

# Metallurgical Assessment of Samples from the 3Ts Project

# METALLURGICAL ASSESSMENT OF SAMPLES FROM THE 3Ts PROJECT – BL1546

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JAKE LANG, B.E.Sc.  
PRINCIPAL METALLURGIST



HARM SANGRA, E.I.T  
METALLURGIST

22 August 2025

## 1.0 Introduction

Independence Gold's 3Ts project in central British Columbia is a mineral exploration site targeting high-grade gold and silver veins. This project aims to characterize the composition of three composite samples through mineralogical and chemical analysis and evaluate their metallurgical performance applying previously established conditions. Results were benchmarked against previously tested targets. The testing program included the following objectives:

- Apply detailed chemical analysis techniques to characterize feed by determining the chemical composition and identifying key elements present in the samples.
- Conduct a comprehensive mineralogical assessment using QEMSCAN™ to determine mineral abundance and sulphide liberation and to characterize the gold mineralogy through gold deportment.
- Investigate metallurgical testing of three composite samples using gravity concentration, froth flotation, and cyanide leaching means.

Approximately 100 kilograms of material were received at Base Metallurgical Laboratories Ltd. on April 4<sup>th</sup>, 2025, for use in this test program. The samples were received as prepared fine crush that was passing -3.35mm. Metallurgical testing commenced in April 2025.

This report summarizes key results from the test program. Not all data generated in the report is discussed; detailed results, such as condition sheets, assays and full sizing distributions, can be found in the appendices as follows:

- Appendix A: Chain of Custody
- Appendix B: Metallurgical Testing
- Appendix C: Assays
- Appendix D: Sizing
- Appendix E: Mineralogy

## 2.0 Feed Characterization

Three Master Composites, designated as Comp 1 (TD), Comp 2 (JMV), and Comp 3 (LV), were prepared from crushed material to characterize feed properties and conduct preliminary metallurgical testing. For further details on the construction of these composites, please refer to the sample origin information in Appendix A.

The composite samples underwent detailed chemical and mineralogical analyses. Subsequently, metallurgical testing was conducted using two selected flowsheets to evaluate their basic response. The test results will be presented and discussed by test type in the following subsections.

### 2.1 Chemical Composition

Detailed head assays were performed in singular for the three composites. Table 2 shows the element specific assays for the composites. Table 3 shows the results of an ICP scan on the composites. The following salient points should be considered when reviewing the data:

- The gold grade ranged between 2.89 to 4.75 g/t Au. Silver in the composites was present between 26 to 91 g/t Ag.
- The total sulphur content of the composites was quite low and measured between 0.07 and 0.13%.

TABLE 1: HEAD ASSAY-ELEMENT SPECIFIC

Sample	Assays		
	Au	Ag	S
Units	g/t	g/t	%
Comp 1 (TD)	2.89	26	0.13
Comp 2 (JMV)	4.85	56	0.09
Comp 3 (LV)	4.75	91	0.07

TABLE 2: MASTER COMPOSITE HEAD ASSAY-ICP SCAN

Analyte	Unit	Detection Limit	COMP 1 (TD)	COMP 2 (JMV)	COMP 3 (LV)
Ag	ppm	0.2	24.9	59.5	78.7
Al	%	0.01	0.13	0.09	0.16
As	ppm	1	95	25	18
B	ppm	10	< 10	< 10	< 10
Ba	ppm	10	39	74	105
Be	ppm	0.5	< 0.5	0.9	< 0.5
Bi	ppm	2	< 2	< 2	< 2
Ca	%	0.01	3.92	8.47	4.89
Cd	ppm	1	1	2	2
Co	ppm	1	2	1	3
Cr	ppm	1	143	96	117
Cu	ppm	1	33	57	19
Fe	%	0.01	0.67	0.60	0.79
Ga	ppm	5	< 5	< 5	< 5
Hg	ppm	1	< 1	< 1	< 1
K	%	0.01	0.14	0.10	0.13
La	ppm	5	< 5	< 5	< 5
Mg	%	0.01	0.10	0.23	0.51
Mn	ppm	2	818	1062	996
Mo	ppm	1	3	2	3
Na	%	0.01	0.02	0.01	0.01
Ni	ppm	1	4	3	7
P	%	0.001	0.006	0.006	0.007
Pb	ppm	2	27	114	46
S	%	0.01	0.13	0.09	0.05
Sb	ppm	2	59	20	16
Sc	ppm	1	1	1	1
Sr	ppm	1	41	123	47
Te	ppm	20	< 20	< 20	< 20
Th	ppm	5	5	6	5
Ti	%	0.01	< 0.01	< 0.01	< 0.01
Tl	ppm	2	5	6	5
U	ppm	10	< 10	< 10	< 10
V	ppm	1	1	1	6
W	ppm	5	< 5	< 5	< 5
Y	ppm	1	3	4	3
Zn	ppm	2	34	89	110
Zr	ppm	1	1	2	1

## **2.2 QEMSCAN: Mineral Abundance and Liberation**

Each composite was screened to produce three size fractions (+75 µm, +20 µm, and -20 µm) that were submitted for a mineralogical study by QEMSCAN™ using the Particle Mineral Analysis (PMA), each fraction was also assayed for total S and XRF Whole Rock Analysis for data quality control. The PMA analysis provides information on mineral abundance, sulphur distribution, liberation and association, and exposure.

### **2.2.1 Mineral Abundance**

The overall mineral abundance for each composite is presented in Table 5. Sulphur deportment by composite is presented in Table 6. The mineral abundance and sulphur deportment by size fraction can be found in Appendix F.

Pyrite was the main sulphide in all three composites, however, all were below 0.5% with the Comp 1 (TD) the highest at 0.32%. It was also the main contributor of sulphur in each sample, with Comp 1 (TD) at 91% and the lowest in Comp 3 (LV) at 77%. Other sulphide minerals were in trace amounts.

Quartz was the main non-sulphide gangue mineral, ranging from 78% in Comp 3 (LV) to 63% in Comp 2 (JMV). K-Feldspar was the other significant silicate mineral; clays were below 0.5%. Calcite was the main carbonate mineral, which was highest in Comp 2 (JMV) at 21%.

**TABLE 5: MINERAL ABUNDANCE**

Mineral	Mineral Abundance (wt% )		
	Comp 1 (TD)	Comp 2 (JMV)	Comp 3 (LV)
Pyrite	0.32	0.22	0.11
Chalcopyrite	0.01	0.01	0.01
Other Cu Sulphides	0.00	0.00	0.00
Galena	0.01	0.04	0.00
Sphalerite	0.02	0.01	0.03
Other Sulphides	0.00	0.00	0.00
Quartz	72.4	63.0	77.6
Plagioclase	0.99	1.32	0.13
K-Feldspar	11.7	7.27	3.33
Muscovite/illite	3.79	3.68	2.94
Chlorite	0.18	0.07	0.15
Clays	0.30	0.32	0.26
Other Silicates	0.08	0.12	0.92
Fe-Oxides	0.34	0.31	0.26
Other Oxides	0.21	0.16	0.16
Calcite	8.42	20.7	9.17
Dolomite	0.27	1.12	3.33
Ankerite	0.90	1.70	1.54
Siderite	0.00	0.00	0.00
Apatite	0.02	0.03	0.02
Other	0.05	0.01	0.03
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

**TABLE 6: SULPHUR DEPARTMENT**

Mineral	Mineral Distribution of Sulphur (% of total Sulphur)		
	Comp 1 (TD)	Comp 2 (JMV)	Comp 3 (LV)
Pyrite	90.9	87.9	76.9
Chalcopyrite	1.20	2.56	2.25
Other CuS	0.05	0.44	0.26
Galena	0.61	4.01	0.84
Sphalerite	3.71	3.31	14.0
Other Sulphides	0.37	0.87	0.78
Other	3.14	0.94	5.01
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

### 2.2.2 Pyrite Liberation and Association

Pyrite mineral liberation in the two composites is presented in Table 7. Mineral liberation and exposure by size fraction can be found in Appendix F.

Pyrite in Comp 1 (TD) and Comp 2 (JMV) were well liberated at 73% and 80% respectively. Comp 3 (LV) displayed slightly lower liberation at 55%. The non-liberated pyrite was predominantly associated as binary particles with non-sulphide gangue, ranging from 25% in Comp 3 (LV) to 16% in Comp 2 (JMV).

**TABLE 7: PYRITE LIBERATION AND ASSOCIATION**

Mineral Status	Pyrite Liberation (%)		
	Comp 1 (TD)	Comp 2 (JMV)	Comp 3 (LV)
Liberated	73.2	80.5	55.0
Binary - CuS	2.9	1.5	9.9
Binary - Os	3.6	1.4	7.9
Binary - Gn	19.8	16.1	24.7
Multiphase	0.6	0.4	2.5
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

### 2.3 Visible Gold Department Study

A visible gold department mineralogy study was carried out on each composite by QEMSCAN™ using the Trace Mineral Search (TMS) mode and Scanning Electron Microscopy (SEM). The full gold department data can be found in Appendix F.

A ~4 kg sample was ground to the primary grind size for each composite, each composite was then put through a lab scale Knelson concentrator, which produced a Knelson concentrate and a Knelson tailing. The Knelson concentrate was then further upgraded on a Mozely Table, producing a Mozely concentrate and tailing. The Mozely concentrate was submitted for gold department mineralogical analysis along with a sub sample of the Mozely tailing. A further subsample of the Mozely tailing and a sub sample of the Knelson tailing were submitted for gold assay. These were used to produce a gold metal balance and gold distribution in which to base the gold mineralogy on. Five graphite impregnated polished sections were prepared in total, with three for the Mozely concentrate and two for the Mozely tailing. These were submitted for QEMSCAN™ and SEM analysis.

Comp 3 (LV) had the most grains analysed with a total of 730, which were generally electrum in composition, but there were also kustelite and native gold found, with 53% less than 25 µm in size and 30% between 53 and 100 µm. Comp 2 (JMV) had 485 grains, which were electrum, native gold

and native silver was also found, 87% of the grains are less than 25 µm in size. There were 426 grains analysed in Comp 1 (TD) which were mostly electrum with at least one kieselite grain identified, 92% less than 25 µm in size.

Overall gold liberation and exposure are presented in Table 9 and Table 10.

Comp 3 (LV) showed the best gold mineral liberation at 61%, with most of the remaining non-liberated gold as complex particles (gold plus more than one other mineral), with 9% associated with pyrite. This comp also shows the best overall exposure of the gold minerals with 51% exposed (>80% of surface area exposed) and less than 10 % totally locked grains. Comp 1 (TD) had 29% of the gold minerals liberated, with 71% unliberated, this was mostly split between complex particles (31%), gold with pyrite (26%) and gold with silver minerals (12%). Exposure of these gold minerals showed that 36% was exposed, with 23% slightly exposed (up to 10% exposed surface) and 18% totally locked.

Comp 2 (JMV) had the lowest liberation of the three comps with 21% of the gold minerals liberated. The majority of the non-liberated gold was split between associated with silver minerals (~25%), as complex grains (21%) and with pyrite (20%). In terms of exposure, only 21% was exposed, with 51% partially exposed (up to 20% exposed) and 14% totally locked.

**TABLE 9: GOLD LIBERATION AND ASSOCIATION**

Liberation/Association	Comp 1 (TD)	Comp 2 (JMV)	Comp 3 (LV)
Pure Gold Minerals	24.3	9.59	29.9
Free Gold Minerals	2.91	10.0	20.0
Lib Gold Minerals	1.87	1.52	10.9
Gold:Silver Minerals	11.7	25.5	5.65
Gold:Pyrite	26.2	20.3	9.48
Gold:Other Sul	0.19	0.82	0.00
Gold:Silicates	1.86	8.99	0.92
Gold:Carbonates	0.00	2.59	0.00
Gold:Fe Oxides	0.00	0.00	0.00
Gold:Others	0.00	0.00	0.00
Complex	30.9	20.7	23.1
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>
Total Liberated	29.1	21.1	60.8
Total Associated with Other Phases	70.9	78.9	39.2
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

**TABLE 10: GOLD EXPOSURE**

Exposure (%)	Comp 1 - TD	Comp 2 - JMV	Comp 3 - LV
Exposed	36.2	21.3	51.4
50-80% Exposed	3.49	0.63	14.5
30-50% Exposed	3.39	2.55	2.45
20-30% Exposed	6.34	10.9	5.08
10-20% Exposed	9.50	28.7	6.06
0-10% Exposed	22.7	21.9	12.1
Locked	18.3	13.9	8.49
<b>Total</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

## 4.0 Metallurgical Testing

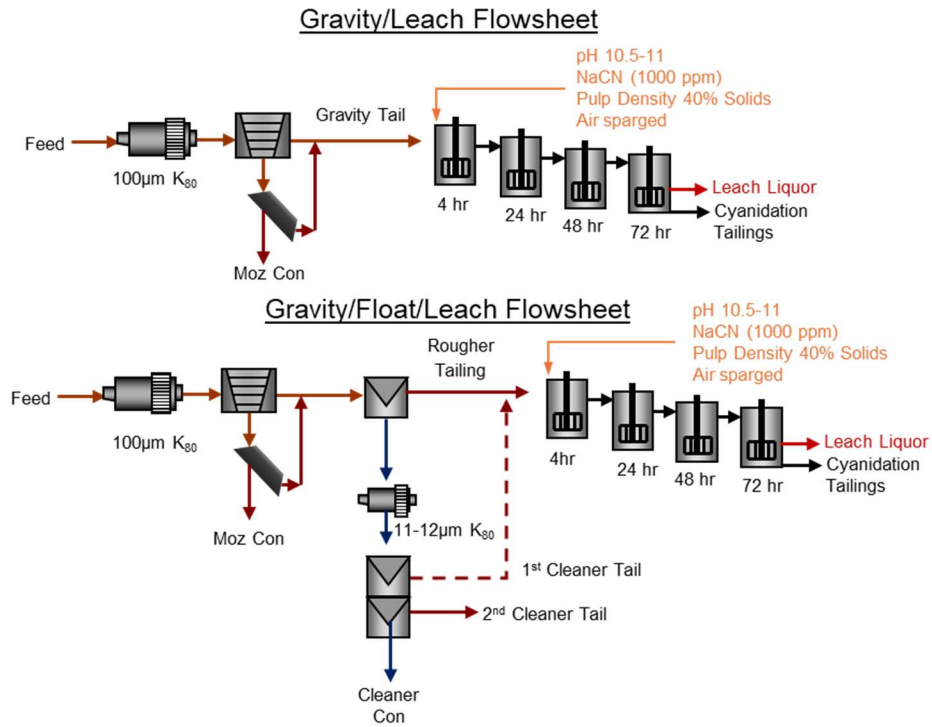
Metallurgical testing was performed on all three composite samples to evaluate gold and silver recovery methods. Conventional processing options were tested, including gravity concentration, flotation and cyanide leaching. Two specific flowsheets were used to assess metallurgical performance. The first flowsheet involved primary grinding to a target size  $k_{80}$  of 100  $\mu\text{m}$ , followed by gravity concentration and cyanide leaching of the gravity tailings. The second flowsheet was tested also at primary grind  $k_{80}$  of 100  $\mu\text{m}$ , gravity concentration, flotation of the gravity tails, and cyanide leaching of the final flotation tailings (Rougher Tail plus 1st Cleaner Tail). The flowsheet block diagrams are shown in Figure 1, with a summary of the results provided in Table 11. Detailed test results and conditions can be viewed in Appendix B.

Comparing the two evaluated flowsheets, the gravity concentrate recovered an average of 17.4% of the gold and 8.6% of the silver from the three composites. The flotation concentrates increased recoveries, achieving average metal recoveries of 58% for gold and 64% for silver across the three composites.

Overall, the flowsheet combining gravity concentration, flotation, and cyanide leaching of the final tailings yielded the best results, with average metal recoveries increasing by 1.5% for gold and 14.4% for silver.

Further study of leaching conditions is recommended to potentially enhance overall metal extraction. Potential improvements could include a pre-oxidation period before leaching, substitution of air sparging with oxygen sparging, and increased cyanide dosage to boost gold and silver recovery.

**FIGURE 1: FLOWSHEET SCHEMATICS**



**TABLE 11: METALLURGICAL RESULTS SUMMARY**

Comp ID	Test Type	Test #	Product	Stage Performance		Combined Recovery (%)			
				Distribution - %		Grav/Leach		Grav/Float/Leach	
				Au	Ag	Au	Ag	Au	Ag
Comp 1 (TD)	Gravity/Leach	G-01A	Moz Con	14.9	7.9	89.2	77.1	91.9	91.5
		CN-01C	72 h PLS	87.3	75.2				
	Gravity/Float/Leach	G-07A	Moz Con	17.0	9.7				
		CI-07B	Clnr Con	54.0	59.9				
		CI-07B	1st Clnr Tail	2.1	4.8				
	CI-07B	RT	42.5	32.2					
	CN-07C	72 h PLS	81.3	83.0					
Comp 2 (JMV)	Gravity/Leach	G-02A	Moz Con	8.3	4.4	86.6	75.3	89.5	85.8
		CN-02C	72 h PLS	85.4	74.2				
	Gravity/Float/Leach	G-08A	Moz Con	7.12	3.02				
		CI-08B	Clnr Con	49.2	53.1				
		CI-08B	1st Clnr Tail	6.5	12.2				
	CI-08B	RT	41.6	30.4					
	CN-08C	72 h PLS	82.2	75.8					
Comp 3 (LV)	Gravity/Leach	G-03A	Moz Con	29.7	16.0	96.4	75.0	95.5	93.4
		CN-03C	72 h PLS	94.9	70.2				
	Gravity/Float/Leach	G-09A	Moz Con	27.2	10.4				
		CI-09B	Clnr Con	70.7	77.9				
		CI-09B	1st Clnr Tail	2.9	3.0				
	CI-09B	RT	23.6	16.1					
	CN-09C	72 h PLS	86.7	77.0					

## 5.0 Conclusions

The metallurgical testing program conducted on samples from the 3Ts Project has provided valuable insights into the project's potential for gold extraction.

Approximately 100 kilograms of -3.35 mm crushed material were received in April 2025 for metallurgical testing.

Three master composites (Comp 1, Comp 2, and Comp 3) tested feeds that ranging from 2.89 to 4.75 g/t Au and 26 to 91 g/t Ag. Sulphur content was low, between 0.07 and 0.13%.

All three composites were similar in terms of their overall mineralogy, they were all low in sulphides with none of the comps having a total sulphide content above 0.5%, with pyrite being the main sulphide of note. The comps were quartz dominated, with all samples over 60%, there was moderate to minor K-Feldspar and calcite.

In terms of the gold mineralogy, gold-silver species dominate, with electrum for the most part but some kustelite was also encountered, there was some native gold found in Comps 2 (JMV) and 3 (LV) however. Comp 3 (LV) displayed the best liberation at 61% and exposure at 51% but also had the coarsest gold particle size with 47% greater than 25  $\mu\text{m}$  and only 53% less, whereas Comp 1 (TD), and Comp 2 (JMV) were at 92 and 87% respectively less than 25  $\mu\text{m}$ . This indicates that this composite contains coarser, better liberated gold minerals than the other two comps, but also the lower sulphide levels which would indicate that the coarser gold is associated with quartz rich (veining) domains.

Testing employed conventional techniques including gravity concentration, froth flotation, and cyanide leaching, across two flowsheets targeting a grind size of 100  $\mu\text{m}$  K<sub>80</sub>. Gravity concentrates recovered an average of 17.4% gold and 8.6% silver, while flotation concentrates achieved 58% gold and 64% silver recovery.

The combined flowsheet of gravity, flotation, and cyanide leaching yielded the highest recoveries, improving gold by 1.5% and silver by 14.4%.

Further optimization of leaching conditions is recommended to enhance metal extraction, including pre-oxidation, oxygen sparging, and increased cyanide dosage



**APPENDIX A**  
**CHAIN OF CUSTODY**

Samples were received at Base Metallurgical Laboratories in a single shipment on April 4, 2025. Table A-1 provides the sample identification and mass information for the samples received. Pictures of the samples as received are provided as Photos A-1. Samples were received in well labelled rice sacks.

Upon receipt, Comp 1, Comp 2 and Comp 3 were constructed as per client request as noted in Table A-1. The composites were then stage crushed to pass 3.35mm (6 mesh) and split into 2 kg charges in preparation for grind calibrations and flotation testing. Results from the grind calibrations are provided in Appendix D, while flotation testing results are located in Appendix B. Duplicate representative head cuts were also removed and assayed for elements of interest. Full assay results, and the assay certificates, are provided in Appendix C.

**TABLE-1A**  
**SAMPLE RECEIVED**  
**COMP 1 (TOMMY DEEP)**

Comp ID	Hole_ID	Area	Sample_ID	From_m	To_m	Lith	Cert_No	WEIGHT_kg
<b>COMPOSITE 1 - TOMMY DEEP</b>	3TS-24-27	Tommy - Resource Infill	D00298825	361.39	362		BBM24-45661	1.5
	3TS-24-27	Tommy - Resource Infill	D00298826	362	362.5		BBM24-45688	1.04
	3TS-24-27	Tommy - Resource Infill	D00298827	362.5	363		BBM24-45688	1.22
	3TS-24-27	Tommy - Resource Infill	D00298828	363	363.5		BBM24-45688	1.14
	3TS-24-27	Tommy - Resource Infill	D00298829	363.5	364		BBM24-45688	1.1
	3TS-24-27	Tommy - Resource Infill	D00298830	364	364.5		BBM24-45688	1.03
	3TS-24-27	Tommy - Resource Infill	D00298831	364.5	365		BBM24-45688	1.32
	3TS-24-27	Tommy - Resource Infill	D00298832	365	365.5		BBM24-45688	1.18
	3TS-24-27	Tommy - Resource Infill	D00298833	365.5	366		BBM24-45688	1.11
	3TS-24-27	Tommy - Resource Infill	D00298904	424.03	424.5		BBM24-45698	1.43
	3TS-24-27	Tommy - Resource Infill	D00298905	424.5	425		BBM24-45698	1.28
	3TS-24-27	Tommy - Resource Infill	D00298906	425	425.5		BBM24-45698	1.31
	3TS-24-27	Tommy - Resource Infill	D00298907	425.5	426.67		BBM24-45698	1.75
	3TS-24-27	Tommy - Resource Infill	D00298908	426.67	428.09		BBM24-45698	3.76
	3TS-24-27	Tommy - Resource Infill	D00298909	428.09	428.5		BBM24-45698	1.31
	3TS-24-27	Tommy - Resource Infill	D00298910	428.5	429.03		BBM24-45698	1.21
	3TS-24-27	Tommy - Resource Infill	D00298911	429.03	429.44		BBM24-45698	1.1
3TS-24-27	Tommy - Resource Infill	D00298912	429.44	429.96		BBM24-45698	1.47	

**TABLE-1B**  
**SAMPLE RECEIVED**  
**COMP 2 (JOHNNY MAIN VEINS)**

Comp ID	Hole_ID	Area	Sample_ID	From_m	To_m	Lith	Cert_No	WEIGHT_kg
COMPOSITE 2 - JOHNNY MAIN VEINS	3TS-25-05	Johnny	D00301007	13.59	14.09	VEIN	BBM25-47465	1.21
	3TS-25-05	Johnny	D00301008	14.09	14.59	VEIN	BBM25-47465	1.44
	3TS-25-05	Johnny	D00301009	14.59	15.11	VEIN	BBM25-47465	1.5
	3TS-25-05	Johnny	D00301010	15.11	15.64	VEIN	BBM25-47465	1.29
	3TS-25-05	Johnny	D00301011	15.64	16.35	RQFP	BBM25-47465	1.74
	3TS-25-05	Johnny	D00301012	16.35	16.88	VEIN	BBM25-47465	1.47
	3TS-25-05	Johnny	D00301013	16.88	17.41	VEIN	BBM25-47465	1.52
	3TS-25-05	Johnny	D00301014	17.41	17.94	VEIN	BBM25-47465	1.41
	3TS-25-05	Johnny	D00301015	17.94	18.51	RQFP	BBM25-47465	1.53
	3TS-25-05	Johnny	D00301016	18.51	19.08	RQFP	BBM25-47465	1.75
	3TS-25-05	Johnny	D00301017	19.08	19.89	VEIN	BBM25-47465	1.99
	3TS-25-05	Johnny	D00301022	22.39	22.89	VEIN	BBM25-47465	1.48
	3TS-25-05	Johnny	D00301023	22.89	23.39	VEIN	BBM25-47465	1.44
	3TS-25-05	Johnny	D00301042	36.89	37.63	RQFP	BBM25-47465	2.08
	3TS-25-05	Johnny	D00301043	37.63	38.36	RQFP	BBM25-47465	1.75
	3TS-25-05	Johnny	D00301044	38.36	39.17	VEIN	BBM25-47465	2.03
	3TS-25-05	Johnny	D00301045	39.17	40.03	RQFP	BBM25-47465	2.37
	3TS-25-05	Johnny	D00301046	40.03	40.88	RQFP	BBM25-47465	2.27
	3TS-25-05	Johnny	D00301047	40.88	41.6	RQFP	BBM25-47465	1.97
	3TS-25-05	Johnny	D00301086	65.63	66.24	VEIN	BBM25-47473	1.44
	3TS-25-05	Johnny	D00301087	66.24	66.76	RQFP	BBM25-47473	1.09
	3TS-25-05	Johnny	D00301088	66.76	67.21	VEIN	BBM25-47473	1.33
	3TS-25-05	Johnny	D00301089	67.21	68.3	RQFP	BBM25-47473	2.73
	3TS-25-05	Johnny	D00301090	68.3	68.95	VEIN	BBM25-47473	1.73
	3TS-25-05	Johnny	D00301091	68.95	69.6	VEIN	BBM25-47473	1.78
	3TS-25-05	Johnny	D00301092	69.6	70.26	VEIN	BBM25-47473	1.66
	3TS-25-05	Johnny	D00301096	72.96	73.46	VEIN	BBM25-47473	1.34
	3TS-25-05	Johnny	D00301097	73.46	74	VEIN	BBM25-47473	1.32
	3TS-25-05	Johnny	D00301098	74	74.5	VEIN	BBM25-47473	1.29
	3TS-25-05	Johnny	D00301099	74.5	75.03	VEIN	BBM25-47473	1.22
	3TS-25-05	Johnny	D00301101	75.03	76.06	VEIN	BBM25-47473	2.75
	3TS-25-05	Johnny	D00301109	81	81.5	VEIN	BBM25-47473	1.47
	3TS-25-05	Johnny	D00301110	81.5	82	VEIN	BBM25-47473	1.17
	3TS-25-05	Johnny	D00301111	82	82.5	VEIN	BBM25-47473	1.22
	3TS-25-05	Johnny	D00301112	82.5	83	VEIN	BBM25-47473	1.24
3TS-25-05	Johnny	D00301113	83	83.5	VEIN	BBM25-47473	1.31	
3TS-25-05	Johnny	D00301114	83.5	84	VEIN	BBM25-47473	1.15	
3TS-25-05	Johnny	D00301115	84	84.5	VEIN	BBM25-47473	1.22	
3TS-25-05	Johnny	D00301116	84.5	85	VEIN	BBM25-47473	1.38	
3TS-25-05	Johnny	D00301117	85	85.5	VEIN	BBM25-47473	1.24	

**TABLE-1C**  
**SAMPLE RECEIVED**  
**COMP 3 (LARRY VEIN)**

Comp ID	Hole_ID	Area	Sample_ID	From_m	To_m	Lith	Cert_No	WEIGHT_kg
<b>COMPOSITE 3 - LARRY VEIN</b>	3TS-25-07	Larry	D00301295	179	179.5	VEIN	BBM25-47616	1.09
	3TS-25-07	Larry	D00301296	179.5	180.11	VEIN	BBM25-47616	1.81
	3TS-25-07	Larry	D00301298	181.42	181.86	VEIN	BBM25-47616	1.1
	3TS-25-07	Larry	D00301299	181.86	182.5	VEIN	BBM25-47616	1.88
	3TS-25-07	Larry	D00301301	182.5	183	VEIN	BBM25-47616	1.38
	3TS-25-07	Larry	D00301302	183	183.5	VEIN	BBM25-47616	1.26
	3TS-25-07	Larry	D00301303	183.5	184	VEIN	BBM25-47616	1.32
	3TS-25-07	Larry	D00301304	184	184.65	VEIN	BBM25-47616	1.56
	3TS-25-07	Larry	D00301305	184.65	185.5	RQFP	BBM25-47616	2.17
	3TS-25-07	Larry	D00301306	185.5	186.24	RQFP	BBM25-47616	1.57
	3TS-25-07	Larry	D00301307	186.24	187	VEIN	BBM25-47616	1.99
	3TS-25-07	Larry	D00301308	187	187.5	VEIN	BBM25-47616	1.22
	3TS-25-07	Larry	D00301309	187.5	188	VEIN	BBM25-47616	1.23
	3TS-25-07	Larry	D00301310	188	189	VEIN	BBM25-47616	2.13
	3TS-25-07	Larry	D00301311	189	190	VEIN	BBM25-47616	2.33
	3TS-25-07	Larry	D00301312	190	191	VEIN	BBM25-47616	2.33
	3TS-25-07	Larry	D00301313	191	191.5	VEIN	BBM25-47616	1.09
	3TS-25-07	Larry	D00301314	191.5	192	VEIN	BBM25-47616	1.12
	3TS-25-07	Larry	D00301315	192	193	VEIN	BBM25-47616	1.23
	3TS-25-07	Larry	D00301316	193	194	VEIN	BBM25-47616	1.53
3TS-25-07	Larry	D00301317	194	195		BBM25-47616	1.27	
3TS-25-07	Larry	D00301318	198.1	198.4	VEIN	BBM25-47616	0.85	

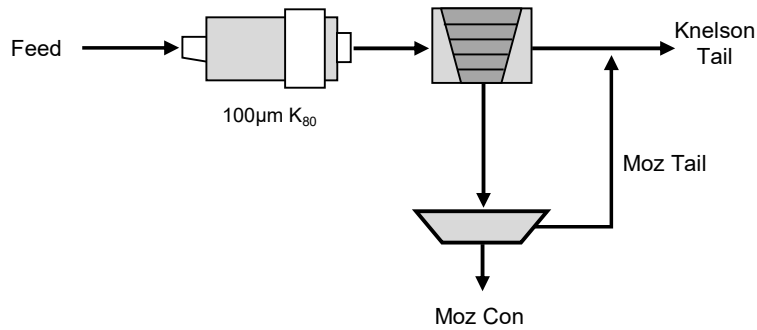


**APPENDIX B**  
**METALLURGICAL TESTING**

Test No.	Composite	Test Type	Page No.
1A	Comp 1 (TD)	Gravity Test	1
1B	Test 01A Gravity Tails	Rougher Test	3
1BR	Test 01A Gravity Tails	Rougher Test	5
1C	Test 01A Gravity Tails	Cyanide Leach	7
2A	Comp 2 (JMV)	Gravity Test	9
2B	Test 02A Gravity Tails	Rougher Test	11
2BR	Test 02A Gravity Tails	Rougher Test	13
2C	Test 02A Gravity Tails	Cyanide Leach	15
3A	Comp 3 (LV)	Gravity Test	17
3B	Test 03A Gravity Tails	Rougher Test	19
3BR	Test 03A Gravity Tails	Rougher Test	21
3C	Test 03A Gravity Tails	Cyanide Leach	23
4	Comp 1 (TD)	Gravity Test	25
5	Comp 2 (JMV)	Gravity Test	27
6	Comp 3 (LV)	Gravity Test	29
7A	Comp 1 (TD)	Gravity Test	31
7B	Test 07A Rougher Tail + 1st Cleaner Tail	Cleaner Test	33
7C	Test 07A Rougher Tail + 1st Cleaner Tail	Cyanide Leach	35
8A	Comp 2 (JMV)	Gravity Test	37
8B	Test 08A Rougher Tail + 1st Cleaner Tail	Cleaner Test	39
8C	Test 08A Rougher Tail + 1st Cleaner Tail	Cyanide Leach	41
9A	Comp 3 (LV)	Gravity Test	43
9B	Test 09A Rougher Tail + 1st Cleaner Tail	Cleaner Test	45
9C	Test 09A Rougher Tail + 1st Cleaner Tail	Cyanide Leach	47

Test No: BL1546-01A  
 Date: 27-May-25  
 Test Type: Gravity Test (Standard knelson procedure w/ Mozley upgrade)  
 Test Objective: Perform Gravity Test to generate material for DS testing  
 Sample: 4kg of Comp 1 (TD)  
 Nominal Sizing: 100µm K<sub>80</sub>

Stage	Inlet Pressure	G-Force	Flowrate Lpm	Time Minutes
Grind				34
KN Separation 1	2	120	4	4



Note: Combined gravity tail was used for downstream rougher flotation and leaching investigation.

