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SLRT001: Lefroy Resources - Metallurgical Testwork Report

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1. Executive Summary

Gold Assays Methods

The results, as presented in Table 1, tend to give a higher grade for the larger sample sizes. This is a preliminary observation, which should be tested further. The average of all tests indicated a Au grade of 2.26 ppm.

Table 1 – Summary of Assay Methods

Method	No of repeats	Sample Size, g	Gold Assay, ppm	Standard Deviation, ppm
AR (aqua regia)	4	25	1.73	0.09
FA – (fire assay)	2	40	2.54	1.25
FA – Screened at 150	2	24	1.55	0.05
BLEG – Intensive Leach 1 kg		1000	1.95	
BLEG – Intensive Leach 5 kg		5000	2.61	
GRG Test		23700	2.89	
Tabling Test		20000	2.54	
Average of all tests			2.26	0.51

Other Elements

The ICP test results on the FA-Screened samples were: Ag 0.45 ppm, C 0.159%, As 4310 ppm, and Zn 66.8 ppm.

The tabling results also produced following head assays: Ag 1.1 ppm, As 4400 ppm, Fe 3.1% and S 0.72%.

The GRG test produced a Ag head assay of 1.1 ppm.

Leaching Results

The results are summarised in Table 2 below. The leaching conditions used were: 10% solids, 2% CN constant, 2 g/kg Pb(NO₃)₂ and O₂ addition.

Table 2 – Summary of Leach Tests

Test	P80 µm	Au Recovery, %
1 kg bulk leach	850	39
5 kg bulk leach	850	49

Due to the large amount of arsenic in the concentrates, it is possible that arsenic was leaching and this is known to reduce leaching performance. (Arsenic dissolution wasn't measured). This effect on leaching is normally rectified by adding lime.

Tabling Results

A single pass tabling test at a grind of P80 270 µm, produced a concentrate containing **50.4%** of the Au, into **1.1%** of the mass, at a grade of 119 g/t. Increasing the mass yield to include all table concentrates recovered 71% of the available Au into 19.3% of the mass, at a grade of 9.3 g/t. The Au, S and As recoveries were similar. Sizing analysis of the products indicates that 10% of gold is lost to the coarse fraction within the tails. This indicates that flaky gold is either present in the ore or is produced by the lab rod mill and isn't recoverable by coarse gravity concentrators.

THE GRG test which used a Falcon concentrator produced a similar recovery of **58.4** % of the Au into 1.4 % of the mass. The Ag recovery was just 10.1 % in this test.

2. Introduction

2.1. Purpose

The primary purpose of the testwork was to assess the amenability of gravity separation and cyanide leaching to the sample. A secondary purpose was to assess the calculated head grade of the sample, obtained by differing assay and treatment methods.

2.2. Reference documents

T0323-LefroyResources-FalconLeach.doc

2.3. Definitions and acronyms

These are the definitions and acronyms used in this document.

Term or Acronym	Definition
FA	Fire Assay
AAS	Atomic Absorption Spectrometry
ICP	Inductively Coupled Plasma
AR	Aqua Regia

3. Sample Receipt and Preparation

3.1. Sample Receipt

97 sample bags from Lefroy Resources were received at Gekko Systems' Metallurgical Laboratory on 29/12/2006. Sample material arrived in plastic bags on six pallets. The initial weight of the material supplied was 2295 kg. As received sample numbering and weights are contained in Appendix A.

3.2. Sample Preparation

Samples were placed in a low temperature (50°C) oven for drying and then each individual bag was weighed. A composite was formed by combining 8% of the dry mass of each sample. All subsequent samples were split from the composite for metallurgical testwork. The composite had a weight of 183.5 kg.

4. Metallurgical test work

4.1. Introduction

The flowsheet for the required assays and metallurgical testwork was developed in conjunction with Ivan Hunter, representing Lefroy Resources.

Phase I of the testwork involved analysing the composite by various assay techniques, in order to better understand the nature of gold occurrence and identify the correct method to use for subsequent testing.

The work involved direct assays by:

- Aqua regia
- Standard fire assay
- Screen fire assay

Calculated assays were also obtained by testwork involving:

- Bulk intensive cyanidation at 1kg and 5 kg charges
- Gravity recoverable gold testwork incorporating intensive leaching of the concentrates, on a 25 kg sample
- A bulk gravity test consisting of a single pass tabling test

4.2. Assay Techniques

4.2.1. Aqua Regia Results

Four sub-samples of the composite were sent to Onsite Laboratory for head grade determination using the Au aqua regia method. Results are shown in Table 3.

Table 3 – Aqua Regia Assays

Method	(g)	Au (ppm)
AR	102.2	1.72
AR	128.5	1.66
AR	105.7	1.66
AR	126.8	1.89
	average	1.73

The average gold content was **1.73** ppm with a standard deviation of 0.09 ppm (5.2% of total).

4.2.2. Fire Assay Results

Two duplicate samples of approximately 40g were sent to ALS laboratory – Orange for fire assaying. The samples were also analysed using ICP for the elements: C, Ag, As, S, Sb, Fe, Cu, Bi, Zn, Pb & Hg. The detailed results sheet can be found in the Appendix B. The results are summarised in Table 4 below.

Table 4 – Fire Assay Results

Method	(g)	Au (ppm)
repeat FA	39.74	3.42
	39.37	1.65
	average	2.54

The average gold content was **2.54** ppm with a standard deviation of 1.25 ppm (49% of total).

4.2.3. Screen Fire Assay Results

Two duplicate samples of approximately 25g were screened at 150µm and then fired assayed at ALS Laboratory – Orange. The samples were also analysed using ICP for the elements Ag, As, S, Sb, Fe, Cu, Bi, Zn, Pb & Hg. The detailed results sheet can be found in the Appendix B. The results are summarised in Table 5 below.

Table 5 – Screen Fire Assay Results

Sample	(g)	C, %	As, ppm	Zn, ppm	Ag, ppm	Au (ppm)
Lot 1 +150 µm F.A.	11.53	0.11	2840	46	<0.2	0.84
Lot 1 -150 µm F.A.	12.80	0.22	5860	80	0.7	2.12
Lot 1 wt. avg. Assay	24.33	0.168	4429	63.9	0.46	1.513
Lot 2 +150 µm F.A.	11.04	0.09	2720	62	0.6	0.98
Lot 2 -150 µm F.A.	13.21	0.20	5420	76	0.3	2.10
Lot 2 wt. avg. Assay	24.25	0.150	4190	69.6	0.44	1.590

The average gold content was **1.552** ppm with a standard deviation of 0.054 ppm (3.5% of total).

The average C, As, Zn and Ag were: 0.159%, 4310 ppm, 66.8 ppm and 0.45 ppm respectively.

4.3. Assays by Testwork

4.3.1. Bulk Intensive Cyanidation

Approximately 1 and 5 kg of composite sample was riffle split out, grinded to a P80 of 850 µm and then leached under intensive cyanidation conditions. (48 hours at a constant 2% NaCN, 10% solids, 2 g/kg lead nitrate and bottled oxygen addition). The residue was sampled and sent for fire assay. Samples were taken at regular intervals to determine leach kinetics and reagent usage.

The detailed results sheets for the leaches are located in the Appendix C. The leaching test and head grade determination results are shown in Table 6.

