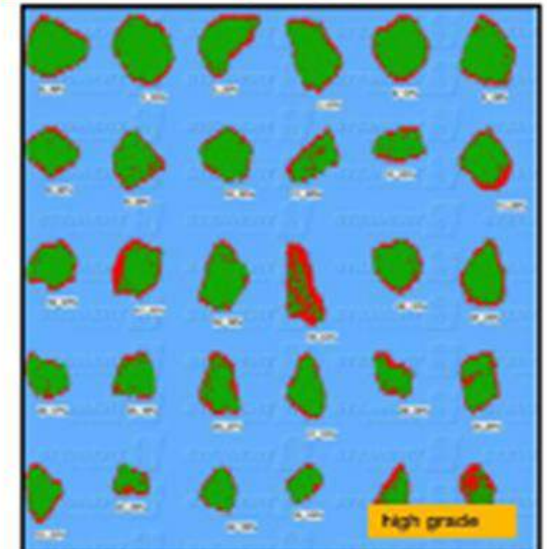
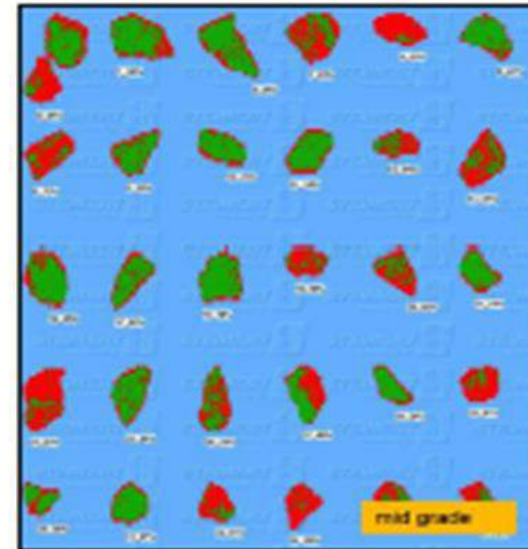
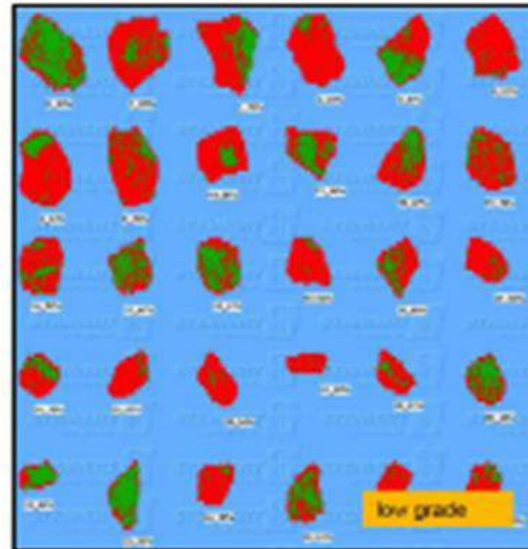
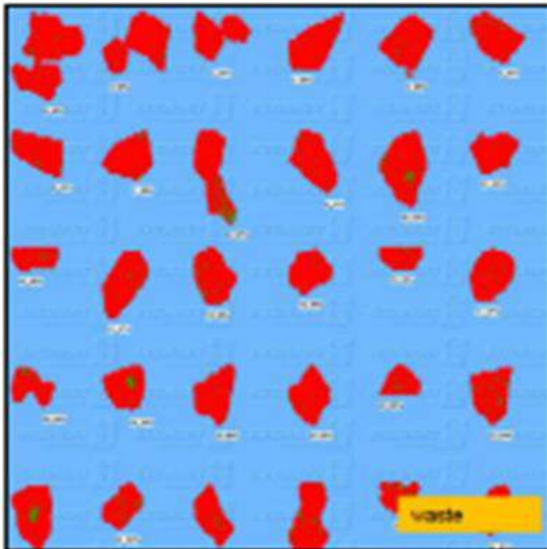


The Ore Sort Program



Barren wall rock, waste shear rock, and medium grade material and high grade material.

The Steinert sorter defines each piece of rock as red (waste) or green (grade carrying).