BL1546-01A Comp 1 (TD)

Metallurgical Balance

Product	Weight		Assay - g/t		Distribution - %	
	%	grams	Au	Ag	Au	Ag
Moz Con	0.1	2.4	729	2735	14.9	7.9
Knelson Tail	99.9	3861.3	2.62	20	85.1	92.1
Recalc. Feed	100.0	3863.7	3.08	22	100.0	100.0
Measured Feed			2.89	26	-	-

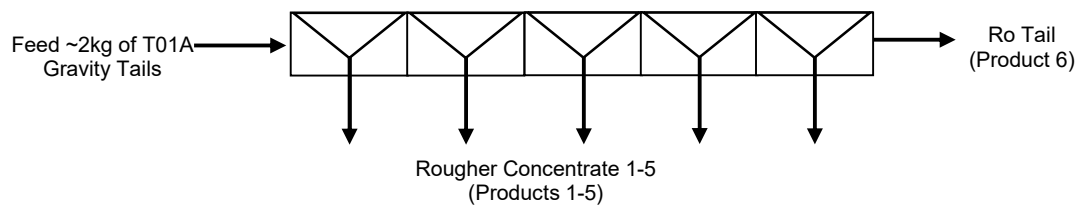
Based off gravity tail cut

Test No: BL1546-01B  
 Date: 27-May-25  
 Test Type: Rougher Test.  
 Test Objective: Preliminary Rougher Test.  
 Sample: ~2 kg of Test 01A Gravity Tails  
 Nominal Sizing: 100µm K<sub>80</sub>

Stage	Reagents - g/tonne			Time Minutes		Electrochemistry	
	PAX	407	MIBC	Condition	Float	pH	Eh-mV
Natural						Natural	
Rougher 1	10	7.5	21	1	1	8.7	-295
Rougher 2	10		7	1	2	8.5	-28
Rougher 3	15	7.5	-	1	4	8.5	-51
Rougher 4	15		7	1	6	8.5	-48
Rougher 5	25	7.5	7	1	8	8.4	-63

Flotation Information	Rougher
Flotation Device:	D12
Cell Volume:	4.4 L
Impellar Speed:	800 rpm
Flotation Gas:	Air
Water Type:	Kamloops Tap

### Flowsheet Schematic



BL1546-01B Test 01A Gravity Tails  
Metallurgical Balance

Product	Weight		Assay - percent or g/t			Distribution - percent		
	%	grams	Au	Ag	S	Au	Ag	S
Ro Con 1	0.4	8.9	229	2560	13.6	38.6	44.8	58.2
Ro Con 2	0.4	8.3	88.0	944	5.29	13.8	15.4	21.2
Ro Con 3	2.6	52.5	4.37	51	0.26	4.3	5.3	6.6
Ro Con 4	1.8	35.8	2.87	34	0.16	1.9	2.4	2.8
Ro Con 5	3.5	71.6	1.57	16	0.07	2.1	2.3	2.4
Rougher Tail	91.2	1845.3	1.12	8	0.01	39.1	29.8	8.9
Recalc. Feed	100	2022.4	2.61	25	0.10	100	100	100
Measured Feed			2.62	20				

Taken from Test 01A balance

BL1546-01B Test 01A Gravity Tails  
Cumulative Balance

Product	Weight		Assay - percent or g/t			Distribution - percent		
	%	grams	Au	Ag	S	Au	Ag	S
Ro Con 1	0.4	8.9	229	2560	13.6	38.6	44.8	58.2
Ro Con 1 to 2	0.9	17.2	161	1780	9.56	52.4	60.2	79.3
Ro Con 1 to 3	3.4	69.7	43.0	478	2.56	56.8	65.5	85.9
Ro Con 1 to 4	5.2	105.5	29.4	327	1.74	58.7	67.9	88.7
Rougher Con	8.8	177.1	18.2	202	1.07	60.9	70.2	91.1
Rougher Tail	91.2	1845.3	1.12	8	0.01	39.1	29.8	8.9
Recalc. Feed	100	2022	2.61	25	0.10	100	100	100

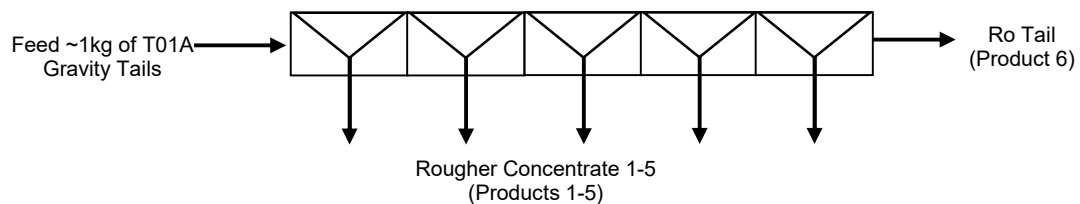
Test No: BL1546-01BR  
 Date: 30-May-25  
 Test Type: Rougher Test.  
 Test Objective: Repeat Test 01B with light grind to polish surfaces and an aeration stage  
 Sample: ~1 kg of Test 01A Gravity Tails  
 Nominal Sizing: 100µm K<sub>80</sub>

Stage	Reagents - g/tonne			Time Minutes		Electrochemistry	
	PAX	407	MIBC	Condition	Float	pH	Eh-mV
Primary Grind				0.5		8.0	101
Aeration				3		8.0	100
Rougher 1	10	7.5	14	2	1	8.0	40
Rougher 2	10		14	1	2	8.0	36
Rougher 3	15	7.5	14	1	4	8.0	13
Rougher 4	15		28	1	6	8.0	22
Rougher 5	25	7.5	28	1	8	7.9	21

Reagents: added based on 1 kg feed

Flotation Information	Rougher
Flotation Device:	D12
Cell Volume:	2.5L
Impellar Speed:	800 rpm
Flotation Gas:	Air
Water Type:	Kamloops Tap

### Flowsheet Schematic



BL1546-01BR Test 01A Gravity Tails  
Metallurgical Balance

Product	Weight		Assay - percent or g/t			Distribution - percent		
	%	grams	Au	Ag	S	Au	Ag	S
Ro Con 1	1.5	12.5	117	990	7.44	56.9	57.6	58.8
Ro Con 2	1.8	15.2	14.4	137	1.06	8.5	9.7	10.2
Ro Con 3	2.6	22.1	4.75	44	0.47	4.1	4.5	6.6
Ro Con 4	3.1	26.1	2.10	21	0.20	2.1	2.5	3.3
Ro Con 5	1.4	11.7	2.38	24	0.28	1.1	1.3	2.1
Rougher Tail	89.6	757.3	0.93	7	0.04	27.4	24.3	19.1
Recalc. Feed	100	844.9	3.05	25	0.19	100	100	100
Measured Feed			2.62	20				

Taken from Test 01A balance

BL1546-01BR Test 01A Gravity Tails  
Cumulative Balance

Product	Weight		Assay - percent or g/t			Distribution - percent		
	%	grams	Au	Ag	S	Au	Ag	S
Ro Con 1	1.5	12.5	117	990	7.44	56.9	57.6	58.8
Ro Con 1 to 2	3.3	27.7	60.7	522	3.94	65.4	67.3	68.9
Ro Con 1 to 3	5.9	49.8	35.9	310	2.40	69.4	71.9	75.5
Ro Con 1 to 4	9.0	75.9	24.3	210	1.64	71.6	74.4	78.8
Rougher Con	10.4	87.6	21.3	185	1.46	72.6	75.7	80.9
Rougher Tail	89.6	757.3	0.93	7	0.04	27.4	24.3	19.1
Recalc. Feed	100	845	3.05	25	0.19	100	100	100

Test No: BL1546-01C  
 Date: 1-Jun-25  
 Test Type: Cyanide Leach  
 Test Objective: Perform cyanide leach on gravity tail  
 Sample: Test 01A Gravity Tail  
 Grind: As is

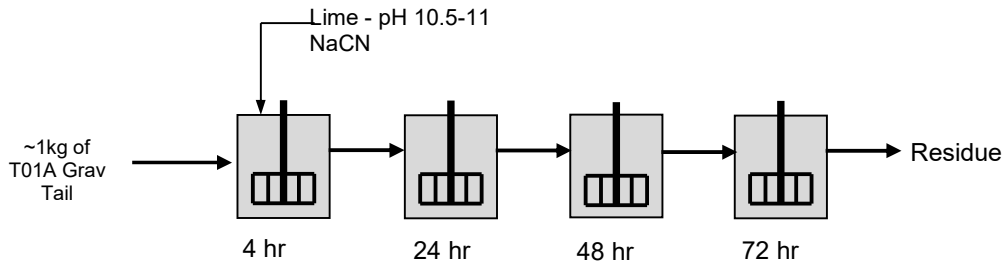
**Conditions: NaCN @ 1g/L (Maintained), pH 10.5-11, air sparged, 40% solids**

Parameter	Time Cum	Added (g)		Residual (g)	Consumed (g)	pH		Dissolved O <sub>2</sub> (mg/L)
		NaCN	Lime	NaCN	NaCN	Measured	Adjusted	
Natural	-	-	-	-	-	8.6		<1
Leach 1	0	1.50	0.52	-	-	8.6	11.0	<1
Leach 2	4	0.97	-	0.53	0.97	11.0	-	6.5
Leach 3	24	0.25	-	1.25	0.25	10.6	-	6.9
Leach 5	48	0.15	-	1.35	0.15	10.6	-	6.6
Leach 6	72	-	-	1.29	0.21	10.4	-	7.0
Total	72	2.87	0.52	1.29	1.58	-	-	-

Mass of Sample	1000
Volume of Water	1500
Pulp Density	40

NaCN Consumption	1.6 kg/tonne
Lime Consumption	0.5 kg/tonne
Residual Free CN	0.46 g/L

**Flowsheet Schematic**



BL1546-01C

Test 01A Gravity Tail

Cumulative Metallurgical Balance

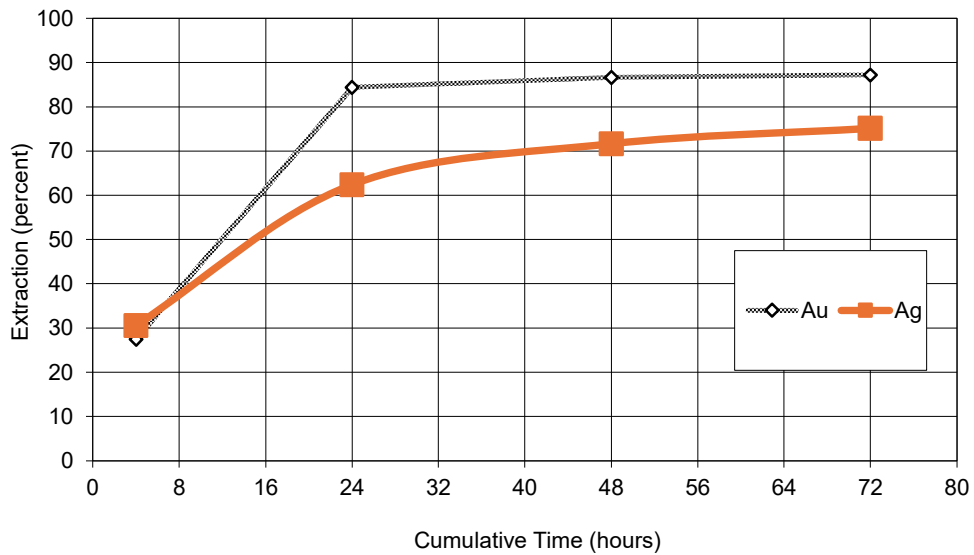
Product	Cumulative Time - Hrs	Vol or Mass	Units	Assay - g/tonne		Distribution - percent	
				Au	Ag	Au	Ag
Cyanide Liquor (8 hr)	4	1500	mL	0.50	4.7	27.5	30.6
Cyanide Liquor (24 hr)	24	1500	mL	1.53	9.6	84.4	62.4
Cyanide Liquor (36 hr)	48	1500	mL	1.55	10.9	86.7	71.6
Cyanide Liquor (72 hr)	72	1500	mL	1.54	11.3	87.3	75.2
Cyanidation Residue	-	994	g	0.35	5.8	12.7	24.8
Calculated Feed		994	g	2.75	23.4	100	100
Measured Feed				2.62	20.0		

Taken from Test 01A balance

Final Solution Assays
WAD(MP)
572

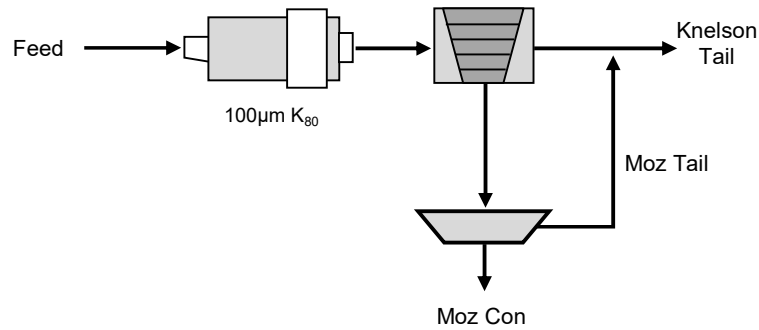
Duplicate CnTL Assays - g/t	
Cut	Au
1	0.33
2	0.37

Cyanide Leach Kinetic Curves



Test No: BL1546-02A  
 Date: 27-May-25  
 Test Type: Gravity Test (Standard knelson procedure w/ Mozley upgrade)  
 Test Objective: Perform Gravity Test to generate material for DS testing  
 Sample: 4kg of Comp 2 (JMV)  
 Nominal Sizing: 100µm K<sub>80</sub>

Stage	Inlet Pressure	G-Force	Flowrate Lpm	Time Minutes
Grind				32
KN Separation 1	2	120	4	4



Note: Combined gravity tail was used for downstream rougher flotation and leaching investigation.

BL1546-02A 4kg of  
Metallurgical Balance

Product	Weight		Assay - g/t		Distribution - %	
	%	grams	Au	Ag	Au	Ag
Moz Con	0.0	1.4	1164	5678	8.3	4.4
Knelson Tail	100.0	3838.3	4.64	44	91.7	95.6
Recalc. Feed	100.0	3839.7	5.06	46	100.0	100.0
Measured Feed			4.85	56	-	-

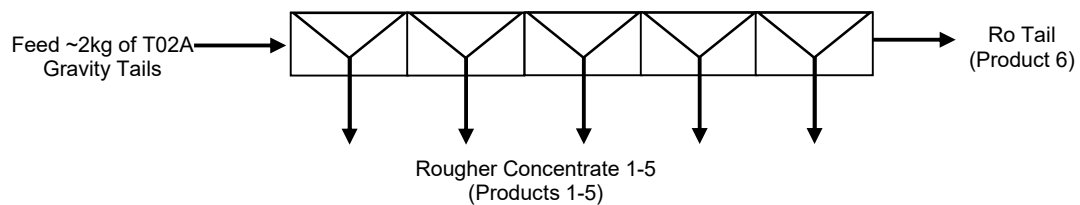
Based off gravity tail cut

Test No: BL1546-02B  
 Date: 27-May-25  
 Test Type: Rougher Test.  
 Test Objective: Preliminary Rougher Test.  
 Sample: ~2 kg of Test 02A Gravity Tails  
 Nominal Sizing: 100µm K<sub>80</sub>

Stage	Reagents - g/tonne			Time Minutes		Electrochemistry	
	PAX	407	MIBC	Condition	Float	pH	Eh-mV
Natural						Natural	
Rougher 1	10	7.5	14	1	1	8.5	-59
Rougher 2	10		7	1	2	8.5	-38
Rougher 3	15	7.5	14	1	4	8.6	-43
Rougher 4	15		7	1	6	8.6	-49
Rougher 5	25	7.5	7	1	8	8.5	-65

Flotation Information	Rougher
Flotation Device:	D12
Cell Volume:	4.4 L
Impellar Speed:	800 rpm
Flotation Gas:	Air
Water Type:	Kamloops Tap

### Flowsheet Schematic



BL1546-02B Test 02A Gravity Tails  
Metallurgical Balance

Product	Weight		Assay - percent or g/t			Distribution - percent		
	%	grams	Au	Ag	S	Au	Ag	S
Ro Con 1	1.3	26.4	174	2810	4.18	52.5	61.7	73.2
Ro Con 2	2.8	55.2	11.0	178	0.27	7.0	8.2	9.9
Ro Con 3	4.4	87.3	3.09	49.6	0.05	3.1	3.6	2.9
Ro Con 4	5.1	101.9	1.86	28	0.03	2.2	2.4	2.0
Ro Con 5	4.8	95.9	1.81	24	0.02	2.0	1.9	1.3
Rougher Tail	81.6	1621.1	1.79	17	0.01	33.2	22.3	10.7
Recalc. Feed	100	1987.8	4.39	60	0.08	100	100	100
Measured Feed			4.64	44				

Taken from Test 02A balance

BL1546-02B Test 02A Gravity Tails  
Cumulative Balance

Product	Weight		Assay - percent or g/t			Distribution - percent		
	%	grams	Au	Ag	S	Au	Ag	S
Ro Con 1	1.3	26.4	174	2810	4.18	52.5	61.7	73.2
Ro Con 1 to 2	4.1	81.6	63.6	1030	1.54	59.5	69.9	83.1
Ro Con 1 to 3	8.5	168.9	32.3	523	0.77	62.6	73.5	86.0
Ro Con 1 to 4	13.6	270.8	20.9	337	0.49	64.8	75.8	88.0
Rougher Con	18.4	366.7	15.9	255	0.37	66.8	77.7	89.3
Rougher Tail	81.6	1621.1	1.79	17	0.01	33.2	22.3	10.7
Recalc. Feed	100	1988	4.39	60	0.08	100	100	100

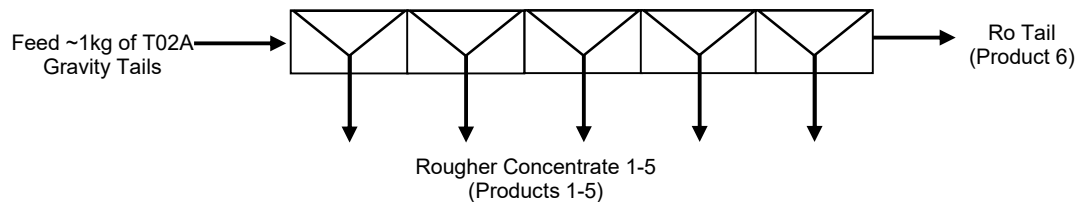
Test No: BL1546-02BR  
 Date: 4-Jun-25  
 Test Type: Rougher Test.  
 Test Objective: Repeat Test 02B with light grind to polish surfaces and an aeration stage  
 Sample: ~1 kg of Test 02A Gravity Tails  
 Nominal Sizing: 100µm K<sub>80</sub>

Stage	Reagents - g/tonne			Time Minutes		Electrochemistry	
	PAX	407	MIBC	Condition	Float	pH	Eh-mV
Primary Grind				0.5		8.5	149
Aeration				3		8.5	121
Rougher 1	10	7.5	28	1	1	8.4	15
Rougher 2	10		-	1	2	8.4	59
Rougher 3	15	7.5	14	1	4	8.3	63
Rougher 4	15		14	1	6	8.3	-6
Rougher 5	25	7.5	-	1	8	8.2	-2

Reagents: added based on 1 kg feed

Flotation Information	Rougher
Flotation Device:	D12
Cell Volume:	2.5L
Impellar Speed:	800 rpm
Flotation Gas:	Air
Water Type:	Kamloops Tap

### Flowsheet Schematic



BL1546-02BR Test 02A Gravity Tails  
Metallurgical Balance

Product	Weight		Assay - percent or g/t			Distribution - percent		
	%	grams	Au	Ag	S	Au	Ag	S
Ro Con 1	2.2	19.1	90.4	1290	2.36	42.3	50.4	68.1
Ro Con 2	0.8	6.9	33.7	507	0.79	5.7	7.2	8.2
Ro Con 3	1.0	9.0	16.8	268	0.42	3.7	4.9	5.7
Ro Con 4	0.8	7.1	11.3	191	0.27	2.0	2.8	2.9
Ro Con 5	0.9	7.8	10.2	152	0.24	2.0	2.4	2.8
Rougher Tail	94.2	810.3	2.24	20	0.01	44.4	32.3	12.2
Recalc. Feed	100	860.2	4.75	57	0.08	100	100	100
Measured Feed			4.64	44				

Taken from Test 02A balance

BL1546-02BR Test 02A Gravity Tails  
Cumulative Balance

Product	Weight		Assay - percent or g/t			Distribution - percent		
	%	grams	Au	Ag	S	Au	Ag	S
Ro Con 1	2.2	19.1	90.4	1290	2.36	42.3	50.4	68.1
Ro Con 1 to 2	3.0	26.0	75.4	1082	1.94	48.0	57.6	76.3
Ro Con 1 to 3	4.1	35.0	60.3	873	1.55	51.7	62.5	82.0
Ro Con 1 to 4	4.9	42.1	52.0	758	1.34	53.6	65.3	84.9
Rougher Con	5.8	49.9	45.5	663	1.16	55.6	67.7	87.8
Rougher Tail	94.2	810.3	2.24	20	0.01	44.4	32.3	12.2
Recalc. Feed	100	860	4.75	57	0.08	100	100	100

Test No: BL1546-02C  
 Date: 1-Jun-25  
 Test Type: Cyanide Leach  
 Test Objective: Perform cyanide leach on gravity tail  
 Sample: Test 02A Gravity Tail  
 Grind: As is

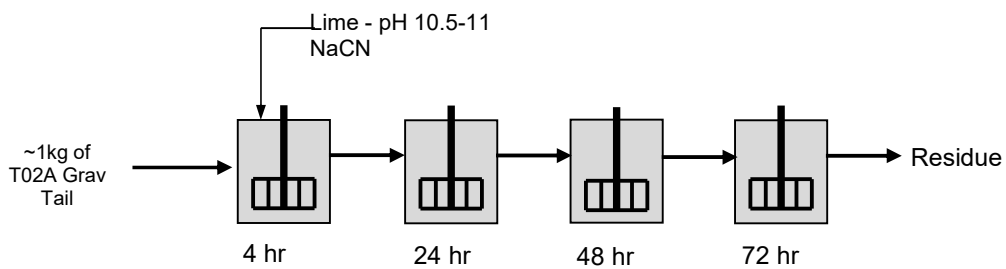
**Conditions: NaCN @ 1g/L (Maintained), pH 10.5-11, air sparged, 40% solids**

Parameter	Time Cum	Added (g)		Residual (g)	Consumed (g)	pH		Dissolved O <sub>2</sub> (mg/L)
		NaCN	Lime	NaCN	NaCN	Measured	Adjusted	
Natural	-	-	-	-	-	8.3		<1
Leach 1	0	1.50	0.55	-	-	8.3	10.5	<1
Leach 2	4	0.21	0.16	1.29	0.21	10.3	10.5	6.5
Leach 3	24	0.15	0.57	1.35	0.15	10.1	10.5	6.8
Leach 5	48	0.06	-	1.44	0.06	10.6	-	6.7
Leach 6	72	-	-	1.35	0.15	10.3	-	6.7
Total	72	1.92	1.28	1.35	0.57	-	-	-

Mass of Sample	1000
Volume of Water	1500
Pulp Density	40

NaCN Consumption	0.6 kg/tonne
Lime Consumption	1.3 kg/tonne
Residual Free CN	0.48 g/L

**Flowsheet Schematic**



BL1546-02C

Test 02A Gravity Tail

Cumulative Metallurgical Balance

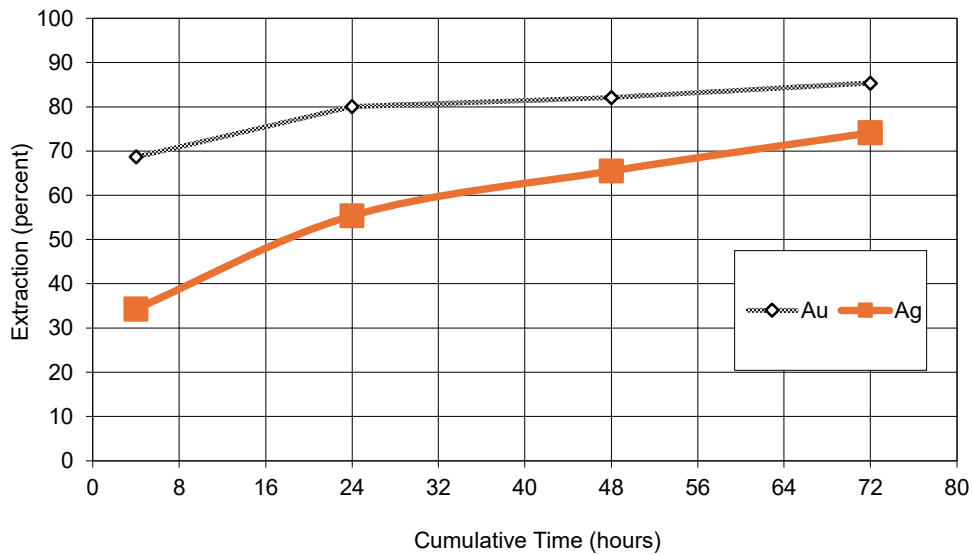
Product	Cumulative Time - Hrs	Vol or Mass	Units	Assay - g/tonne		Distribution - percent	
				Au	Ag	Au	Ag
Cyanide Liquor (8 hr)	4	1500	mL	2.16	13	68.7	34.3
Cyanide Liquor (24 hr)	24	1500	mL	2.49	21	80.1	55.4
Cyanide Liquor (36 hr)	48	1500	mL	2.52	24	82.1	65.5
Cyanide Liquor (72 hr)	72	1500	mL	2.59	27	85.4	74.2
Cyanidation Residue	-	990	g	0.70	15	14.6	25.8
Calculated Feed		990	g	4.76	57	100	100
Measured Feed				4.64	44		

Taken from Test 02A balance

Final Solution Assays
WAD(MP)
571

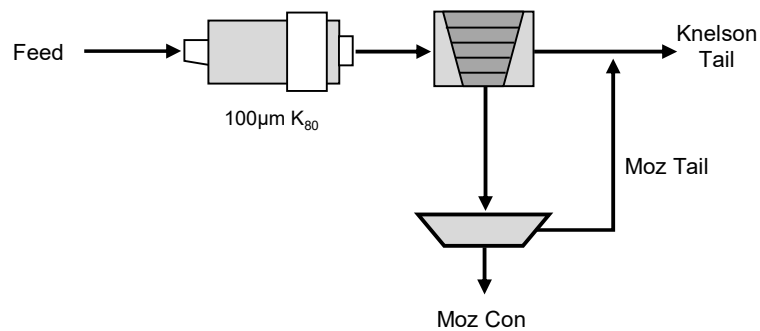
Duplicate CnTL Assays - g/t	
Cut	Au
1	0.71
2	0.68

Cyanide Leach Kinetic Curves



Test No: BL1546-03A  
 Date: 27-May-25  
 Test Type: Gravity Test (Standard knelson procedure w/ Mozley upgrade)  
 Test Objective: Perform Gravity Test to generate material for DS testing  
 Sample: 4kg of Comp 3 (LV)  
 Nominal Sizing: 100µm K<sub>80</sub>

Stage	Inlet Pressure	G-Force	Flowrate Lpm	Time Minutes
Grind				29
KN Separation 1	2	120	4	4



Note: Combined gravity tail was used for downstream rougher flotation and leaching investigation.

BL1546-03A 4kg of  
Metallurgical Balance

Product	Weight		Assay - g/t		Distribution - %	
	%	grams	Au	Ag	Au	Ag
Moz Con	0.04	1.7	3011	24451	29.7	16.0
Knelson Tail	100.0	3893.1	3.20	57	70.3	84.0
Recalc. Feed	100.0	3894.8	4.55	68	100.0	100.0
Measured Feed			4.75	91	-	-

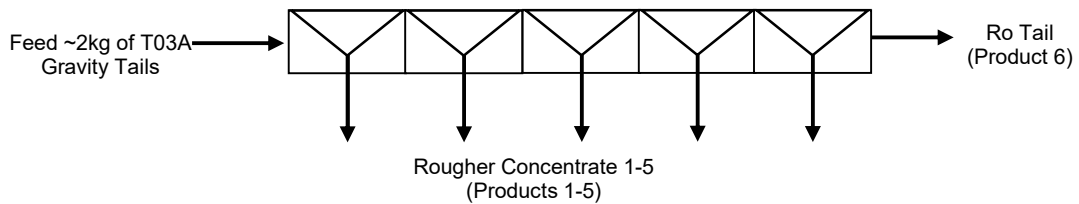
Based off gravity tail cut

Test No: BL1546-03B  
 Date: 27-May-25  
 Test Type: Rougher Test.  
 Test Objective: Preliminary Rougher Test.  
 Sample: ~2 kg of Test 03A Gravity Tails  
 Nominal Sizing: 100µm K<sub>80</sub>

Stage	Reagents - g/tonne			Time Minutes		Electrochemistry	
	PAX	407	MIBC	Condition	Float	pH	Eh-mV
Natural						Natural	
Rougher 1	10	7.5	14	1	1	8.5	-310
Rougher 2	10		14	1	2	8.5	-32
Rougher 3	15	7.5	7	1	4	8.5	-49
Rougher 4	15		7	1	6	8.5	-53
Rougher 5	25	7.5	7	1	8	8.5	-60

Flotation Information	Rougher
Flotation Device:	D12
Cell Volume:	4.4 L
Impellar Speed:	800 rpm
Flotation Gas:	Air
Water Type:	Kamloops Tap

Flowsheet Schematic



BL1546-03B Test 03A Gravity Tails  
Metallurgical Balance

Product	Weight		Assay - percent or g/t			Distribution - percent		
	%	grams	Au	Ag	S	Au	Ag	S
Ro Con 1	3.0	60.9	64.5	1652	0.74	65.8	72.5	55.8
Ro Con 2	2.7	53.3	11.4	234	0.19	10.2	9.0	12.5
Ro Con 3	4.5	89.4	2.12	45	0.05	3.2	2.9	5.5
Ro Con 4	5.7	113.4	1.02	20	0.03	1.9	1.7	4.2
Ro Con 5	3.7	73.7	0.96	18	0.02	1.2	1.0	1.8
Rougher Tail	80.5	1616.3	0.65	11	0.01	17.6	13.0	20.0
Recalc. Feed	100	2007.0	2.97	69	0.04	100	100	100
Measured Feed			3.20	57				

Taken from Test 03A balance

BL1546-03B Test 03A Gravity Tails  
Cumulative Balance

Product	Weight		Assay - percent or g/t			Distribution - percent		
	%	grams	Au	Ag	S	Au	Ag	S
Ro Con 1	3.0	60.9	64.5	1652	0.74	65.8	72.5	55.8
Ro Con 1 to 2	5.7	114.2	39.7	990	0.48	76.1	81.5	68.4
Ro Con 1 to 3	10.1	203.6	23.2	575	0.29	79.2	84.3	73.9
Ro Con 1 to 4	15.8	317.0	15.3	377	0.20	81.2	86.0	78.1
Rougher Con	19.5	390.7	12.6	309	0.17	82.4	87.0	80.0
Rougher Tail	80.5	1616.3	0.65	11	0.01	17.6	13.0	20.0
Recalc. Feed	100	2007	2.97	69	0.04	100	100	100

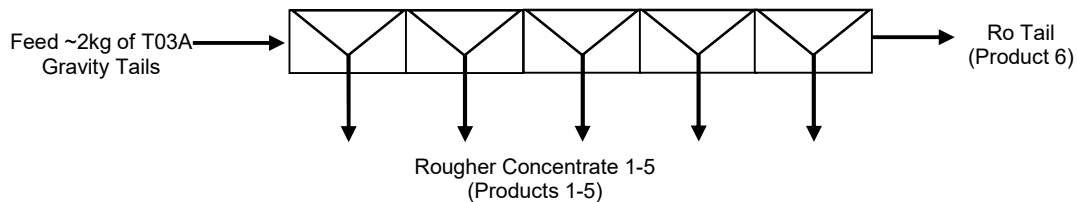
Test No: BL1546-03BR  
 Date: 4-Jun-25  
 Test Type: Rougher Test.  
 Test Objective: Repeat Test 03B with light grind to polish surfaces and an aeration stage  
 Sample: ~1 kg of Test 03A Gravity Tails  
 Nominal Sizing: 100µm K<sub>80</sub>

Stage	Reagents - g/tonne			Time Minutes		Electrochemistry	
	PAX	407	MIBC	Condition	Float	pH	Eh-mV
Primary Grind				0.5		8.3	115
Aeration				3		8.2	80
Rougher 1	10	7.5	28	1	1	8.2	60
Rougher 2	10		14	1	2	8.2	42
Rougher 3	15	7.5	14	1	4	8.2	5
Rougher 4	15		14	1	6	8.1	-20
Rougher 5	25	7.5	14	1	8	8.1	-7

Reagents: added based on 1 kg feed

Flotation Information	Rougher
Flotation Device:	D12
Cell Volume:	2.5L
Impellar Speed:	800 rpm
Flotation Gas:	Air
Water Type:	Kamloops Tap

### Flowsheet Schematic



BL1546-03BR Test 03A Gravity Tails  
Metallurgical Balance

Product	Weight		Assay - percent or g/t			Distribution - percent		
	%	grams	Au	Ag	S	Au	Ag	S
Ro Con 1	1.0	8.6	218	4,520	2.29	55.1	64.6	49.9
Ro Con 2	0.8	6.6	85.0	1,274	0.89	16.5	14.0	14.9
Ro Con 3	1.1	10.0	15.6	224	0.30	4.6	3.7	7.6
Ro Con 4	1.4	12.2	5.00	78	0.12	1.8	1.6	3.7
Ro Con 5	1.6	13.9	3.44	62	0.09	1.4	1.4	3.2
Rougher Tail	94.1	818.7	0.85	11	0.01	20.5	14.7	20.7
Recalc. Feed	100	870.0	3.90	69	0.05	100	100	100
Measured Feed			3.20	57				

Taken from Test 03A balance

BL1546-03BR Test 03A Gravity Tails  
Cumulative Balance

Product	Weight		Assay - percent or g/t			Distribution - percent		
	%	grams	Au	Ag	S	Au	Ag	S
Ro Con 1	1.0	8.6	218	4,520	2.29	55.1	64.6	49.9
Ro Con 1 to 2	1.7	15.2	160	3,111	1.68	71.7	78.6	64.8
Ro Con 1 to 3	2.9	25.2	103	1,965	1.13	76.3	82.3	72.4
Ro Con 1 to 4	4.3	37.4	70.8	1,349	0.80	78.1	83.9	76.1
Rougher Con	5.9	51.3	52.6	1000	0.61	79.5	85.3	79.3
Rougher Tail	94.1	818.7	0.85	11	0.01	20.5	14.7	20.7
Recalc. Feed	100	870	3.90	69	0.05	100	100	100

Test No: BL1546-03C  
 Date: 1-Jun-25  
 Test Type: Cyanide Leach  
 Test Objective: Perform cyanide leach on gravity tail  
 Sample: Test 03A Gravity Tail  
 Grind: As is