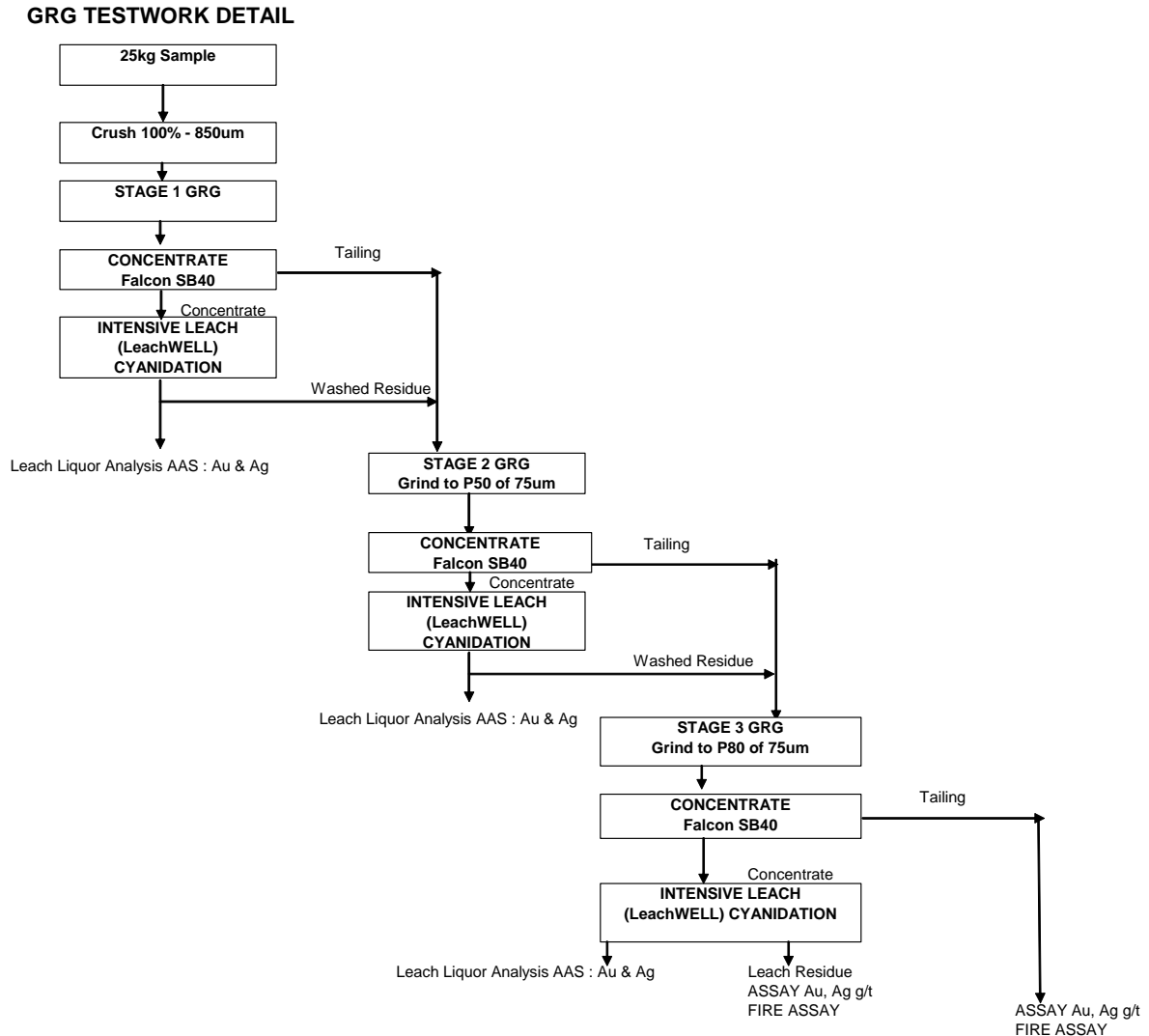
Table 6 – Bulk Leach Tests

Leach Time	1kg Bulk Leach, Au Recovery %	5 kg Bulk Leach, Au Recovery %
2	38.6	20.7
12	38.8	41.7
48	39.6	49.8
Head Grade	1.9	2.6

4.3.2. Gravity Recoverable Gold

23.5 kg of the ore composite was split out and tested using a laboratory scale falcon concentrator. The sample was tested using the flowsheet detailed in Figure 1.

Figure 1 – GRG Testwork Flowsheet



Results, for the GRG test are summarised in Table 7 and Graph 1. The Au and Ag grades were determined to be **2.89 ppm** and **1.1 ppm** respectively. The GRG recoveries were 46.3% Au and 9.6% Ag. These are low figures because they measure the soluble Au/Ag in the concentrates not the actual Au/Ag values present. The leaching performance was poor.

Table 7 – Summary of GRG Testwork

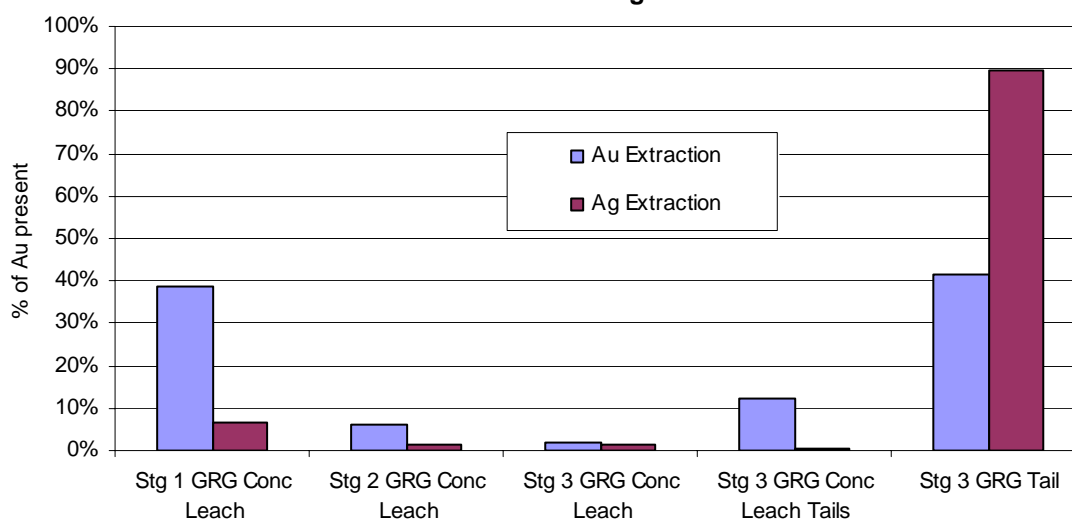
Au GRG Results and Calculated Head	Grind Size	Weight, g	Solid Fire Assay Au, ppm	Soluble Au grade of concentrate leached, ppm	Au (ug) Contained	Cum Au contained, ug	Au Extraction, %
Stg 1 GRG Conc Leach	p80 - 850 µm	168.9		156.4	26414	26414	38.6%
Stg 2 GRG Conc Leach	p50 - 75 µm	82.4		49.7	4095	30509	6.0%
Stg 3 GRG Conc Leach	p80 - 75 µm	85.9		13.3	1143	31652	1.7%
Stg 3 GRG Conc Leach Tails		84.6	98.2		8308	39960	12.1%
Stg 3 GRG Tail		23500	1.21		28435	68395	41.6%
Calculated Head		23700	2.89			68395	100.0%

check weight of tailings from Stage 3 - includes falcon tails + washed residue

Ag GRG Results and Calculated Head	Grind Size	Weight, g	Solid Fire Assay Au, ppm	Soluble Ag grade of concentrate leached, ppm	Ag (ug) Contained	Cum Ag contained, ug	Ag Extraction, %
Stg 1 GRG Conc Leach	p80 - 850 µm	168.9		10.2	1725	26414	6.6%
Stg 2 GRG Conc Leach	p50 - 75 µm	82.4		5.1	424	26838	1.6%
Stg 3 GRG Conc Leach	p80 - 75 µm	85.9		4.2	361	27199	1.4%
Stg 3 GRG Conc Leach Tails		84.6	1.7		144	27343	0.5%
Stg 3 GRG Tail		23500	1		23500	50843	89.9%
Calculated Head		23700	1.10			26154	100.0%

check weight of tailings from Stage 3 - includes falcon tails + washed residue

GRAPH 1 - GRG Test Au/Ag Extractions



4.4. Bulk Gravity (Single Pass Table Test)

Approximately 20kg of composite sample was split out and used for a single pass table test to produce a number of concentrate and tails fractions.

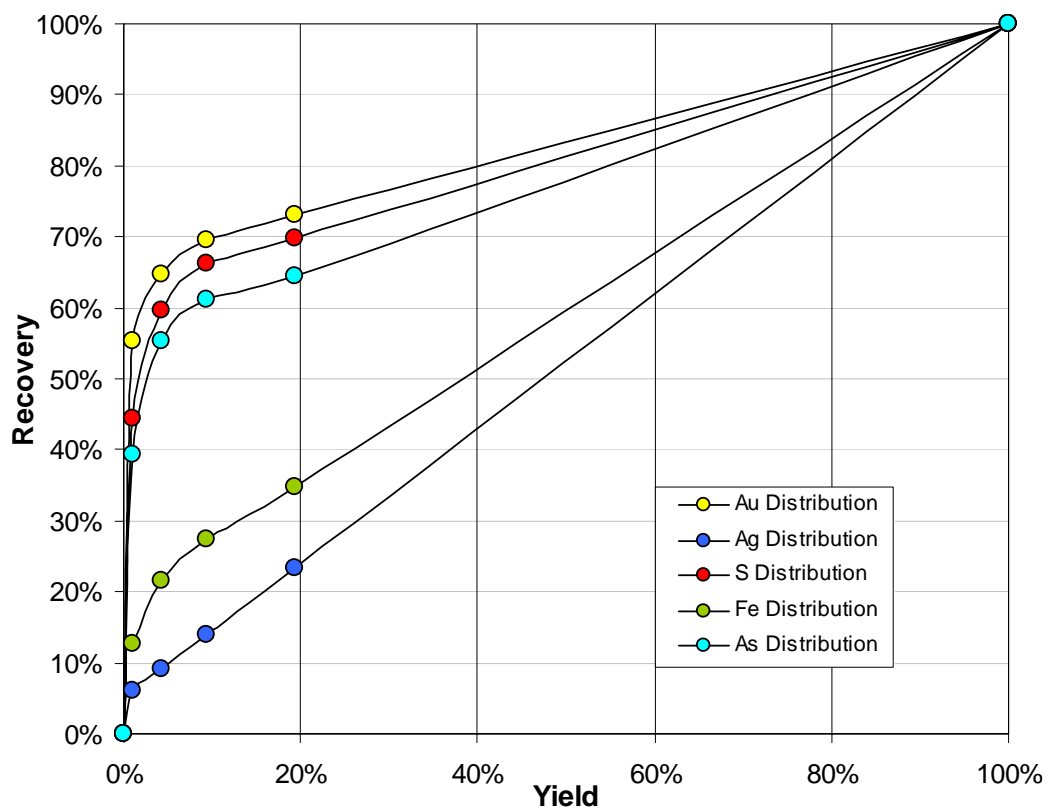
Tabling produced a concentrate containing **50.4%** of the Au, into **1.1%** of the mass, at a grade of 119 g/t. Increasing the mass yield to include all table concentrates recovered 71% of the available Au into 19.3% of the mass, at a grade of 9.3 g/t. The Au, S and As recoveries were similar.

The detailed results sheet is located in Appendix D

All table fractions were subjected to a size by grade analysis; these result sheets are located in Appendix E. Graph 3 below summarises the gold deportment in the size fractions. The graph clearly shows the loss of coarse gold in the table tails.

The calculated Au, Ag, S, Fe and As grades were **2.54 ppm**, **1.1 ppm**, **0.7 %**, **3.1 %** and **0.44 %** respectively.

