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Laboratory Data Report

Client Information

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Data-File Information

Date: February 23, 2023

Project name:

ODM batch number:

2847

Sample numbers:

AER22TS-1042, AER22TS-1092, AER22TS-2018, AER22TS-2019,
AER22TS-3097, AER22TS-3099, AER22TS-4019, AER22TS-4057,
AER22TS-5074, AERHL225053, AERHL225095, AERHL225099,
AERHL225118, AERSR221002, AERSR221063, AERSR221066,
AERSR221067, AERSR221068, AERSR221070, AERSR221074,
AERSR223023, AERSR223024, AERSR223039, AERSR223040,
AERSR223046, AERSR223079, AERSR223082

Data file: 20232820 - AER - Alberta Geological Survey - (KIM, MMISM) - Jan 2023

Number of samples in this report: 27

Number of samples processed to date: 165

Total number of samples in project: 299

Preliminary data:

☐

Final data:

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Revised data:

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Samples Processed For:

Gold, KIM, MMSIM, Apatite

Processing Specifications:

1. Submitted by client: Till and sand/gravel samples mostly prescreened to -2.0 mm in the field.
2. One ± 300 g archival split taken from each sample.
3. All samples panned for gold, PGMs and fine-grained metallic indicator minerals.
4. +0.25 mm table concentrates refined by heavy liquid separation at S.G. 3.0 and 3.2 to obtain mid-density and heavy mineral concentrates (MDCs and HMCs).
5. Nonferromagnetic mineral fractions of 0.25-2.0 mm MDCs and HMCs picked for apatite and indicator minerals.
6. 1.0-2.0 mm, 0.5-1.0 mm and nonparamagnetic (>1.0 amp) 0.25-0.5 mm HMC fractions examined for scheelite by UV lamping.

