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The Manager,  
Company Announcement Office  
Australian Securities Exchange Limited

## Exceptional Ore Upgrade Results

Ironbark is pleased to announce the preliminary results from the first Citronen base metal project ore upgrading testwork. The results have exceeded expectations and have effectively doubled the grade of the sample into ~50% of the mass following a crush and gravity sorting process with a modest 4% zinc loss for the size fractions which were treated by the upgrading testwork.

The process known as Dense Media Separation (DMS) is a very cheap and simple method to pre-concentrate ore prior to mill processing. A detailed summary of the results is contained in Tables 1 and 2. The DMS process is a widely accepted process used in numerous operations such as Mount Isa.

The upgrade of 100% is considered to be an exceptional result and has the potential to:

- **Radically reduce the capital costs of the processing plant** - *a smaller processing plant treating upgraded feed can produce the same metal production as a far larger plant treating un-concentrated feed*
- **Reduce the operating costs** – *the gravity upgrade is observed at a coarse crush size and is very cost effective. The amount of material that would require a grind and float could be effectively halved*
- **Reduce the tailings dam requirements** – *with half the volume of ore ground and floated the tailings dams can be reduced in size and in the case of Citronen may be pumped underground with water into the permafrost environment to freeze and form backfill neutralizing any environmental impact of sulphide waste*
- **Increase potential ore reserve** – *surface material that would previously have been discarded as waste in open pit operations may be upgraded and treated as medium grade material*

The Citronen base metal project (Citronen) ore zones, particularly at the Discovery and Beach Zones are characterised by distinct bands of high grade and heavy zinc/lead material separated by bands of lighter barren waste material – see Figures 1 and 2. Examples of crushed material separated by weight following the DMS treatment are shown in Figures 3 and 4.

Further testwork is required across various ore zones and to optimise the crush size to minimise the amount of material that is too fine to treat by DMS (less than 1mm) which would otherwise be directed to the standard grind and float circuit for conventional treatment.

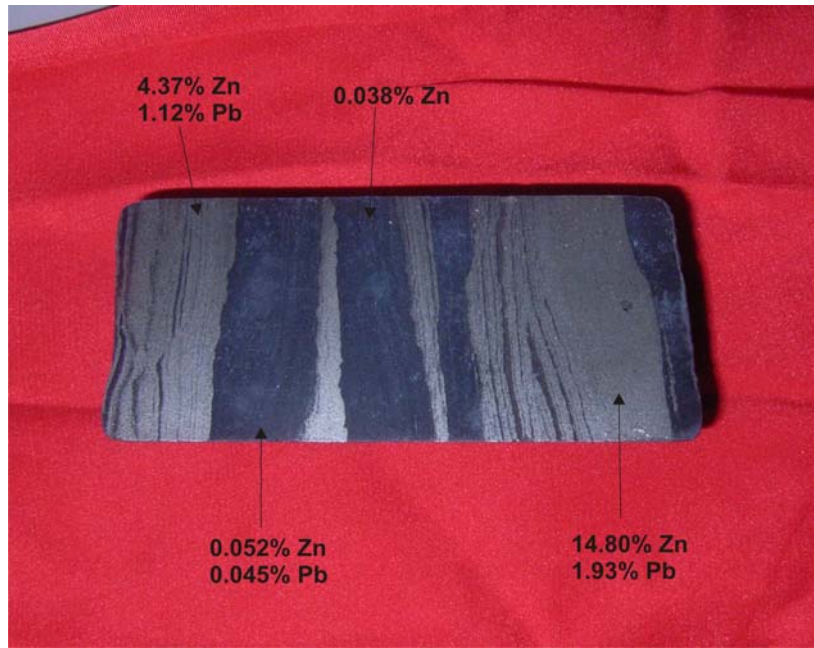


Figure 1



Figure 2

Further DMS testing will be conducted as a matter of priority and will be investigated as a part of the feasibility studies as the project is progressed.

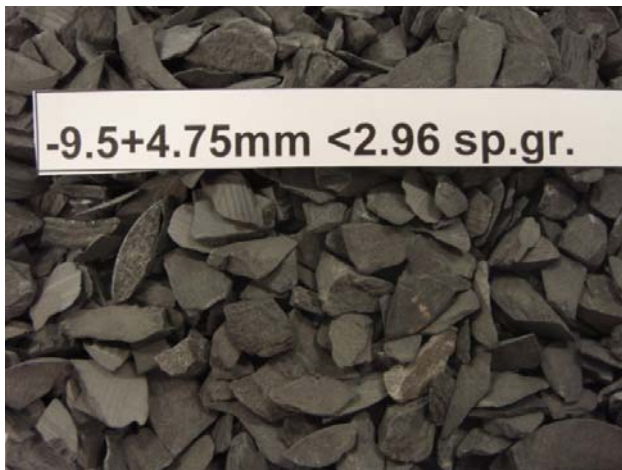


Figure 3



Figure 4



The sample of test material submitted for DMS testing is considered representative of the Beach Zone, see Figure 1, which is likely to be targeted as early mine feed.