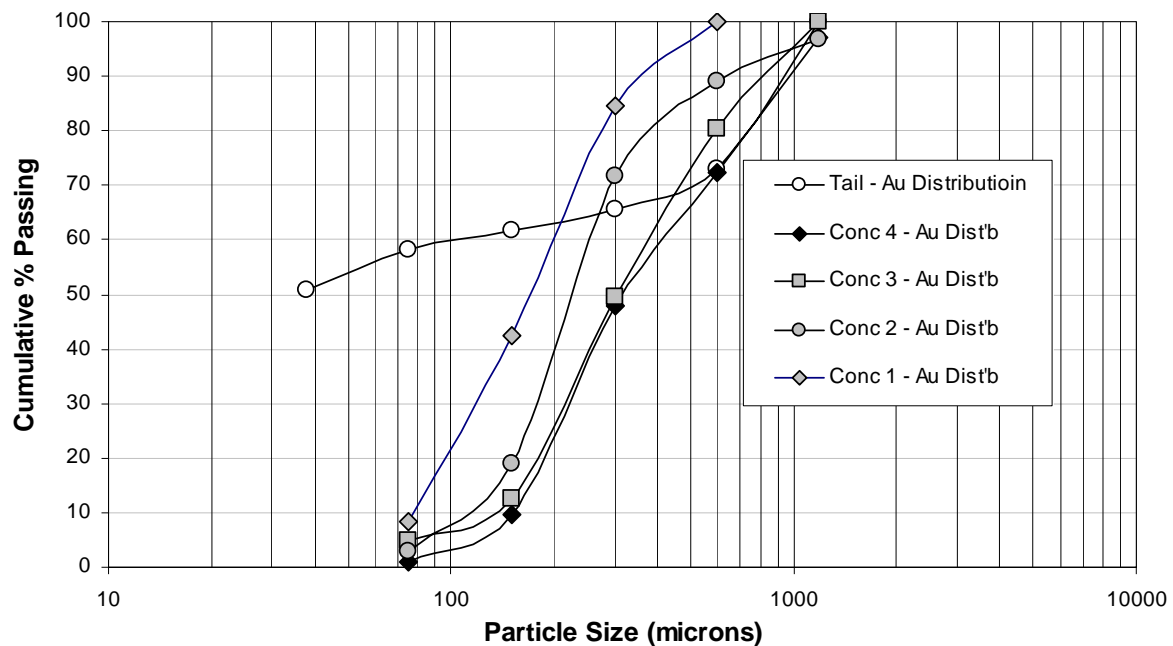
Graph 2 -Tabling Recovery Yield Curve



Sizings were completed on the table products and are summarised in Table 8 below.

Table 8 – Summary of Table Sizings

Product	Sizing, P80 microns
Table Concentrate 1	285
Table Concentrate 2	443
Table Concentrate 3	652
Table Concentrate 4	779
Table Tails	175

Graph 3 - Au Distributions for products of table test

5. Conclusions

Analysis Comparison

Not enough samples were tested using the 3 laboratory analysis techniques (AR, FA and FA Screen) to produce a reasonable statistically comparison. However it is fair to conclude that based on duplicate testing, the FA Screen assay is the most consistent of techniques. The lower Au content recorded with the FA Screen vs the FA, is probable due to the difference in sample sizes; 24 vs 40 grams.

In comparing the large analysis testing methods to the laboratory analysis techniques the following conclusions can be made;

- The average Au content of the large test methods was 2.50 ppm compared to 1.88 ppm for the analysis techniques. We can conclude that samples 5 kg are required to produce a representative sample.
- The GRG test produced the highest grade of 2.89 ppm, however the potential analysis error is higher compared to a straight BLEG leach and table test, due to the number of samples required during the multiply leaches.
- The tabling test had the minimum number of steps which could introduce error. If a screen FA was used on all the products analysed the errors for this step would have been reduced.

Gravity Testwork

Conclusions that could be made regarding the GRG and tabling test:

- The GRG test recovered 46.3% of the soluble gold into 1.1% of the weight. The actual gold present in the falcon concentrates could have been higher, as the leaching testwork showed that poor recoveries were achieved using intensive leach conditions.
- The single pass tabling test at a grind of P80 270 µm, produced a concentrate containing 50.4% of the Au, into 1.1% of the mass, at a grade of 119 g/t. Increasing the mass yield to include all table concentrates recovered 71% of the available Au into 19.3% of the mass, at a grade of 9.3 g/t. The Au, S and As recoveries were similar.
- A significant portion of the gold can be recovered by either a conventional jig or centrifugal concentrator.

Leaching Testwork

The recoveries in the 1kg and 5kg BLEG tests were poor, 39.6% and 49.8% respectively. Due to the large amount of arsenic in the concentrates, it is possible that arsenic was leaching and this is known to reduce leaching performance. (Arsenic wasn't measured). This effect on leaching is normally rectified by adding lime.

6. Recommendations

Analysis

- The gold content of the orebody should be determined by gravity testwork utilising large samples (>5kg).
- If gravity testing device should produce a number of products (eg. Shaking table) which should all be analysed using the duplicate screen fire assay technique. The weighted average of the assays should be calculated and used as the most reliable indicator of gold content.

Leaching Testwork

- The Arsenic content of leach solutions should be followed in any future leach testwork. Lime addition should be investigated if Arsenic is present in the leach solutions.

Appendix A – Testwork Result Sheets

As received sample numbering and weights

Sample no	Hole	From	To	Mass (kg)	Wet	8% of dry weight
LF17757	LFC046	52.0	53.0	24.14		1.9
LF17758	LFC046	53.0	54.0	24.02	w	1.9
LF17760	LFC046	54.0	55.0	24.70		2.0
LF17761	LFC046	55.0	56.0	21.94		1.8
LF17762	LFC046	56.0	57.0	29.14		2.3
LF17763	LFC046	57.0	58.0	28.92		2.3
LF17764	LFC046	58.0	59.0	27.90	w	2.2
LF17765	LFC046	59.0	60.0	15.80		1.3
LF17766	LFC046	60.0	61.0	26.34		2.1
LF17767	LFC046	61.0	62.0	28.94		2.3
LF17768	LFC046	62.0	63.0	23.74		1.9
LF17769	LFC046	63.0	64.0	21.68		1.7
LF17770	LFC046	64.0	65.0	8.48		0.7
LF17771	LFC046	65.0	66.0	25.43		2.0
LF17772	LFC046	66.0	67.0	25.84		2.1
LF17773	LFC046	67.0	68.0	28.36		2.3
LF17774	LFC046	68.0	69.0	29.44		2.4
LF17775	LFC046	69.0	70.0	33.44		2.7
LF17776	LFC046	70.0	71.0	27.24		2.2
LF23726	LFC087	71.0	72.0	18.64		1.5
LF23727	LFC087	72.0	73.0	12.58		1.0
LF23728	LFC087	73.0	74.0	19.04		1.5
LF23729	LFC087	74.0	75.0	36.20	w	2.9
LF23732	LFC087	75.0	76.0	17.30		1.4
LF23733	LFC087	76.0	77.0	25.44		2.0
LF23734	LFC087	77.0	78.0	30.26		2.4
LF23735	LFC087	78.0	79.0	33.16		2.7
LF23736	LFC087	79.0	80.0	26.54		2.1
LF23737	LFC087	80.0	81.0	23.14		1.9
LF23738	LFC087	81.0	82.0	32.04		2.6
LF23739	LFC087	82.0	83.0	47.06		3.8
LF23740	LFC087	83.0	84.0	32.90		2.6
LF23741	LFC087	84.0	85.0	24.22		1.9
LF23742	LFC087	85.0	86.0	24.86		2.0
LF23743	LFC087	86.0	87.0	21.74		1.7
LF23744	LFC087	87.0	88.0	26.96		2.2
LF23745	LFC087	88.0	89.0	10.84		0.9
LF23746	LFC087	89.0	90.0	41.00		3.3
LF28257	LFD110	59.0	60.0	3.68		0.3
LF28258	LFD110	60.0	61.0	1.06		0.1
LF28259	LFD110	61.0	62.0	10.90		0.9
LF28260	LFD110	62.0	63.0	6.50	w	0.5
LF28295	LFC111	33.0	34.0	23.94	w	1.9
LF28296	LFC111	34.0	35.0	16.48	w	1.3
LF28297	LFC111	35.0	36.0	19.94		1.6
LF28298	LFC111	36.0	37.0	21.88		1.8
LF28299	LFC111	37.0	38.0	25.26		2.0
LF28300	LFC111	38.0	39.0	23.80		1.9
LF28301	LFC111	39.0	40.0	25.34		2.0
LF28302	LFC111	40.0	41.0	11.12		0.9