Notes

Mike Crawford
Laboratory Manager

Primary Sample Processing Weights and Descriptions

Client: Alberta Geological Survey

File Name: 20232820 - AER - Alberta Geological Survey - (KIM, MMISM) - Jan 2023

Total Number of Samples in this Report: 27

ODM Batch Number(s): 2847

Sample Number	Weight (kg wet)					Screening and Shaking Table Sample Descriptions													Class
						Clasts (+2.0 mm)					Matrix (-2.0 mm)					Colour			
											Percentage								
	Bulk Rec'd	Archived Split	Table Split	+2.0 mm Clasts	-2.0 mm Table Feed	Size	V/S	GR	LS	OT*	S/U	SD	ST	CY	ORG	SD	CY		
AER22TS-1042	9.4	0.3	9.1	0.3	8.8	P	60	10	30	TR	U	-	Y	+	N	OC	OC	TILL	
AER22TS-1092	10.1	0.3	9.8	0.2	9.6	P	110	0	TR	TR	U	-	Y	+	N	OC	OC	TILL	
AER22TS-2018	12.8	0.3	12.5	0.5	12.0	P	50	50	TR	TR	U	-	Y	+	N	OC	OC	TILL	
AER22TS-2019	9.8	0.3	9.5	0.3	9.2	P	20	20	60	TR	U	-	Y	+	N	OC	PK	TILL	
AER22TS-3097	9.5	0.3	9.2	0.0	9.2		No Clasts				U	-	-	+	N	LOC	LOC	TILL	
AER22TS-3099	10.2	0.3	9.9	1.5	8.4	P	100	0	0	TR	U	-	Y	+	N	OC	DOC	TILL	
AER22TS-4019	16.2	0.3	15.9	0.0	15.9		No Clasts				U	-	-	+	N	DOC	DOC	TILL	
AER22TS-4057	16.5	0.3	16.2	0.4	15.8	P	75	20	5	TR	U	-	Y	+	N	OC	OC	TILL	
AER22TS-5074	16.0	0.3	15.7	1.0	14.7	P	80	10	0	10	U	-	Y	+	N	OC	OC	TILL	
AERHL225053	10.2	0.3	9.9	0.0	9.9		No Clasts				S	FM	-	N	N	OC	NA	SAND + GRAVEL	
AERHL225095	10.2	0.3	9.9	0.0	9.9		No Clasts				S	MC	-	N	N	OC	NA	SAND + GRAVEL	
AERHL225099	7.7	0.3	7.4	0.0	7.4		No Clasts				S	FM	-	N	N	DOC	NA	SAND + GRAVEL	
AERHL225118	11.2	0.3	10.9	0.0	10.9		No Clasts				S	MC	-	N	N	DOC	NA	SAND + GRAVEL	
AERSR221002	9.3	0.3	9.0	0.1	8.9	P	100	0	0	0	S	FM	-	N	N	DOC	NA	SAND + GRAVEL	
AERSR221063	8.3	0.3	8.0	0.1	7.9	P	100	0	0	0	S	FM	-	N	N	GY	NA	SAND + GRAVEL	
AERSR221066	12.5	0.3	12.2	0.0	12.2		No Clasts				S	FM	-	N	N	OC	NA	SAND + GRAVEL	
AERSR221067	9.4	0.3	9.1	0.0	9.1		No Clasts				S	FM	-	N	N	DOC	NA	SAND + GRAVEL	
AERSR221068	10.0	0.3	9.7	0.0	9.7		No Clasts				S	FM	-	N	N	DOC	NA	SAND + GRAVEL	
AERSR221070	9.9	0.3	9.6	0.0	9.6		No Clasts				S	FM	-	N	N	DOC	NA	SAND + GRAVEL	
AERSR221074	9.7	0.3	9.4	0.0	9.4		No Clasts				S	FM	-	N	N	DOC	NA	SAND + GRAVEL	
AERSR223023	11.3	0.3	11.0	0.0	11.0		No Clasts				S	FM	N	N	N	DOC	NA	SAND + GRAVEL	
AERSR223024	9.0	0.3	8.7	0.0	8.7		No Clasts				S	FM	N	N	N	DOC	NA	SAND + GRAVEL	
AERSR223039	9.3	0.3	9.0	0.0	9.0		No Clasts				S	FM	N	N	N	DOC	NA	SAND + GRAVEL	
AERSR223040	10.8	0.3	10.5	0.0	10.5		No Clasts				S	FM	N	N	N	DOC	NA	SAND + GRAVEL	
AERSR223046	7.9	0.3	7.6	0.0	7.6		No Clasts				S	MC	N	N	N	DOC	NA	SAND + GRAVEL	
AERSR223079	11.8	0.3	11.5	0.0	11.5		No Clasts				S	FM	-	N	Y	GY	NA	SAND + GRAVEL	
AERSR223082	11.1	0.3	10.8	0.0	10.8		No Clasts				S	MC	-	N	N	DOC	NA	SAND + GRAVEL	
*Clasts listed as OT are Quartz.																			

*Clasts listed as OT are Quartz.