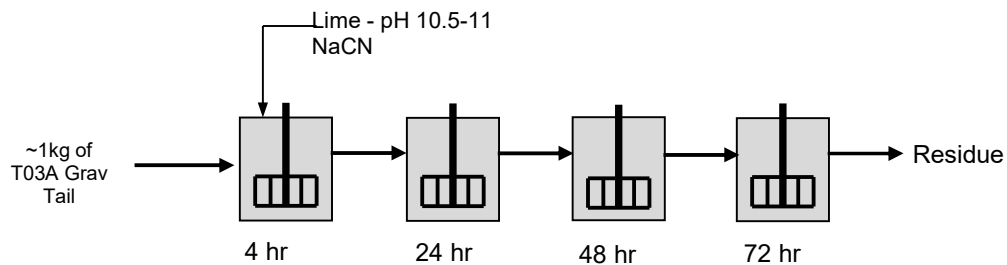
**Conditions: NaCN @ 1g/L (Maintained), pH 10.5-11, air sparged, 40% solids**

Parameter	Time Cum	Added (g)		Residual (g)	Consumed (g)	pH		Dissolved O <sub>2</sub> (mg/L)
		NaCN	Lime	NaCN	NaCN	Measured	Adjusted	
Natural	-	-	-	-	-	8.5		<1
Leach 1	0	1.50	0.56	-	-	8.5		<1
Leach 2	4	0.57	0.12	0.93	0.57	10.3	10.5	6.6
Leach 3	24	0.21	0.50	1.29	0.21	10.1	10.5	6.8
Leach 5	48	0.15	-	1.35	0.15	10.5	-	7.0
Leach 6	72	-	-	1.46	0.04	10.4	-	6.6
Total	72	2.43	1.18	1.46	0.97	-	-	-

Mass of Sample	1000
Volume of Water	1500
Pulp Density	40

NaCN Consumption	1.0 kg/tonne
Lime Consumption	1.2 kg/tonne
Residual Free CN	0.52 g/L

**Flowsheet Schematic**



BL1546-03C

Test 03A Gravity Tail

Cumulative Metallurgical Balance

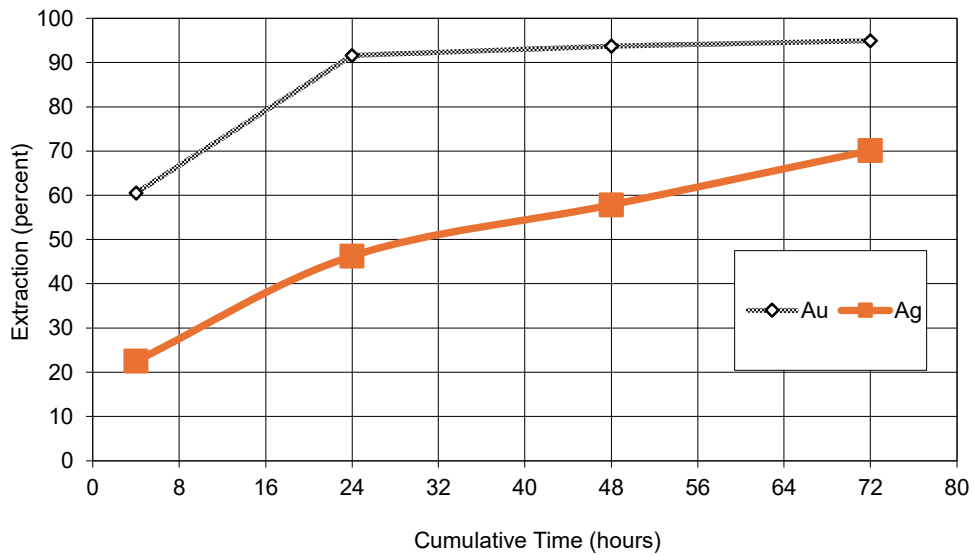
Product	Cumulative Time - Hrs	Vol or Mass	Units	Assay - g/tonne		Distribution - percent	
				Au	Ag	Au	Ag
Cyanide Liquor (8 hr)	4	1500	mL	1.38	11	60.6	22.5
Cyanide Liquor (24 hr)	24	1500	mL	2.07	21	91.6	46.3
Cyanide Liquor (36 hr)	48	1500	mL	2.09	27	93.7	57.8
Cyanide Liquor (72 hr)	72	1500	mL	2.09	32	94.9	70.2
Cyanidation Residue	-	1016	g	0.17	21	5.1	29.8
Calculated Feed		1016	g	3.36	69	100	100
Measured Feed				3.20	57		

Taken from Test 03A balance

Final Solution Assays
WAD(MP)
578

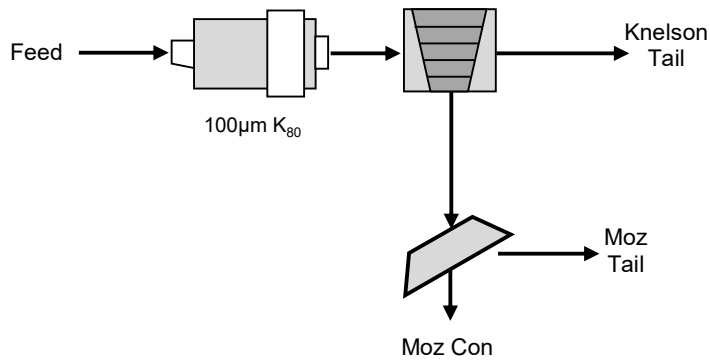
Duplicate CnTL Assays - g/t	
Cut	Au
1	0.16
2	0.18

Cyanide Leach Kinetic Curves



Test No: BL1546-04  
 Date: 3-Jun-25  
 Test Type: Knelson concentration.  
 Test Objective: Perform Gravity Test for Mineralogy.  
 Sample: 4kg of Comp 1 (TD)  
 Nominal Sizing: 100µm K<sub>80</sub>

Stage	Inlet Pressure	G-Force	Flowrate Lpm	Time Minutes
Grind				34
KN Separation 1	2	120	4	4



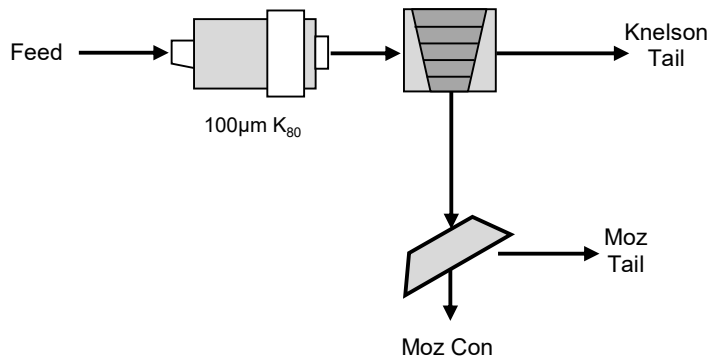
BL1546-04 4kg of Comp 1 (TD)  
Metallurgical Balance

Product	Weight		Assay - g/t	Distribution - %
	%	grams	Au	Au
Moz Con	0.0	1.4	450	5.3
Moz Tail	1.6	65.1	31.0	17.4
Knelson Tail	98.3	3940.0	2.27	77.2
Recalc. Feed	100.0	4006.5	2.89	100.0
Measured Feed			2.89	-

Will be reconciled from mineralogy data, currently an estimate

Test No: BL1546-05  
 Date: 3-Jun-25  
 Test Type: Knelson concentration.  
 Test Objective: Perform Gravity Test for Mineralogy.  
 Sample: 4kg of Comp 2 (JMV)  
 Nominal Sizing: 100µm K<sub>80</sub>

Stage	Inlet Pressure	G-Force	Flowrate Lpm	Time Minutes
Grind				32
KN Separation 1	2	120	4	4



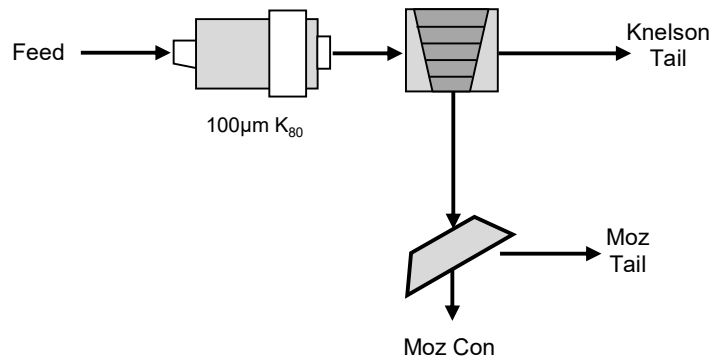
BL1546-05 4kg of Comp 2 (JMV)  
Metallurgical Balance

Product	Weight		Assay - g/t	Distribution - %
	%	grams	Au	Au
Moz Con	0.0	1.5	550	4.4
Moz Tail	1.7	67.6	34.2	12.0
Knelson Tail	98.3	3939.4	4.09	83.7
Recalc. Feed	100.0	4008.5	4.80	100.0
Measured Feed			4.85	-

Will be reconciled from mineralogy data, currently an estimate

Test No: BL1546-06  
 Date: 3-Jun-25  
 Test Type: Knelson concentration.  
 Test Objective: Perform Gravity Test for Mineralogy.  
 Sample: 4kg of Comp 3 (LV)  
 Nominal Sizing: 100µm K<sub>80</sub>

Stage	Inlet Pressure	G-Force	Flowrate Lpm	Time Minutes
Grind				29
KN Separation 1	2	120	4	4



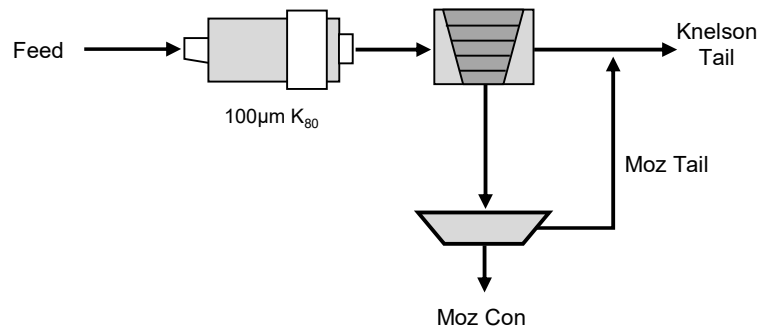
BL1546-06 4kg of Comp 3 (LV)  
Metallurgical Balance

Product	Weight		Assay - g/t	Distribution - %
	%	grams	Au	Au
Moz Con	0.0	1.6	3150	28.3
Moz Tail	1.4	54.6	43.1	13.5
Knelson Tail	98.6	3940.0	2.58	58.2
Recalc. Feed	100.0	3996.2	4.37	100.0
Measured Feed			4.75	-

Will be reconciled from mineralogy data, currently an estimate

Test No: BL1546-07A  
 Date: 13-Jun-25  
 Test Type: Gravity Test (Standard knelson procedure w/ Mozley upgrade)  
 Test Objective: Perform Gravity Test to generate material for DS testing  
 Sample: 4kg of Comp 1 (TD)  
 Nominal Sizing: 100 $\mu$ m K<sub>80</sub>

Stage	Inlet Pressure	G-Force	Flowrate Lpm	Time Minutes
Grind				34
KN Separation 1	2	120	4	4



Note: Combined gravity tail was used for downstream rougher flotation and leaching investigation.

BL1546-07A 4kg of Comp 1 (TD)

Metallurgical Balance

Product	Weight		Assay - g/t		Distribution - %	
	%	grams	Au	Ag	Au	Ag
Moz Con	0.07	2.94	651	2934	17.0	9.7
Knelson Tail	99.9	3965.5	2.36	20	83.0	90.3
Recalc. Feed	100.0	3968.5	2.84	22	100.0	100.0
Measured Feed			2.89	26	-	-

Based off gravity tail cut

Test No: BL1546-07B  
 Date: 16/Jun/25  
 Test Type: Cleaner  
 Test Objective: Preliminary Cleaner Test  
 Sample: 2 kg of Tesy 07A Gravity Tail  
 Nominal Sizing: As is

Bulk Regrind Discharge: 12µm K80

Stage	Reagents - g/tonne			Time Minutes		Electrochemistry	
	PAX	407	MIBC	Condition	Float	pH	Eh-mV
Polish Grind				0.5		8	288
Aeration				3		7.9	273
Conditioning	10	7.5		3		7.9	223
Rougher 1	-	-	21	1	1	7.9	223
Rougher 2	10	-	-	1	2	7.9	194
Rougher 3	15	7.5	7	1	4	8.0	155
Rougher 4	15	-	-	1	6	8.0	135
Rougher 5	25	7.5	7	1	8	8.0	82
Regrind	10	5		4		7.9	245
Cleaner 1	5		14	1	6	7.9	236
Cleaner 2			-	1	4	7.8	230

Primary Grind	
Mill	Mild Steel Mill
Media	20kg Mild Steel Rods
Water Addn:	1000ml
Regrind	
Mill	RG2
Media	8kg SS rods

Flotation Information	Rougher	Cleaner
Flotation Device:	D12	D12
Cell Volume:	4 L	2.5/1.5L
Impellar Speed:	800 rpm	1000 rpm
Flotation Gas:	Air	
Water Type:	Kamloops Tap	

BL1546-07B Tesy 07A Gravity Tail  
Metallurgical Balance

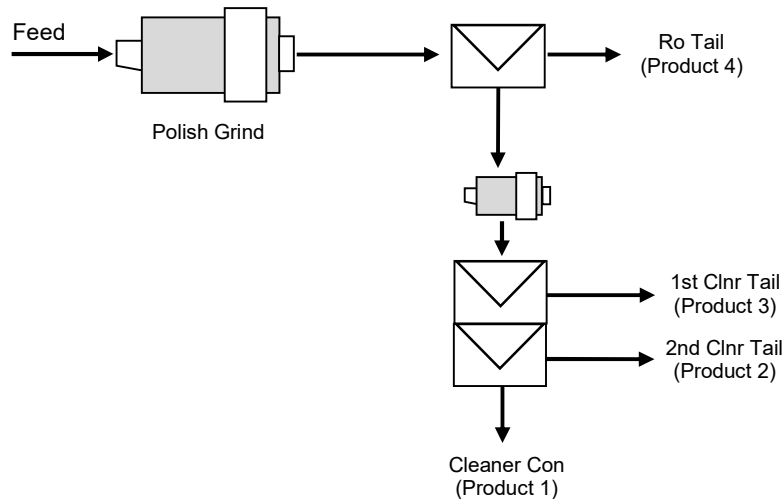
Product	Weight		Assay - percent or g/t			Distribution - percent		
	%	grams	Au	Ag	S	Au	Ag	S
Bulk Con	0.3	6.7	439	3466	19.8	54.0	59.9	65.7
Bulk 2nd Clnr Tail	0.5	9.6	8.13	127	1.28	1.4	3.1	6.1
Bulk 1st Clnr Tail	4.7	90.6	1.26	21	0.23	2.1	4.8	10.3
Ro Tail	94.4	1808.1	1.28	7	0.02	42.5	32.2	17.9
Recalc. Feed	100.0	1915.0	2.84	20	0.11	100	100	100
Measured (Direct)			2.36	20	0.10			

Taken from Test 07A balance

BL1546-07B Tesy 07A Gravity Tail  
Cumulative Balance

Product	Weight		Assay - percent or g/t			Distribution - percent		
	%	grams	Au	Ag	S	Au	Ag	S
Product 1	0.3	6.7	439	3466	19.8	54.0	59.9	65.7
Products 1 to 2	0.9	16.3	185	1499	8.88	55.4	63.0	71.7
Products 1 to 3	5.6	106.9	29.3	246	1.55	57.5	67.8	82.1
Product 4	94.4	1808.1	1.28	7	0.02	42.5	32.2	17.9
Recalc. Feed	100.0	1915.0	2.84	20	0.11	100	100	100

Flowsheet Schematic



Test No: BL1546-07C  
 Date: 23-Jun-25  
 Test Type: Cyanide Leach  
 Test Objective: Perform cyanide leach on cleaner products  
 Sample: Test 07B Rougher Tail +1st Cleaner Tail  
 Grind: As is

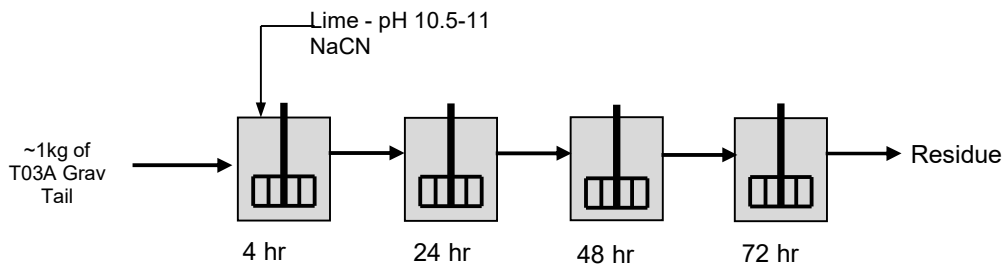
**Conditions: NaCN @ 1g/L (Maintained), pH 10.5-11, air sparged, 40% solids**

Parameter	Time Cum	Added (g)		Residual (g)	Consumed (g)	pH		Dissolved O <sub>2</sub> (mg/L)
		NaCN	Lime	NaCN	NaCN	Measured	Adjusted	
Natural	-	-	-	-	-	8.0		6.8
	-	-	-	-	-			
Leach 1	0	1.50	0.44	-	-	8.0	10.5	6.8
Leach 2	4	0.16	0.00	1.34	0.16	10.5	10.5	6.7
Leach 3	24	0.04	0.31	1.45	0.05	10.2	10.5	6.8
Leach 5	48	0.00	0.53	1.50	-0.01	10.2	10.5	6.5
Leach 6	72	-	-	1.50	0.00	11.3	-	6.7
Total	72	1.70	1.28	1.50	0.20	-	-	-

Mass of Sample	1000
Volume of Water	1500
Pulp Density	40

NaCN Consumption	0.2 kg/tonne
Lime Consumption	1.3 kg/tonne
Residual Free CN	0.53 g/L

**Flowsheet Schematic**



BL1546-07C

Test 07B Rougher Tail +1st Cleaner Tail

Cumulative Metallurgical Balance

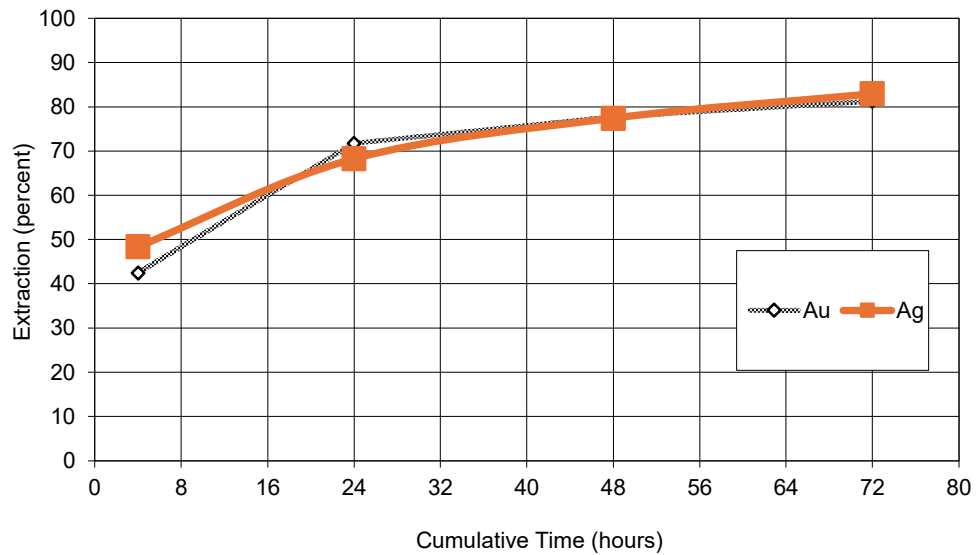
Product	Cumulative Time - Hrs	Vol or Mass	Units	Assay - g/tonne		Distribution - percent	
				Au	Ag	Au	Ag
Cyanide Liquor (8 hr)	4	1500	mL	0.34	2	42.5	48.4
Cyanide Liquor (24 hr)	24	1500	mL	0.57	3	71.8	68.3
Cyanide Liquor (36 hr)	48	1500	mL	0.61	4	77.8	77.5
Cyanide Liquor (72 hr)	72	1500	mL	0.63	4	81.3	83.0
Cyanidation Residue	-	998	g	0.23	1	18.7	17.0
Calculated Feed		998	g	1.20	8	100	100
Measured Feed				1.28	8		

Calculated from cleaner balance

Final Solution Assays
WAD(MP)
645

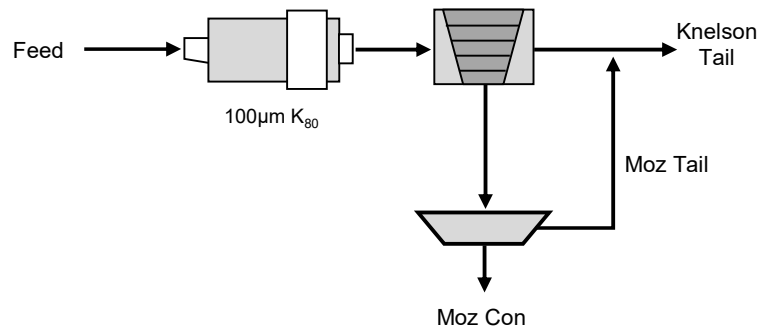
Duplicate CnTL Assays - g/t	
Cut	Au
1	0.23
2	0.22

Cyanide Leach Kinetic Curves



Test No: BL1546-08A  
 Date: 13-Jun-25  
 Test Type: Gravity Test (Standard knelson procedure w/ Mozley upgrade)  
 Test Objective: Perform Gravity Test to generate material for DS testing  
 Sample: 4kg of Comp 2 (JMV)  
 Nominal Sizing: 100 $\mu$ m K<sub>80</sub>

Stage	Inlet Pressure	G-Force	Flowrate Lpm	Time Minutes
Grind				32
KN Separation 1	2	120	4	4



Note: Combined gravity tail was used for downstream rougher flotation and leaching investigation.

BL1546-08A 4kg of Comp 2 (JMV)

Metallurgical Balance

Product	Weight		Assay - g/t		Distribution - %	
	%	grams	Au	Ag	Au	Ag
Moz Con	0.03	1.3	1048	5370	7.1	3.0
Knelson Tail	100.0	3996.4	4.29	54	92.9	97.0
Recalc. Feed	100.0	3997.6	4.62	56	100.0	100.0
Measured Feed			4.85	56	-	-

Based off gravity tail cut

Test No: BL1546-08B  
 Date: 16/Jun/25  
 Test Type: Cleaner  
 Test Objective: Preliminary Cleaner Test  
 Sample: 2 kg of Test 08A Gravity Tail  
 Nominal Sizing: As is

Bulk Regrind Discharge: 11µm K80

Stage	Reagents - g/tonne			Time Minutes		Electrochemistry	
	PAX	407	MIBC	Condition	Float	pH	Eh-mV
Polish Grind				0.5		8.3	181
Aeration				3		8.3	132
Conditioning	10	7.5		3		8.3	82
Rougher 1	-	-	21	1	1	8.3	81
Rougher 2	10	-	-	1	2	8.3	65
Rougher 3	15	7.5	7	1	4	8.2	53
Rougher 4	15	-	7	1	6	8.2	41
Rougher 5	25	7.5	-	1	8	8.1	16
Regrind	10	5		2.25		8.4	81
Cleaner 1	5		21	1	6	8.4	80
Cleaner 2			-	1	4	8.1	93

Primary Grind	
Mill	Mild Steel Mill
Media	20kg Mild Steel Rods
Water Addn:	1000ml
Regrind	
Mill	RG2
Media	8kg SS rods

Flotation Information	Rougher	Cleaner
Flotation Device:	D12	D12
Cell Volume:	4 L	2.5/1.5L
Impellar Speed:	800 rpm	1000 rpm
Flotation Gas:	Air	
Water Type:	Kamloops Tap	

BL1546-08B Test 08A Gravity Tail  
Metallurgical Balance

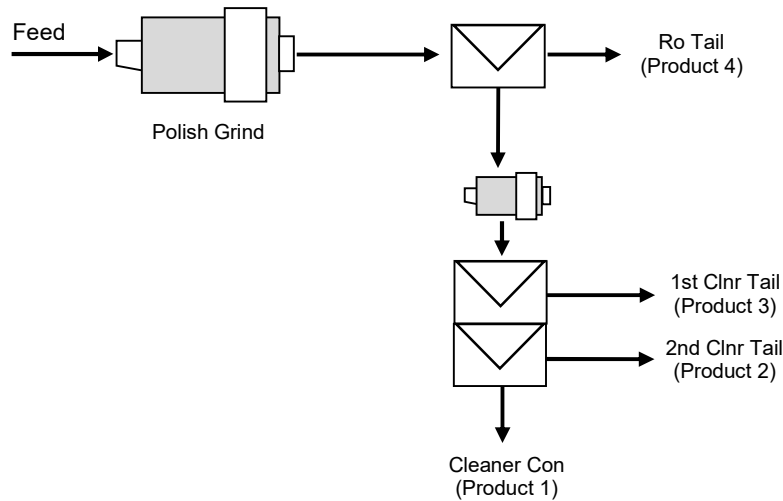
Product	Weight		Assay - percent or g/t			Distribution - percent		
	%	grams	Au	Ag	S	Au	Ag	S
Bulk Con	0.3	6.6	781	8284	17.0	49.2	53.1	65.7
Bulk 2nd Clnr Tail	0.9	17.6	16.2	250	0.36	2.7	4.3	3.7
Bulk 1st Clnr Tail	5.5	106.6	6.34	118	0.15	6.5	12.2	9.4
Ro Tail	93.2	1799.5	2.42	17	0.02	41.6	30.4	21.1
Recalc. Feed	100.0	1930.3	5.42	53	0.09	100	100	100
Measured (Direct)			4.29	54	0.09			

Taken from Test 08A balance

BL1546-08B Test 08A Gravity Tail  
Cumulative Balance

Product	Weight		Assay - percent or g/t			Distribution - percent		
	%	grams	Au	Ag	S	Au	Ag	S
Product 1	0.3	6.6	781	8284	17.0	49.2	53.1	65.7
Products 1 to 2	1.3	24.2	225	2441	4.89	51.9	57.4	69.5
Products 1 to 3	6.8	130.8	46.7	548	1.03	58.4	69.6	78.9
Product 4	93.2	1799.5	2.42	17	0.02	41.6	30.4	21.1
Recalc. Feed	100.0	1930.3	5.42	53	0.09	100	100	100

Flowsheet Schematic



Test No: BL1546-08C  
 Date: 23-Jun-25  
 Test Type: Cyanide Leach  
 Test Objective: Perform cyanide leach on cleaner products  
 Sample: Test 08B Rougher Tail +1st Cleaner Tail  
 Grind: As is

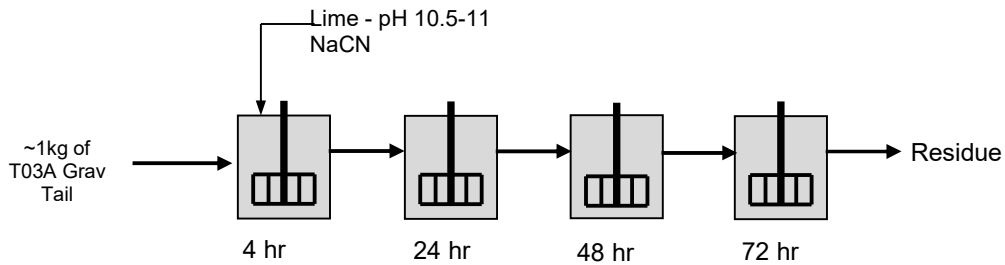
**Conditions: NaCN @ 1g/L (Maintained), pH 10.5-11, air sparged, 40% solids**

Parameter	Time Cum	Added (g)		Residual (g)	Consumed (g)	pH		Dissolved O <sub>2</sub> (mg/L)
		NaCN	Lime	NaCN	NaCN	Measured	Adjusted	
Natural	-	-	-	-	-	8.1		6.6
	-	-	-	-	-			
Leach 1	0	1.50	0.41	-	-	8.1	10.5	6.6
Leach 2	4	0.09	0.00	1.41	0.09	10.5	-	6.7
Leach 3	24	0.06	0.44	1.44	0.06	10.2	10.5	7.3
Leach 5	48	0.04	0.00	1.46	0.04	10.6	-	6.6
Leach 6	72	-	-	1.46	0.04	10.5	-	6.7
Total	72	1.69	0.85	1.46	0.23	-	-	-

Mass of Sample	1000
Volume of Water	1500
Pulp Density	40

NaCN Consumption	0.2 kg/tonne
Lime Consumption	0.9 kg/tonne
Residual Free CN	0.52 g/L

**Flowsheet Schematic**



BL1546-08C

Test 08B Rougher Tail +1st Cleaner Tail

Cumulative Metallurgical Balance

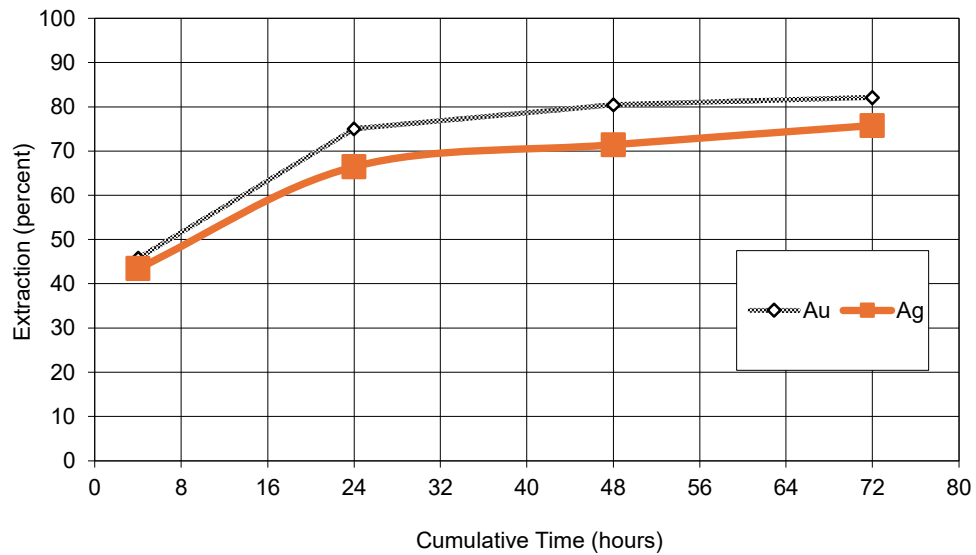
Product	Cumulative Time - Hrs	Vol or Mass	Units	Assay - g/tonne		Distribution - percent	
				Au	Ag	Au	Ag
Cyanide Liquor (8 hr)	4	1500	mL	0.72	6	45.8	43.5
Cyanide Liquor (24 hr)	24	1500	mL	1.17	10	75.0	66.5
Cyanide Liquor (36 hr)	48	1500	mL	1.24	10	80.5	71.4
Cyanide Liquor (72 hr)	72	1500	mL	1.25	11	82.2	75.8
Cyanidation Residue	-	991	g	0.43	5	17.8	24.2
Calculated Feed		991	g	2.38	22	100	100
Measured Feed				2.64	23		

Calculated from cleaner balance

Final Solution Assays
WAD(MP)
674

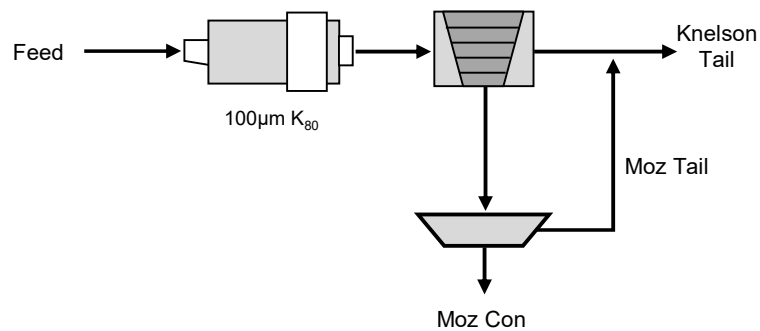
Duplicate CnTL Assays - g/t	
Cut	Au
1	0.43
2	0.42

Cyanide Leach Kinetic Curves



Test No: BL1546-09A  
 Date: 13-Jun-25  
 Test Type: Gravity Test (Standard knelson procedure w/ Mozley upgrade)  
 Test Objective: Perform Gravity Test to generate material for DS testing  
 Sample: 4kg of Comp 3 (LV)  
 Nominal Sizing: 100 $\mu$ m K<sub>80</sub>

Stage	Inlet Pressure	G-Force	Flowrate Lpm	Time Minutes
Grind				29
KN Separation 1	2	120	4	4



Note: Combined gravity tail was used for downstream rougher flotation and leaching investigation.