LF28303	LFC111	41.0	42.0	20.04		1.6
LF28304	LFC111	42.0	43.0	21.36		1.7
LF28305	LFC111	43.0	44.0	17.44		1.4
LF28306	LFC111	44.0	45.0	22.20		1.8
LF28384	LFC112	41.0	42.0	17.06		1.4
LF28385	LFC112	42.0	43.0	16.14		1.3
LF28386	LFC112	43.0	44.0	20.46		1.6
LF28387	LFC112	44.0	45.0	20.78		1.7
LF28388	LFC112	45.0	46.0	22.18		1.8
LF28389	LFC112	46.0	47.0	33.5	w	2.7
LF28390	LFC112	47.0	48.0	26.04		2.1
LF28391	LFC112	48.0	49.0	27.08		2.2
LF28392	LFC112	49.0	50.0	26.62		2.1
LF28393	LFC112	50.0	51.0	26.84		2.1
LF28394	LFC112	51.0	52.0	20.40		1.6
LF28395	LFC112	52.0	53.0	22.84		1.8
LF28396	LFC112	53.0	54.0	21.18		1.7
LF28397	LFC112	54.0	55.0	24.84		2.0
LF28398	LFC112	55.0	56.0	27.20		2.2
LF28399	LFC112	56.0	57.0	24.42		2.0
LF28401	LFC112	57.0	58.0	27.96		2.2
LF28402	LFC112	58.0	59.0	23.94	w	1.9
LF28502	LFC113	77.0	78.0	16.02	w	1.3
LF28503	LFC113	78.0	79.0	2.18		0.2
LF28504	LFC113	79.0	80.0	18.74	w	1.5
LF28505	LFC113	80.0	81.0	30.32	w	2.4
LF28506	LFC113	81.0	82.0	35.08		2.8
LF28507	LFC113	82.0	83.0	13.58	w	1.1
LF28508	LFC113	83.0	84.0	20.10		1.6
LF28509	LFC113	84.0	85.0	33.82		2.7
LF28519	LFC113	94.0	95.0	23.48		1.9
LF28521	LFC113	95.0	96.0	24.42	w	2.0
LF28522	LFC113	96.0	97.0	25.30		2.0
LF28523	LFC113	97.0	98.0	28.30		2.3
LF28524	LFC113	98.0	99.0	24.94		2.0
LF28525	LFC113	99.0	100.0	25.28		2.0
LF28667	LFC114	111.0	112.0	28.34		2.3
LF28668	LFC114	112.0	113.0	32.30		2.6
LF28669	LFC114	113.0	114.0	22.34		1.8
LF28672	LFC114	114.0	115.0	28.38		2.3
LF28673	LFC114	115.0	116.0	26.26		2.1
LF28674	LFC114	116.0	117.0	23.42		1.9
LF28675	LFC114	117.0	118.0	28.74		2.3
LF28676	LFC114	118.0	119.0	24.78		2.0
LF28677	LFC114	119.0	120.0	27.26		2.2
LF28678	LFC114	120.0	121.0	24.64		2.0
LF28679	LFC114	121.0	122.0	26.10		2.1

Total mass	2293.95 kg	183.5
Average mass	23.65 kg	

Appendix B - Head Grade Determination

Lefroy Resources - Head Grade Analysis

		Au-AA25	ME-ICP41s	ME-ICP41s	ME-ICP41s	ME-ICP41s	ME-ICP41s	ME-ICP41s	ME-ICP41s	ME-ICP41s	ME-ICP41s	C-IR17	ME-MS42
description		Au	Ag	As	S	Sb	Fe	Cu	Bi	Zn	Pb	C organic	Hg
		ppm	ppm	ppm	%	ppm	%	ppm	ppm	ppm	ppm	%	ppm
repeat FA	39.74 -2mm head	3.42	0.3	4350	0.71	4	2.74	93	<2	67	26		
repeat FA	39.37 -2mm head	1.65	0.4	4580	0.69	4	2.69	34	<2	60	16		
screen FA	12.8 -150um #1	2.12	0.7	5860	0.68	5	2.86	68	2	80	20	0.22	0.2
screen FA	11.53 +150um #1	0.84	<0.2	2840	0.63	5	2.51	59	2	46	19	0.11	0.133
screen FA	13.21 -150um #2	2.1	0.3	5420	0.63	5	2.85	82	<2	76	18	0.2	0.206
screen FA	11.04 +150um #2	0.98	0.6	2720	0.75	4	2.88	47	<2	62	16	0.09	0.297
AR	102.2 -850um	1.72											
AR	128.5 -850um	1.66											
AR	105.7 -850um	1.66											
AR	126.8 -850um	1.89											

Appendix C ~ Intensive Cyanidation Results on Whole Ore

Test No. Leach Test LLEF (02)
16/03/2007

Sample: LLEF Bulk sample 1kg
Description: 2% NaCN Leach

Grind p100 = -850um

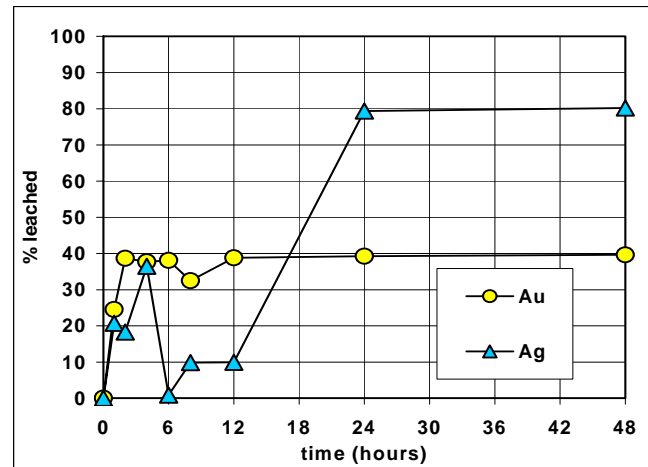
Conditions: 2% NaCN, 2g/kg Lead Nitrate, oxygen addition.

Wt % Solids 10.0% NaCN consumed 0.71 g
0.7 kg/t

LeachWell addition 0.00 g
0.00 kg/t Net NaCN added 182.31 g
180.7 kg/t

Pb(NO3)2 addition 1.01 g
1.00 kg/t NaCN residual 2.00 %
181.60 g

pH natural 6.73
initial 10.08 NaOH addition 0.00 g
final 10.62 0.00 kg/t



SAMPLE NAME	Wt. OR VOLUME	SOLUTION SUB/ADD		ASSAYS		Recovery		DO2	pH	Sodium Cyanide			REMOVED IN SAMPLE		TOTAL LEACHED UNITS	
				Au ppm	Ag ppm	Au %	Ag %			level %w/v	added g	removed g	Au ug	Ag ug	Au ug	Ag ug
Sampled Head	1008.9															
Solutions hours								initial	6.73							
0	9080					0.0	0.0		10.08	2.00	181.60	0.00				
1	9080	100	100	0.05	0.02	24.5	20.7	7.60	10.84	1.92	9.18	1.92	5	2	481	209
2	9080	100	100	0.08	0.02	38.6	18.2	7.60	10.8	2.00	0.00	2.00	8	2	759	184
4	9080	100	100	0.08	0.04	37.7	36.4	7.10	10.7	1.96	0.00	1.96	8	4	740	368
6	9080	100	100	0.08	0.00	38.1	0.8	6.30	10.64	2.08	5.59	2.08	8	0	748	8
8	9080	100	100	0.07	0.01	32.5	9.8	6.10	10.5	2.10	0.00	2.10	7	1	638	99
12	9080	100	100	0.08	0.01	38.8	9.9	5.50	10.51	2.00	0.00	2.00	8	1	763	100
24	9080	100	100	0.08	0.09	39.2	79.4	6.70	10.71	2.00	0.00	2.00	8	9	771	800
48	9080	0	0	0.08	0.09	39.6	80.2	5.90	10.62	2.00	0.00	0.00	0	0	779	809
Leach residue	997.1			1.2	0.2				Total		196.37	14.06			1187	199
Calculated Head	1008.9			1.9	1.0										1965	1008

Test No. Leach Test LLEF (03)

16/03/2007

Sample: LLEF Bulk sample 5kg

Description: 2% NaCN Leach

Grind p100 = -850um

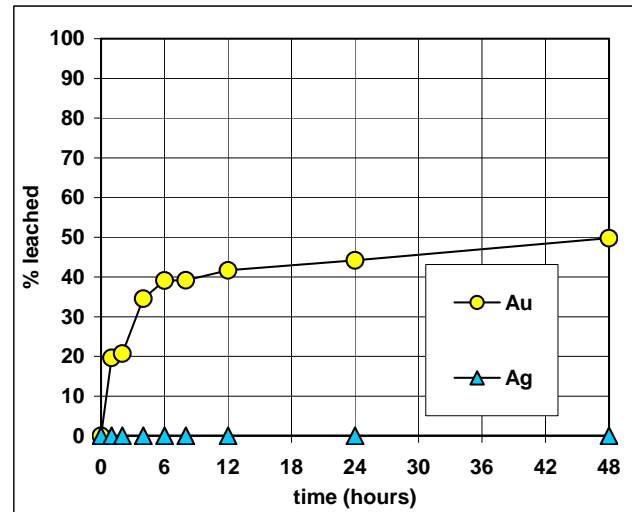
Conditions: 2% NaCN, 2g/kg Lead Nitrate, oxygen addition.