Ore Sorting Trials 2014



Crushing Screening Sorting

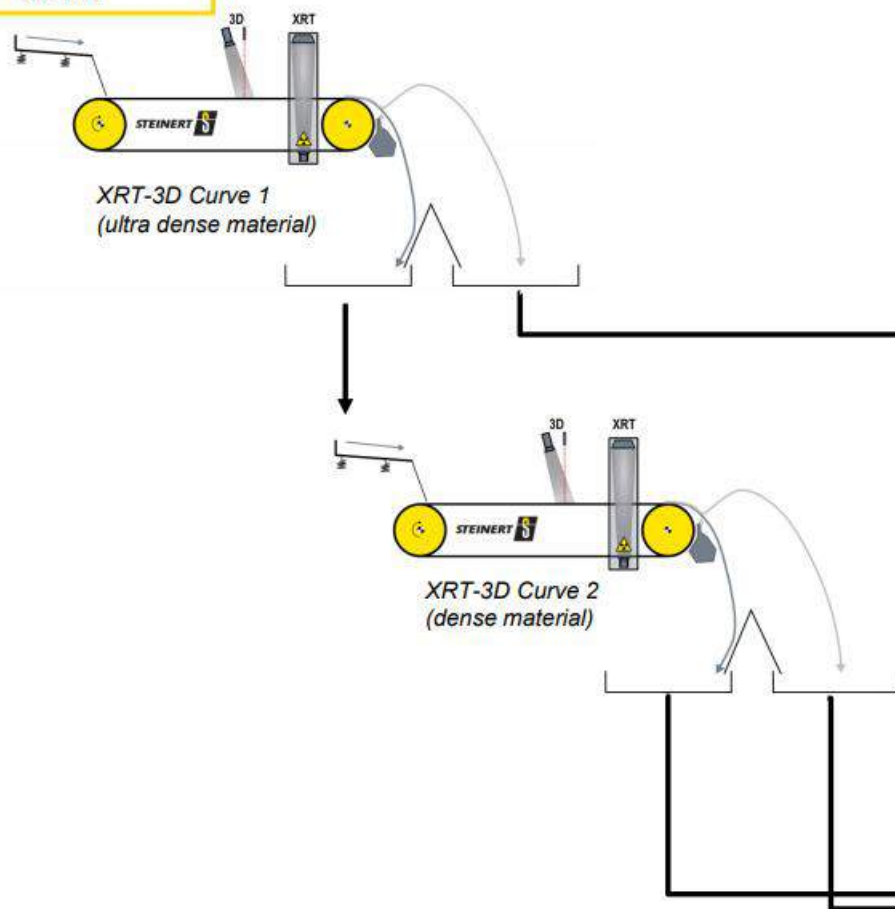


Ore Sorting Trials 2019

Test Work Results – Sensor Sorting



Feed: Silver HG
-30+10mm



P1E (Concentrate 1)
Yield: 62.67%
Au Grade: 109.5g/t



P2D (Waste)
Yield: 18.95%
Au Grade: 2.51g/t



P2E (Concentrate 2)
Yield: 18.38%
Au Grade: 18.45g/t

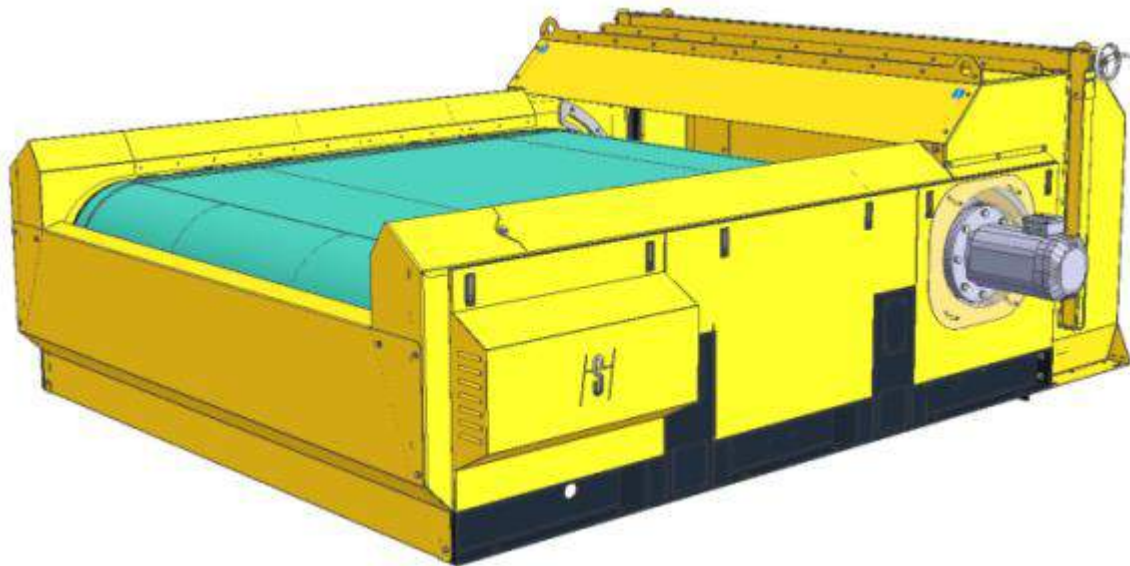


Ore Sorting Trials 2019

CLIENT : "Cleangold Pty Ltd"		Ore Sorter Feed										DATE FINALIZED : 2018-12-10						
SAMPLE	Dry Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K	La	Mg
DESCRIPTION	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	ppm	%
High grade -106um	0.51	85.8	202	3.1	81600	130	<10	380	<0.05	10	10	70	5240	17.3	<50	1.7	<50	0.13
Yellow ROM -106um	0.94	4.88	14	4.97	12450	320	<10	<20	0.11	<10	<10	60	460	3.55	<50	4.2	<50	0.27
Granite -106um	1.01	0.07	<1	4.34	160	390	<10	<20	2.42	<10	<10	90	50	1.95	<50	1.9	<50	0.38
SAMPLE	Dry Wt.	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti	Tl	U	V	W	Zn
DESCRIPTION	kg	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
High grade -106um	0.51	80	10	0.09	10	380	4910	16.1	120	<10	70	<50	0.05	<50	<50	20	<50	710
Yellow ROM -106um	0.94	60	<10	0.9	<10	330	770	1.56	<50	<10	120	<50	0.15	<50	<50	50	<50	190
Granite -106um	1.01	1070	<10	2.67	10	690	80	0.31	<50	<10	360	<50	0.24	<50	<50	50	<50	760
CLIENT : "Cleangold Pty Ltd"		Ore Sorter Products										DATE FINALIZED : 2019-03-05						
SAMPLE	Dry Wt.	Au	Ag	Al	As	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	K	La	Mg
DESCRIPTION	kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	%	ppm	%