Gold Grain Summary

Client: Alberta Geological Survey

File Name: 20232820 - AER - Alberta Geological Survey - (KIM, MMISM) - Jan 2023

Total Number of Samples in this Report: 27

ODM Batch Number(s): 2847

Sample Number	Number of Visible Gold Grains				Nonmag HMC Weight*	Calculated PPB Visible Gold in HMC			
	Total	Reshaped	Modified	Pristine		Total	Reshaped	Modified	Pristine
AER22TS-1042	0	0	0	0	35.2	0	0	0	0
AER22TS-1092	3	2	1	0	38.4	10	8	2	0
AER22TS-2018	2	2	0	0	48.0	9	9	0	0
AER22TS-2019	0	0	0	0	36.8	0	0	0	0
AER22TS-3097	1	0	1	0	36.8	17	0	17	0
AER22TS-3099	0	0	0	0	33.6	0	0	0	0
AER22TS-4019	1	1	0	0	63.6	6	6	0	0
AER22TS-4057	2	1	1	0	63.2	6	6	<1	0
AER22TS-5074	0	0	0	0	58.8	0	0	0	0
AERHL225053	1	1	0	0	39.6	2	2	0	0
AERHL225095	0	0	0	0	39.6	0	0	0	0
AERHL225099	0	0	0	0	29.6	0	0	0	0
AERHL225118	1	1	0	0	43.6	48	48	0	0
AERSR221002	0	0	0	0	35.6	0	0	0	0
AERSR221063	1	1	0	0	31.6	18	18	0	0
AERSR221066	3	2	1	0	48.8	45	15	30	0
AERSR221067	0	0	0	0	36.4	0	0	0	0
AERSR221068	0	0	0	0	38.8	0	0	0	0
AERSR221070	0	0	0	0	38.4	0	0	0	0
AERSR221074	0	0	0	0	37.6	0	0	0	0
AERSR223023	0	0	0	0	44.0	0	0	0	0
AERSR223024	0	0	0	0	34.8	0	0	0	0
AERSR223039	0	0	0	0	36.0	0	0	0	0
AERSR223040	0	0	0	0	42.0	0	0	0	0
AERSR223046	0	0	0	0	30.4	0	0	0	0
AERSR223079	1	1	0	0	46.0	4	4	0	0
AERSR223082	0	0	0	0	43.2	0	0	0	0

* Calculated PPB Au based on assumed nonmagnetic HMC weight equivalent to 0.4% of the table feed.

Detailed Gold Grain Data

Client: Alberta Geological Survey

File Name: 20232820 - AER - Alberta Geological Survey - (KIM, MMISM) - Jan 2023

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ODM Batch Number(s): 2847

Sample Number	Dimensions (µm)			Number of Visible Gold Grains				Nonmag HMC Weight* (g)	Calculated V.G. Assay in HMC (ppb)	Metallic Minerals in Pan Concentrate
	Thickness	Width	Length	Reshaped	Modified	Pristine	Total			
AER22TS-1042	No Visible Gold									No sulphides.
AER22TS-1092	8	C	25	50	1	1	2		4	Tr (~100 grains) marcasite (25-50 µm).
	13	C	25	100	1		1		6	
							3	38.4	10	
AER22TS-2018	8	C	25	50	1		1		2	Tr (~20,000 grains) marcasite (25-50 µm).
	13	C	50	75	1		1		7	
							2	48.0	9	
AER22TS-2019	No Visible Gold									Tr (~100 grains) marcasite (25-50 µm).
AER22TS-3097	15	C	75	75		1	1		17	No sulphides.
							1	36.8	17	
AER22TS-3099	No Visible Gold									Tr (~300 grains) marcasite (25-75 µm).
AER22TS-4019	13	C	50	75	1		1		6	Tr (~20 grains) marcasite (25 µm).
							1	63.6	6	
AER22TS-4057	5	C	25	25		1	1		<1	No sulphides.
	13	C	50	75	1		1		6	
							2	63.2	6	
AER22TS-5074	No Visible Gold									No sulphides.
AERHL225053	8	C	25	50	1		1		2	Tr (~100 grains) marcasite (25 µm).
							1	39.6	2	
AERHL225095	No Visible Gold									Tr (~50 grains) marcasite (25-50 µm).
AERHL225099	No Visible Gold									Tr (~50 grains) pyrite (25-100 µm).
										Tr (~200 grains) marcasite (25-75 µm).
AERHL225118	22	C	100	125	1		1		48	Tr (~3000 grains) marcasite (25-50 µm).
							1	43.6	48	
AERSR221002	No Visible Gold									No sulphides.
AERSR221063	15	C	50	100	1		1		18	Tr (~2000 grains) marcasite (25-50 µm).
							1	31.6	18	
AERSR221066	13	C	50	75	2		2		15	Tr (~20 grains) marcasite (25 µm).
	22	C	50	175		1	1		30	
							3	48.8	45	
AERSR221067	No Visible Gold									Tr (~2000 grains) marcasite (25-50 µm).
AERSR221068	No Visible Gold									Tr (~20 grains) marcasite (25 µm).
AERSR221070	No Visible Gold									Tr (~100 grains) marcasite (25-50 µm).