BL1546-09A 4kg of Comp 3 (LV)

Metallurgical Balance

Product	Weight		Assay - g/t		Distribution - %	
	%	grams	Au	Ag	Au	Ag
Moz Con	0.03	1.1	4915	28069	27.2	10.4
Knelson Tail	100.0	3961.5	3.50	64	72.8	89.6
Recalc. Feed	100.0	3962.5	4.81	72	100.0	100.0
Measured Feed			4.75	91	-	-

Based off gravity tail cut

Test No: BL1546-09B  
 Date: 16/Jun/25  
 Test Type: Cleaner  
 Test Objective: Preliminary Cleaner Test  
 Sample: 2 kg of Test 09A Gravity Tail  
 Nominal Sizing: As is

Bulk Regrind Discharge: 12µm K80

Stage	Reagents - g/tonne			Time Minutes		Electrochemistry	
	PAX	407	MIBC	Condition	Float	pH	Eh-mV
Polish Grind				0.5		8.1	109
Aeration				3		8.0	131
Conditioning	10	7.5		3		8.0	60
Rougher 1	-	-	21	1	1	8.0	58
Rougher 2	10	-	-	1	2	8.0	40
Rougher 3	15	7.5	7	1	4	8.0	13
Rougher 4	15	-	-	1	6	8.0	2
Rougher 5	25	7.5	7	1	8	8.0	-8
Regrind	10	5		2		-	-
Cleaner 1	5		14	1	6	8.0	105
Cleaner 2			7	1	4	8.0	64

Primary Grind	
Mill	Mild Steel Mill
Media	20kg Mild Steel Rods
Water Addn:	1000ml
Regrind	
Mill	RG2
Media	8kg SS rods

Flotation Information	Rougher	Cleaner
Flotation Device:	D12	D12
Cell Volume:	4 L	2.5/1.5L
Impellar Speed:	800 rpm	1000 rpm
Flotation Gas:	Air	
Water Type:	Kamloops Tap	

BL1546-09B Test 09A Gravity Tail  
Metallurgical Balance

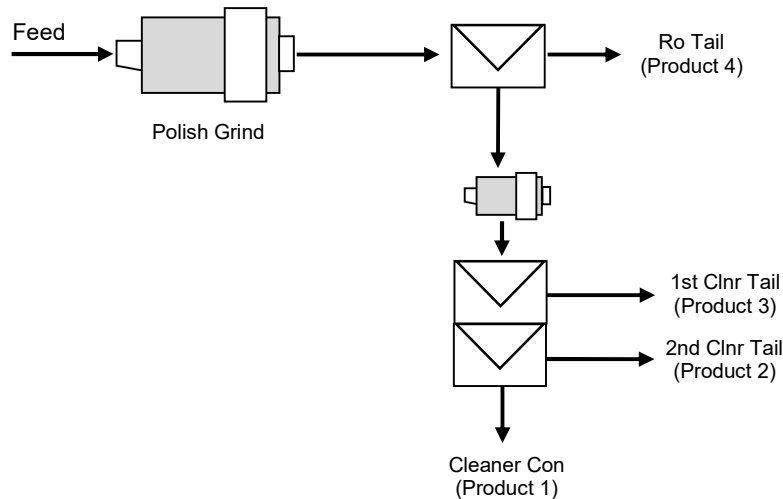
Product	Weight		Assay - percent or g/t			Distribution - percent		
	%	grams	Au	Ag	S	Au	Ag	S
Bulk Con	0.3	5.7	873	17600	10.5	70.7	77.9	68.0
Bulk 2nd Clnr Tail	0.7	14.0	13.7	274	0.27	2.7	3.0	4.3
Bulk 1st Clnr Tail	3.7	76.2	2.70	51	0.06	2.9	3.0	5.2
Ro Tail	95.4	1976.6	0.84	11	0.01	23.6	16.1	22.5
Recalc. Feed	100.0	2072.5	3.39	62	0.04	100	100	100
Measured (Direct)			3.50	64	0.09			

Taken from Test 09A balance

BL1546-09B Test 09A Gravity Tail  
Cumulative Balance

Product	Weight		Assay - percent or g/t			Distribution - percent		
	%	grams	Au	Ag	S	Au	Ag	S
Product 1	0.3	5.7	873	17600	10.5	70.7	77.9	68.0
Products 1 to 2	1.0	19.7	262	5287	3.23	73.5	80.9	72.3
Products 1 to 3	4.6	95.9	56.0	1126	0.71	76.4	83.9	77.5
Product 4	95.4	1976.6	0.84	11	0.01	23.6	16.1	22.5
Recalc. Feed	100.0	2072.5	3.39	62	0.04	100	100	100

Flowsheet Schematic



Test No: BL1546-09C  
 Date: 23-Jun-25  
 Test Type: Cyanide Leach  
 Test Objective: Perform cyanide leach on cleaner products  
 Sample: Test 09B Rougher Tail +1st Cleaner Tail  
 Grind: As is

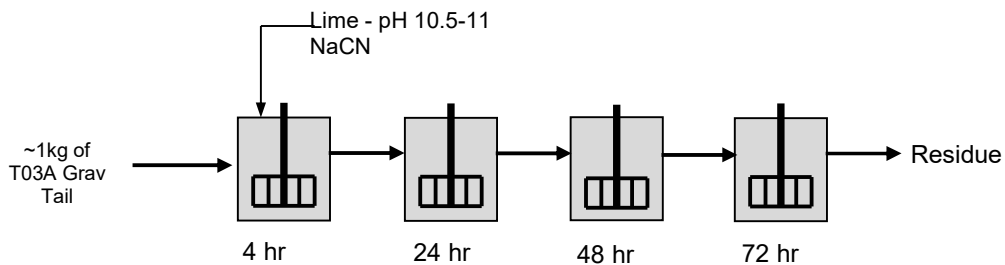
**Conditions: NaCN @ 1g/L (Maintained), pH 10.5-11, air sparged, 40% solids**

Parameter	Time Cum	Added (g)		Residual (g)	Consumed (g)	pH		Dissolved O <sub>2</sub> (mg/L)
		NaCN	Lime	NaCN	NaCN	Measured	Adjusted	
Natural	-	-	-	-	-	8.2		6.9
	-	-	-	-	-			
Leach 1	0	1.50	0.44	-	-	8.2	10.5	6.9
Leach 2	4	0.09	0.07	1.41	0.09	10.4	-	6.7
Leach 3	24	0.07	0.66	1.43	0.07	10.1	10.5	7.2
Leach 5	48	0.00	0.00	1.47	0.03	10.9	-	6.6
Leach 6	72	-	-	1.46	0.01	11.2	-	6.7
Total	72	1.66	1.17	1.46	0.20	-	-	-

Mass of Sample	1000
Volume of Water	1500
Pulp Density	40

NaCN Consumption	0.2 kg/tonne
Lime Consumption	1.2 kg/tonne
Residual Free CN	0.52 g/L

**Flowsheet Schematic**



BL1546-09C

Test 09B Rougher Tail +1st Cleaner Tail

Cumulative Metallurgical Balance

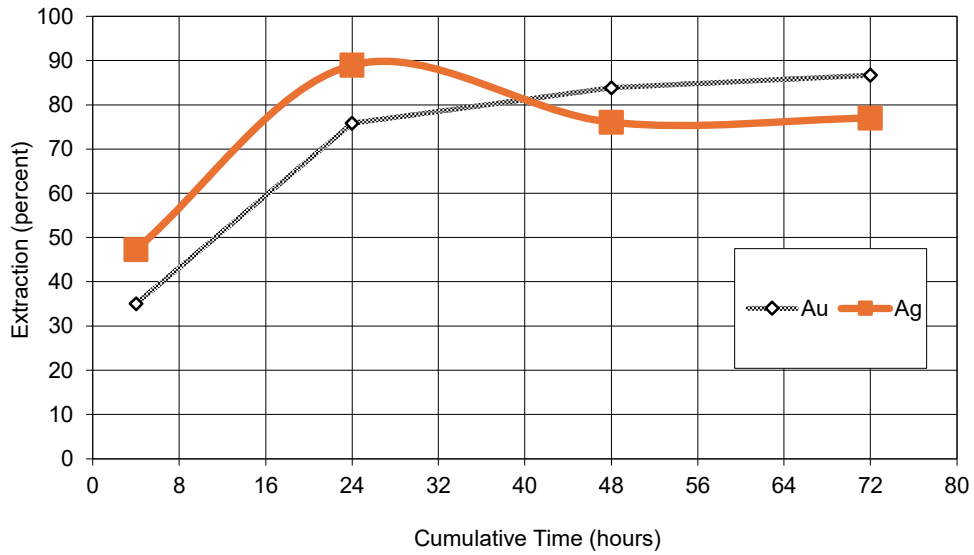
Product	Cumulative Time - Hrs	Vol or Mass	Units	Assay - g/tonne		Distribution - percent	
				Au	Ag	Au	Ag
Cyanide Liquor (8 hr)	4	1500	mL	0.20	3	35.1	47.3
Cyanide Liquor (24 hr)	24	1500	mL	0.43	6	75.9	89.0
Cyanide Liquor (36 hr)	48	1500	mL	0.47	5	83.9	76.1
Cyanide Liquor (72 hr)	72	1500	mL	0.48	5	86.7	77.0
Cyanidation Residue	-	988	g	0.12	2	13.3	23.0
Calculated Feed		988	g	0.87	10	100	100
Measured Feed				0.91	12		

Calculated from cleaner balance

Final Solution Assays
WAD(MP)
722

Duplicate CnTL Assays - g/t	
Cut	Au
1	0.13
2	0.10

Cyanide Leach Kinetic Curves





**APPENDIX C**  
**ASSAYS**

Table No.	Contents	Page No.
C-1	Head Assays	1

Reference
MSALabs, Test Report YVR2510585, June 21, 2025

TABLE C-1A  
HEAD ASSAYS

Sample	Assays		
	Au	Ag	S
Comp 1 (TD) Head	2.89	26.0	0.13
Comp 2 (JMV) Head	4.85	56.0	0.09
Comp 3 (LV) Head	4.75	91.0	0.07
Method	FAAS	ICP	ELTRA
Units	g/t	g/t	%

TABLE C-1B  
HEAD ASSAYS - ICP SCAN

Analyte	Unit	Detection Limit	Analysis Method	Comp 1 (TD)	Comp 2 (JMV)	Comp 3 (LV)
Ag	ppm	0.2	AR-ICP	24.9	59.5	78.7
Al	%	0.01	AR-ICP	0.13	0.09	0.16
As	ppm	1	AR-ICP	95	25	18
B	ppm	10	AR-ICP	< 10	< 10	< 10
Ba	ppm	10	AR-ICP	39	74	105
Be	ppm	0.5	AR-ICP	< 0.5	0.9	< 0.5
Bi	ppm	2	AR-ICP	< 2	< 2	< 2
Ca	%	0.01	AR-ICP	3.92	8.47	4.89
Cd	ppm	1	AR-ICP	1	2	2
Co	ppm	1	AR-ICP	2	1	3
Cr	ppm	1	AR-ICP	143	96	117
Cu	ppm	1	AR-ICP	33	57	19
Fe	%	0.01	AR-ICP	0.67	0.60	0.79
Ga	ppm	5	AR-ICP	< 5	< 5	< 5
Hg	ppm	1	AR-ICP	< 1	< 1	< 1
K	%	0.01	AR-ICP	0.14	0.10	0.13
La	ppm	5	AR-ICP	< 5	< 5	< 5
Mg	%	0.01	AR-ICP	0.10	0.23	0.51
Mn	ppm	2	AR-ICP	818	1062	996
Mo	ppm	1	AR-ICP	3	2	3
Na	%	0.01	AR-ICP	0.02	0.01	0.01
Ni	ppm	1	AR-ICP	4	3	7
P	%	0.001	AR-ICP	0.006	0.006	0.007
Pb	ppm	2	AR-ICP	27	114	46
S	%	0.01	AR-ICP	0.13	0.09	0.05
Sb	ppm	2	AR-ICP	59	20	16
Sc	ppm	1	AR-ICP	1	1	1
Sr	ppm	1	AR-ICP	41	123	47
Te	ppm	20	AR-ICP	< 20	< 20	< 20
Th	ppm	5	AR-ICP	5	6	5
Ti	%	0.01	AR-ICP	< 0.01	< 0.01	< 0.01
Tl	ppm	2	AR-ICP	5	6	5
U	ppm	10	AR-ICP	< 10	< 10	< 10
V	ppm	1	AR-ICP	1	1	6
W	ppm	5	AR-ICP	< 5	< 5	< 5
Y	ppm	1	AR-ICP	3	4	3
Zn	ppm	2	AR-ICP	34	89	110
Zr	ppm	1	AR-ICP	1	2	1



MSALABS  
 Unit 1, 20120 102nd Avenue  
 Langley, BC V1M 4B4  
 Phone: +1-604-888-0875

To: **Base Metallurgical Laboratories**  
**200-970 McMaster Way**  
**Kamloops, BC, V2C 6K2**  
**Canada**

**TEST REPORT:**

**YVR2510585**

Project Name: BL1546  
 Job Received Date: 2025-06-12  
 Job Report Date: 2025-06-21  
 Report Version: Final  
 Total Samples: 9

**COMMENTS:**

Date testing started: 2025-06-12  
 Date testing completed: 2025-06-21  
 Sulphur not reported by WRX-310 as samples had to be ashed prior to analysis.

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Test results reported relate to the tested samples only on an "as received" basis. Unless otherwise stated above, sufficient sample was received for the methods requested and all samples were received in acceptable condition.

Analytical results in unsigned reports marked "provisional" are subject to change, pending final QC review and approval. Preliminary results are applicable when a portion of samples in a job is 100% completed and reported or 1 of several methods on the same job have been completed 100%. Preliminary results cannot change, but additional results or results for additional methods can be added.

Please refer to our complete Terms and Conditions.

**SAMPLE PREPARATION**

METHOD CODE	DESCRIPTION
PLG-100	Log Sample - No preparation required
PWE-200P	Received sample pulp weight

**ANALYTICAL METHODS**

METHOD CODE	DESCRIPTION
WRX-310	Whole rock by borate fusion, XRF finish, 14 parameters+LOI

**STORAGE AND DISPOSAL**

METHOD CODE	DESCRIPTION
DIS-200	Dispose or return handling of pulp /per sample

**Signature:**

Yvette Hsi, BSc.  
 Laboratory Manager  
 MSALABS

**TEST REPORT:**

**YVR2510585**

Project Name: BL1546  
 Job Received Date: 2025-06-12  
 Job Report Date: 2025-06-21  
 Report Version: Final  
 Total Samples: 9

Sample ID	Sample Type	PWE-100 Rec. Wt. kg	Method Analyte Units	WRX-310 Al2O3 %	WRX-310 BaO %	WRX-310 CaO %	WRX-310 Cr2O3 %	WRX-310 Fe2O3 %	WRX-310 K2O %
		0.01	LOR	0.01	0.01	0.01	0.01	0.01	0.01
BL1546 comp 1 TD plus 75	Pulp	0.04		4.68	0.04	2.29	<0.01	0.67	3.06
BL1546 comp 1 TD plus 38	Pulp	0.02		3.73	0.03	4.18	<0.01	0.73	2.40
BL1546 comp 1 TD minus 38	Pulp	0.04		4.48	0.08	8.41	<0.01	2.38	2.60
BL1546 comp 2 JMV plus 75	Pulp	0.02		3.82	0.03	6.08	<0.01	0.69	2.27
BL1546 comp 2 JMV plus 38	Pulp	0.02		3.02	0.02	11.39	<0.01	0.82	1.71
BL1546 comp 2 JMV minus 38	Pulp	0.02		3.94	0.03	17.63	<0.01	2.00	1.95
BL1546 comp 3 LV plus 75	Pulp	0.02		2.70	<0.01	3.70	<0.01	0.98	1.39
BL1546 comp 3 LV plus 38	Pulp	0.02		2.00	0.02	5.62	<0.01	0.82	1.00
BL1546 comp 3 LV minus 38	Pulp	0.02		2.88	0.03	9.26	<0.01	2.18	1.28
STD BLANK				<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
STD OREAS 24b				15.08	0.08	1.50	0.02	6.49	3.51
STD CaCO3									

\*\*\*Please refer to the cover page for comments regarding this test report. \*\*\*

**TEST REPORT:**
**YVR2510585**

 Project Name: BL1546  
 Job Received Date: 2025-06-12  
 Job Report Date: 2025-06-21  
 Report Version: Final  
 Total Samples: 9

	WRX-310	WRX-310	WRX-310	WRX-310	WRX-310	WRX-310	WRX-310	WRX-310	WRX-310
	MgO	MnO	Na2O	P2O5	SiO2	SrO	TiO2	LOI	Total
Sample ID	%	%	%	%	%	%	%	%	%
BL1546 comp 1 TD plus 75	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
BL1546 comp 1 TD plus 38	0.14	0.06	0.40	<0.01	86.09	<0.01	0.05	2.38	99.85
BL1546 comp 1 TD minus 38	0.17	0.09	0.29	<0.01	84.48	<0.01	0.05	3.61	99.76
BL1546 comp 2 JMV plus 75	0.25	0.17	0.30	0.02	74.13	<0.01	0.07	6.84	99.74
BL1546 comp 2 JMV plus 38	0.27	0.09	0.28	<0.01	80.91	0.01	0.06	5.38	99.88
BL1546 comp 2 JMV minus 38	0.38	0.14	0.25	0.01	72.57	0.01	0.06	9.42	99.81
BL1546 comp 3 LV plus 75	0.46	0.21	0.27	0.01	58.89	0.02	0.09	14.26	99.76
BL1546 comp 3 LV plus 38	0.76	0.09	0.05	<0.01	85.88	<0.01	0.07	4.29	99.92
BL1546 comp 3 LV minus 38	0.71	0.12	0.04	<0.01	84.15	<0.01	0.04	5.36	99.87
BL1546 comp 3 LV minus 38	0.90	0.18	0.03	<0.01	74.68	<0.01	0.05	8.35	99.84
STD BLANK	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01		
STD OREAS 24b	2.78	0.06	1.16	0.16	65.74	0.01	0.80		
STD CaCO3								42.92	

\*\*\*Please refer to the cover page for comments regarding this test report. \*\*\*



**APPENDIX D**  
**SIZINGS**

Table No.	Composite	Page No.
<u>Grind Calibrations</u>		
D-1	Comp 1 (TD)	1
D-2	Comp 2 (JMV)	2
D-3	Comp 3 (LV)	3
<u>Laser Sizing</u>		
D-4	BL1546-07B Re grind Discharge	4
D-5	BL1546-08B Re grind Discharge	5
D-6	BL1546-09B Re grind Discharge	6

**TABLE D-1**  
**GRIND CALIBRATION DATA**

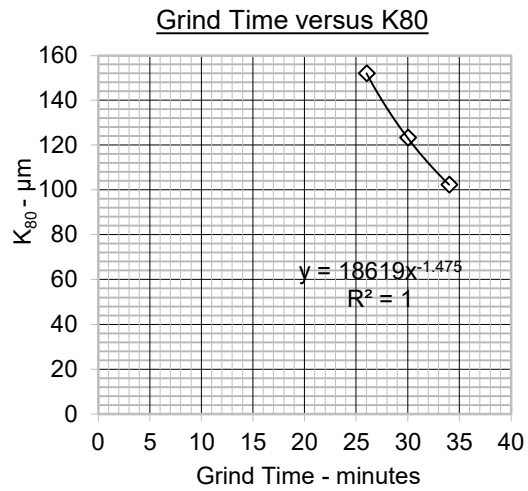
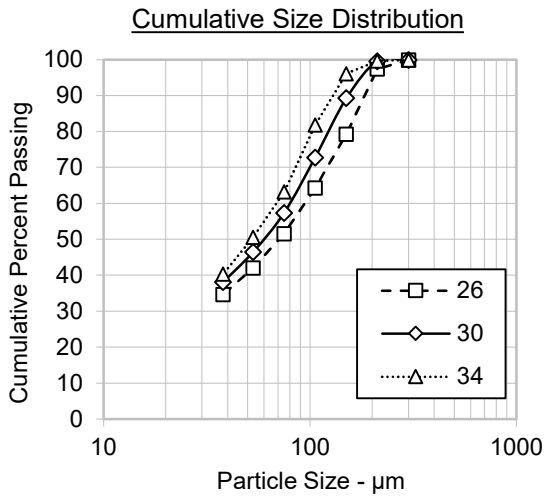
Comp 1 (TD)

Sieve Size ( $\mu\text{m}$ )	Cumulative Percent Passing		
	Grind 1	Grind 2	Grind 3
300	99.9	99.9	99.9
212	99.6	97.4	99.7
150	89.3	79.3	96.1
106	72.8	64.3	81.9
75	57.4	51.6	63.3
53	46.5	42.1	50.6
38	38.2	34.7	40.4

Parameter	Grind Calibration Data		
	Grind 1	Grind 2	Grind 3
Grind Time - min	30	26	34
Sample - g	2000	2000	2000
Water - mL	1000	1000	1000
$K_{80}$ - $\mu\text{m}$	123	152	102

**Grinding Mill:** M4

**Grinding Media:** 20kg Mild Steel



**TABLE D-2  
GRIND CALIBRATION DATA**

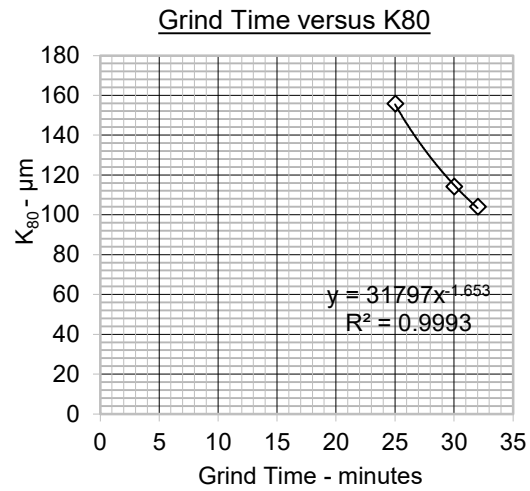
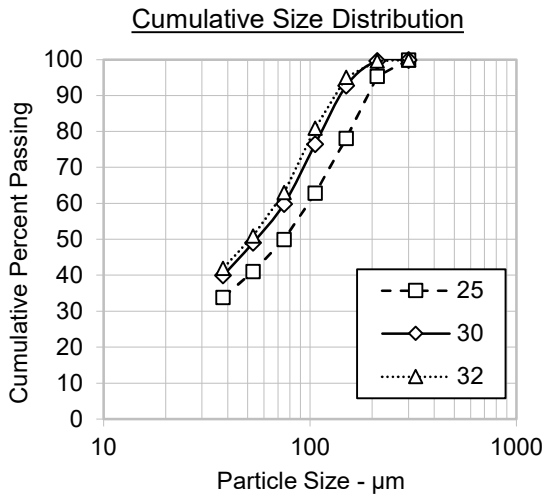
**Comp 2 (JMV)**

Sieve Size ( $\mu\text{m}$ )	Cumulative Percent Passing		
	Grind 1	Grind 2	Grind 3
300	99.9	99.9	99.9
212	99.7	95.4	99.7
150	92.8	78.1	95.1
106	76.5	62.9	81.0
75	59.9	50.0	63.1
53	49.1	41.1	51.0
38	40.0	33.9	42.0

Parameter	Grind Calibration Data		
	Grind 1	Grind 2	Grind 3
Grind Time - min	30	25	32
Sample - g	2000	2000	2000
Water - mL	1000	1000	1000
$K_{80}$ - $\mu\text{m}$	114	156	104

**Grinding Mill: M4**

**Grinding Media: 20kg Mild Steel**



**TABLE D-3**  
**GRIND CALIBRATION DATA**

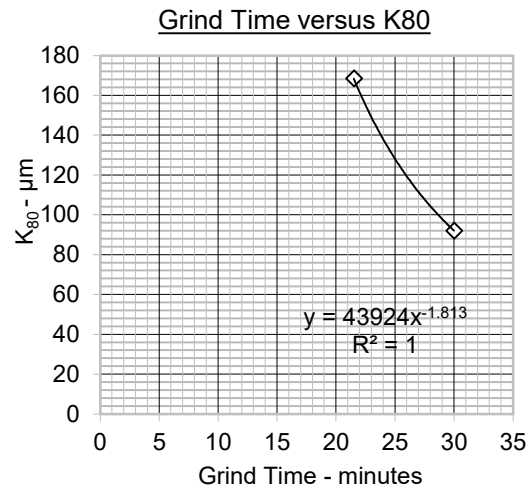
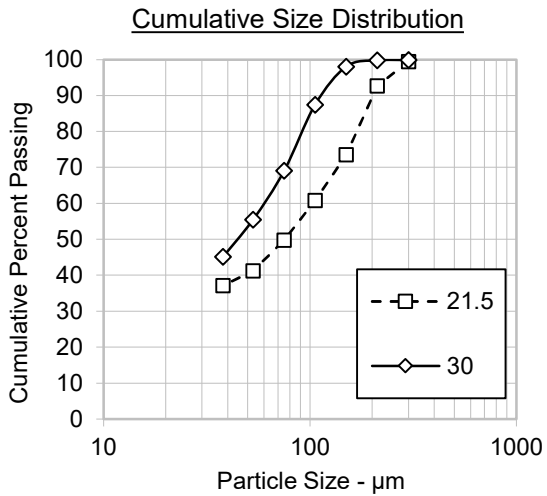
Comp 3 (LV)

Sieve Size ( $\mu\text{m}$ )	Cumulative Percent Passing		
	Grind 1	Grind 2	Grind 3
300	99.9	99.5	N/A
212	99.8	92.7	N/A
150	98.1	73.6	N/A
106	87.5	60.9	N/A
75	69.1	49.8	N/A
53	55.5	41.3	N/A
38	45.2	37.2	N/A

Parameter	Grind Calibration Data		
	Grind 1	Grind 2	Grind 3
Grind Time - min	30	21.5	N/A
Sample - g	2000	2000	N/A
Water - mL	1000	1000	N/A
$K_{80}$ - $\mu\text{m}$	92	168	N/A

**Grinding Mill:** M4

**Grinding Media:** 20kg Mild Steel

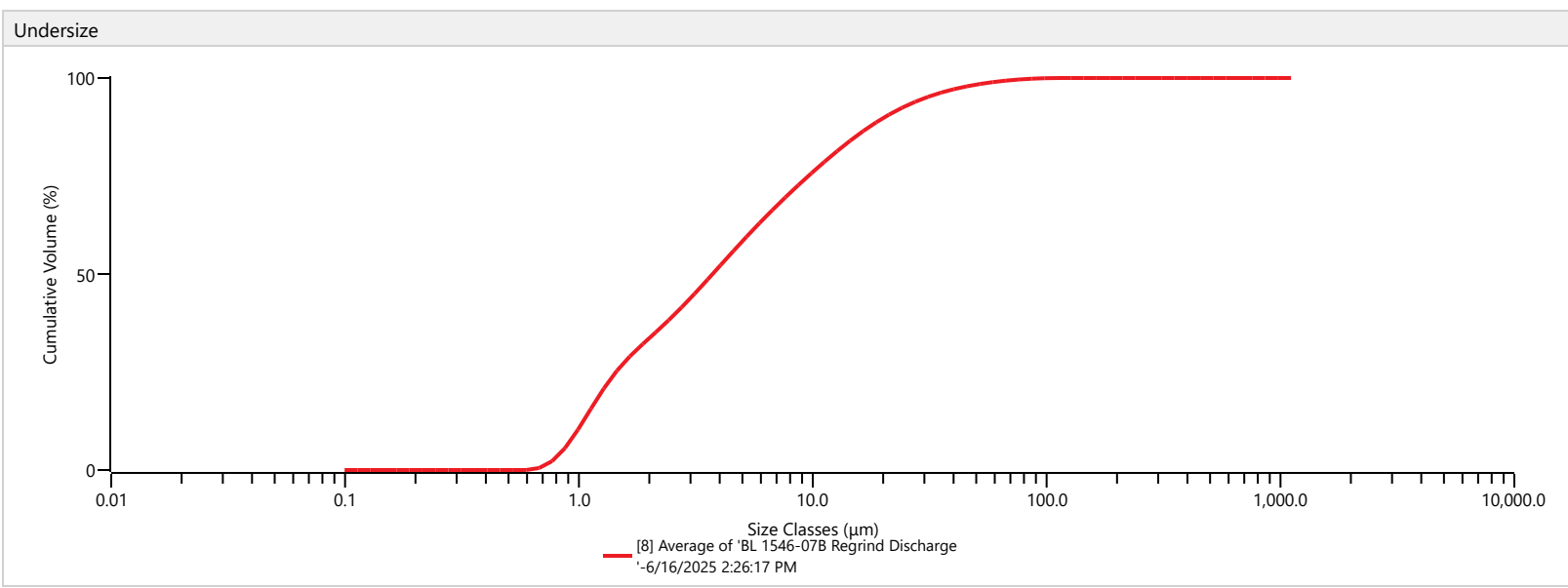


Measurement Details
<b>Sample Name</b> Average of 'BL1546-07B Regrind Discharge

Measurement Details
<b>Analysis Date Time</b> 6/16/2025 2:26:17 PM
<b>Measurement Date Time</b> 6/16/2025 2:26:17 PM
<b>Result Source</b> Averaged

Analysis
<b>Particle Name</b> Silica (RI 1.45, AI 0.1)
<b>Particle Refractive Index</b> 1.450
<b>Particle Absorption Index</b> 0.100
<b>Dispersant Name</b> Water
<b>Dispersant Refractive Index</b> 1.330
<b>Scattering Model</b> Mie
<b>Analysis Model</b> General Purpose
<b>Weighted Residual</b> 2.31 %
<b>Laser Obscuration</b> 9.99 %

Result
<b>Dv (98)</b> 46.8 μm
<b>Dv (90)</b> 20.3 μm
<b>Dv (85)</b> 15.2 μm
<b>Dv (80)</b> 11.9 μm
<b>Dv (50)</b> 3.73 μm
<b>Volume Below (75) μm</b> 99.59 %
<b>Volume Below (53) μm</b> 98.56 %
<b>Volume Below (38) μm</b> 96.78 %
<b>Volume Below (20) μm</b> 89.77 %



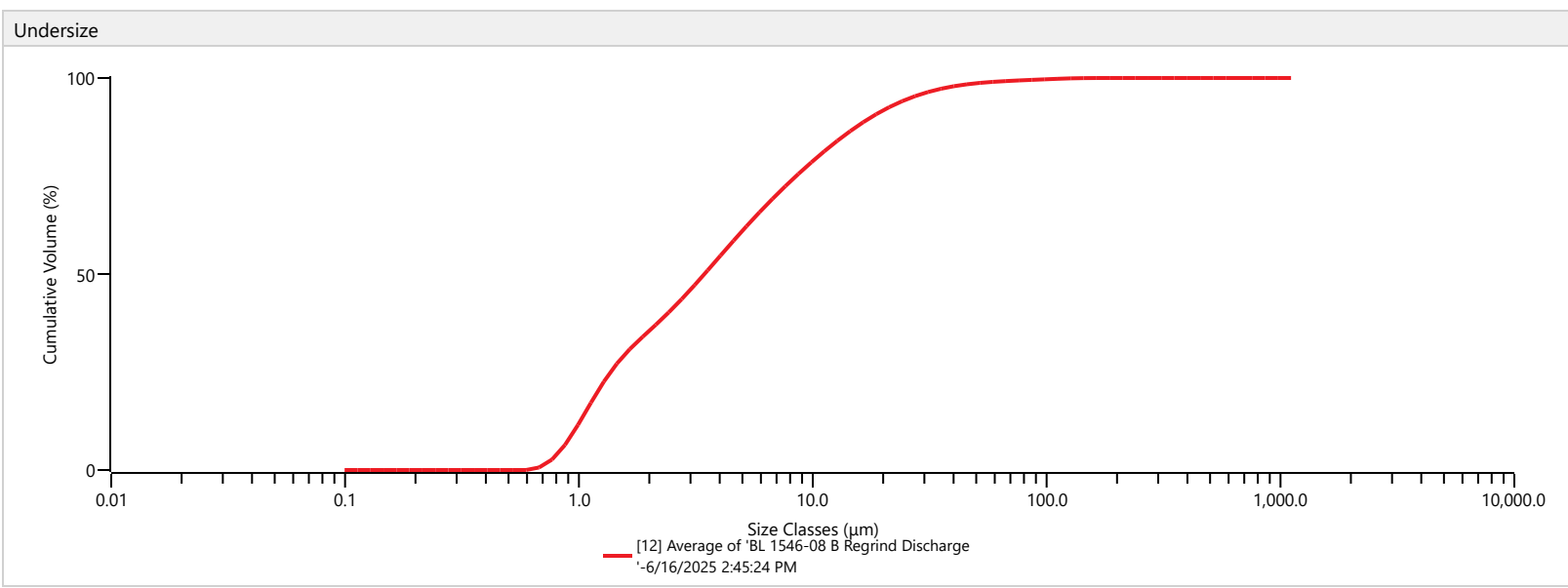
Result													
Size (μm)	% Volume Under	Size (μm)	% Volume Under	Size (μm)	% Volume Under	Size (μm)	% Volume Under	Size (μm)	% Volume Under	Size (μm)	% Volume Under	Size (μm)	% Volume Under
0.0995	0.00	0.405	0.00	1.65	28.98	6.72	66.33	27.4	93.92	111	100.00	454	100.00
0.113	0.00	0.461	0.00	1.88	32.13	7.64	69.56	31.1	95.20	127	100.00	516	100.00
0.128	0.00	0.523	0.00	2.13	35.13	8.68	72.68	35.3	96.27	144	100.00	586	100.00
0.146	0.00	0.594	0.00	2.42	38.23	9.86	75.69	40.1	97.16	163	100.00	666	100.00
0.166	0.00	0.675	0.50	2.75	41.52	11.2	78.60	45.6	97.89	186	100.00	756	100.00
0.188	0.00	0.767	2.24	3.12	44.98	12.7	81.38	51.8	98.48	211	100.00	859	100.00
0.214	0.00	0.872	5.59	3.55	48.59	14.5	84.02	58.9	98.96	240	100.00	976	100.00
0.243	0.00	0.991	10.29	4.03	52.26	16.4	86.46	66.9	99.33	272	100.00	1110	100.00
0.276	0.00	1.13	15.63	4.58	55.91	18.7	88.69	76.0	99.62	310	100.00		
0.314	0.00	1.28	20.82	5.21	59.50	21.2	90.68	86.4	99.82	352	100.00		
0.357	0.00	1.45	25.30	5.92	62.98	24.1	92.42	98.1	99.95	400	100.00		

Measurement Details
<b>Sample Name</b> Average of 'BL1546-08B Regrind Discharge

Measurement Details
<b>Analysis Date Time</b> 6/16/2025 2:45:24 PM
<b>Measurement Date Time</b> 6/16/2025 2:45:24 PM
<b>Result Source</b> Averaged