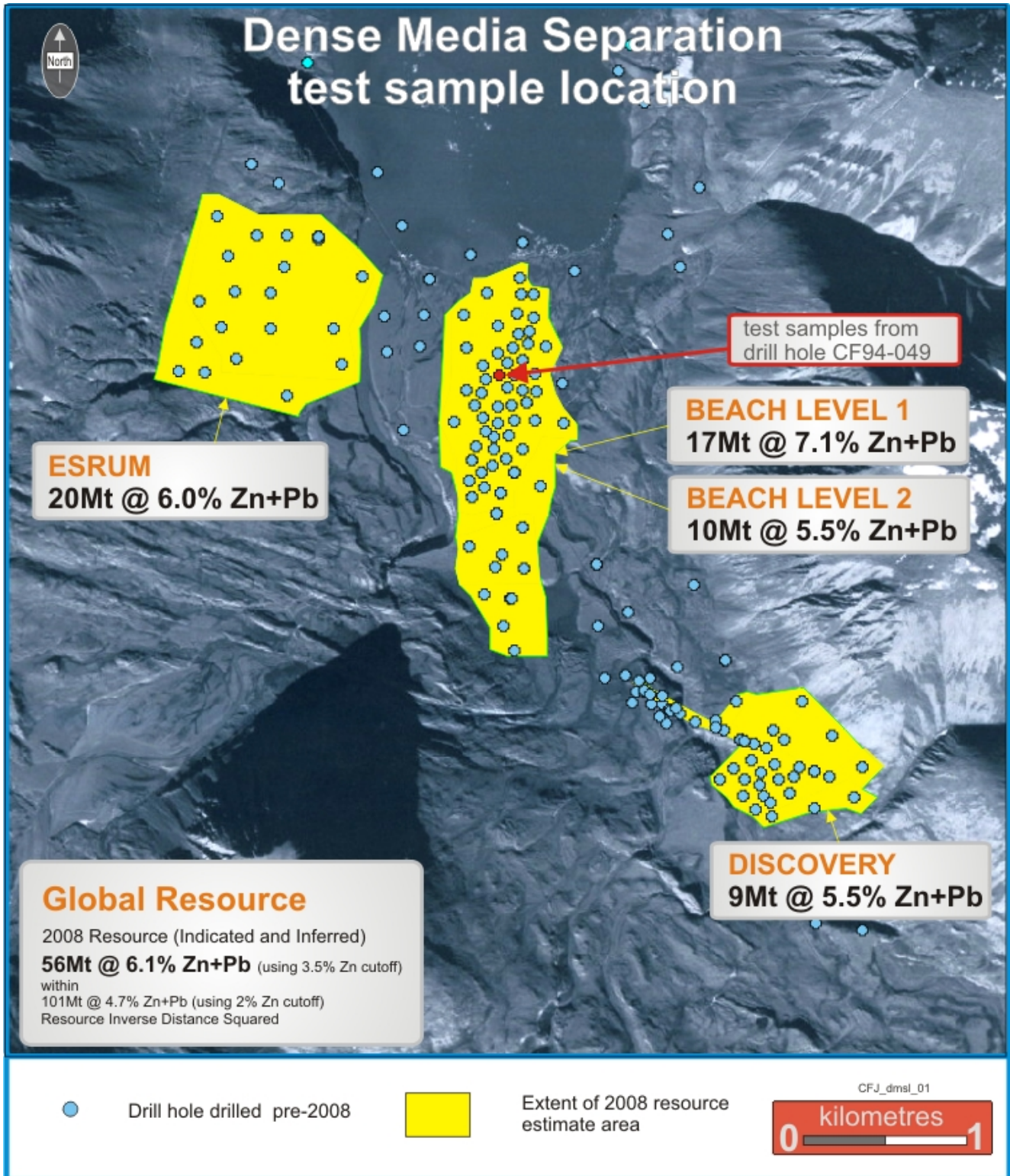


Figure 5

## About the Citronen Zinc Project

Ironbark is a well funded Company that is listed on the Australian Securities Exchange (ASX:IBG) and specialises in base metal exploration and development in Greenland and Australia.