Wt % Solids 10.0% NaCN 213.98 g
consumed 41.6 kg/t

LeachWell 0.00 g
addition 0.00 kg/t Net NaCN 1139.18 g
added 221.6 kg/t

Pb(NO3)2 5.14 g
addition 1.00 kg/t NaCN 2.00 %
residual 925.20 g

pH natural 7.96
initial 10.68 NaOH 0.00 g
final 10.51 addition 0.00 kg/t



SAMPLE NAME	Wt. OR VOLUME	SOLUTION SUB/ADD		ASSAYS		Recovery		DO2	pH	Sodium Cyanide			REMOVED IN SAMPLE		TOTAL LEACHED UNITS	
				Au ppm	Ag ppm	Au %	Ag %			level %w/v	added g	removed g	Au ug	Ag ug	Au ug	Ag ug
Sampled Head	5140															
Solutions hours								initial	7.96							
0	46260					0.0	0.0		10.68	2.00	925.20	0.00				
1	46260	100	100	0.06	0.00	19.6	0.0	7.60	10.74	1.70	140.48	1.70	6	0	2637	0
2	46260	100	100	0.06	0.00	20.7	0.0	7.80	10.74	1.92	38.92	1.92	6	0	2781	0
4	46260	100	100	0.10	0.00	34.5	0.0	7.50	10.7	2.00	0.00	2.00	10	0	4638	0
6	46260	100	100	0.11	0.00	39.1	0.0	6.20	10.63	2.00	0.00	2.00	11	0	5249	0
8	46260	100	100	0.11	0.00	39.2	0.0	6.20	10.51	2.06	0.00	2.06	11	0	5260	0
12	46260	100	100	0.12	0.00	41.7	0.0	6.20	10.52	1.90	48.16	1.90	12	0	5596	0
24	46260	100	100	0.13	0.00	44.2	0.0	6.70	10.62	2.00	0.00	2.00	13	0	5931	0
48	46260	0	0	0.14	0.00	49.8	0.0	6.10	10.51	2.00	0.00	0.00	0	0	6684	0
Leach residue	5000.0			1.4	0.2				Total		1152.76	13.58			6750	1000
Calculated Head	5140			2.6	0.2										13434	1000

Appendix D ~ Intensive Cyanidation Results on GRG Concentrates

Test No. Leach Test LLEF (01)
28/02/2007

Sample: Falcon Test 1 - Concentrate
Description: 2% NaCN Leach

Grind p80 = -850um

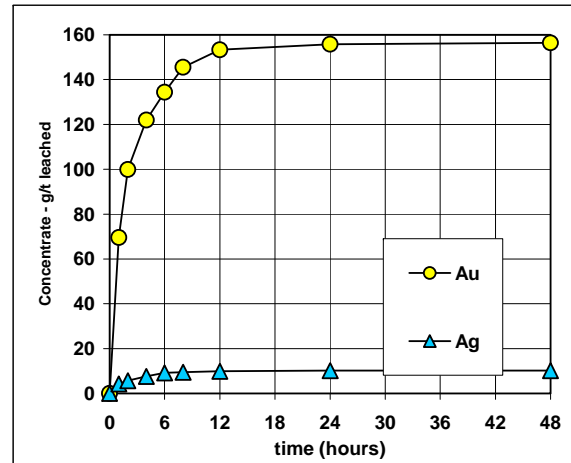
Conditions: 2% NaCN, 2g/kg Lead Nitrate, oxygen addition.

Wt % Solids 10.0% NaCN 2.46 g
consumed 14.6 kg/t

LeachWell 0.00 g
addition 0.00 kg/t Net NaCN 33.08 g
added 195.8 kg/t

Pb(NO₃)₂ 0.34 g
addition 2.01 kg/t NaCN 2.00 %
residual 30.61 g

pH natural 8.10
initial 12.33 NaOH 0.72 g
final 11.39 addition 4.26 kg/t



SAMPLE NAME	Wt. OR VOLUME	SOLUTION SUB/ADD		ASSAYS		Recovery		DO2	pH	Sodium Cyanide			REMOVED IN SAMPLE		TOTAL LEACHED UNITS		TOTAL LEACHED	
				Au ppm	Ag ppm	Au %	Ag %			level %w/v	added g	removed g	Au ug	Ag ug	Au ug	Ag ug	Au g/t	Ag g/t
Sampled Head	168.9																	
Solutions hours								initial	10.78									
0	1520								12.33	2.00	30.40	0.00					0	0
1	1520	49.5	49.7	7.73	0.47			13.60	11.48	1.92	2.18	0.95	383	23	11750	714	69.6	4.2
2	1520	50.1	51	10.85	0.61			14.20	11.46	1.72	5.12	0.86	543	31	16878	951	99.9	5.6
4	1521	50.7	50	12.93	0.81			14.60	11.43	2.16	0.00	1.09	655	41	20596	1286	121.9	7.6
6	1521	51.2	53.1	13.89	0.95			13.70	11.32	2.15	0.00	1.10	711	49	22702	1539	134.4	9.1
8	1523	50.3	52.5	14.64	0.96			13.30	11.32	2.05	0.00	1.03	737	48	24582	1605	145.5	9.5
12	1525	50.4	56.4	15.00	0.97			6.50	11.17	2.01	0.00	1.01	756	49	25900	1671	153.3	9.9
24	1531	50	63.3	14.72	0.97			15.00	11.38	1.84	3.35	0.92	736	48	26316	1725	155.8	10.2
48	1544	50.2	0	14.18	0.93			11.60	11.39	2.00	0.00	1.00	712	47	26414	1725	156.4	10.2
Leach residue	168.0								Total		41.05	7.97			0	0		
Calculated Head	168.9														26414	1725		

No assays on leach residue as it was placed in the falcon tails (1) for the next falcon test (2)

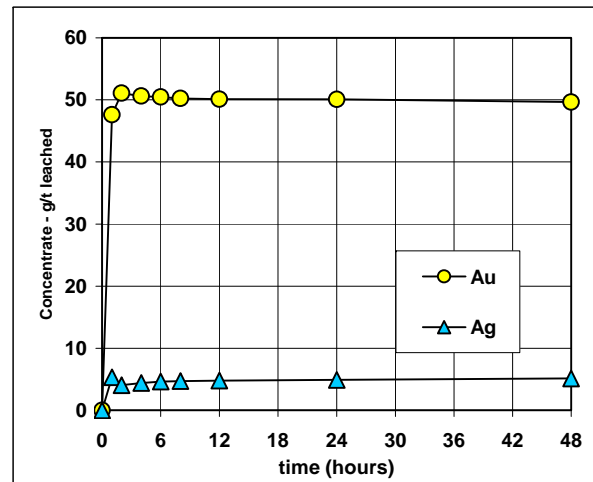
Test No. Leach Test LLEF (04)**19/03/2007****Sample: Falcon Test 2 - Concentrate****Description: 2% NaCN Leach****Grind** p50 = 75um**Conditions: 2% NaCN, 2g/kg Lead Nitrate, oxygen addition.**

Wt % Solids 10.0% **NaCN** 1.06 g
consumed 12.8 kg/t

LeachWell 0.00 g
addition 0.00 kg/t **Net NaCN** 15.60 g
added 189.2 kg/t

Pb(NO3)2 0.16 g
addition 1.94 kg/t **NaCN** 1.96 %
residual 14.54 g

pH natural 7.96
initial 12.07 **NaOH** 1.14 g
final 11.77 addition 13.83 kg/t



SAMPLE NAME	Wt. OR VOLUME	SOLUTION SUB/ADD		ASSAYS		Recovery		DO2	pH	Sodium Cyanide			REMOVED IN SAMPLE		TOTAL LEACHED UNITS		TOTAL LEACHED	
				Au ppm	Ag ppm	Au %	Ag %			level %w/v	added g	removed g	Au ug	Ag ug	Au ug	Ag ug	Au g/t	Ag g/t
Sampled Head	82.44																	
Solutions hours								initial	10.84									
0	742								12.07	2.00	14.81	0.00					0	0
1	742	50	50	5.29	0.59			7.10	12.15	1.96	1.27	0.98	265	30	3925	438	47.6	5.3
2	742	50	50	5.32	0.41			6.30	12.02	1.96	1.27	0.98	266	21	4212	334	51.1	4.0
4	742	50	50	4.91	0.42			5.30	11.82	1.99	1.06	1.00	246	21	4174	362	50.6	4.4
6	742	50	50	4.56	0.42			4.80	11.71	1.82	2.24	0.91	228	21	4159	383	50.5	4.6
8	742	50	50	4.23	0.40			5.20	11.65	2.00	0.00	1.00	212	20	4142	389	50.2	4.7
12	742	50	50	3.93	0.38			5.30	11.72	1.74	2.79	0.87	197	19	4131	394	50.1	4.8
24	742	50	50	3.66	0.37			5.80	11.87	2.25	0.00	1.13	183	19	4128	406	50.1	4.9
48	742	50	0	3.37	0.37			7.10	11.77	1.96	0.00	0.98	169	19	4095	424	49.7	5.1
Leach residue	82.4								Total		23.44	7.84			0	0		
Calculated Head	82.44														4095	424		

No assays on leach residue as it was placed into the falcon tails (2) for the next falcon test (3)

Test No. Leach Test LLEF (05)

27/03/2007

Sample: Falcon Test 3 - Concentrate

Description: 2% NaCN Leach

Grind p80 = -75um

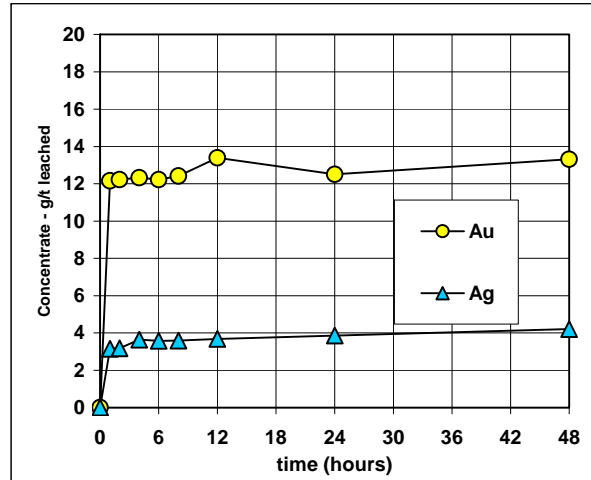
Conditions: 2% NaCN, 2g/kg Lead Nitrate, oxygen addition.