Analysis
<b>Particle Name</b> Silica (RI 1.45, AI 0.1)
<b>Particle Refractive Index</b> 1.450
<b>Particle Absorption Index</b> 0.100
<b>Dispersant Name</b> Water
<b>Dispersant Refractive Index</b> 1.330
<b>Scattering Model</b> Mie
<b>Analysis Model</b> General Purpose
<b>Weighted Residual</b> 2.32 %
<b>Laser Obscuration</b> 19.37 %

Result
<b>Dv (98)</b> 41.1 μm
<b>Dv (90)</b> 17.8 μm
<b>Dv (85)</b> 13.4 μm
<b>Dv (80)</b> 10.6 μm
<b>Dv (50)</b> 3.44 μm
<b>Volume Below (75) μm</b> 99.36 %
<b>Volume Below (53) μm</b> 98.80 %
<b>Volume Below (38) μm</b> 97.63 %
<b>Volume Below (20) μm</b> 91.73 %



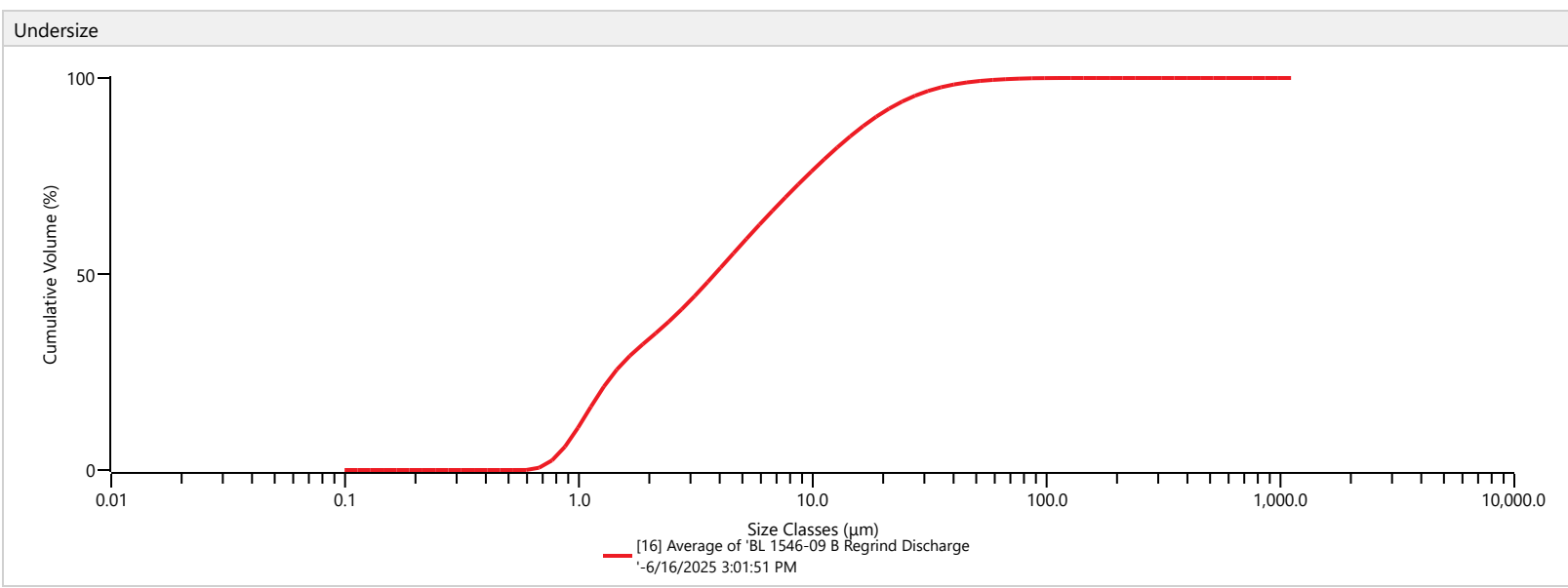
Result													
Size (μm)	% Volume Under	Size (μm)	% Volume Under	Size (μm)	% Volume Under	Size (μm)	% Volume Under	Size (μm)	% Volume Under	Size (μm)	% Volume Under	Size (μm)	% Volume Under
0.0995	0.00	0.405	0.00	1.65	30.84	6.72	69.16	27.4	95.37	111	99.80	454	100.00
0.113	0.00	0.461	0.00	1.88	34.00	7.64	72.41	31.1	96.42	127	99.91	516	100.00
0.128	0.00	0.523	0.00	2.13	37.04	8.68	75.52	35.3	97.26	144	99.97	586	100.00
0.146	0.00	0.594	0.00	2.42	40.21	9.86	78.48	40.1	97.91	163	100.00	666	100.00
0.166	0.00	0.675	0.64	2.75	43.59	11.2	81.30	45.6	98.40	186	100.00	756	100.00
0.188	0.00	0.767	2.67	3.12	47.18	12.7	83.97	51.8	98.75	211	100.00	859	100.00
0.214	0.00	0.872	6.40	3.55	50.92	14.5	86.45	58.9	99.02	240	100.00	976	100.00
0.243	0.00	0.991	11.49	4.03	54.72	16.4	88.73	66.9	99.22	272	100.00	1110	100.00
0.276	0.00	1.13	17.16	4.58	58.50	18.7	90.76	76.0	99.38	310	100.00		
0.314	0.00	1.28	22.56	5.21	62.19	21.2	92.55	86.4	99.53	352	100.00		
0.357	0.00	1.45	27.14	5.92	65.75	24.1	94.08	98.1	99.67	400	100.00		

Measurement Details
<b>Sample Name</b> Average of 'BL1546-09B Regrind Discharge

Measurement Details
<b>Analysis Date Time</b> 6/16/2025 3:01:51 PM
<b>Measurement Date Time</b> 6/16/2025 3:01:51 PM
<b>Result Source</b> Averaged

Analysis
<b>Particle Name</b> Silica (RI 1.45, AI 0.1)
<b>Particle Refractive Index</b> 1.450
<b>Particle Absorption Index</b> 0.100
<b>Dispersant Name</b> Water
<b>Dispersant Refractive Index</b> 1.330
<b>Scattering Model</b> Mie
<b>Analysis Model</b> General Purpose
<b>Weighted Residual</b> 2.25 %
<b>Laser Obscuration</b> 16.58 %

Result
<b>Dv (98)</b> 37.7 μm
<b>Dv (90)</b> 18.5 μm
<b>Dv (85)</b> 14.4 μm
<b>Dv (80)</b> 11.5 μm
<b>Dv (50)</b> 3.81 μm
<b>Volume Below (75) μm</b> 99.82 %
<b>Volume Below (53) μm</b> 99.30 %
<b>Volume Below (38) μm</b> 98.05 %
<b>Volume Below (20) μm</b> 91.24 %



Result													
Size (μm)	% Volume Under	Size (μm)	% Volume Under	Size (μm)	% Volume Under	Size (μm)	% Volume Under	Size (μm)	% Volume Under	Size (μm)	% Volume Under	Size (μm)	% Volume Under
0.0995	0.00	0.405	0.00	1.65	29.13	6.72	66.12	27.4	95.48	111	100.00	454	100.00
0.113	0.00	0.461	0.00	1.88	32.08	7.64	69.55	31.1	96.69	127	100.00	516	100.00
0.128	0.00	0.523	0.00	2.13	34.90	8.68	72.89	35.3	97.64	144	100.00	586	100.00
0.146	0.00	0.594	0.00	2.42	37.84	9.86	76.14	40.1	98.35	163	100.00	666	100.00
0.166	0.00	0.675	0.58	2.75	40.99	11.2	79.28	45.6	98.88	186	100.00	756	100.00
0.188	0.00	0.767	2.46	3.12	44.37	12.7	82.28	51.8	99.25	211	100.00	859	100.00
0.214	0.00	0.872	5.95	3.55	47.93	14.5	85.12	58.9	99.51	240	100.00	976	100.00
0.243	0.00	0.991	10.77	4.03	51.60	16.4	87.75	66.9	99.70	272	100.00	1110	100.00
0.276	0.00	1.13	16.15	4.58	55.31	18.7	90.11	76.0	99.84	310	100.00		
0.314	0.00	1.28	21.28	5.21	58.98	21.2	92.20	86.4	99.94	352	100.00		
0.357	0.00	1.45	25.63	5.92	62.59	24.1	93.99	98.1	99.97	400	100.00		



BL 1546

Instrument Serial No: MAL1129165

21CFR Mode: Inactive

Record Number: 16



**APPENDIX E**  
**MINERALOGY**

Table No.	Product	Page No.
<u>Particle Mineral Analysis</u>		
1	Comp 1 (TD) - 102 µm K80	1
2	Comp 2 (JMV) - 104 µm K80	9
3	Comp 3 (LV) - 92 µm K80	17
<u>Gold Department</u>		
4	Comp 1 (TD)	25
5	Comp 2 (JMV)	34
6	Comp 3 (LV)	43

TABLE 1A  
 MINERAL ABUNDANCE  
 BL1592 Comp 1 (TD) - 102 µm K80

Mineral	Mineral Abundance (wt% Normalised to Fraction)			
	Combined	+75 µm	+38 µm	-38 µm
Wt Dist (%)	100.0	36.7	22.9	40.4
Pyrite	0.32	0.28	0.32	0.35
Chalcopyrite	0.01	0.00	0.00	0.01
Other Cu Sulphides	0.00	0.00	0.00	0.00
Galena	0.01	0.00	0.00	0.02
Sphalerite	0.02	0.01	0.02	0.03
Other Sulphides	0.00	0.00	0.00	0.00
Quartz	72.4	76.6	76.1	66.6
Plagioclase	0.99	0.92	0.95	1.08
K-Feldspar	11.7	12.9	10.5	11.2
Muscovite/Illite	3.79	4.21	3.31	3.68
Chlorite	0.18	0.17	0.19	0.18
Clays	0.30	0.18	0.17	0.48
Other Silicates	0.08	0.05	0.07	0.11
Fe-Oxides	0.34	0.12	0.12	0.66
Other Oxides	0.21	0.12	0.24	0.27
Calcite	8.42	3.48	6.95	13.7
Dolomite	0.27	0.09	0.14	0.51
Ankerite	0.90	0.80	0.94	0.96
Siderite	0.00	0.00	0.00	0.00
Apatite	0.02	0.01	0.02	0.03
Other	0.05	0.02	0.01	0.11
Total	100	100	100	100

**TABLE 1B**  
**DISTRIBUTION OF BY SIZE RANGE OF SULPHUR**  
**BL1592 Comp 1 (TD) - 102 µm K80**

Size Fraction	Mass %	Mineral Distribution of Sulphur (% of total Sulphur)						
		Py	Cp	Oth CuS	Ga	Sp	Os	Oth
+75 µm	36.7	96.7	0.5	0.0	0.0	2.7	0.1	0.0
+38 µm	22.9	95.5	0.4	0.0	0.0	3.5	0.1	0.5
-38 µm	40.4	85.1	2.0	0.1	1.3	4.5	0.7	6.3
Combined	100.0	90.9	1.2	0.0	0.6	3.7	0.4	3.1

Notes: 1. Abbreviations : Py-Pyrite, Cp- Chalcopyrite, Oth CuS - Other Cu Sulphides, Ga - Galena, Sp - Sphalerite, Os - Other Sulphides, Oth-Other.  
2. 75 µm and 38 µm fractions correspond to the Tyler 200 and 400 mesh screens.

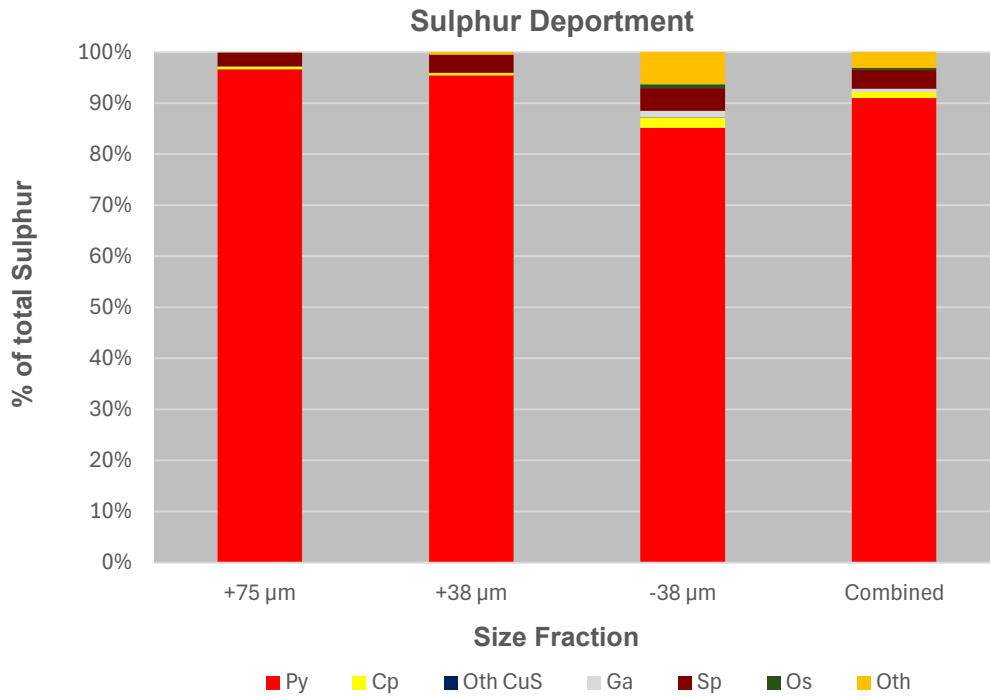


TABLE 1C  
 DISTRIBUTION OF BY SIZE RANGE OF COPPER  
 BL1592 Comp 1 (TD) - 102 µm K80

Size Fraction	Mass %	Mineral Distribution of Copper (% of total Copper)			
		Cp	Bn	Cc/Cv	En/Ttr
+75 µm	36.7	81.6	2.0	15.4	1.0
+38 µm	22.9	86.2	5.2	2.2	6.4
-38 µm	40.4	90.6	3.5	6.0	0.0
Combined	100.0	89.0	3.4	7.1	0.6

Notes: 1. Abbreviations : Cp - Chalcopyrite, Bn - Bornite, Cc/Cv - Chalcocite/Covellite, En/Ttr - Enargite/Tetrahedrite  
 2. 75µm and 38 µm fractions correspond to the Tyler 200 and 400 mesh screens.

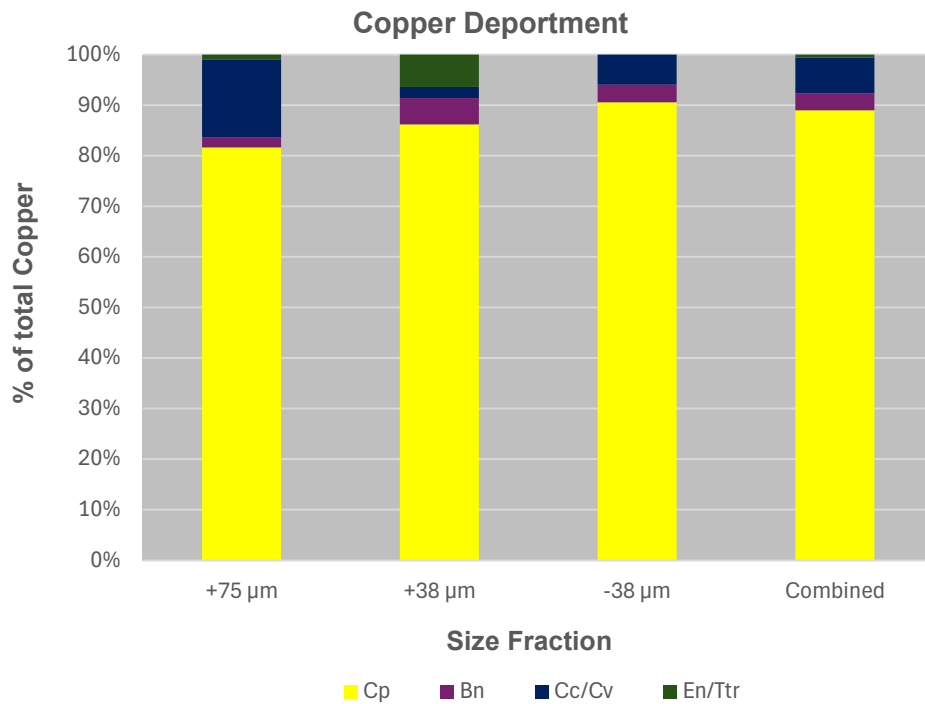


TABLE 1D  
SUMMARY OF PERCENT LIBERATION BY SIZE AND CLASS  
BL1592 Comp 1 (TD) - 102 µm K80

Size Range	+75 µm				+38 µm			
	Py	CuS	Os	Gn	Py	CuS	Os	Gn
Liberated	16.6	0.0	11.5	36.7	18.9	0.3	12.6	22.9
Binary - Py		3.1	2.5	0.1		5.0	0.9	0.0
Binary - CuS	1.3		0.0	0.0	0.5		0.0	0.0
Binary - Os	2.6	0.0		0.0	0.7	0.0		0.0
Binary - Gn	11.9	8.8	1.3		2.8	2.3	0.8	
Multiphase	0.0	3.8	0.0	0.0	0.0	0.1	0.0	0.0
Total	32.4	15.8	15.4	36.7	22.8	7.8	14.4	22.9

Size Range	-38 µm			
	Py	CuS	Os	Gn
Liberated	37.7	67.9	51.0	40.3
Binary - Py		4.0	1.9	0.0
Binary - CuS	1.1		1.7	0.0
Binary - Os	0.4	0.4		0.0
Binary - Gn	5.1	2.4	15.1	
Multiphase	0.5	1.8	0.5	0.0
Total	44.8	76.4	70.2	40.4

Mineral Status	Liberation (%)			
	Py	CuS	Os	Gn
Liberated	73.2	68.2	75.1	99.9
Binary - Py		12.2	5.3	0.1
Binary - CuS	2.9		1.7	0.0
Binary - Os	3.6	0.4		0.0
Binary - Gn	19.8	13.6	17.3	
Multiphase	0.6	5.7	0.5	0.0
Total	100	100	100	100

- Notes: 1. Abbreviations: Py - Pyrite, CuS - Chalcopyrite, Bornite, Chalcocite and Covellite, Other Cu Sulphides, Os-Other Sulphides, Gn - Non-Sulphide Gangue  
2. 75µm and 38 µm fractions correspond to the Tyler 200 and 400 mesh screens.  
3. The liberated particle means that the measured particles contain >95% by area of the target minerals.  
The mineral liberation was based on the mineral occurrences in 2 dimensions.  
4. There are limited particle statistics for Cu Sulphides and Other Sulphides, so the data should be considered qualitative.

TABLE 1D Continued  
 SUMMARY OF PERCENT LIBERATION BY SIZE AND CLASS  
 BL1592 Comp 1 (TD) - 102 µm K80

Mineral Status	Pyrite Liberation (Normalised to Fraction)		
	+75 µm	+38 µm	-38 µm
Liberated	51.3	82.6	84.2
Binary - CuS	4.2	2.1	2.4
Binary - Os	7.9	3.0	0.8
Binary - Gn	36.7	12.3	11.4
Multiphase	0.0	0.0	1.2
Total	100	100	100

Mineral Status	Cu Sulphides Liberation (Normalised to Fraction)		
	+75 µm	+38 µm	-38 µm
Liberated	0.00	4.08	88.8
Binary - Py	19.8	64.7	5.25
Binary - Os	0.00	0.00	0.52
Binary - Gn	56.0	30.1	3.11
Multiphase	24.2	1.09	2.34
Total	100	100	100

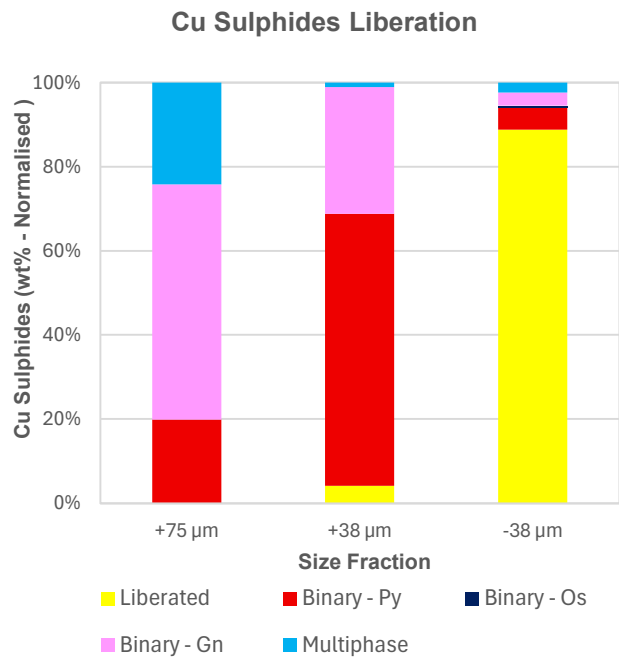
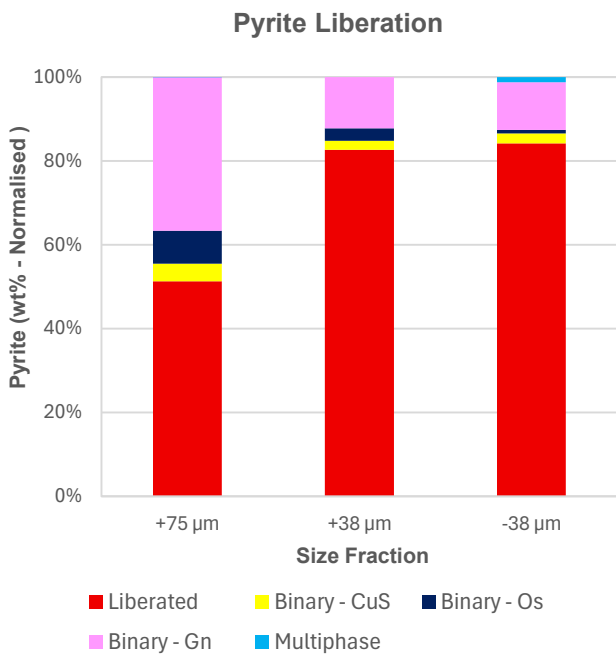


TABLE 1E  
EXPOSURE OF CU SULPHIDES  
BL1592 Comp 1 (TD) - 102 µm K80

Exposure	Cu Sulphides Exposure by Size			
	Combined	+75 µm	+38 µm	-38 µm
90-100%	68.2	0.00	4.08	88.8
70-90%	1.73	0.00	0.00	2.26
50-70%	1.26	0.00	0.00	1.64
20-50%	3.45	0.00	0.00	4.51
0-20%	20.4	78.2	87.8	1.61
Locked	4.98	21.8	8.12	1.19
Total	100.0	100	100	100

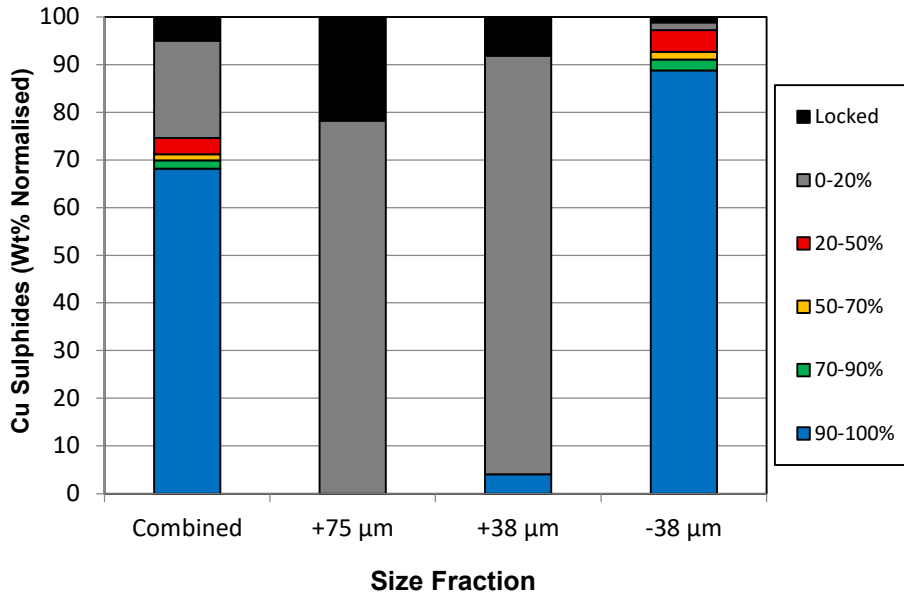
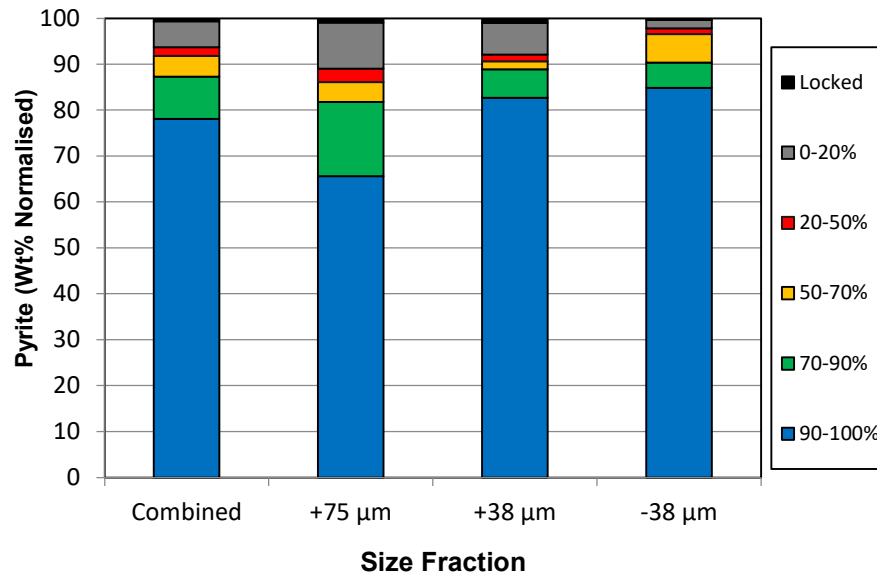


TABLE 1F  
EXPOSURE OF PYRITE  
BL1592 Comp 1 (TD) - 102 µm K80

Exposure	Pyrite Exposure by Size			
	Combined	+75 µm	+38 µm	-38 µm
90-100%	78.1	65.6	82.6	84.8
70-90%	9.14	16.2	6.24	5.51
50-70%	4.55	4.26	1.75	6.19
20-50%	1.86	2.95	1.48	1.27
0-20%	5.64	10.1	6.88	1.82
Locked	0.71	0.94	1.03	0.39
Total	100	100	100	100



**TABLE 1G**  
**ASSAY RECONCILIATION**  
**BL1592 Comp 1 (TD) - 102 µm K80**

Element	Al		Ca		Fe		K		Mg	
Size	QEM	Assay	QEM	Assay	QEM	Assay	QEM	Assay	QEM	Assay
+75 µm	2.43	2.48	1.59	1.64	0.40	0.47	2.65	2.54	0.05	0.08
+38 µm	1.99	1.97	3.02	2.99	0.46	0.51	1.99	1.99	0.07	0.10
-38 µm	2.13	2.37	5.83	6.01	0.88	1.66	1.92	2.16	0.12	0.15
Head (Calc)	2.21	2.32	3.63	3.71	0.61	0.96	2.21	2.26	0.08	0.12

Element	Mn		Na		S		Si		Ti	
Size	QEM	Assay	QEM	Assay	QEM	Assay	QEM	Assay	QEM	Assay
+75 µm	0.03	0.05	0.35	0.30	0.15	0.09	40.1	40.2	0.04	0.03
+38 µm	0.05	0.07	0.30	0.22	0.18	0.16	39.2	39.5	0.05	0.03
-38 µm	0.12	0.00	0.32	0.22	0.22	0.19	35.4	34.7	0.05	0.04
Head (Calc)	0.07	0.03	0.33	0.25	0.19	0.15	38.0	37.8	0.05	0.03

### Assay Reconciliation

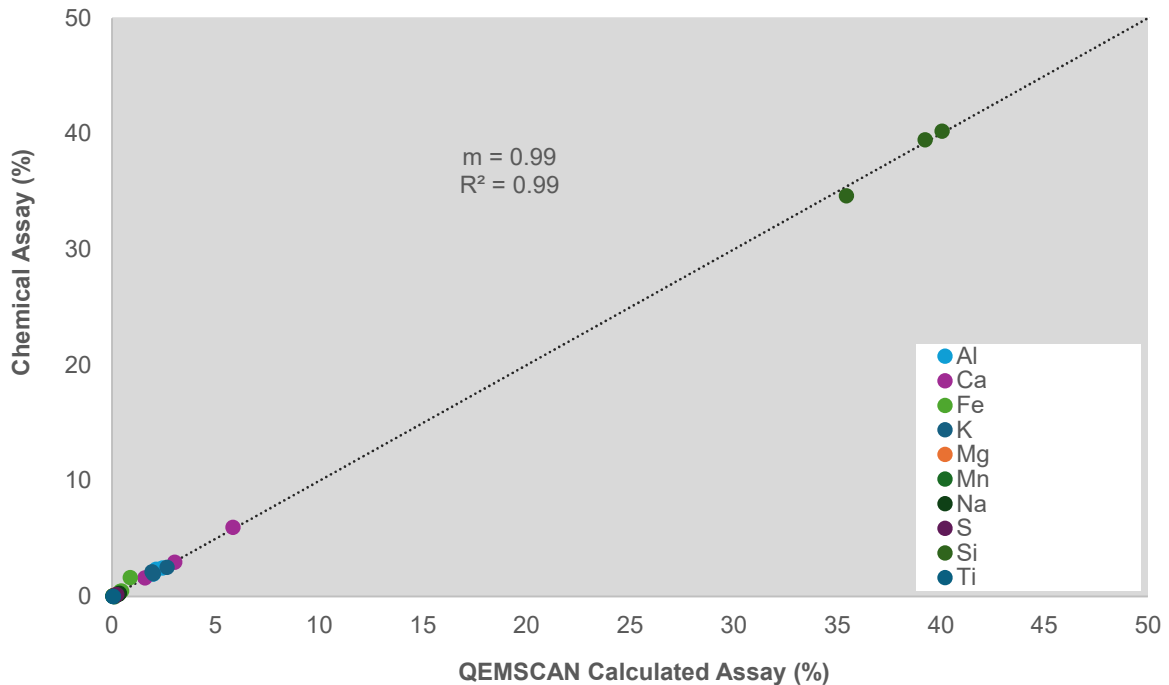


TABLE 2A  
 MINERAL ABUNDANCE  
 BL1592 Comp 2 (JMV) - 104 µm K80

Mineral	Mineral Abundance (wt% Normalised to Fraction)			
	Combined	+75 µm	+38 µm	-38 µm
Wt Dist (%)	100.0	36.9	21.1	42.0
Pyrite	0.22	0.14	0.28	0.26
Chalcopyrite	0.01	0.00	0.01	0.02
Other Cu Sulphides	0.00	0.00	0.00	0.01
Galena	0.04	0.04	0.03	0.04
Sphalerite	0.01	0.01	0.01	0.02
Other Sulphides	0.00	0.00	0.00	0.01
Quartz	63.0	73.6	66.5	51.8
Plagioclase	1.32	1.05	1.18	1.62
K-Feldspar	7.27	8.91	6.46	6.23
Muscovite/illite	3.68	4.06	3.46	3.45
Chlorite	0.07	0.10	0.07	0.04
Clays	0.32	0.19	0.17	0.52
Other Silicates	0.12	0.10	0.11	0.15
Fe-Oxides	0.31	0.16	0.11	0.54
Other Oxides	0.16	0.10	0.15	0.23
Calcite	20.7	9.38	18.6	31.6
Dolomite	1.12	0.59	0.78	1.75
Ankerite	1.70	1.54	1.97	1.69
Siderite	0.00	0.00	0.00	0.00
Apatite	0.03	0.01	0.06	0.03
Other	0.01	0.01	0.01	0.02
Total	100	100	100	100

**TABLE 2B**  
**DISTRIBUTION OF BY SIZE RANGE OF SULPHUR**  
**BL1592 Comp 2 (JMV) - 104 µm K80**

Size Fraction	Mass %	Mineral Distribution of Sulphur (% of total Sulphur)						
		Py	Cp	Oth CuS	Ga	Sp	Os	Oth
+75 µm	36.9	89.5	0.5	0.5	6.6	2.1	0.4	0.4
+38 µm	21.1	91.3	2.7	0.2	2.3	2.3	0.4	0.8
-38 µm	42.0	85.4	3.4	0.5	3.6	4.4	1.3	1.3
Combined	100.0	87.9	2.6	0.4	4.0	3.3	0.9	0.9

Notes: 1. Abbreviations : Py-Pyrite, Cp- Chalcopyrite, Oth CuS - Other Cu Sulphides, Ga - Galena, Sp - Sphalerite, Os - Other Sulphides, Oth-Other.  
2. 75 µm and 38 µm fractions correspond to the Tyler 200 and 400 mesh screens.