HG P1E	6.58	109.5	180	0.97	115000	<50	<10	310	<0.05	<10	10	10	4520	24.7	<50	0.6	<50	0.05
HG P2E	1.93	18.45	39	3.43	56300	220	<10	70	<0.05	<10	10	20	2610	7.96	<50	2.8	<50	0.14
HG P2D	1.99	2.51	10	1.8	9500	380	<10	<20	<0.05	<10	<10	20	700	1.48	<50	4.5	<50	0.12
LG P1E	0.53	44.3	85	2.1	113000	100	<10	150	<0.05	10	20	20	2640	13.5	<50	1	<50	0.08
LG P2E	4.06	3.61	13	4.45	19450	340	<10	20	0.07	<10	<10	20	430	4.51	<50	3.1	<50	0.2
LG P2D	16.23	0.55	3	2.02	2740	350	<10	<20	0.07	<10	<10	20	100	1.45	<50	3.5	<50	0.13
WASTE P1E	0.16	16.9	34	1.57	22200	70	<10	60	0.71	90	50	10	280	19.1	<50	1.2	<50	0.16
WASTE P2E	3.37	0.17	1	5.5	760	400	<10	<20	2.25	<10	10	30	50	1.69	<50	1.1	<50	0.46
WASTE P2D	15.61	0.05	<1	5.64	150	400	<10	<20	2.11	<10	<10	30	20	1.49	<50	1.2	<50	0.44
SAMPLE	Dry Wt.	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th	Ti	Tl	U	V	W	Zn
DESCRIPTION	kg	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
HG P1E	6.58	50	<10	<0.05	<10	110	2580	>10.0	150	<10	30	<50	<0.05	<50	<50	10	<50	330
HG P2E	1.93	50	<10	0.06	<10	140	830	6.66	90	<10	50	<50	0.09	<50	<50	20	<50	110
HG P2D	1.99	40	<10	0.42	<10	70	420	1.55	<50	<10	30	<50	0.14	<50	<50	30	<50	60
LG P1E	0.53	90	<10	0.08	<10	550	4920	7.56	170	<10	380	<50	<0.05	<50	<50	10	<50	1220
LG P2E	4.06	70	<10	0.51	<10	390	440	1.5	50	<10	150	<50	0.12	<50	<50	30	<50	90
LG P2D	16.23	40	<10	1.19	<10	250	80	0.31	<50	<10	80	<50	0.16	<50	<50	40	<50	90
WASTE P1E	0.16	340	<10	0.34	20	100	1100	>10.0	<50	<10	60	<50	0.05	<50	<50	30	<50	11700
WASTE P2E	3.37	520	<10	2.94	<10	410	50	0.28	<50	<10	450	<50	0.2	<50	<50	40	<50	280
WASTE P2D	15.61	490	10	2.99	10	390	20	0.13	<50	<10	430	<50	0.2	<50	<50	40	<50	230