Wt % Solids 10.0% NaCN consumed 0.49 g
5.7 kg/t

LeachWell 0.00 g
addition 0.00 kg/t Net NaCN added 15.80 g
183.9 kg/t

Pb(NO3)2 0.17 g
addition 1.98 kg/t NaCN residual 1.98 %
15.30 g

pH natural 8.02
initial 12.03 NaOH 0.97 g
final 11.73 addition 11.29 kg/t



SAMPLE NAME	Wt. OR VOLUME	SOLUTION SUB/ADD		ASSAYS		Recovery		DO2	pH	Sodium Cyanide			REMOVED IN SAMPLE		TOTAL LEACHED UNITS		TOTAL LEACHED	
				Au ppm	Ag ppm	Au %	Ag %			level %w/v	added g	removed g	Au ug	Ag ug	Au ug	Ag ug	Au g/t	Ag g/t
Sampled Head	85.88																	
Solutions hours								initial	10.9									
0	773								12.03	2.00	15.46	0.00					0	0
1	773	50	50	1.35	0.35			5.10	12.02	1.90	1.72	0.95	68	18	1043	271	12.2	3.2
2	773	50	50	1.27	0.33			4.10	11.98	1.97	1.21	0.99	64	17	1049	273	12.2	3.2
4	773	50	50	1.20	0.36			3.70	11.86	1.78	2.50	0.89	60	18	1059	312	12.3	3.6
6	773	50	50	1.11	0.33			3.10	11.78	2.35	0.00	1.18	56	17	1049	307	12.2	3.6
8	773	50	50	1.06	0.31			2.50	11.74	2.03	0.00	1.02	53	16	1066	308	12.4	3.6
12	773	50	50	1.10	0.30			2.40	11.87	1.88	1.86	0.94	55	15	1150	316	13.4	3.7
24	773	50	50	0.93	0.30			2.00	11.77	2.00	0.00	1.00	47	15	1073	331	12.5	3.9
48	773	0	0	0.96	0.32			7.20	11.73	1.98	0.00	0.00	0	0	1143	361	13.3	4.2
Leach residue	84.6								Total		22.75	6.96			0	0		
Calculated Head	85.88														1143	361		

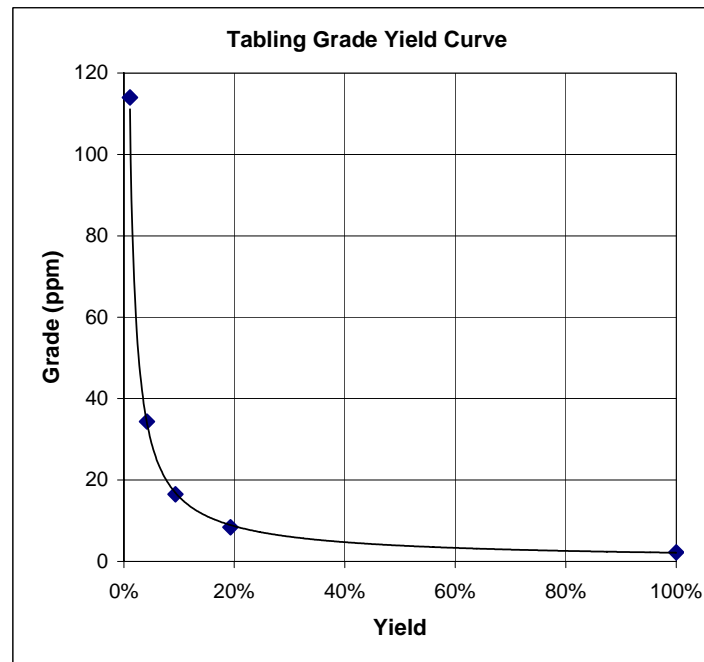
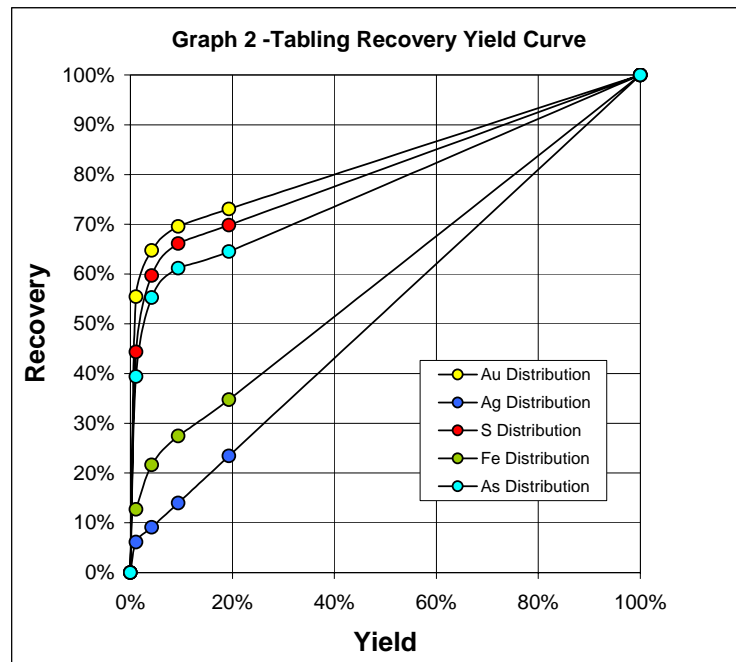
Appendix E ~ Gravity Concentration Results

Lefroy Resources

10/04/2007

Single Pass Table Test (1)

Sample	Mass Yield on Table			Gold Distribution on Table				Silver Distribution on Table			
	g	%	cumulative %	Assay ppm	Distribution %	Cumulative Distribution	Cumulative grade ppm	Assay ppm	Distribution %	Cumulative Distribution	Cumulative grade ppm
Concentrate 1	211	1.1%	1.1%	118.74	50.4%	50%	118.7	8.0	7.9%	8%	8.0
Concentrate 2	608	3.1%	4.2%	7.60	9.3%	59.7%	36.3	1.2	3.4%	11.3%	2.9
Concentrate 3	1013	5.2%	9.4%	4.36	8.9%	68.6%	18.6	1.1	5.2%	16.5%	1.9
Concentrate 4	1950	10.0%	19.3%	0.62	2.4%	71.0%	9.3	1.0	9.3%	25.8%	1.5
Table Tails	15800	80.7%	100.0%	0.91	29.0%	100.0%	2.54	1.0	74.2%	100.0%	1.1
Calc'd Feed	19581	100.0%		2.54	100.0%		2.54	1.1	100.0%		1.1
Assay Feed	19000	100.0%		2.22	100.00	100.00		1.10	100.00	100.00	



Appendix F ~ Size Distribution v Grade Results

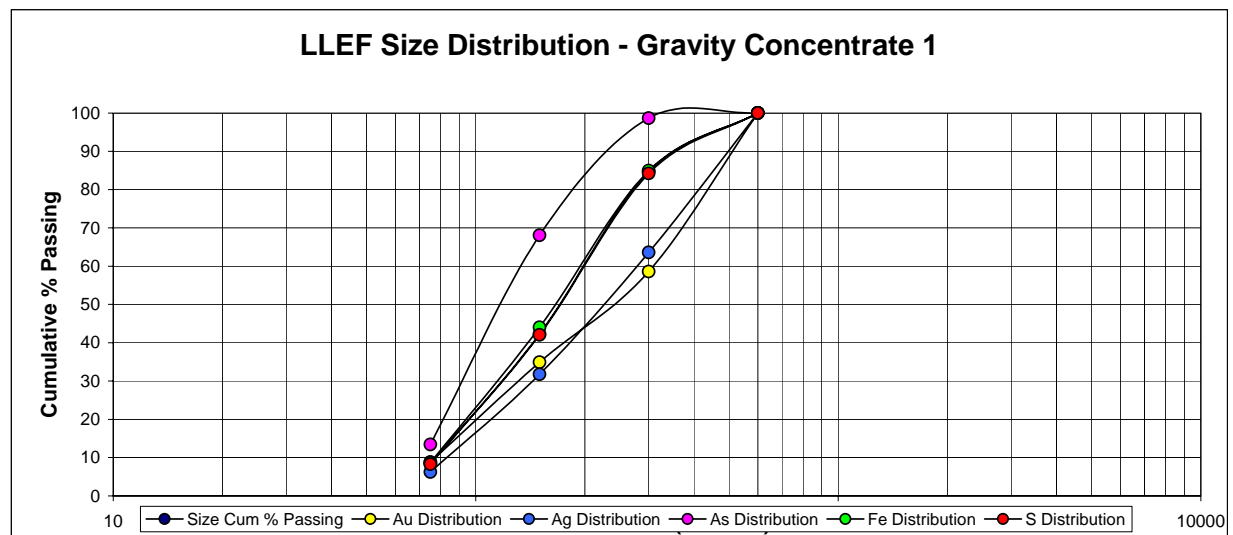
Lefroy Resources

11/04/2007

LLEF (1) Size by Grade - Concentrate 1

Particle Size Distribution Calculation				Au Distribution calculation				Ag Distribution Calculation			
Size (microns)	Wt Retained (g)	Wt %	Size Cum %	Assay ppm	Mass (Units)	Wt% Retained	Cum % Passing	Assay ppm	Mass (Units)	Wt% Retained	Cum % Passing
600	0.00	0.00	100.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	100.00
300	26.00	15.31	84.69	321.00	49.14	41.39	58.61	19.00	2.91	36.40	63.60
150	72.00	42.39	42.30	66.40	28.15	23.71	34.91	6.00	2.54	31.83	31.76
75	57.67	33.96	8.34	91.10	30.93	26.05	8.85	6.00	2.04	25.50	6.27
0	14.17	8.34	0.00	126.00	10.51	8.85	0.00	6.00	0.50	6.27	0.00
Total	169.8	100.00		Head Grade	118.7	100.00		Head Grade	8.0	100.00	
Initial Wt	172	Reconcile	101%	Assay Head	114.0	Reconcile	96%	Assay Head	6.0	Reconcile	75%