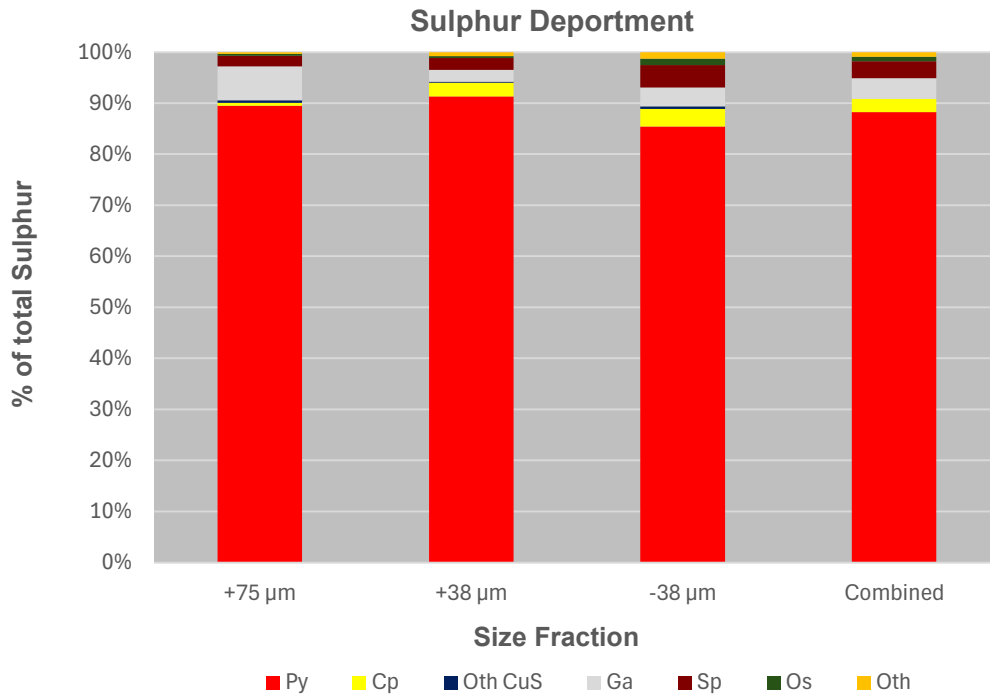


TABLE 2C  
 DISTRIBUTION OF BY SIZE RANGE OF COPPER  
 BL1592 Comp 2 (JMV) - 104 µm K80

Size Fraction	Mass %	Mineral Distribution of Copper (% of total Copper)			
		Cp	Bn	Cc/Cv	En/Ttr
+75 µm	36.9	20.0	1.3	78.6	0.0
+38 µm	21.1	77.6	2.0	20.5	0.0
-38 µm	42.0	63.4	0.4	34.1	2.1
Combined	100.0	60.6	0.9	37.1	1.4

Notes: 1. Abbreviations : Cp - Chalcopyrite, Bn - Bornite, Cc/Cv - Chalcocite/Covellite, En/Ttr - Enargite/Tetrahedrite  
 2. 75µm and 38 µm fractions correspond to the Tyler 200 and 400 mesh screens.

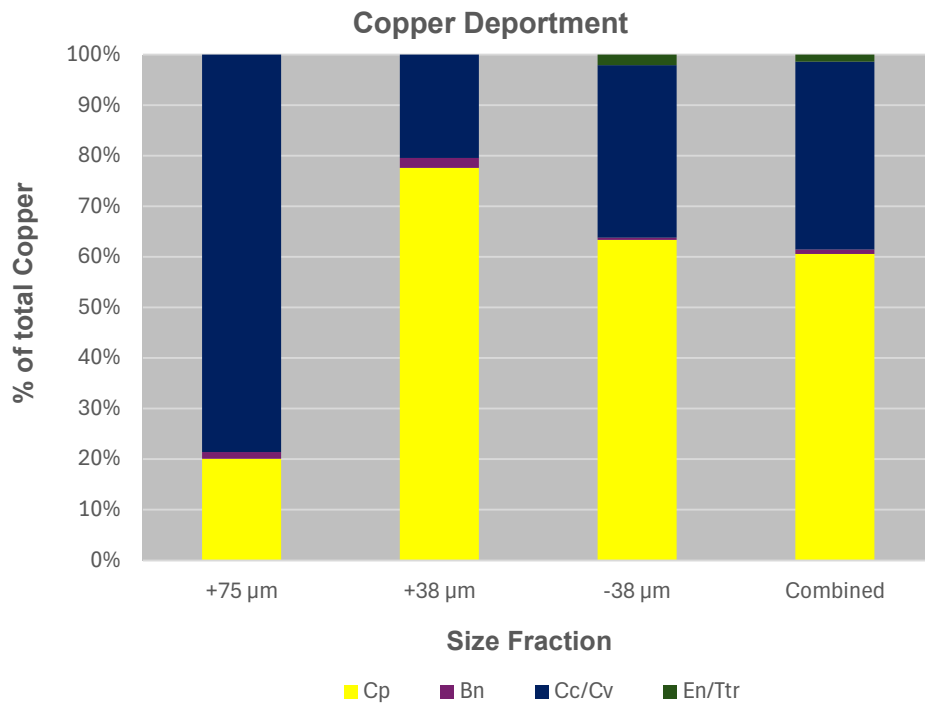


TABLE 2D  
SUMMARY OF PERCENT LIBERATION BY SIZE AND CLASS  
BL1592 Comp 2 (JMV) - 104 µm K80

Size Range	+75 µm				+38 µm			
Mineral Status	Py	CuS	Os	Gn	Py	CuS	Os	Gn
Liberated	13.2	0.0	23.1	36.9	21.7	20.6	10.6	21.1
Binary - Py		0.0	0.3	0.0		0.1	0.3	0.0
Binary - CuS	0.0		0.0	0.0	0.0		0.0	0.0
Binary - Os	1.0	0.0		0.0	0.0	0.0		0.0
Binary - Gn	9.7	11.0	8.3		4.7	1.5	4.2	
Multiphase	0.0	0.3	0.2	0.0	0.0	0.2	0.2	0.0
Total	23.8	11.3	31.9	36.9	26.4	22.4	15.3	21.1

Size Range	-38 µm			
Mineral Status	Py	CuS	Os	Gn
Liberated	45.7	52.1	44.1	41.9
Binary - Py		3.6	2.8	0.0
Binary - CuS	1.5		0.7	0.0
Binary - Os	0.5	0.7		0.0
Binary - Gn	1.7	8.8	4.4	
Multiphase	0.4	1.1	0.8	0.0
Total	49.8	66.3	52.8	42.0

Mineral Status	Liberation (%)			
	Py	CuS	Os	Gn
Liberated	80.5	72.7	77.9	99.9
Binary - Py		3.7	3.4	0.1
Binary - CuS	1.5		0.7	0.0
Binary - Os	1.4	0.7		0.0
Binary - Gn	16.1	21.3	16.9	
Multiphase	0.4	1.6	1.1	0.0
Total	100	100	100	100

- Notes: 1. Abbreviations: Py - Pyrite, CuS - Chalcopyrite, Bornite, Chalcocite and Covellite, Other Cu Sulphides, Os-Other Sulphides, Gn - Non-Sulphide Gangue  
2. 75µm and 38 µm fractions correspond to the Tyler 200 and 400 mesh screens.  
3. The liberated particle means that the measured particles contain >95% by area of the target minerals.  
The mineral liberation was based on the mineral occurrences in 2 dimensions.  
4. There are limited particle statistics for Cu Sulphides and Other Sulphides, so the data should be considered qualitative

TABLE 2D Continued  
 SUMMARY OF PERCENT LIBERATION BY SIZE AND CLASS  
 BL1592 Comp 2 (JMV) - 104 µm K80

Mineral Status	Pyrite Liberation (Normalised to Fraction)		
	+75 µm	+38 µm	-38 µm
Liberated	55.2	82.1	91.8
Binary - CuS	0.0	0.0	3.1
Binary - Os	4.0	0.0	0.9
Binary - Gn	40.7	17.8	3.4
Multiphase	0.0	0.0	0.8
Total	100	100	100

Mineral Status	Cu Sulphides Liberation (Normalised to Fraction)		
	+75 µm	+38 µm	-38 µm
Liberated	0.00	91.9	78.6
Binary - Py	0.00	0.50	5.39
Binary - Os	0.00	0.00	1.08
Binary - Gn	97.6	6.63	13.3
Multiphase	2.35	0.95	1.66
Total	100	100	100

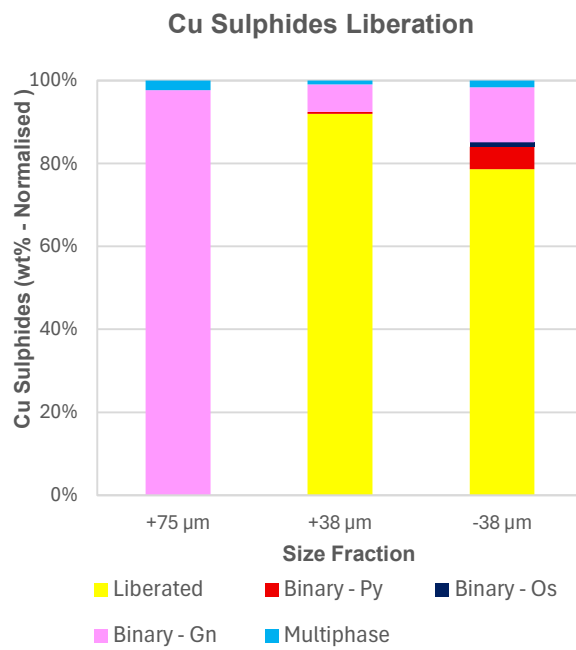
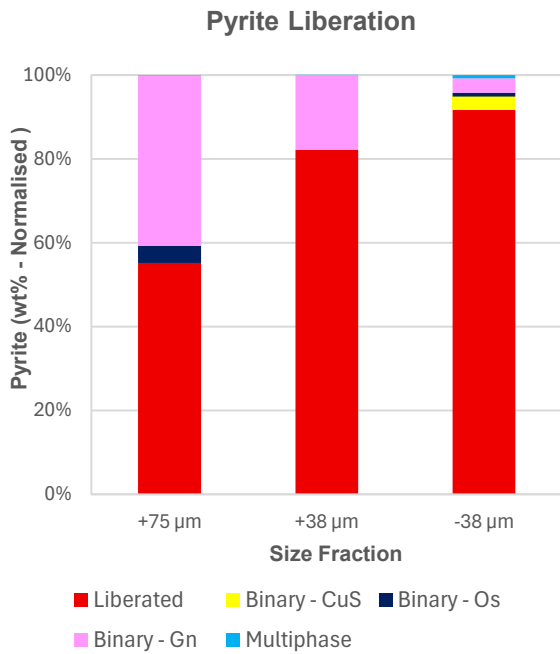


TABLE 2E  
EXPOSURE OF CU SULPHIDES  
BL1592 Comp 2 (JMV) - 104 µm K80

Exposure	Cu Sulphides Exposure by Size			
	Combined	+75 µm	+38 µm	-38 µm
90-100%	72.7	0.00	91.9	78.6
70-90%	0.00	0.00	0.00	0.00
50-70%	0.22	0.00	0.00	0.34
20-50%	11.3	0.00	2.15	16.3
0-20%	14.6	93.4	4.26	4.74
Locked	1.12	6.56	1.68	0.00
Total	100.0	100	100	100

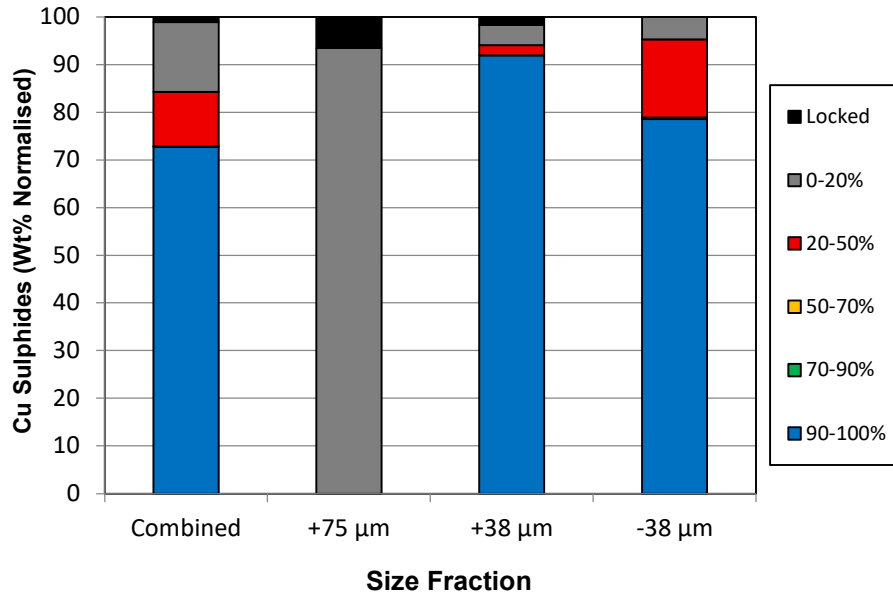


TABLE 2F  
EXPOSURE OF PYRITE  
BL1592 Comp 2 (JMV) - 104 µm K80

Exposure	Pyrite Exposure by Size			
	Combined	+75 µm	+38 µm	-38 µm
90-100%	78.3	59.2	73.4	90.1
70-90%	8.59	5.09	15.4	6.65
50-70%	5.82	14.0	5.68	1.98
20-50%	2.84	8.17	1.96	0.75
0-20%	3.95	12.2	3.01	0.50
Locked	0.46	1.30	0.55	0.00
Total	100	100	100	100

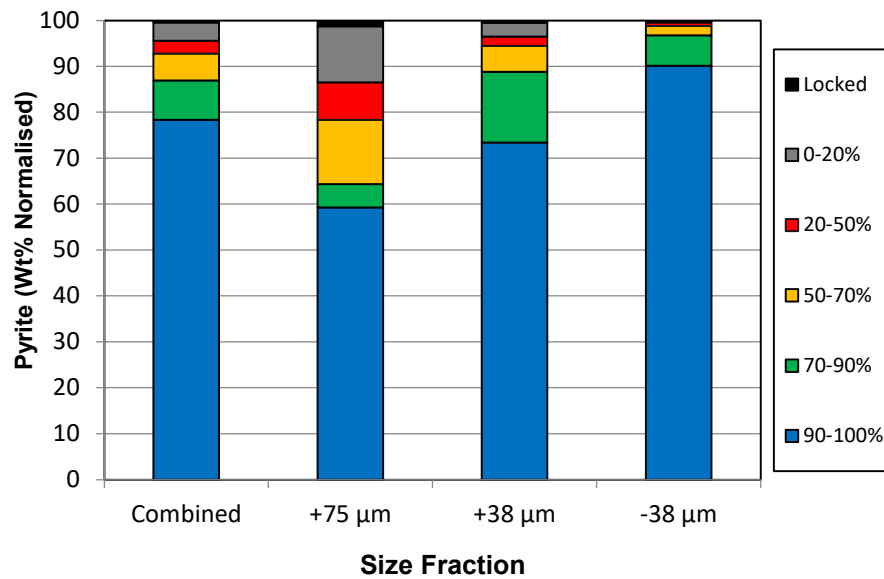
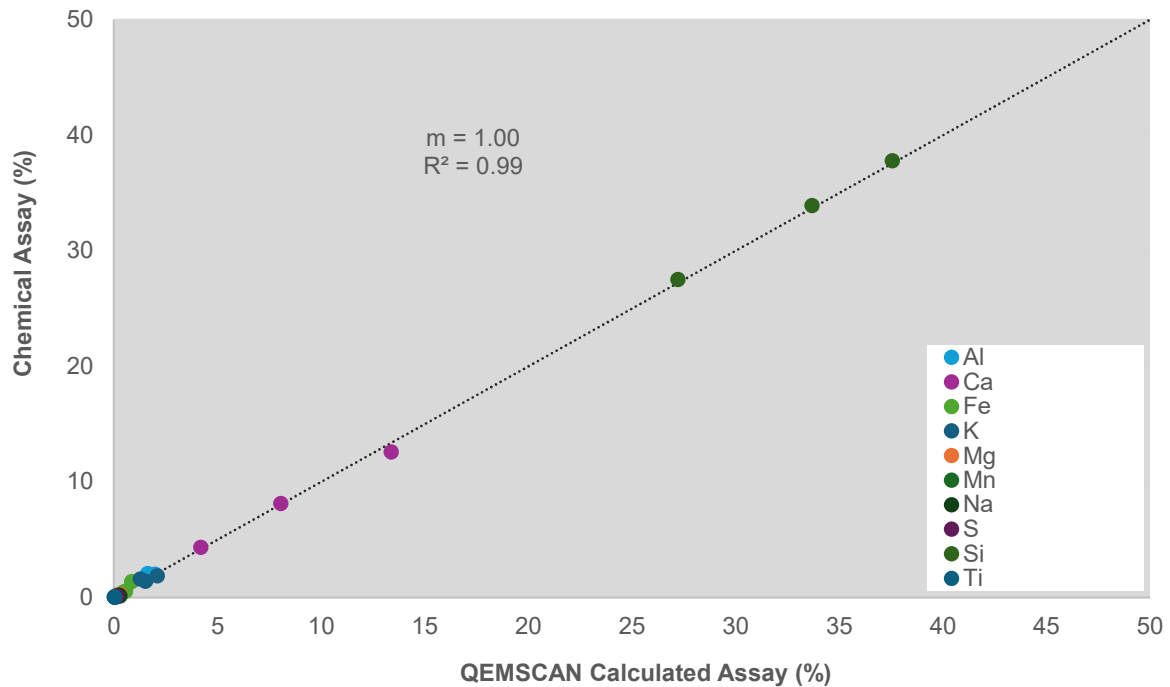


TABLE 2G  
ASSAY RECONCILIATION  
BL1592 Comp 2 (JMV) - 104 µm K80

Element	Al		Ca		Fe		K		Mg	
Size	QEM	Assay	QEM	Assay	QEM	Assay	QEM	Assay	QEM	Assay
+75 µm	1.99	2.02	4.21	4.35	0.47	0.48	2.10	1.88	0.14	0.16
+38 µm	1.59	1.60	8.06	8.14	0.57	0.57	1.53	1.42	0.18	0.23
-38 µm	1.64	2.09	13.4	12.6	0.86	1.40	1.29	1.62	0.31	0.28
Head (Calc)	1.76	1.96	8.88	8.61	0.65	0.89	1.64	1.67	0.22	0.22

Element	Mn		Na		S		Si		Ti	
Size	QEM	Assay	QEM	Assay	QEM	Assay	QEM	Assay	QEM	Assay
+75 µm	0.04	0.07	0.27	0.21	0.08	0.07	37.6	37.8	0.04	0.04
+38 µm	0.07	0.11	0.23	0.19	0.16	0.13	33.7	33.9	0.05	0.04
-38 µm	0.31	0.16	0.26	0.20	0.16	0.10	27.2	27.5	0.03	0.05
Head (Calc)	0.08	0.12	0.26	0.20	0.13	0.10	32.4	32.7	0.04	0.04

### Assay Reconciliation



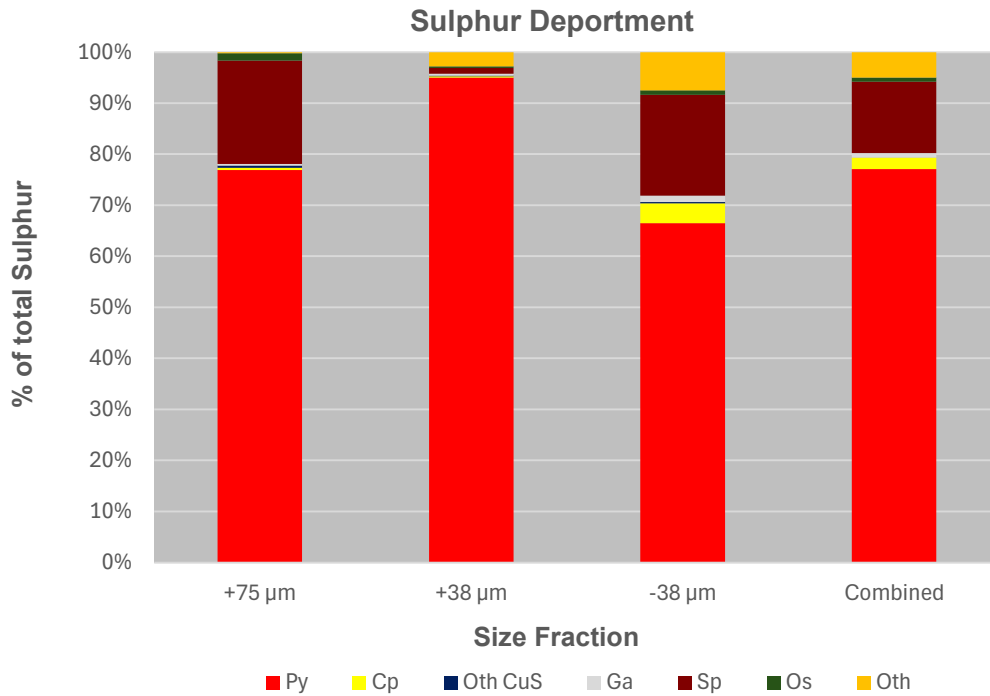
**TABLE 3A**  
**MINERAL ABUNDANCE**  
**BL1592 Comp 3 (LV) - 92 µm K80**

Mineral	Mineral Abundance (wt% Normalised to Fraction)			
	Combined	+75 µm	+38 µm	-38 µm
Wt Dist (%)	100.0	30.9	23.9	45.2
Pyrite	0.11	0.05	0.18	0.12
Chalcopyrite	0.01	0.00	0.00	0.01
Other Cu Sulphides	0.00	0.00	0.00	0.00
Galena	0.00	0.00	0.00	0.01
Sphalerite	0.03	0.02	0.00	0.06
Other Sulphides	0.00	0.00	0.00	0.00
Quartz	77.6	82.0	80.5	73.0
Plagioclase	0.13	0.10	0.11	0.16
K-Feldspar	3.33	3.91	3.25	2.98
Muscovite/illite	2.94	3.38	2.58	2.83
Chlorite	0.15	0.21	0.11	0.13
Clays	0.26	0.23	0.18	0.32
Other Silicates	0.92	1.20	0.72	0.84
Fe-Oxides	0.26	0.06	0.14	0.47
Other Oxides	0.16	0.13	0.09	0.21
Calcite	9.17	4.14	7.55	13.5
Dolomite	3.33	2.85	2.91	3.89
Ankerite	1.54	1.71	1.61	1.39
Siderite	0.00	0.00	0.00	0.00
Apatite	0.02	0.01	0.01	0.03
Other	0.03	0.00	0.02	0.05
Total	100	100	100	100

**TABLE 3B**  
**DISTRIBUTION OF BY SIZE RANGE OF SULPHUR**  
**BL1592 Comp 3 (LV) - 92 µm K80**

Size Fraction	Mass %	Mineral Distribution of Sulphur (% of total Sulphur)						
		Py	Cp	Oth CuS	Ga	Sp	Os	Oth
+75 µm	30.9	76.9	0.5	0.4	0.3	20.2	1.4	0.3
+38 µm	23.9	95.0	0.2	0.1	0.4	1.1	0.3	2.8
-38 µm	45.2	66.5	3.9	0.3	1.2	19.8	0.9	7.5
Combined	100.0	76.9	2.2	0.3	0.8	14.0	0.8	5.0

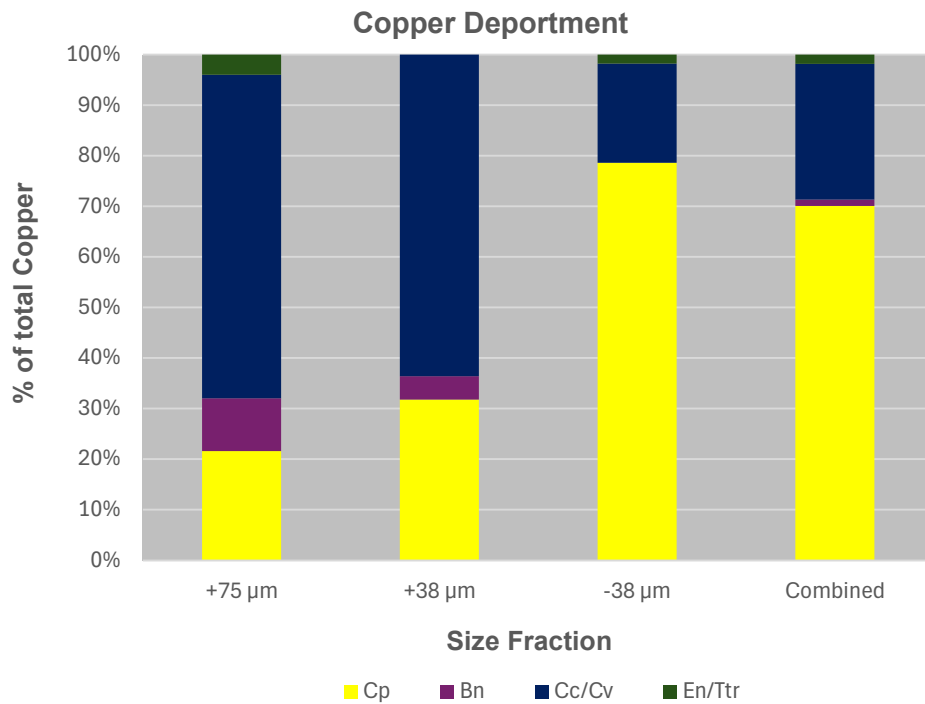
Notes: 1. Abbreviations : Py-Pyrite, Cp- Chalcopyrite, Oth CuS - Other Cu Sulphides, Ga - Galena, Sp - Sphalerite, Os - Other Sulphides, Oth-Other.  
 2. 75 µm and 38 µm fractions correspond to the Tyler 200 and 400 mesh screens.



**TABLE 3C**  
**DISTRIBUTION OF BY SIZE RANGE OF COPPER**  
**BL1592 Comp 3 (LV) - 92 µm K80**

Size Fraction	Mass %	Mineral Distribution of Copper (% of total Copper)			
		Cp	Bn	Cc/Cv	En/Ttr
+75 µm	30.9	21.6	10.5	64.0	4.0
+38 µm	23.9	31.8	4.6	63.6	0.0
-38 µm	45.2	78.6	0.0	19.6	1.8
Combined	100.0	70.1	1.3	26.8	1.8

Notes: 1. Abbreviations : Cp - Chalcopyrite, Bn - Bornite, Cc/Cv - Chalcocite/Covellite, En/Ttr - Enargite/Tetrahedrite  
2. 75µm and 38 µm fractions correspond to the Tyler 200 and 400 mesh screens.



**TABLE 3D**  
**SUMMARY OF PERCENT LIBERATION BY SIZE AND CLASS**  
**BL1592 Comp 3 (LV) - 92 µm K80**

Size Range	+75 µm				+38 µm			
	Py	CuS	Os	Gn	Py	CuS	Os	Gn
Liberated	3.6	0.0	13.0	30.9	25.4	0.0	0.1	23.9
Binary - Py		0.3	1.1	0.0		3.7	1.3	0.0
Binary - CuS	0.0		0.0	0.0	3.9		0.0	0.0
Binary - Os	3.7	0.0		0.0	2.1	0.0		0.0
Binary - Gn	7.0	6.4	4.1		5.2	1.3	2.5	
Multiphase	0.5	0.8	0.4	0.0	1.8	1.8	0.9	0.0
Total	14.8	7.5	18.6	30.9	38.4	6.8	4.8	23.9

Size Range	-38 µm			
	Py	CuS	Os	Gn
Liberated	25.9	62.9	63.7	45.2
Binary - Py		16.4	4.8	0.0
Binary - CuS	6.0		1.1	0.0
Binary - Os	2.1	5.1		0.0
Binary - Gn	12.6	0.5	6.4	
Multiphase	0.2	0.9	0.5	0.0
Total	46.8	85.8	76.5	45.2

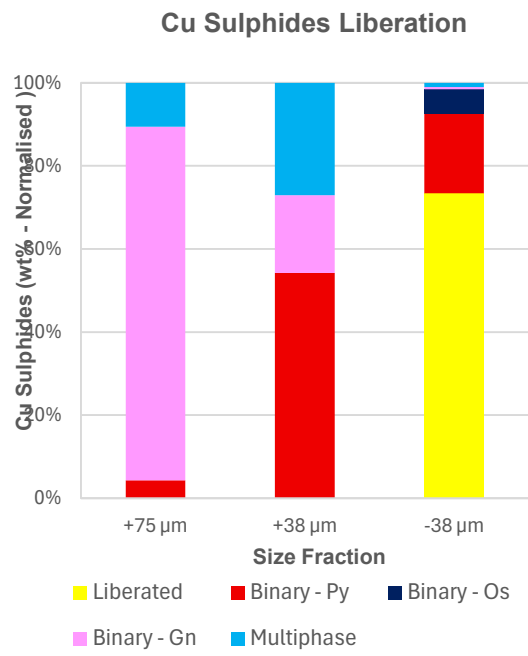
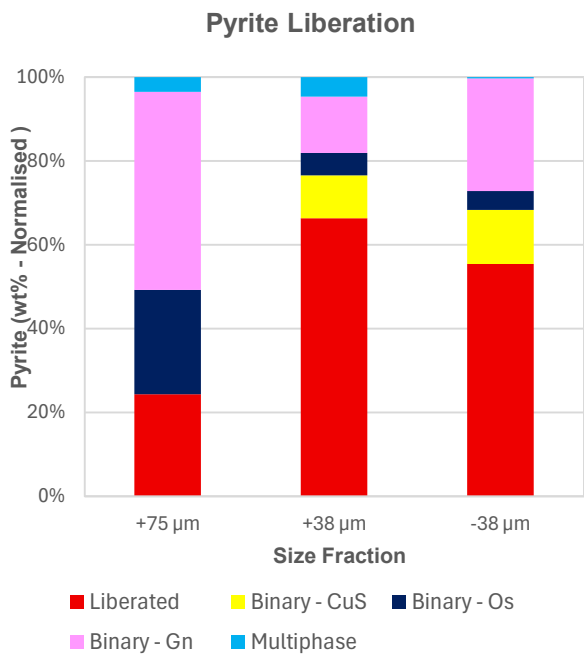
Mineral Status	Liberation (%)			
	Py	CuS	Os	Gn
Liberated	55.0	62.9	76.8	100.0
Binary - Py		20.4	7.2	0.0
Binary - CuS	9.9		1.1	0.0
Binary - Os	7.9	5.1		0.0
Binary - Gn	24.7	8.1	13.0	
Multiphase	2.5	3.5	1.9	0.0
Total	100	100	100	100

- Notes: 1. Abbreviations: Py - Pyrite, CuS - Chalcopyrite, Bornite, Chalcocite and Covellite, Other Cu Sulphides, Os-Other Sulphides, Gn - Non-Sulphide Gangue  
2. 75µm and 38 µm fractions correspond to the Tyler 200 and 400 mesh screens.  
3. The liberated particle means that the measured particles contain >95% by area of the target minerals.  
The mineral liberation was based on the mineral occurrences in 2 dimensions.  
4. There are limited particle statistics for Cu Sulphides and Other Sulphides, so the data should be considered qualitative

TABLE 3D Continued  
 SUMMARY OF PERCENT LIBERATION BY SIZE AND CLASS  
 BL1592 Comp 3 (LV) - 92 µm K80

Mineral Status	Pyrite Liberation (Normalised to Fraction)		
	+75 µm	+38 µm	-38 µm
Liberated	24.3	66.3	55.4
Binary - CuS	0.0	10.2	12.9
Binary - Os	24.9	5.4	4.5
Binary - Gn	47.3	13.5	26.9
Multiphase	3.5	4.7	0.3
Total	100	100	100

Mineral Status	Cu Sulphides Liberation (Normalised to Fraction)		
	+75 µm	+38 µm	-38 µm
Liberated	0.00	0.00	73.4
Binary - Py	4.27	54.2	19.2
Binary - Os	0.00	0.00	5.90
Binary - Gn	85.2	18.7	0.56
Multiphase	10.6	27.1	1.00
Total	100	100	100



**TABLE 3E**  
**EXPOSURE OF CU SULPHIDES**  
**BL1592 Comp 3 (LV) - 92 µm K80**

Exposure	Cu Sulphides Exposure by Size			
	Combined	+75 µm	+38 µm	-38 µm
90-100%	71.0	0.00	0.00	82.8
70-90%	5.17	0.00	0.00	6.02
50-70%	0.48	0.00	0.00	0.56
20-50%	2.16	7.37	4.15	1.55
0-20%	14.6	53.5	91.7	5.13
Locked	6.59	39.1	4.15	3.95
Total	100.0	100	100	100

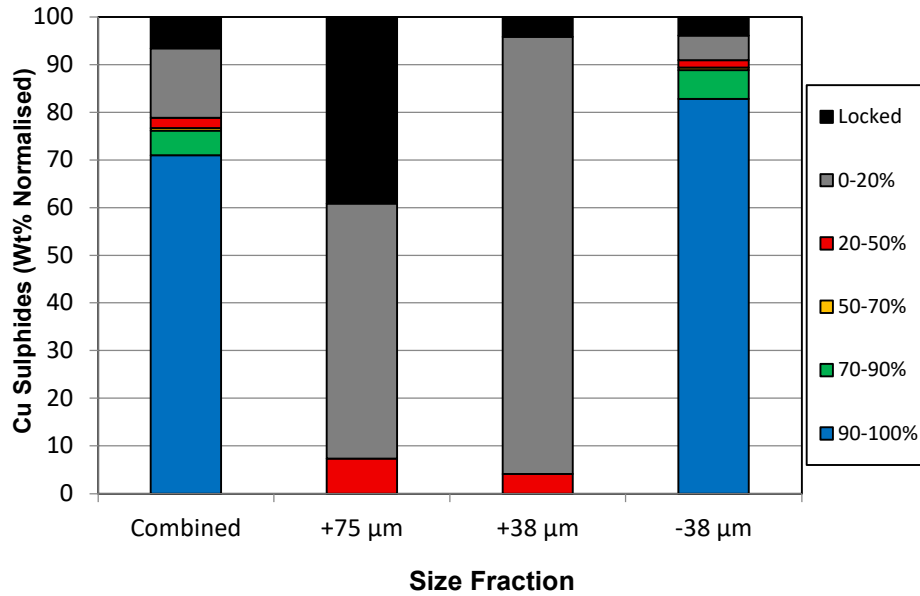
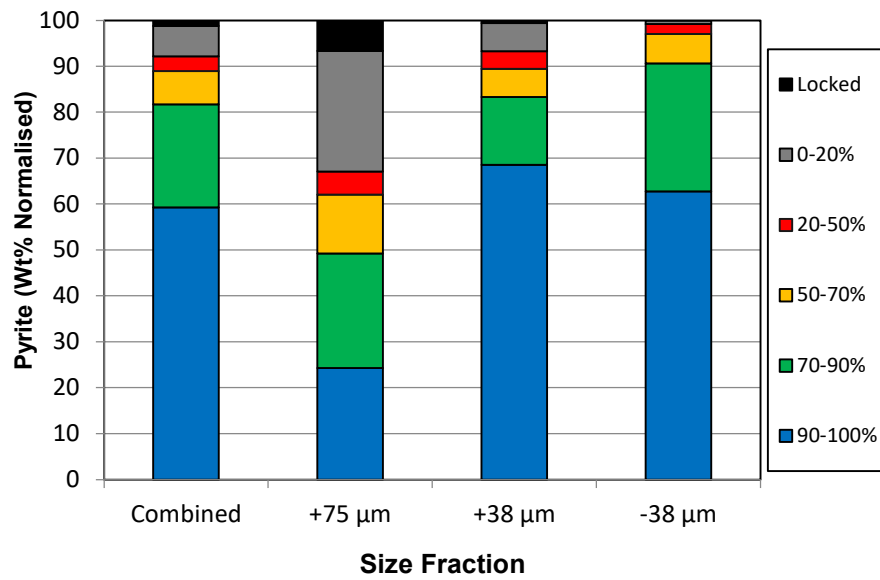