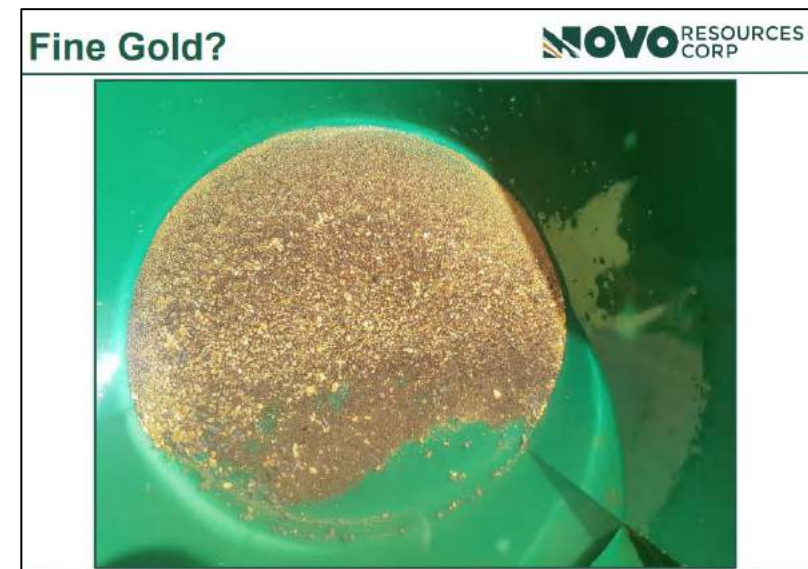
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Steinert Eddy C Fines 2018