Ironbark seeks to build shareholder value through exploration and development of its projects and also seeks to actively expand the project base controlled by Ironbark. The management and board of Ironbark have extensive technical and corporate experience in the minerals sector.

Ironbark's key focus is the Citronen Zinc-Lead deposit in Northern Greenland.

The current JORC compliant resource for Citronen (November 2008) is detailed as follows:

### 101.7 million tonnes at 4.7% zinc (Zn) + lead (Pb)

Indicated resource of 50.2Mt @ 4.2 % Zn and 0.5% Pb
Inferred resources of 51.5Mt @ 3.8 % Zn and 0.6% Pb

*Using Ordinary Kriging interpolation and reported at a 2% Zn cut-off*

This resource contains higher grade resources as detailed shown below:

### 22.6 million tonnes at 8.2% zinc (Zn) + lead (Pb)

Indicated resource of 13.4Mt @ 7.8 % Zn and 0.7% Pb
Inferred resources of 8.2Mt @ 7.1 % Zn and 0.7% Pb

*Using inverse distance squared ( $ID^2$ ) interpolation and reported at a 5% Zn cut-off*

### 55.8 million tonnes at 6.1% zinc (Zn) + lead (Pb)

Indicated resource of 29.9Mt @ 5.8 % Zn and 0.6% Pb
Inferred resources of 25.9Mt @ 5.0 % Zn and 0.7% Pb

*Using inverse distance squared ( $ID^2$ ) interpolation and reported at a 3.5% Zn cut-off*

*The information in this report that relates to Exploration Results, Mineral Resources or Ore Reserves is based on information compiled by Mr A Byass, B.Sc Hons (Geol), B.Econ, FSEG, MAIG an employee of Ironbark Gold Limited. Mr Byass has sufficient experience that is relevant to the style of mineralisation and type of deposit under consideration and to the activity which he is undertaking to qualify as a Competent Person as defined in the 2004 Edition of the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves. Mr Byass consents to the inclusion in the report of the matters based on this information in the form and context in which it appear.*

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Table 1. Assays of Separation Products

Size Fraction (mm)	Sp. Gr. Product	Sample	Assays (Wt. %)													
		Wt. (g)	Zn	Pb	S	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	MnO	MgO	CaO	K <sub>2</sub> O	Na <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	LOI
-38+19	<2.96	423.02	0.04	0.02	0.13	44.8	0.58	12.1	3.63	0.09	6.76	10.6	4.42	0.07	0.1	17.2
	2.96-3.32	67.59	6.18	0.24	11.7	17.8	0.215	4.67	12	0.1	3.2	22.6	1.78	0.04	0.03	16.9
	>3.32	509.99	8.08	2.96	31.1	4.4	0.04	0.9	35.2	0.06	1.38	13	0.34	0.03	0.005	23.5
	Total	1000.6	4.55	1.53	16.70	22.38	0.28	5.89	20.29	0.08	3.78	12.63	2.16	0.05	0.05	20.39
	Initial Wt.	1000.67														
-19+9.5	<2.96	552.41	0.485	0.045	1.21	42.2	0.58	11.9	4.45	0.09	6.49	11	4.45	0.07	0.1	17.9
	2.96-3.32	98.33	4.015	0.275	13.5	14.1	0.16	3.41	15.2	0.11	2.21	25.4	1.27	0.03	0.02	16.3
	>3.32	349.42	8.51	0.69	34.8	3.12	0.03	0.76	40.1	0.05	1.62	10.3	0.28	0.03	0.005	25.3
	Total	1000.16	3.64	0.29	14.15	25.78	0.35	7.17	17.96	0.08	4.37	12.17	2.68	0.05	0.06	20.33
	Initial Wt.	1000.64														
-9.5+4.75	<2.96	219.71	0.305	0.06	0.82	42.3	0.565	11.5	3.93	0.09	6.45	12.6	4.27	0.07	0.11	18.5
	2.96-3.32	43.277	4.83	0.325	12.3	23.4	0.31	6.54	13.9	0.09	3.8	17.3	2.43	0.04	0.05	21.7
	>3.32	236.45	13.0	0.92	32.5	5.72	0.05	1.34	35.2	0.05	1.66	8.82	0.48	0.05	0.005	24.4
	Total	499.437	6.71	0.49	16.81	23.34	0.30	6.26	19.60	0.07	3.95	11.22	2.32	0.06	0.06	21.57
	Initial Wt.	500.07														
-4.75+2	<2.96	172.32	0.385	0.05	0.9	41.8	0.565	11.5	3.96	0.09	6.42	12.7	4.31	0.07	0.12	18.6
	2.96-3.32	30.9	4.97	0.33	12.4	21.1	0.245	5.18	14.4	0.11	3.78	19.2	1.96	0.04	0.11	20.5
	>3.32	171	13.0	0.99	32.3	5.31	0.055	1.3	34.9	0.05	1.6	9.19	0.48	0.03	0.005	23.6
	Total	374.22	6.53	0.50	16.20	23.42	0.31	6.32	18.96	0.07	4.00	11.63	2.37	0.05	0.07	21.04
	Initial Wt.	375.06														
-2+1	<2.96	115.77	0.285	0.045	0.67	41.7	0.565	11.4	3.75	0.09	6.45	12.6	4.26	0.07	0.21	18.5
	2.96-3.32	19.855	4.965	0.36	13	21.2	0.245	5.11	15.3	0.12	4.06	18.5	1.92	0.05	0.36	23.2
	>3.32	113.57	12.8	0.96	33.6	5.03	0.045	1.15	37	0.06	1.62	8.5	0.42	0.04	0.01	24.9
	Total	249.195	6.36	0.49	16.66	23.35	0.30	6.23	19.82	0.08	4.06	11.20	2.32	0.05	0.13	21.79
	Initial Wt.	250.13														