TABLE 3F  
EXPOSURE OF PYRITE  
BL1592 Comp 3 (LV) - 92 µm K80

Exposure	Pyrite Exposure by Size			
	Combined	+75 µm	+38 µm	-38 µm
90-100%	59.3	24.3	68.5	62.7
70-90%	22.4	24.9	14.7	27.9
50-70%	7.25	12.8	6.10	6.41
20-50%	3.20	4.98	3.86	2.10
0-20%	6.63	26.3	6.12	0.84
Locked	1.24	6.69	0.63	0.02
Total	100	100	100	100



**TABLE 3G**  
**ASSAY RECONCILIATION**  
 BL1592 Comp 3 (LV) - 92 µm K80

Element	Al		Ca		Fe		K		Mg	
Size	QEM	Assay	QEM	Assay	QEM	Assay	QEM	Assay	QEM	Assay
+75 µm	1.28	1.43	2.67	2.64	0.52	0.69	1.24	1.15	0.59	0.46
+38 µm	0.99	1.06	4.02	4.02	0.56	0.57	0.94	0.83	0.53	0.43
-38 µm	1.03	1.52	6.56	6.62	0.76	1.52	0.83	1.06	0.67	0.54
Head (Calc)	1.10	1.38	4.75	4.77	0.64	1.04	0.99	1.04	0.61	0.49

Element	Mn		Na		S		Si		Ti	
Size	QEM	Assay	QEM	Assay	QEM	Assay	QEM	Assay	QEM	Assay
+75 µm	0.04	0.07	0.09	0.04	0.03	0.05	40.2	40.1	0.04	0.04
+38 µm	0.05	0.09	0.08	0.03	0.10	0.07	39.1	39.3	0.02	0.02
-38 µm	0.67	0.14	0.07	0.02	0.09	0.07	35.8	34.9	0.04	0.03
Head (Calc)	0.07	0.11	0.08	0.03	0.08	0.06	38.0	37.6	0.04	0.03

### Assay Reconciliation

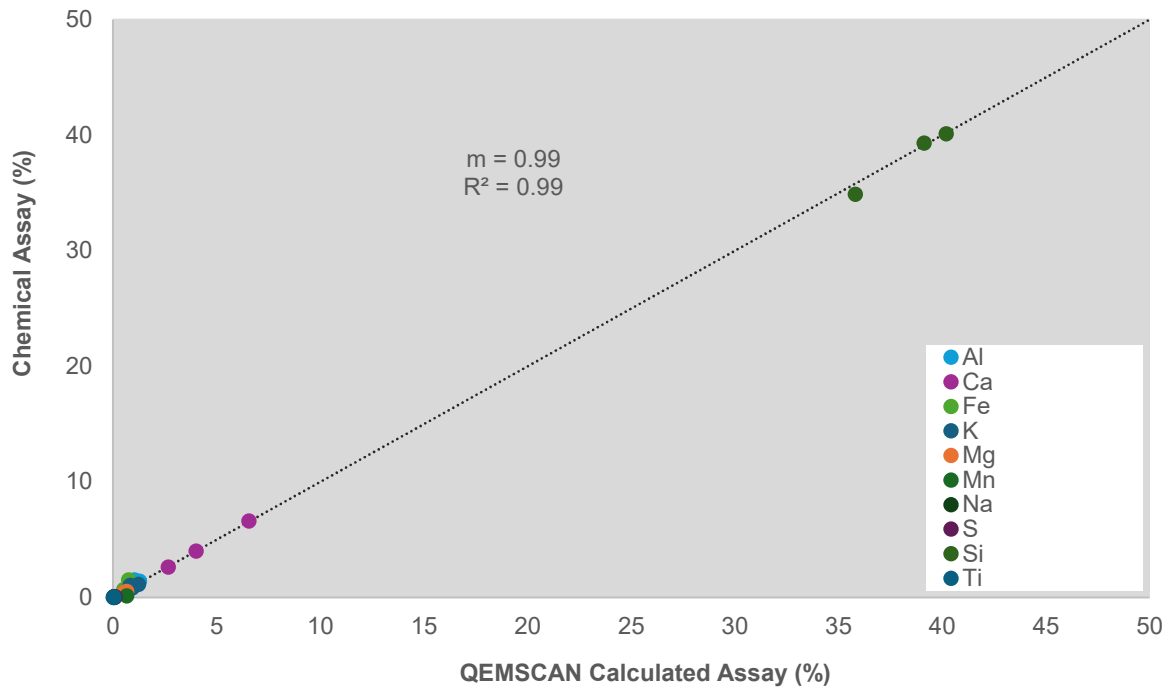


TABLE 4A  
GOLD GRAIN COUNT

Comp 1 - TD	Moz Con	Moz Tail	Total
No. Of Gold Containing Particles	372	54	426

TABLE 4B  
LIBERATION & ASSOCIATION

Comp 1 - TD	Comb	Kn Con	Kn Tail
Pure Gold Minerals	24.3	2.07	22.3
Free Gold Minerals	2.91	2.91	0.00
Lib Gold Minerals	1.87	1.87	0.00
Gold:Silver Minerals	11.7	0.36	11.4
Gold:Pyrite	26.2	8.80	17.4
Gold:Other Sul	0.19	0.19	0.00
Gold:Silicates	1.86	0.00	1.86
Gold:Carbonates	0.00	0.00	0.00
Gold:Fe Oxides	0.00	0.00	0.00
Gold:Others	0.00	0.00	0.00
Complex	30.9	7.23	23.6
<b>Total</b>	<b>100.0</b>	<b>23.4</b>	<b>76.6</b>

Comp 1 - TD : Liberation & Association	Comb	Kn Con	Kn Tail
Total Liberated	29.1	6.86	22.3
Total Associated with Other Phases	70.9	16.6	54.3
<b>Total</b>	<b>100.0</b>	<b>23.4</b>	<b>76.6</b>

TABLE 4C  
EXPOSURE

<b>Comp 1 - TD</b>	<b>Comb</b>	<b>Kn Con</b>	<b>Kn Tail</b>
<b>Exposed</b>	36.2	6.61	29.6
<b>50-80% Exposed</b>	3.49	1.96	1.54
<b>30-50% Exposed</b>	3.39	0.93	2.46
<b>20-30% Exposed</b>	6.34	1.34	5.00
<b>10-20% Exposed</b>	9.50	0.89	8.61
<b>0-10% Exposed</b>	22.7	5.54	17.2
<b>Locked</b>	18.3	6.18	12.2
<b>Total</b>	<b>100.0</b>	<b>23.4</b>	<b>76.6</b>

TABLE 4D  
GRAIN SIZE

<b>Comp 1 - TD</b>	<b>Comb</b>	<b>Kn Con</b>	<b>Kn Tail</b>
<b>100-150 um</b>	0.00	0.00	0.00
<b>53-100 um</b>	0.00	0.00	0.00
<b>38-53 um</b>	2.69	2.69	0.00
<b>25-38 um</b>	5.05	5.05	0.00
<b>10-25 um</b>	51.4	11.4	40.0
<b>5-10 um</b>	35.2	3.66	31.6
<b>2-5 um</b>	5.65	0.67	4.99
<b>0-2 um</b>	0.00	0.00	0.00
<b>Total</b>	<b>100.0</b>	<b>23.4</b>	<b>76.6</b>

TABLE 4E  
ASSOCIATION BY SIZE

Minerals Association (Liberation) by Size	Size (µm)								
	<20 um	>20	>25	>37	>44	>53	>63	>75	>90
Pure Gold Minerals	8.42	14.9	0.30	0.76	0.00	0.00	0.00	0.00	0.00
Free Gold Minerals	0.71	0.29	0.58	1.34	0.00	0.00	0.00	0.00	0.00
Lib Gold Minerals	0.05	0.80	0.43	0.58	0.00	0.00	0.00	0.00	0.00
Gold:Silver Minerals	11.7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gold:Pyrite	23.3	1.80	1.13	0.00	0.00	0.00	0.00	0.00	0.00
Gold:Other Sul	0.00	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.00
Gold:Silicates	1.86	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gold:Carbonates	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gold:Fe Oxides	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gold:Others	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Complex	28.4	0.08	1.96	0.46	0.00	0.00	0.00	0.00	0.00
<b>Total</b>	<b>74.4</b>	<b>17.8</b>	<b>4.59</b>	<b>3.15</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>

Minerals Association (Liberation) by Size	Size (µm)							
	>106	>125	>150	>180	>212	>300	>350	Total
Pure Gold Minerals	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24.3
Free Gold Minerals	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.91
Lib Gold Minerals	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.87
Gold:Silver Minerals	0.00	0.00	0.00	0.00	0.00	0.00	0.00	11.7
Gold:Pyrite	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26.2
Gold:Other Sul	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.19
Gold:Silicates	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.86
Gold:Carbonates	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gold:Fe Oxides	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gold:Others	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Complex	0.00	0.00	0.00	0.00	0.00	0.00	0.00	30.9
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>100.0</b>

TABLE 4F  
ASSOCIATION BY DENSITY

Mineral Association	Density							Total
	>= 12	>= 5	>= 4	>= 3.5	>= 3	>= 2.9	<=2.9	
Pure Gold Minerals	24.3	0.00	0.00	0.00	0.00	0.00	0.00	24.3
Free Gold Minerals	2.91	0.00	0.00	0.00	0.00	0.00	0.00	2.91
Lib Gold Minerals	1.87	0.00	0.00	0.00	0.00	0.00	0.00	1.87
Gold:Silver Minerals	11.1	0.66	0.00	0.00	0.00	0.00	0.00	11.7
Gold:Pyrite	1.42	24.8	0.05	0.00	0.00	0.00	0.00	26.2
Gold:Other Sul	0.00	0.19	0.00	0.00	0.00	0.00	0.00	0.19
Gold:Silicates	0.00	0.00	0.00	0.00	0.38	0.00	1.47	1.86
Gold:Carbonates	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gold:Fe Oxides	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gold:Others	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Complex	0.67	27.7	2.29	0.00	0.16	0.00	0.08	30.9
<b>Total</b>	<b>42.3</b>	<b>53.3</b>	<b>2.34</b>	<b>0.00</b>	<b>0.54</b>	<b>0.00</b>	<b>1.56</b>	<b>100.0</b>

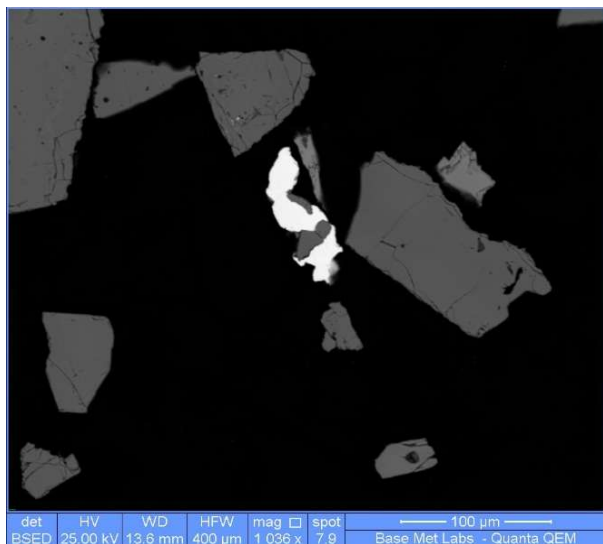
TABLE 4G  
 GOLD GRAIN SPECTRA - SEMI-QUANTITATIVE  
 BL1546 Comp 1 (TD)

Particle/Spectra	Gold Bearing Mineral	Element Mass %						
		Ag	Au	Fe	S	Cu	Al	Total
Mozley Con 1	Electrum	32.3	66.8	0.2	0.7	-	-	100.0
Mozley Con 2	Electrum	34.1	64.9	0.2	0.9	-	-	100.0
Mozley Con 3	Electrum	29.9	69.1	0.2	0.8	-	-	100.0
Mozley Con 4	Electrum	28.1	71.3	0.6	-	-	-	100.0
Mozley Con 5	Electrum	41.2	43.0	6.2	6.9	2.6	-	100.0
Mozley Con 6	Kustelite	75.1	19.6	1.6	1.9	1.8	-	100.0
Mozley Con 7	Electrum	41.2	58.3	0.4	-	-	-	100.0
Mozley Con 8	Electrum	33.3	66.7	-	-	-	-	100.0
Mozley Con 9	Electrum	32.2	67.0	0.7	-	-	-	100.0
Mozley Con 10	Electrum	32.9	64.5	2.6	-	-	-	100.0
Mozley Con 11	Electrum	34.0	63.1	2.8	-	-	-	100.0
Spectra 1	Electrum	34.0	66.0	-	-	-	-	100.0
Spectra 2	Electrum	46.2	51.8	1.1	0.9	-	-	100.0
Spectra 3	Electrum	25.2	54.8	9.3	10.7	-	-	100.0
Spectra 4	Kustelite (?)	53.5	35.8	4.6	4.9	0.3	0.9	100.0
Spectra 5	Electrum	26.7	70.7	1.6	0.9	-	-	100.0
Spectra 6	Electrum	31.1	68.9	-	-	-	-	100.0
Spectra 7	Electrum	30.8	69.1	0.1	-	-	-	100.0
Spectra 8	Electrum	34.0	63.1	2.8	-	-	-	100.0
Spectra 9	Electrum	34.6	64.4	1.0	-	-	-	100.0
Spectra 10	Electrum	33.0	66.8	0.2	-	-	-	100.0
Spectra 11	Electrum	33.6	66.4	-	-	-	-	100.0

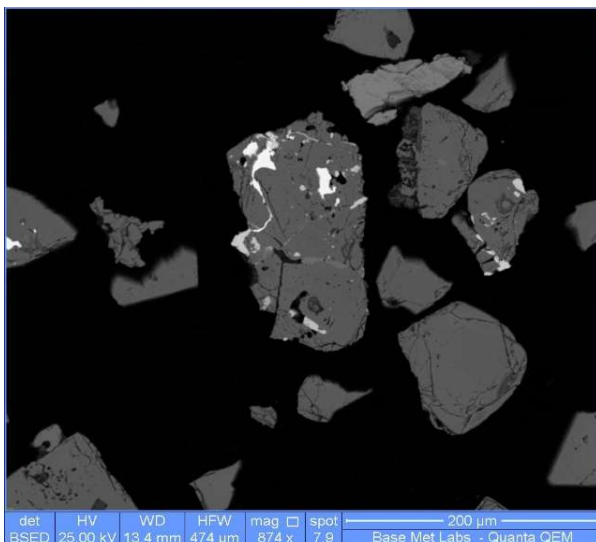
*\*Note: mixed spectra with gold minerals and sulphides.*

FIGURE 1A  
 GOLD GRAIN SEM-BSE IMAGES  
 BL1546\_Comp\_1 (TD)

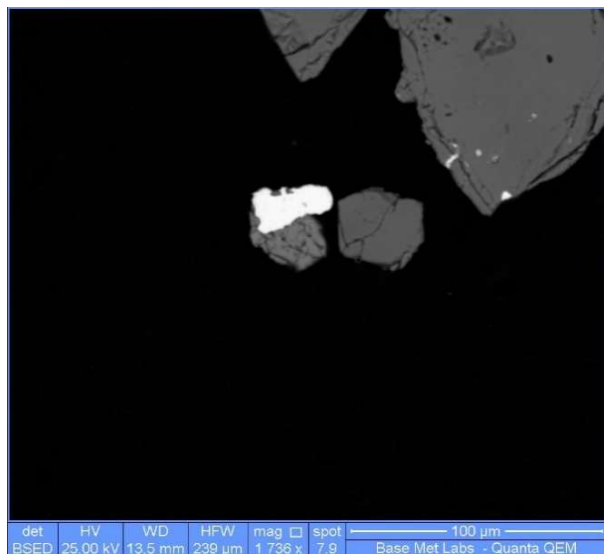
Mozley Concentrate 1



Mozley Concentrate 2



Mozley Concentrate 3



Mozley Concentrate 4

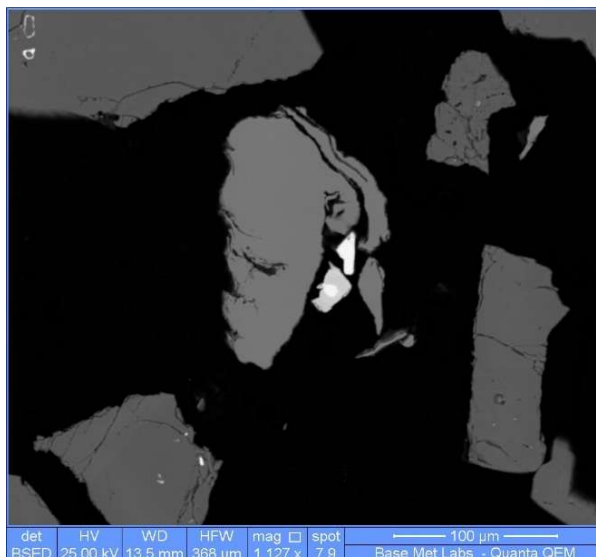
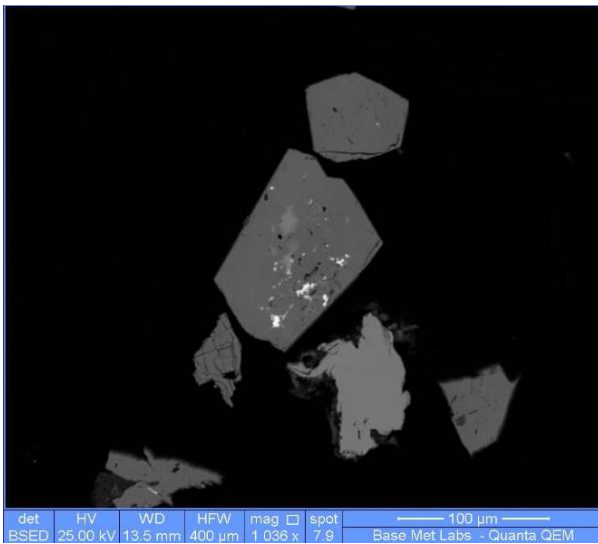
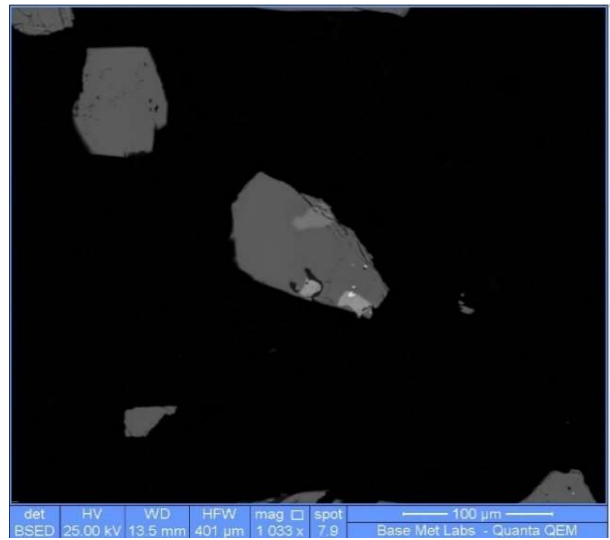


FIGURE 1A (continued)  
GOLD GRAIN SEM-BSE IMAGES  
BL1546 Comp 1 (TD)

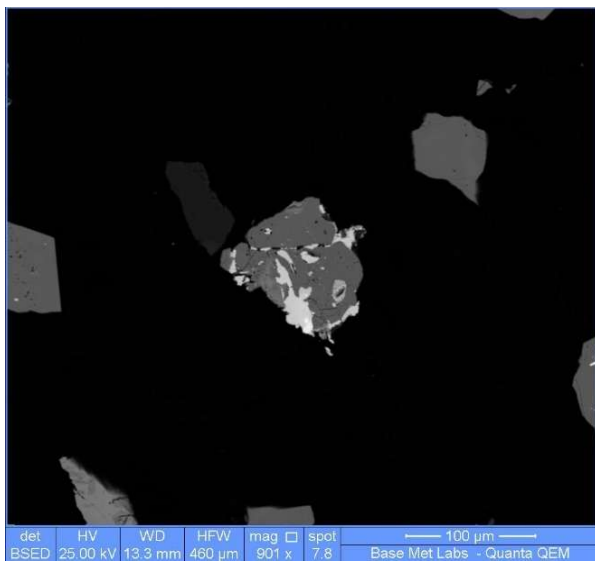
Mozley Concentrate 5



Mozley Concentrate 6



Mozley Concentrate 7



Mozley Concentrate 8

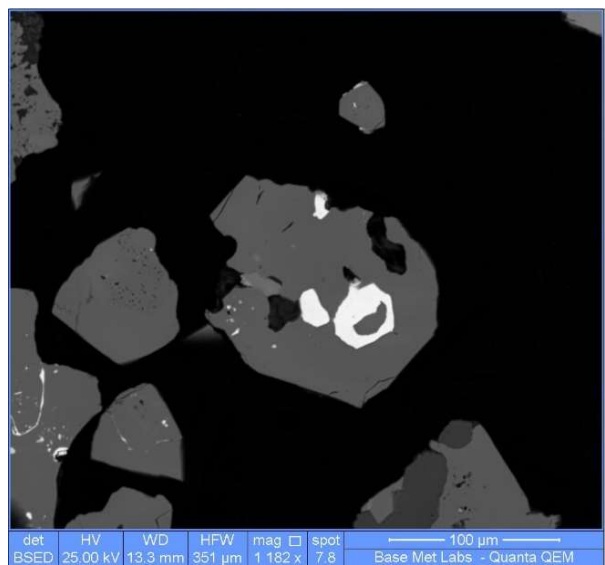
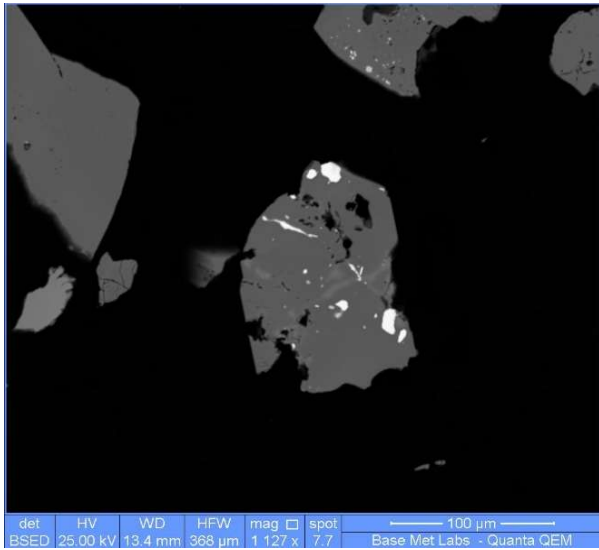
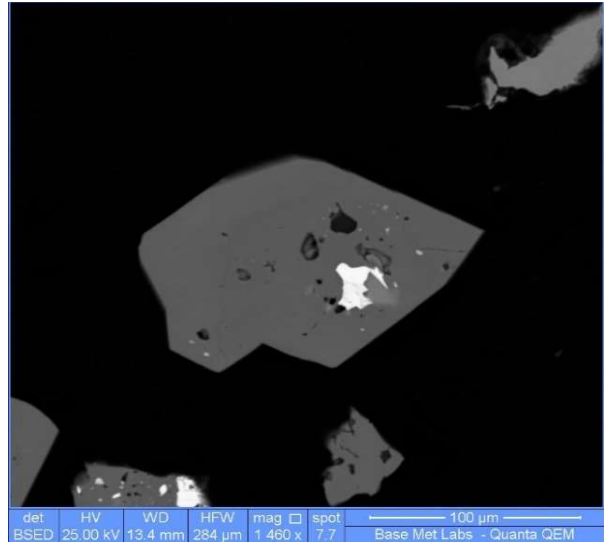


FIGURE 1A (continued)  
GOLD GRAIN SEM-BSE IMAGES  
BL1546 Comp 1 (TD)

Mozley Concentrate 9



Mozley Concentrate 10



Mozley Concentrate 11

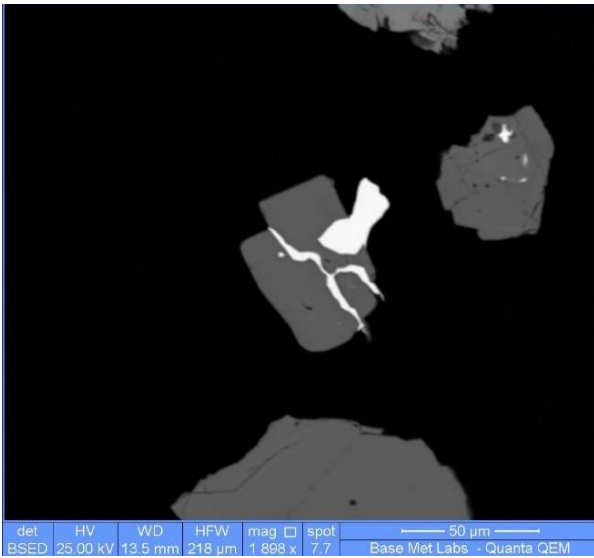


TABLE 4G  
GOLD BALANCE AND DISTRIBUTION

Comp	Test	Head Grade Au (g/t)	Mass Distribution (g)			Total (g)
			Moz Conc	Moz Tl	KNTL	
Comp 1 (TD)	4	2.89	1.37	65.10	3940.0	4006.5

Comp	Test	Head Grade Au (g/t)	Au Assay, g/t			Au Distribution (%)		
			Moz Conc	Moz Tl	KNTL	Moz Conc	Moz Tl	KNTL
Comp 1 (TD)	4	2.89	<b>450</b>	31.02	2.27	5.3	17.4	77.2

Renormalised to Moz Products		
Moz Conc	Moz Tl	Total
23.4	76.6	100.0

TABLE 5A  
GOLD GRAIN COUNT

Comp 2 - JMV	Moz Con	Moz Tail	Total
No. Of Gold Containing Particles	439	46	485

TABLE 5B  
LIBERATION & ASSOCIATION

Comp 2 - JMV	Comb	Kn Con	Kn Tail
Pure Gold Minerals	9.59	3.77	5.82
Free Gold Minerals	10.0	10.0	0.00
Lib Gold Minerals	1.52	0.53	0.99
Gold:Silver Minerals	25.5	0.98	24.5
Gold:Pyrite	20.3	7.96	12.3
Gold:Other Sul	0.82	0.00	0.81
Gold:Silicates	8.99	0.23	8.76
Gold:Carbonates	2.59	0.00	2.59
Gold:Fe Oxides	0.00	0.00	0.00
Gold:Others	0.00	0.00	0.00
Complex	20.7	7.36	13.4
<b>Total</b>	<b>100.0</b>	<b>30.9</b>	<b>69.1</b>

Comp 2 - JMV : Liberation & Association	Comb	Kn Con	Kn Tail
Total Liberated	21.1	14.3	6.81
Total Associated with Other Phases	78.9	16.5	62.3
<b>Total</b>	<b>100.0</b>	<b>30.9</b>	<b>69.1</b>

TABLE 5C  
EXPOSURE

Comp 2 - JMV	Comb	Kn Con	Kn Tail
Exposed	21.3	14.5	6.81
50-80% Exposed	0.63	0.63	0.00
30-50% Exposed	2.55	1.93	0.62
20-30% Exposed	10.9	2.16	8.77
10-20% Exposed	28.7	1.59	27.2
0-10% Exposed	21.9	5.78	16.1
Locked	13.9	4.25	9.69
<b>Total</b>	<b>100.0</b>	<b>30.9</b>	<b>69.1</b>

TABLE 5D  
GRAIN SIZE

Comp 2 - JMV	Comb	Kn Con	Kn Tail
100-150 um	0.00	0.00	0.00
53-100 um	5.40	5.40	0.00
38-53 um	7.21	7.21	0.00
25-38 um	3.63	3.63	0.00
10-25 um	44.7	7.24	37.4
5-10 um	30.8	5.84	25.0
2-5 um	8.27	1.53	6.74
0-2 um	0.00	0.00	0.00
<b>Total</b>	<b>100.0</b>	<b>30.9</b>	<b>69.1</b>

TABLE 5E  
ASSOCIATION BY SIZE

Minerals Association (Liberation) by Size	Size (µm)								
	<20 um	>20	>25	>37	>44	>53	>63	>75	>90
Pure Gold Minerals	6.40	0.31	1.50	1.39	0.00	0.00	0.00	0.00	0.00
Free Gold Minerals	0.30	0.23	2.13	0.60	1.36	0.00	5.40	0.00	0.00
Lib Gold Minerals	1.21	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gold:Silver Minerals	6.15	19.3	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gold:Pyrite	16.4	0.00	0.00	1.94	1.92	0.00	0.00	0.00	0.00
Gold:Other Sul	0.82	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gold:Silicates	8.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gold:Carbonates	2.59	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gold:Fe Oxides	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gold:Others	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Complex	20.2	0.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00
<b>Total</b>	<b>63.1</b>	<b>20.7</b>	<b>3.63</b>	<b>3.93</b>	<b>3.28</b>	<b>0.00</b>	<b>5.40</b>	<b>0.00</b>	<b>0.00</b>

Minerals Association (Liberation) by Size	Size (µm)							
	>106	>125	>150	>180	>212	>300	>350	Total
Pure Gold Minerals	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.59
Free Gold Minerals	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.0
Lib Gold Minerals	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.52
Gold:Silver Minerals	0.00	0.00	0.00	0.00	0.00	0.00	0.00	25.5
Gold:Pyrite	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.3
Gold:Other Sul	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.82
Gold:Silicates	0.00	0.00	0.00	0.00	0.00	0.00	0.00	8.99
Gold:Carbonates	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.59
Gold:Fe Oxides	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gold:Others	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Complex	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.7
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>100.0</b>

TABLE 5F  
ASSOCIATION BY DENSITY

Mineral Association	Density							Total
	>= 12	>= 5	>= 4	>= 3.5	>= 3	>= 2.9	<=2.9	
Pure Gold Minerals	9.59	0.00	0.00	0.00	0.00	0.00	0.00	9.59
Free Gold Minerals	10.0	0.00	0.00	0.00	0.00	0.00	0.00	10.0
Lib Gold Minerals	1.52	0.00	0.00	0.00	0.00	0.00	0.00	1.52
Gold:Silver Minerals	0.20	25.3	0.00	0.00	0.00	0.00	0.00	25.5
Gold:Pyrite	0.22	20.0	0.05	0.00	0.00	0.00	0.00	20.3
Gold:Other Sul	0.00	0.81	0.00	0.00	0.00	0.00	0.00	0.82
Gold:Silicates	0.23	0.00	0.00	5.71	0.89	0.00	2.16	8.99
Gold:Carbonates	0.00	0.00	0.00	0.00	2.59	0.00	0.00	2.59
Gold:Fe Oxides	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gold:Others	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Complex	0.18	19.1	1.13	0.36	0.00	0.00	0.00	20.7
<b>Total</b>	<b>22.0</b>	<b>65.2</b>	<b>1.18</b>	<b>6.07</b>	<b>3.48</b>	<b>0.00</b>	<b>2.16</b>	<b>100.0</b>

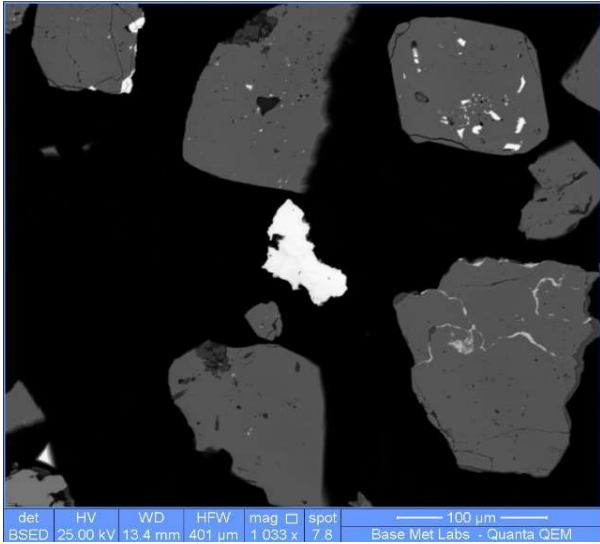
TABLE 5G  
 GOLD GRAIN SPECTRA - SEMI-QUANTITATIVE  
 BL1546 Comp 2 - JMV