As Distribution calculation				Fe Distribution Calculation				S Distribution Calculation			
Assay %	Mass (Units)	Wt% Retained	Cum % Passing	Assay %	Mass (Units)	Wt% Retained	Cum % Passing	Assay %	Mass (Units)	Wt% Retained	Cum % Passing
0.0	0.00	0.00	100.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	100.00
1.3	0.20	1.31	98.69	34.60	5.30	15.03	84.97	30.00	4.59	15.75	84.25
11.0	4.66	30.6	68.07	34.00	14.41	40.91	44.06	29.00	12.29	42.17	42.08
24.5	8.32	54.6	13.43	36.70	12.46	35.37	8.69	29.00	9.85	33.78	8.30
24.5	2.04	13.43	0.00	36.70	3.06	8.69	0.00	29.00	2.42	8.30	0.00
Head Grade	15.2	100.00		Head Grade	35.2	100.00		0.27	29.2	100.00	
Assay Head	16.6	Reconcile	109%	Assay Head	35.7	Reconcile	101%	Assay Head	29.7	Reconcile	102%



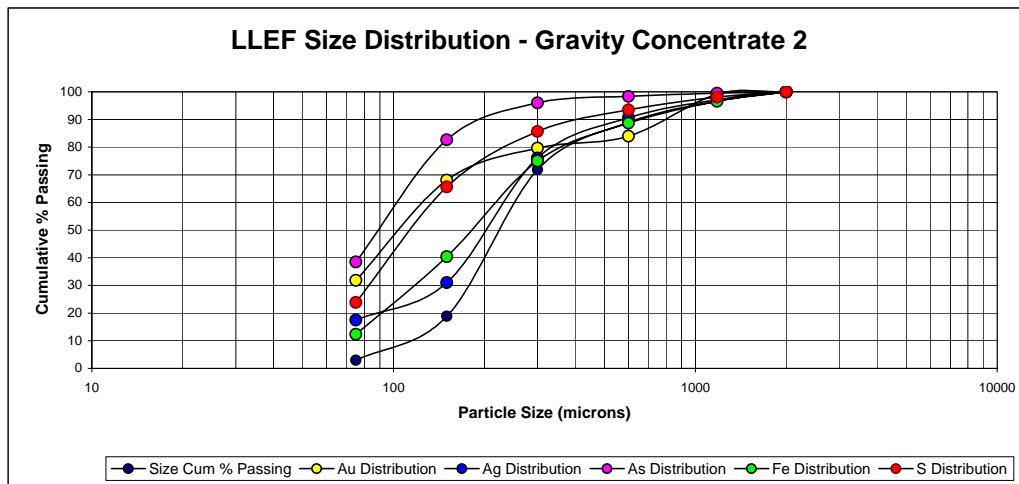
Lefroy Resources

11/04/2007

LLEF (1) Size by Grade - Concentrate 2

Particle Size Distribution Calculation				Au Distribution calculation				Ag Distribution Calculation			
Size (microns)	Wt Retained (g)	Wt %	Size Cum %	Assay ppm	Mass (Units)	Wt% Retained	Cum % Passing	Assay ppm	Mass (Units)	Wt% Retained	Cum % Passing
2000	0.00	0.00	100.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	100.00
1180	18.80	3.34	96.66	2.03	0.07	0.89	99.11	1.00	0.03	2.84	97.16
600	43.50	7.73	88.93	14.90	1.15	15.14	83.97	1.00	0.08	6.57	90.59
300	96.30	17.10	71.83	1.90	0.32	4.27	79.69	1.00	0.17	14.55	76.04
150	298.30	52.98	18.85	1.67	0.88	11.64	68.05	1.00	0.53	45.06	30.98
75	89.60	15.91	2.93	17.30	2.75	36.21	31.84	1.00	0.16	13.53	17.45
0	16.50	2.93	0.00	82.60	2.42	31.84	0.00	7.00	0.21	17.45	0.00
Total	563.0	100.00		Head Grade	7.6	100.00		Head Grade	1.2	100.00	
Initial Wt	563	Reconcile	100%	Assay Head	6.6	Reconcile	87%	Assay Head	1.0	Reconcile	85%

As Distribution calculation				Fe Distribution Calculation				S Distribution Calculation			
Assay %	Mass (Units)	Wt% Retained	Cum % Passing	Assay %	Mass (Units)	Wt% Retained	Cum % Passing	Assay %	Mass (Units)	Wt% Retained	Cum % Passing
0.00	0.00	0.00	100.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	100.00
0.30	0.01	0.49	99.51	9.00	0.30	3.42	96.58	1.99	0.07	1.97	98.03
0.30	0.02	1.14	98.36	9.00	0.70	7.90	88.68	1.99	0.15	4.55	93.48
0.28	0.05	2.35	96.01	7.05	1.21	13.70	74.98	1.54	0.26	7.80	85.68
0.51	0.27	13.36	82.65	5.74	3.04	34.56	40.41	1.28	0.68	20.09	65.59
5.63	0.90	44.20	38.45	15.55	2.47	28.12	12.29	8.85	1.41	41.72	23.87
26.60	0.78	38.45	0.00	36.90	1.08	12.29	0.00	27.50	0.81	23.87	0.00
Head Grade	2.0	100.00		Head Grade	8.8	100.00		Head Grade	3.4	100.00	
Assay Head	2.3	Reconcile	114%	Assay Head	8.7	Reconcile	99%	Assay Head	3.6	Reconcile	106%



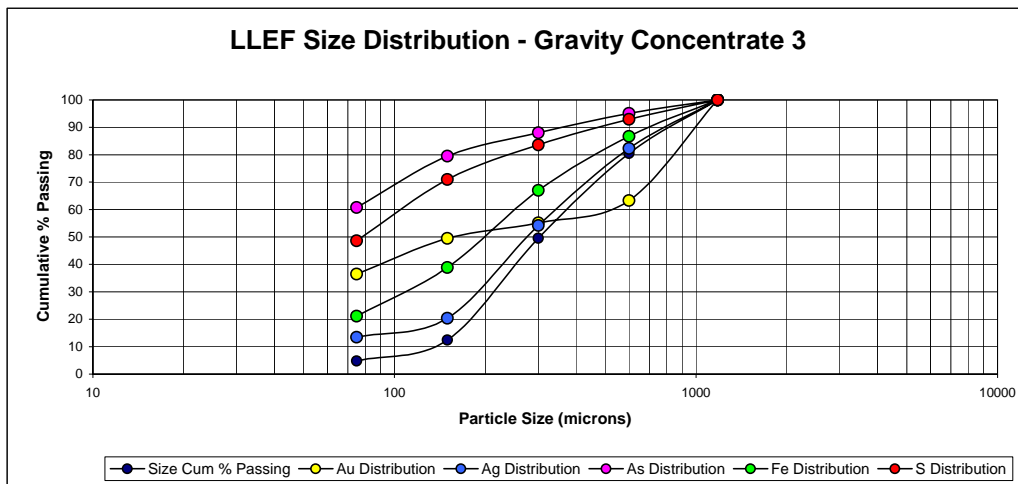
Lefroy Resources

11/04/2007

LLEF (1) Size by Grade - Concentrate 3

Particle Size Distribution Calculation				Au Distribution calculation				Ag Distribution Calculation			
Size (microns)	Wt Retained (g)	Wt %	Size Cum %	Assay ppm	Mass (Units)	Wt% Retained	Cum % Passing	Assay ppm	Mass (Units)	Wt% Retained	Cum % Passing
1180	21.80	0.00	100.00	9.76	0.00	0.00	100.00	1.00	0.00	0.00	100.00
600	183.80	19.48	80.52	8.21	1.60	36.73	63.27	1.00	0.19	17.72	82.28
300	291.80	30.93	49.58	1.15	0.36	8.17	55.10	1.00	0.31	28.13	54.16
150	350.80	37.19	12.39	0.66	0.25	5.64	49.47	1.00	0.37	33.81	20.35
75	71.90	7.62	4.77	7.42	0.57	12.99	36.48	1.00	0.08	6.93	13.42
0	23.20	2.46	2.31	64.60	1.59	36.48	0.00	6.00	0.15	13.42	0.00
Total	943.3	97.69		Head Grade	4.4	100.00		Head Grade	1.1	100.00	
Initial Wt	943.3	Reconcile	100%	Assay Head	2.1	Reconcile	48%	Assay Head	1.0	Reconcile	91%

As Distribution calculation				Fe Distribution Calculation				S Distribution Calculation			
Assay %	Mass (Units)	Wt% Retained	Cum % Passing	Assay %	Mass (Units)	Wt% Retained	Cum % Passing	Assay %	Mass (Units)	Wt% Retained	Cum % Passing
0.40	0.00	0.00	100.00	2.86	0.00	0.00	100.00	0.60	0.00	0.00	100.00
0.20	0.04	4.93	95.07	2.71	0.53	13.27	86.73	0.47	0.09	7.07	92.93
0.18	0.06	7.03	88.04	2.54	0.79	19.74	66.99	0.39	0.12	9.32	83.61
0.19	0.07	8.54	79.50	3.01	1.12	28.12	38.87	0.44	0.16	12.63	70.98
1.98	0.15	18.74	60.76	9.26	0.71	17.73	21.13	3.80	0.29	22.36	48.62
19.9	0.49	60.76	0.00	34.20	0.84	21.13	0.00	25.60	0.63	48.62	0.00
Head Grade	0.8	100.00		Head Grade	4.0	100.00		Head Grade	1.3	100.00	
Assay Head	0.5	Reconcile	65%	Assay Head	3.4	Reconcile	86%	Assay Head	0.9	Reconcile	69%