Table 2. Element Distributions with Specific Gravity in Size Fraction

Size Fraction (mm)	Sp. Gr. Product	Sample	Distribution (%)													
		Wt. %	Zn	Pb	S	SiO <sub>2</sub>	TiO <sub>2</sub>	Al <sub>2</sub> O <sub>3</sub>	Fe <sub>2</sub> O <sub>3</sub>	MnO	MgO	CaO	K <sub>2</sub> O	Na <sub>2</sub> O	P <sub>2</sub> O <sub>5</sub>	LOI
-38+19	<2.96	42.28	0.37	0.55	0.33	84.61	87.54	86.86	7.56	50.47	75.66	35.47	86.42	62.19	90.24	35.66
	2.96-3.32	6.75	9.17	1.06	4.73	5.37	5.18	5.36	4.00	8.96	5.72	12.08	5.56	5.68	4.33	5.60
	>3.32	50.97	90.46	98.39	94.94	10.02	7.28	7.79	88.44	40.57	18.62	52.45	8.01	32.13	5.44	58.74
	Total	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
-19+9.5	<2.96	55.23	7.37	8.48	4.72	90.40	92.44	91.63	13.68	63.74	82.07	49.92	91.69	74.22	93.70	48.64
	2.96-3.32	9.83	10.86	9.23	9.38	5.38	4.54	4.67	8.32	13.87	4.97	20.52	4.66	5.66	3.34	7.88
	>3.32	34.94	81.77	82.29	85.90	4.23	3.02	3.70	78.00	22.40	12.96	29.57	3.65	20.12	2.96	43.48
	Total	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
-9.5+4.75	<2.96	43.99	2.00	5.39	2.15	79.71	83.10	80.81	8.82	55.71	71.79	49.41	81.10	53.16	87.84	37.73
	2.96-3.32	8.67	6.24	5.75	6.34	8.69	8.98	9.05	6.15	10.97	8.33	13.36	9.09	5.98	7.86	8.72
	>3.32	47.34	91.76	88.87	91.52	11.60	7.91	10.13	85.03	33.31	19.88	37.22	9.81	40.86	4.30	53.55
	Total	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
-4.75+2	<2.96	46.05	2.72	4.58	2.56	82.20	85.15	83.83	9.62	56.48	73.92	50.27	83.89	65.46	82.94	40.70
	2.96-3.32	8.26	6.29	5.42	6.32	7.44	6.62	6.77	6.27	12.38	7.80	13.63	6.84	6.71	13.63	8.04
	>3.32	45.70	91.00	90.00	91.12	10.36	8.23	9.40	84.11	31.14	18.28	36.10	9.27	27.84	3.43	51.25
	Total	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
-2+1	<2.96	46.46	2.08	4.29	1.87	82.95	86.77	85.05	8.79	53.12	73.84	52.26	85.18	59.42	74.59	39.44
	2.96-3.32	7.97	6.22	5.89	6.22	7.23	6.45	6.54	6.15	12.15	7.97	13.16	6.58	7.28	21.93	8.48
	>3.32	45.57	91.70	89.82	91.91	9.82	6.78	8.42	85.06	34.74	18.19	34.58	8.24	33.31	3.48	52.08
	Total	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00