Particle/Spectra	Gold Bearing Mineral	Element Mass %						
		Ag	Au	Fe	S	Cu	Zn	Total
Mozley Con 1	Electrum	34.3	65.7	-	-	-	-	100.0
Mozley Con 2	Native Silver	88.6	10.4	1.0	-	-	-	100.0
Mozley Con 3	Electrum	28.5	70.5	1.1	-	-	-	100.0
Mozley Con 4	Electrum	28.2	69.9	0.2	-	0.5	1.3	100.0
Mozley Con 5	Electrum (?)	10.8	38.5	23.8	27.0	-	-	100.0
Mozley Con 6	Electrum	32.0	68.0	-	-	-	-	100.0
Mozley Con 7	Native Gold	24.8	75.2	-	-	-	-	100.0
Mozley Con 8	Electrum	26.9	73.1	-	-	-	-	100.0
Mozley Con 9	Kustelite	61.7	38.0	0.3	-	-	-	100.0
Mozley Con 10	Electrum	36.7	58.2	5.2	-	-	-	100.0
Spectra 1	Electrum (?)	31.7	42.9	11.9	13.6	-	-	100.0
Spectra 2	Electrum	40.0	59.7	0.3	-	-	-	100.0
Spectra 3	Electrum	32.5	62.8	4.7	-	-	-	100.0
Spectra 4	Electrum	31.2	68.3	0.6	-	-	-	100.0
Spectra 5	Native Silver (?)	68.2	11.3	2.0	10.9	7.6	-	100.0
Spectra 6	Electrum	28.2	71.4	0.5	-	-	-	100.0
Spectra 7	Electrum	25.5	73.8	0.8	-	-	-	100.0
Spectra 8	Electrum	28.3	70.6	1.1	-	-	-	100.0
Spectra 9	Electrum	22.2	65.6	6.0	6.2	-	-	100.0
Spectra 10	Electrum	29.5	68.2	2.3	-	-	-	100.0

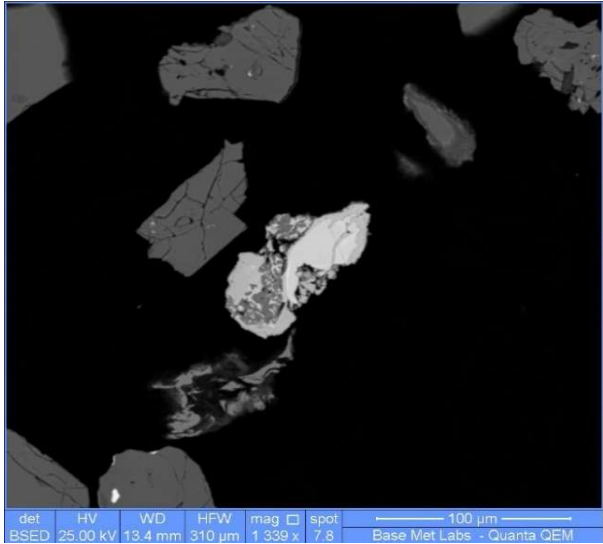
*\*Note: mixed spectra with gold minerals and sulphides.*

FIGURE 1A  
 GOLD GRAIN SEM-BSE IMAGES  
 BL1546 Comp 2 (JMV)

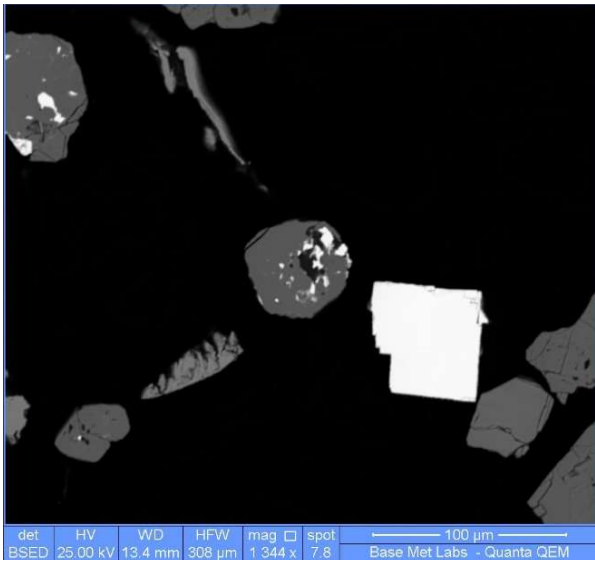
Mozley Concentrate 1



Mozley Concentrate 2



Mozley Concentrate 3



Mozley Concentrate 4

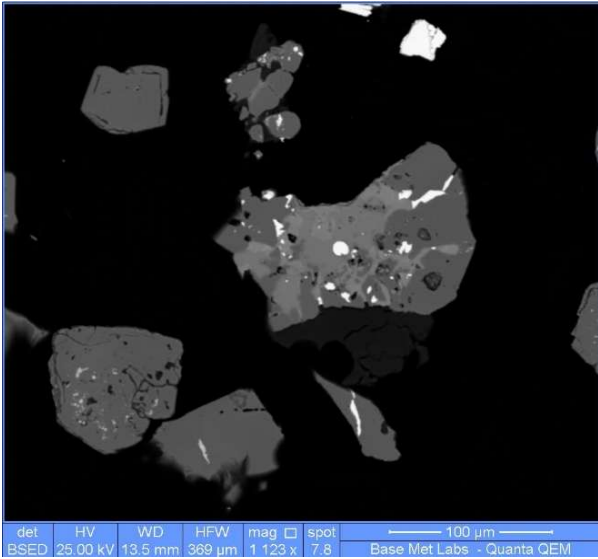
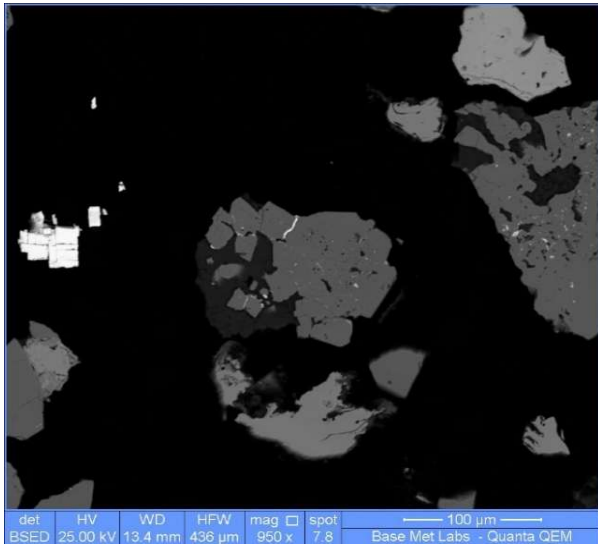
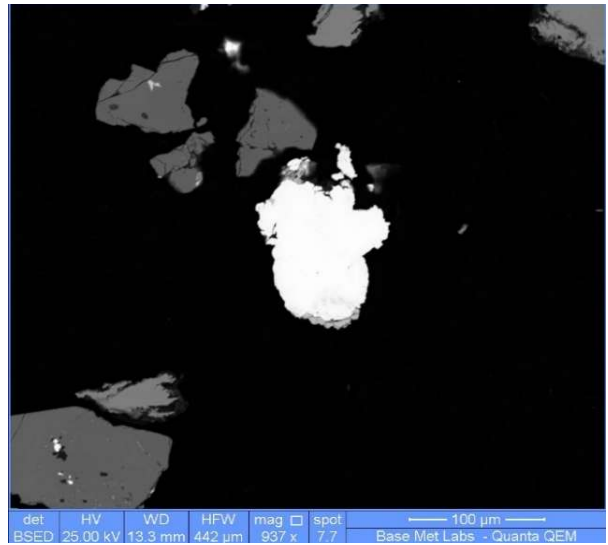


FIGURE 1A (continued)  
GOLD GRAIN SEM-BSE IMAGES  
BL1546\_Comp 2 (JMV)

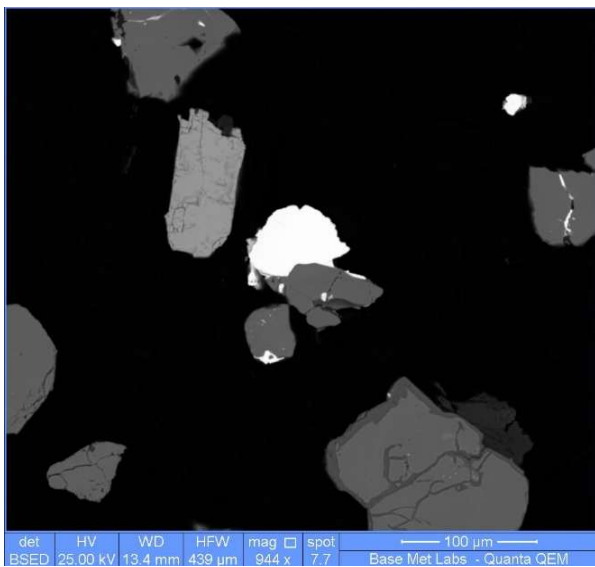
Mozley Concentrate 5



Mozley Concentrate 6



Mozley Concentrate 7



Mozley Concentrate 8

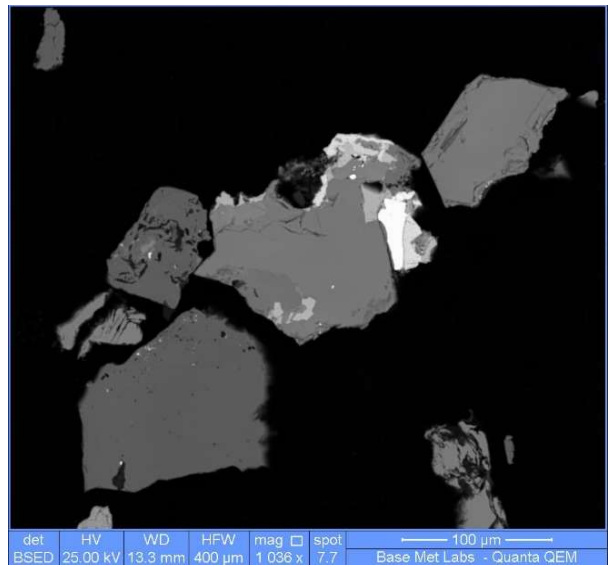
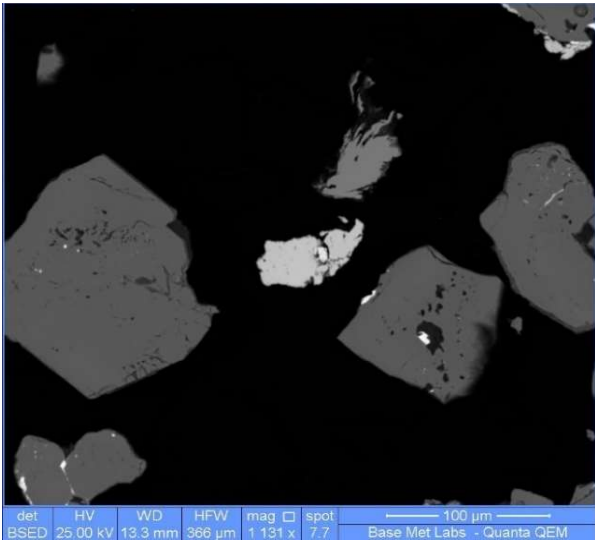


FIGURE 1A (continued)  
GOLD GRAIN SEM-BSE IMAGES  
BL1546\_Comp 2 (JMV)

Mozley Concentrate 9



Mozley Concentrate 10

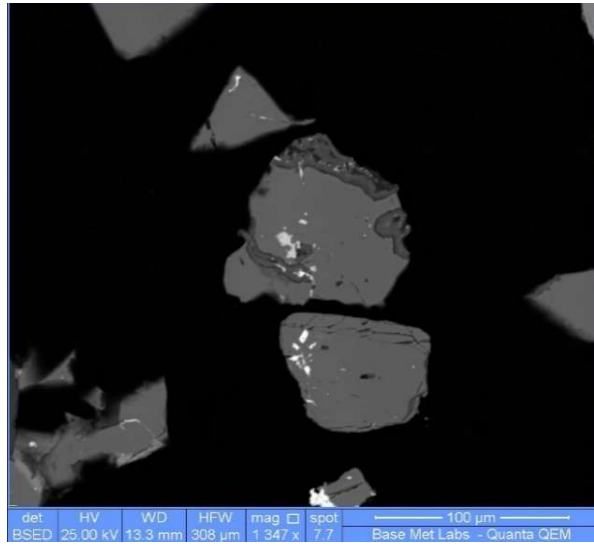


TABLE 5G  
GOLD BALANCE AND DISTRIBUTION

Comp	Test	Head Grade Au (g/t)	Mass Distribution (g)			Total (g)
			Moz Conc	Moz Tl	KNTL	
Comp 2 (JMV)	5	4.85	1.53	67.60	3939.4	4008.5

Comp	Test	Head Grade Au (g/t)	Au Assay, g/t			Au Distribution (%)		
			Moz Conc	Moz Tl	KNTL	Moz Conc	Moz Tl	KNTL
Comp 2 (JMV)	5	4.85	<u>675</u>	34.15	4.09	5.3	11.9	82.8

Renormalised to Moz Products		
Moz Conc	Moz Tl	Total
30.9	69.1	100.0

TABLE 6A  
GOLD GRAIN COUNT

Comp 3 - LV	Moz Con	Moz Tail	Total
No. Of Gold Containing Particles	676	54	730

TABLE 6B  
LIBERATION & ASSOCIATION

Comp 3 - LV	Comb	Kn Con	Kn Tail
Pure Gold Minerals	29.9	16.2	13.8
Free Gold Minerals	20.0	17.8	2.24
Lib Gold Minerals	10.9	9.21	1.69
Gold:Silver Minerals	5.65	2.01	3.64
Gold:Pyrite	9.48	8.16	1.32
Gold:Other Sul	0.00	0.00	0.00
Gold:Silicates	0.92	0.00	0.92
Gold:Carbonates	0.00	0.00	0.00
Gold:Fe Oxides	0.00	0.00	0.00
Gold:Others	0.00	0.00	0.00
Complex	23.1	20.0	3.15
<b>Total</b>	<b>100.0</b>	<b>73.3</b>	<b>26.7</b>

Comp 3 - LV : Liberation & Association	Comb	Kn Con	Kn Tail
Total Liberated	60.8	43.1	17.7
Total Associated with Other Phases	39.2	30.1	9.03
<b>Total</b>	<b>100.0</b>	<b>73.3</b>	<b>26.7</b>

TABLE 6C  
EXPOSURE

<b>Comp 3 - LV</b>	<b>Comb</b>	<b>Kn Con</b>	<b>Kn Tail</b>
<b>Exposed</b>	51.4	34.9	16.5
<b>50-80% Exposed</b>	14.5	13.2	1.23
<b>30-50% Exposed</b>	2.45	2.45	0.00
<b>20-30% Exposed</b>	5.08	2.36	2.73
<b>10-20% Exposed</b>	6.06	5.29	0.77
<b>0-10% Exposed</b>	12.1	9.14	2.95
<b>Locked</b>	8.49	5.91	2.58
<b>Total</b>	<b>100.0</b>	<b>73.3</b>	<b>26.7</b>

TABLE 6D  
GRAIN SIZE

<b>Comp 3 - LV</b>	<b>Comb</b>	<b>Kn Con</b>	<b>Kn Tail</b>
<b>100-150 um</b>	0.00	0.00	0.00
<b>53-100 um</b>	30.0	30.0	0.00
<b>38-53 um</b>	7.68	7.68	0.00
<b>25-38 um</b>	9.35	9.35	0.00
<b>10-25 um</b>	31.9	14.6	17.2
<b>5-10 um</b>	17.8	9.11	8.65
<b>2-5 um</b>	3.32	2.48	0.83
<b>0-2 um</b>	0.00	0.00	0.00
<b>Total</b>	<b>100.0</b>	<b>73.3</b>	<b>26.7</b>

TABLE 6E  
ASSOCIATION BY SIZE

Minerals Association (Liberation) by Size	Size (µm)								
	<20 um	>20	>25	>37	>44	>53	>63	>75	>90
Pure Gold Minerals	15.4	1.10	4.98	1.38	0.72	6.34	0.00	0.00	0.00
Free Gold Minerals	3.04	0.41	2.64	0.46	3.19	2.26	0.00	8.00	0.00
Lib Gold Minerals	1.87	0.34	0.78	0.00	0.00	0.00	0.00	7.91	0.00
Gold:Silver Minerals	5.21	0.45	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gold:Pyrite	5.43	0.51	0.45	0.00	0.00	3.10	0.00	0.00	0.00
Gold:Other Sul	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gold:Silicates	0.92	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gold:Carbonates	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gold:Fe Oxides	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gold:Others	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Complex	16.3	1.97	0.51	1.94	0.00	2.43	0.00	0.00	0.00
<b>Total</b>	<b>48.2</b>	<b>4.77</b>	<b>9.35</b>	<b>3.78</b>	<b>3.90</b>	<b>14.1</b>	<b>0.00</b>	<b>15.9</b>	<b>0.00</b>

Minerals Association (Liberation) by Size	Size (µm)							
	>106	>125	>150	>180	>212	>300	>350	Total
Pure Gold Minerals	0.00	0.00	0.00	0.00	0.00	0.00	0.00	29.9
Free Gold Minerals	0.00	0.00	0.00	0.00	0.00	0.00	0.00	20.0
Lib Gold Minerals	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.9
Gold:Silver Minerals	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.65
Gold:Pyrite	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.48
Gold:Other Sul	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gold:Silicates	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.92
Gold:Carbonates	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gold:Fe Oxides	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gold:Others	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Complex	0.00	0.00	0.00	0.00	0.00	0.00	0.00	23.1
<b>Total</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>0.00</b>	<b>100.0</b>

TABLE 6F  
ASSOCIATION BY DENSITY

Mineral Association	Density							Total
	>= 12	>= 5	>= 4	>= 3.5	>= 3	>= 2.9	<=2.9	
Pure Gold Minerals	29.9	0.00	0.00	0.00	0.00	0.00	0.00	29.9
Free Gold Minerals	20.0	0.00	0.00	0.00	0.00	0.00	0.00	20.0
Lib Gold Minerals	10.9	0.00	0.00	0.00	0.00	0.00	0.00	10.9
Gold:Silver Minerals	0.74	4.91	0.00	0.00	0.00	0.00	0.00	5.65
Gold:Pyrite	3.55	5.93	0.00	0.00	0.00	0.00	0.00	9.48
Gold:Other Sul	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gold:Silicates	0.00	0.00	0.00	0.00	0.38	0.00	0.54	0.92
Gold:Carbonates	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gold:Fe Oxides	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Gold:Others	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Complex	1.69	20.3	1.10	0.02	0.00	0.00	0.00	23.1
<b>Total</b>	<b>66.8</b>	<b>31.1</b>	<b>1.11</b>	<b>0.02</b>	<b>0.38</b>	<b>0.00</b>	<b>0.54</b>	<b>100.0</b>

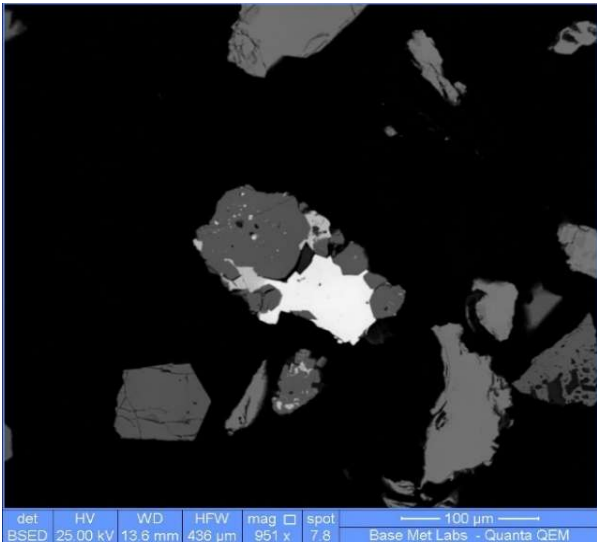
TABLE 6G  
 GOLD GRAIN SPECTRA - SEMI-QUANTITATIVE  
 BL1546 Comp 3 - LV

Particle	Gold Bearing Mineral	Element Mass %							
		Au	Ag	Fe	S	Cu	Zn	Se	Total
Mozley Con 1	Electrum	27.1	72.9	-	-	-	-	-	100.0
Mozley Con 2	Electrum	32.7	67.3	-	-	-	-	-	100.0
Mozley Con 3	Electrum	33.5	66.2	0.3	-	-	-	-	100.0
Mozley Con 4	Electrum	33.1	52.9	1.8	4.3	-	8.0	-	100.0
Mozley Con 5	Electrum	34.1	65.1	0.8	-	-	-	-	100.0
Mozley Con 6	Electrum	34.6	65.4	-	-	-	-	-	100.0
Mozley Con 7	Electrum	32.0	66.0	0.1	-	-	2.0	-	100.0
Mozley Con 8	Electrum	34.4	65.0	0.6	-	-	-	-	100.0
Mozley Con 9	Electrum	32.8	50.5	8.2	8.5	-	-	-	100.0
Mozley Con 10	Kustelite	51.4	31.0	2.6	6.8	1.9	-	6.4	100.0
Mozley Con 11	Electrum	33.1	63.7	2.9	-	0.2	-	-	100.0
Spectra 1	Native Gold	23.6	76.0	0.4	-	-	-	-	100.0
Spectra 2	Electrum	41.2	56.6	2.2	-	-	-	-	100.0
Spectra 3	Kustelite	51.9	48.1	-	-	-	-	-	100.0
Spectra 4	Kustelite	60.1	33.4	3.4	2.9	0.2	-	-	100.0
Spectra 5	Electrum	36.5	62.4	0.5	0.7	-	-	-	100.0
Spectra 6	Electrum	37.9	62.1	-	-	-	-	-	100.0
Spectra 7	Electrum	34.4	65.0	0.6	-	-	-	-	100.0
Spectra 8	Electrum	35.8	63.2	0.9	-	-	-	-	100.0
Spectra 9	Kustelite	48.2	49.0	2.8	-	-	-	-	100.0
Spectra 10	Native Gold	24.9	75.1	-	-	-	-	-	100.0

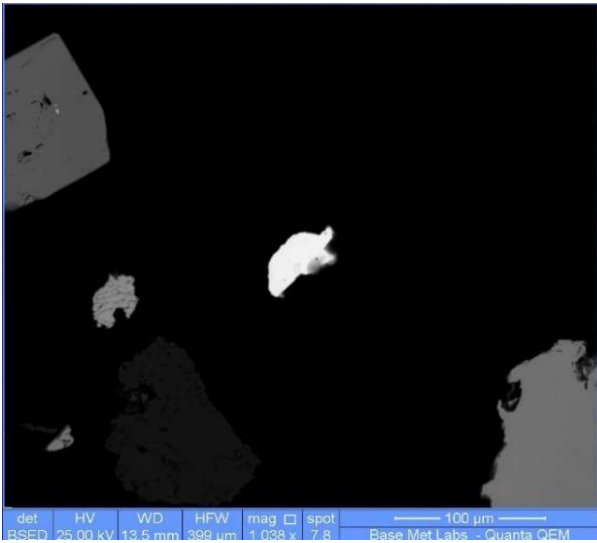
*\*Note: mixed spectra with gold minerals and sulphides*

FIGURE 1A  
GOLD GRAIN SEM-BSE IMAGES  
BL1546\_Comp 3 (LV)

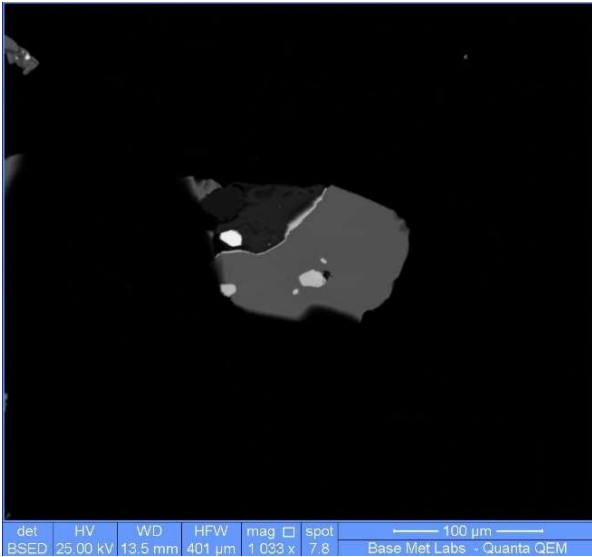
Mozley Concentrate 1



Mozley Concentrate 2



Mozley Concentrate 3



Mozley Concentrate 4

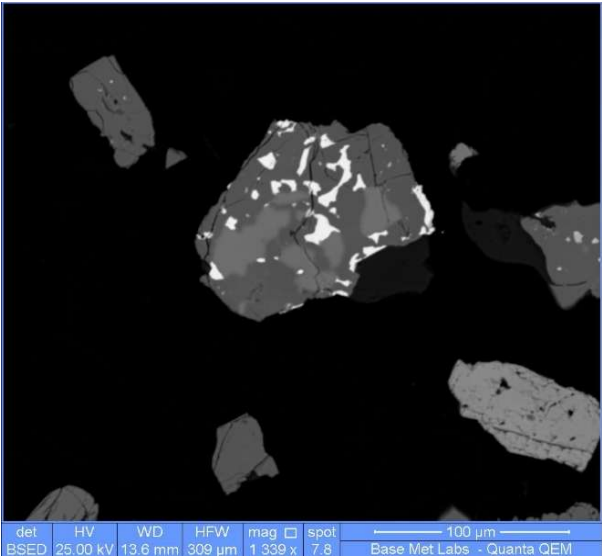
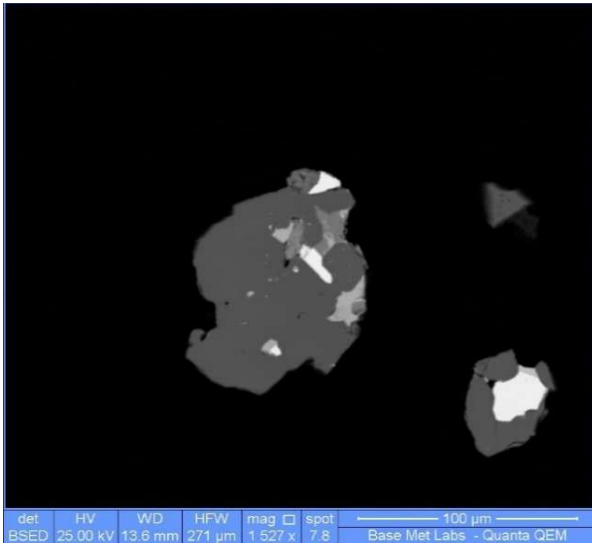
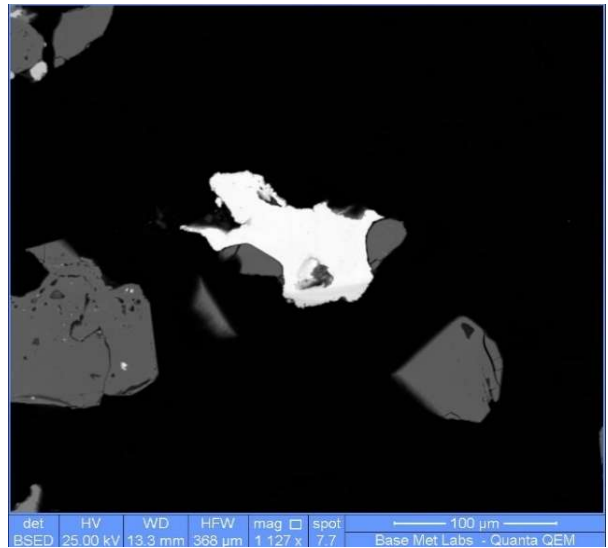


FIGURE 1A (continued)  
GOLD GRAIN SEM-BSE IMAGES  
BL1546 Comp.3 (LV)

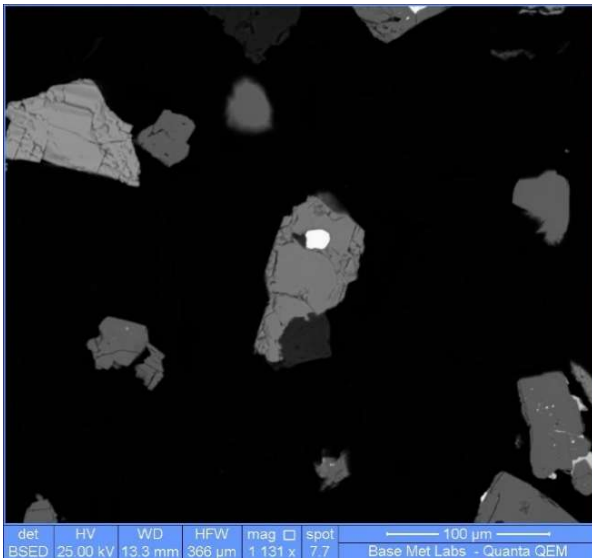
Mozley Concentrate 5



Mozley Concentrate 6



Mozley Concentrate 7



Mozley Concentrate 8

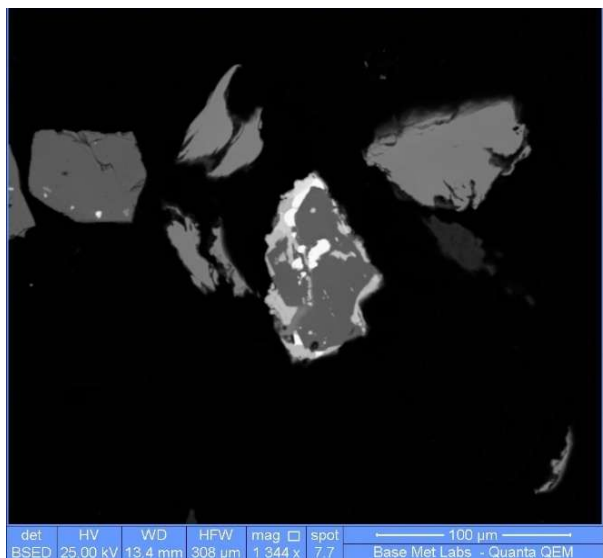
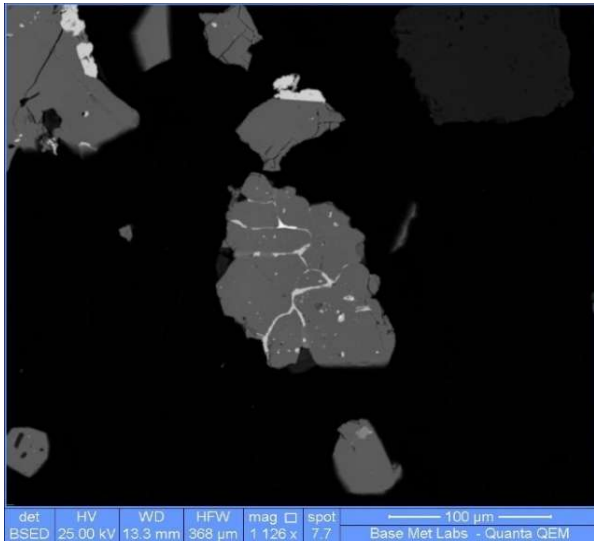
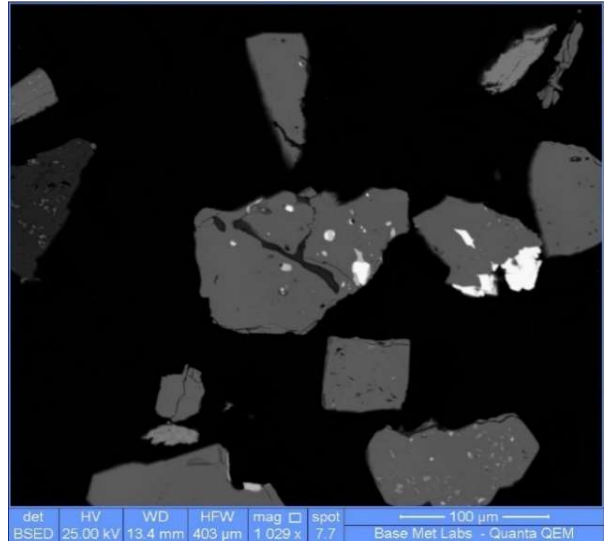


FIGURE 1A (continued)  
GOLD GRAIN SEM-BSE IMAGES  
BL1546 Comp 3 (LV)

Mozley Concentrate 9



Mozley Concentrate 10



Mozley Concentrate 11

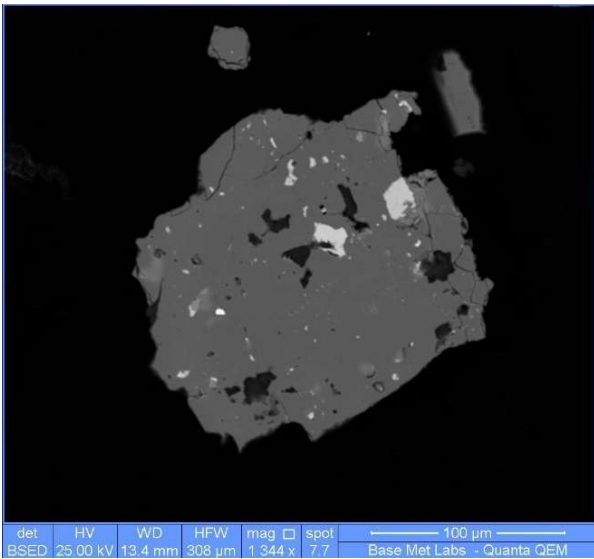


TABLE 6G  
GOLD BALANCE AND DISTRIBUTION

Comp	Test	Head Grade Au (g/t)	Mass Distribution (g)			Total (g)
			Moz Conc	Moz Tl	KNTL	
Comp 3 (LV)	6	4.75	1.57	54.60	3940.0	3996.2

Comp	Test	Head Grade Au (g/t)	Au Assay, g/t			Au Distribution (%)		
			Moz Conc	Moz Tl	KNTL	Moz Conc	Moz Tl	KNTL
Comp 3 (LV)	6	4.75	<u>4125</u>	43.14	2.58	34.0	12.4	53.6

Renormalised to Moz Products		
Moz Conc	Moz Tl	Total
73.3	26.7	100