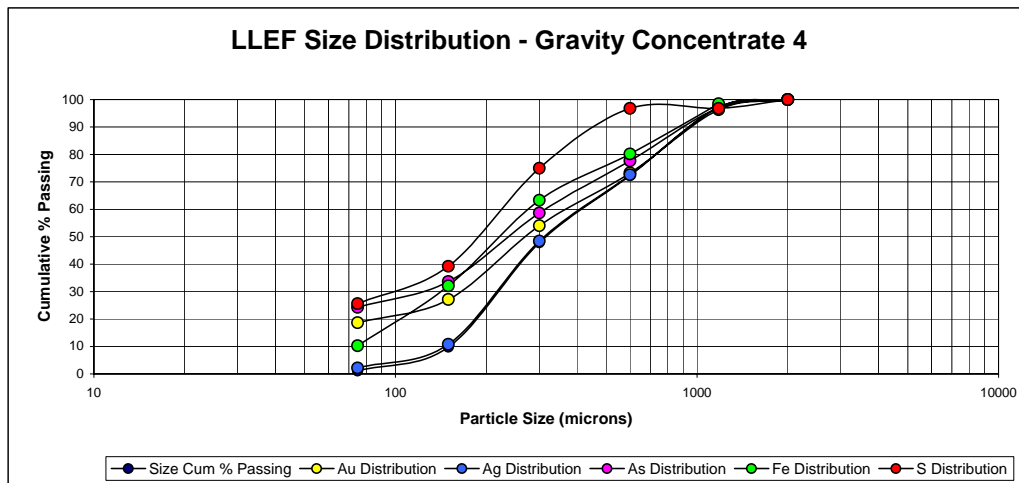
Lefroy Resources

11/04/2007

LLEF (1) Size by Grade - Concentrate 4

Particle Size Distribution Calculation				Au Distribution calculation				Ag Distribution Calculation			
Size (microns)	Wt Retained (g)	Wt %	Size Cum %	Assay ppm	Mass (Units)	Wt% Retained	Cum % Passing	Assay ppm	Mass (Units)	Wt% Retained	Cum % Passing
2000	0.00	0.00	100.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	100.00
1180	53.65	2.84	97.16	0.80	0.02	3.65	96.35	1.00	0.03	2.81	97.19
600	468.65	24.85	72.31	0.58	0.14	23.11	73.24	1.00	0.25	24.58	72.61
300	461.29	24.46	47.85	0.49	0.12	19.22	54.01	1.00	0.24	24.19	48.42
150	718.50	38.09	9.76	0.44	0.17	26.88	27.13	1.00	0.38	37.68	10.74
75	163.30	8.66	1.10	0.61	0.05	8.47	18.66	1.00	0.09	8.56	2.18
0	20.80	1.10	0.00	10.55	0.12	18.66	0.00	2.00	0.02	2.18	0.00
Total	1886.2	100.00		Head Grade	0.62	100.00		Head Grade	1.01	100.00	
Initial Wt	1886.2			Assay Head	0.78			Assay Head	1.00		
		Reconcile	100%			Reconcile	125%			Reconcile	99%

As Distribution calculation				Fe Distribution Calculation				S Distribution Calculation			
Assay %	Mass (Units)	Wt% Retained	Cum % Passing	Assay %	Mass (Units)	Wt% Retained	Cum % Passing	Assay %	Mass (Units)	Wt% Retained	Cum % Passing
0.00	0.00	0.00	100.00	0.00	0.00	0.00	100.00	0.33	0.00	0.00	100.00
0.23	0.00	3.02	96.98	1.93	0.05	1.49	98.51	0.26	0.01	3.15	96.85
0.17	0.03	19.30	77.68	2.71	0.67	18.32	80.18	0.00	0.00	0.00	96.85
0.12	0.03	19.00	58.68	2.54	0.62	16.90	63.28	0.21	0.05	21.88	74.97
0.10	0.04	25.02	33.66	3.01	1.15	31.20	32.08	0.22	0.08	35.71	39.26
0.17	0.01	9.35	24.31	9.26	0.80	21.82	10.26	0.37	0.03	13.65	25.61
3.49	0.04	24.31	0.00	34.20	0.38	10.26	0.00	5.45	0.06	25.61	0.00
Head Grade	0.16	100.00		Head Grade	3.67	100.00		Head Grade	0.23	100.00	
Assay Head	0.15			Assay Head	2.22			Assay Head	0.27		
		Reconcile	96%			Reconcile	60%			Reconcile	115%



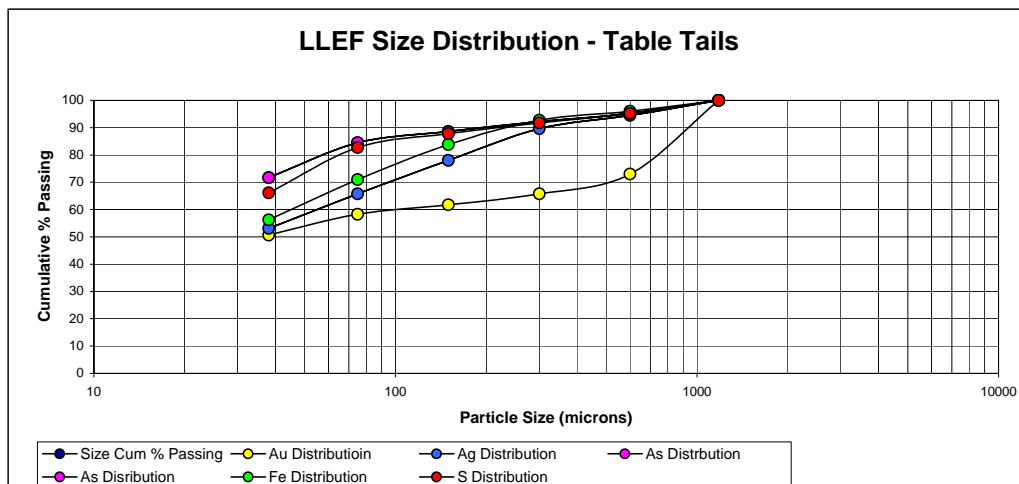
Lefroy Resources

11/04/2007

LLEF (1) Size by Grade - Table Tails

Particle Size Distribution Calculation				Au Distribution calculation				Ag Distribution Calculation			
Size (microns)	Wt Retained (g)	Wt %	Size Cum %	Assay (g/t)	Mass (Units)	Wt%	Cum %	Assay (g/t)	Mass (Units)	Wt%	Cum %
1180	0.00	0.00	100.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	100.00
600	30.30	5.51	94.49	4.47	0.25	26.99	73.01	1.00	0.06	5.51	94.49
300	26.90	4.89	89.60	1.36	0.07	7.29	65.72	1.00	0.05	4.89	89.60
150	63.70	11.58	78.02	0.31	0.04	3.94	61.78	1.00	0.12	11.58	78.02
75	67.60	12.29	65.73	0.26	0.03	3.50	58.28	1.00	0.12	12.29	65.73
38	69.30	12.60	53.14	0.55	0.07	7.60	50.68	1.00	0.13	12.60	53.14
0	292.30	53.14	12.60	0.87	0.46	50.68	7.60	1.00	0.53	53.14	12.60
Total	550.1	100.00		Head Grade	0.91	100.00		Head Grade	1.00	100.00	
Initial Wt	552.6	Reconcile	100%	Assay Head	0.74	Reconcile	81%	Assay Head	1.00	Reconcile	100%

As Distribution calculation				Fe Distribution Calculation				S Distribution Calculation			
Assay (g/t)	Mass (Units)	Wt% Retained	Cum % Passing	Assay (g/t)	Mass (Units)	Wt% Retained	Cum % Passing	Assay (g/t)	Mass (Units)	Wt% Retained	Cum % Passing
0.00	0.00	0.00	100.00	0.00	0.00	0.00	100.00	0.00	0.00	0.00	100.00
0.17	0.01	4.79	95.21	1.68	0.09	3.98	96.02	0.23	0.01	4.77	95.23
0.12	0.01	3.01	92.20	1.57	0.08	3.30	92.71	0.19	0.01	3.50	91.72
0.06	0.01	3.62	88.58	1.78	0.21	8.87	83.84	0.09	0.01	3.93	87.80
0.06	0.01	4.10	84.49	2.44	0.30	12.90	70.94	0.11	0.01	5.09	82.70
0.20	0.02	12.80	71.69	2.71	0.34	14.69	56.25	0.35	0.04	16.62	66.08
0.26	0.14	71.69	12.80	2.46	1.31	56.25	14.69	0.33	0.18	66.08	16.62
Head Grade	0.19	100.00		Head Grade	2.32	100.00		Head Grade	0.27	100.00	
Assay Head	0.20	Reconcile	104%	Assay Head	2.45	Reconcile	105%	Assay Head	0.27	Reconcile	102%



Appendix G – Disclaimer

Gekko has undertaken test work to characterize the response of your ore to certain separation techniques and/or to help your own experts make a decision as to whether you wish to purchase our product and, if so, the number and type.

It is important that you understand that:

- *Our testing is preliminary only.*
- *You should obtain, independent advice from all relevant specialists, including a metallurgist, before acquiring any equipment and before committing to and proceeding with your project.*
- *You must have your own experts examine the detailed analysis in our report to decide its applicability to your project.*
- *We analyse only the sample you provide. Any one of a number of factors may cause that sample inaccurately to reflect the ore body. You must determine the extent to which the sample represents the ore body. That includes the detection limits and confidence intervals relevant to our results.*

At all times we endeavour to provide accurate test work outcomes but you should not use our results as a basis for your broader business decisions about your project.

If we have not exercised due care with our tests, the limit of our liability, both at common law and under any statute, will be to provide a further set of test results to you free of charge. You indemnify us with respect to all other loss and damage of every kind, including, without limitation:

- *damage to or loss of property;*
- *injury to or death of any person; and*
- *economic and consequential loss arising from the negligent act or omission of us or any one else in connection with our tests.*

End of document–Metallurgical test work report - Gekko Systems