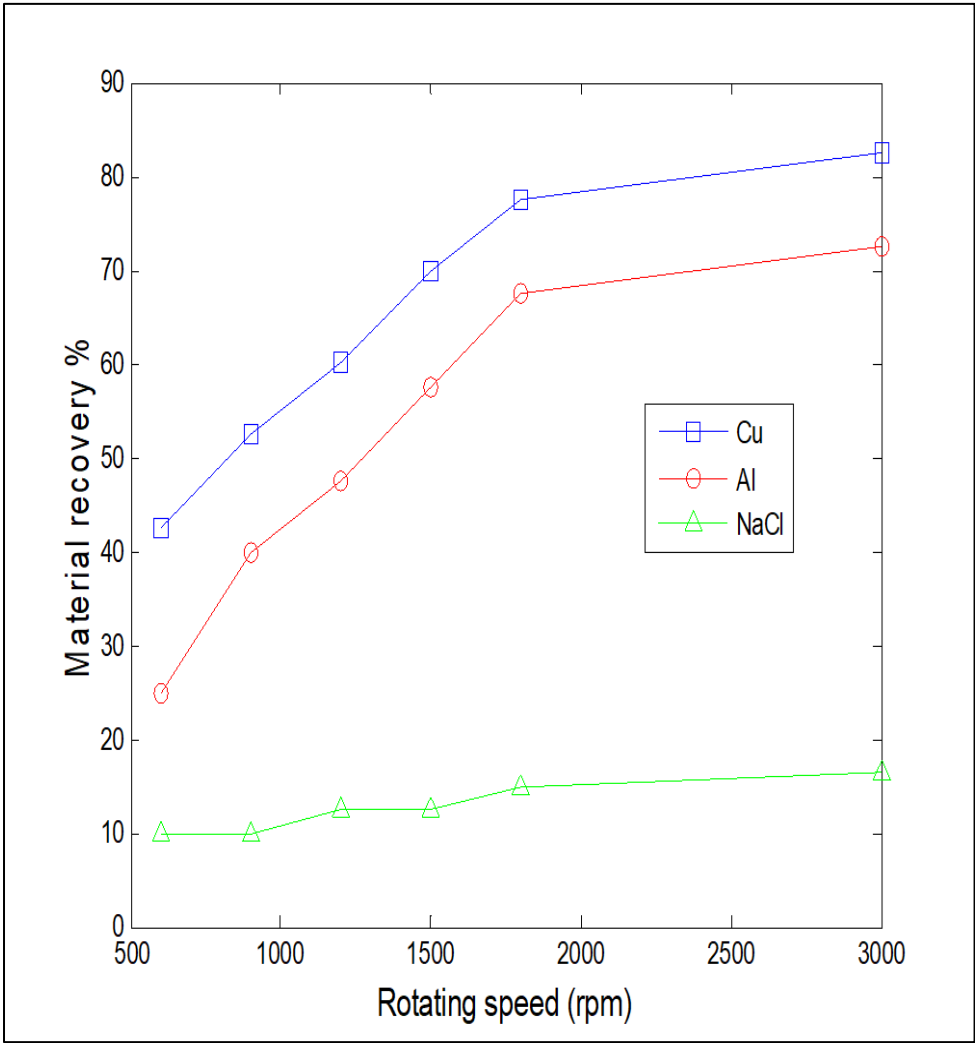
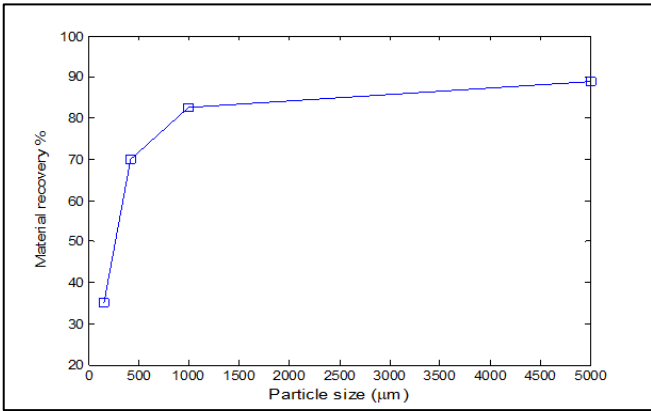
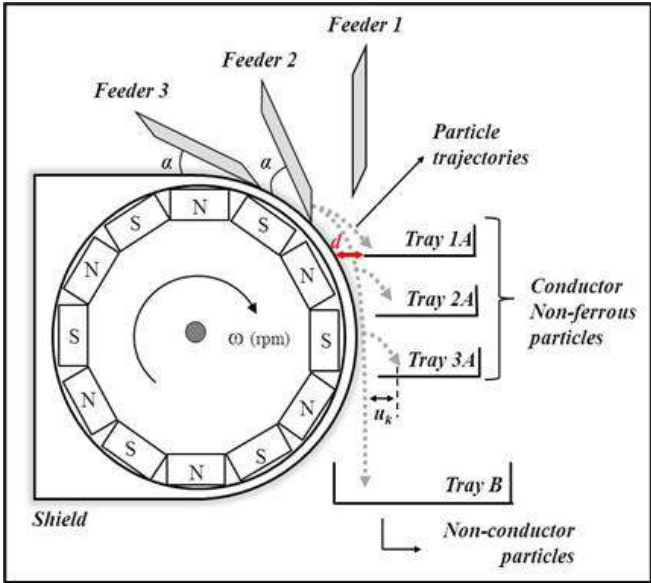
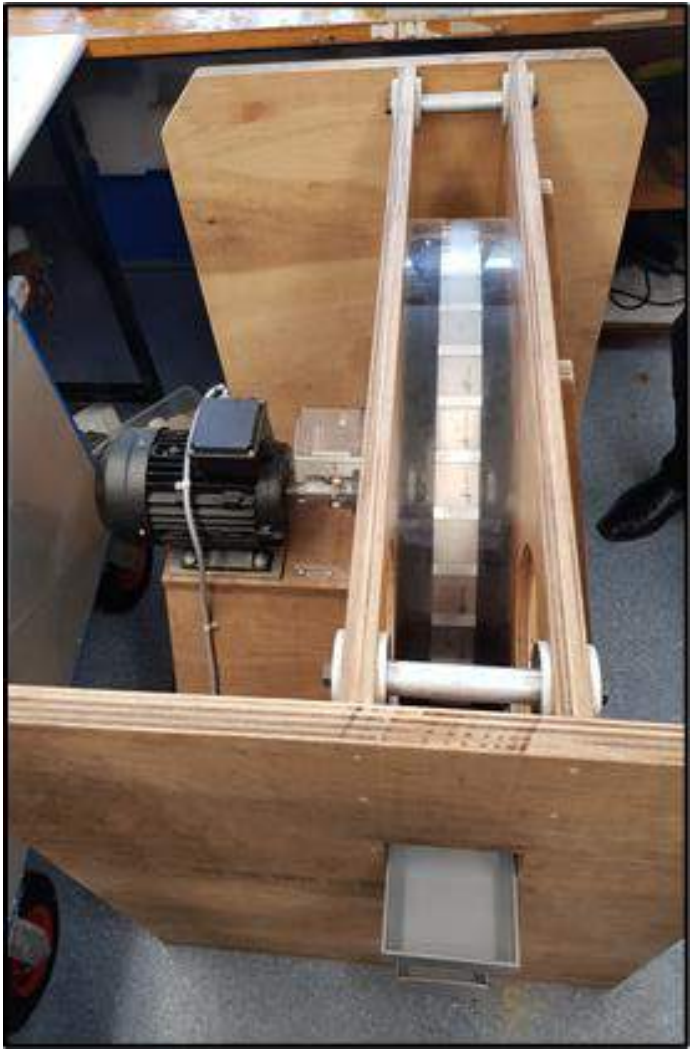


Application areas

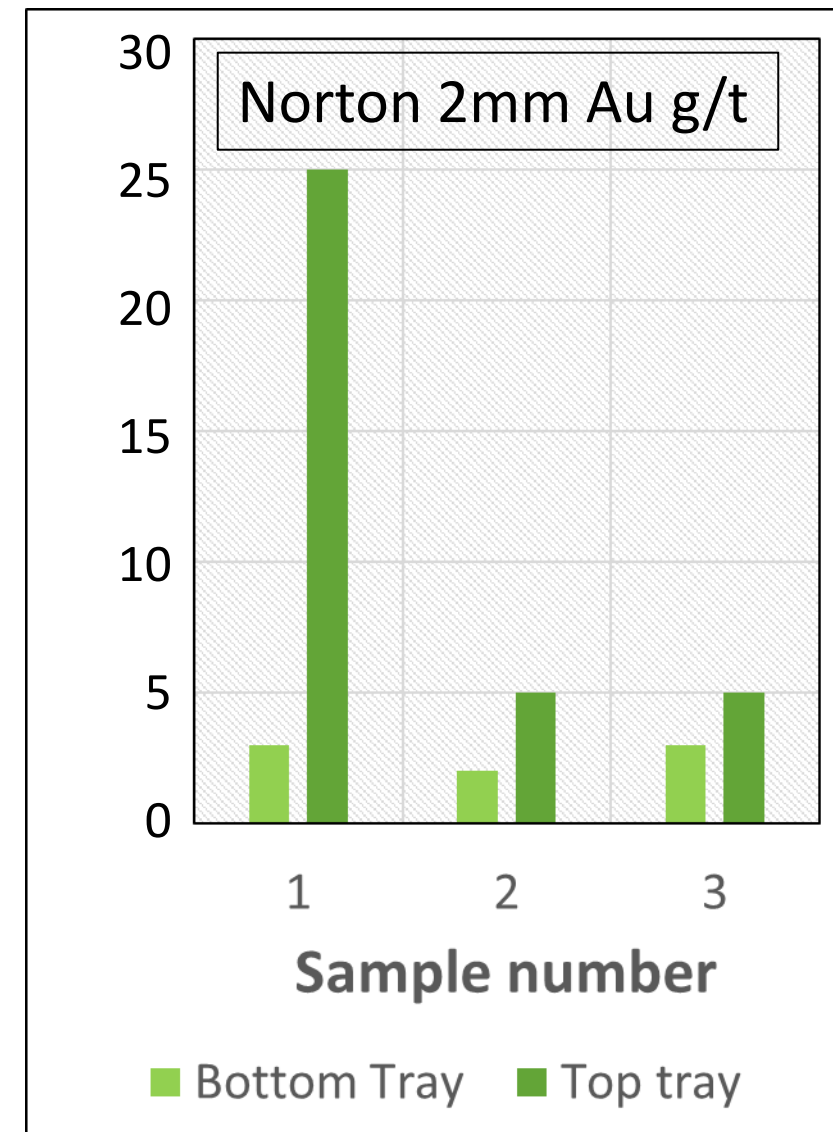
- Incinerated Bottom Ashes (IBA)
- Auto Shredder Residues (ASR)
- E-Scrap
- PET Flakes
- Aluminium Salt Slag



Eddy Separator Pure Metals



Eddy Separator ppm Metals





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