* Calculated PPB Au based on assumed nonmagnetic HMC weight equivalent to 0.4% of the table feed.

Detailed Gold Grain Data

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ODM Batch Number(s): 2847

Sample Number	Dimensions (µm)			Number of Visible Gold Grains				Nonmag HMC Weight* (g)	Calculated V.G. Assay in HMC (ppb)	Metallic Minerals in Pan Concentrate	
	Thickness	Width	Length	Reshaped	Modified	Pristine	Total				
AERSR221074	No Visible Gold										Tr (~4000 grains) marcasite (25-50 µm).
AERSR223023	No Visible Gold										No sulphides.
AERSR223024	No Visible Gold										No sulphides.
AERSR223039	No Visible Gold										Tr (~200 grains) marcasite (25-50 µm).
AERSR223040	No Visible Gold										No sulphides.
AERSR223046	No Visible Gold										No sulphides.
AERSR223079	10	C	50	50	1			1 1	4 46.0	No sulphides.	
AERSR223082	No Visible Gold										No sulphides.

* Calculated PPB Au based on assumed nonmagnetic HMC weight equivalent to 0.4% of the table feed.

Heavy Mineral Concentrate Processing Weights

Client: Alberta Geological Survey

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ODM Batch Number(s): 2847

Sample Number	Weight of -2.0 mm Table Concentrate (g)															
	Total	-0.25 mm	0.25-2.0 mm Heavy Liquid Separation at S.G. 3.0 and 3.2													
			Total	Lights S.G. <3.0	Total S.G. >3.0 HMC	-0.25 mm (wash)	Mag HMC	S.G. 3.0 to 3.2 Total	Nonferromagnetic Fractions							
									Total	S.G. >3.2						
										Processed Split				0.25 to 0.5	0.5 to 1.0 mm	1.0 to 2.0 mm
										Total	%	Weight				
AER22TS-1042	850.5	517.3	333.2	328.7	4.5	1.1	0.1	1.3	2.0	100.0	2.0	0.9	0.6	0.5		
AER22TS-1092	678.1	587.7	90.4	89.2	1.2	0.8	0.01	0.1	0.3	100.0	0.3	0.2	0.08	0.02		
AER22TS-2018	492.6	377.5	115.1	103.4	11.7	3.1	0.4	1.5	6.7	100.0	6.7	3.5	2.0	1.2		
AER22TS-2019	902.0	553.0	349.0	343.6	5.4	1.5	0.5	1.6	1.8	100.0	1.8	1.0	0.5	0.3		
AER22TS-3097	418.6	383.6	35.0	34.9	0.1	0.0	0.01	0.03	0.04	100.0	0.04	0.04	0.0	0.0		
AER22TS-3099	428.7	346.3	82.4	80.0	2.4	0.4	0.01	0.9	1.1	100.0	1.1	0.5	0.3	0.3		
AER22TS-4019	195.5	177.1	18.4	18.2	0.2	0.1	<0.01	0.03	0.03	100.0	0.03	0.03	0.0	0.0		
AER22TS-4057	1105.7	646.8	458.9	451.2	7.7	2.0	0.2	2.0	3.5	100.0	3.5	2.3	0.8	0.4		
AER22TS-5074	663.8	518.4	145.4	136.5	8.9	2.4	0.3	1.7	4.5	100.0	4.5	3.1	1.2	0.2		
AERHL225053	752.7	355.2	397.5	371.2	26.3	5.6	1.9	4.7	14.1	100.0	14.1	10.9	2.5	0.7		
AERHL225095	911.1	426.7	484.4	431.0	53.4	11.6	3.0	5.2	33.6	59.5	20.0	17.0	2.6	0.4		
AERHL225099	515.6	93.5	422.1	389.7	32.4	17.5	1.1	4.6	9.2	100.0	9.2	6.8	1.7	0.7		
AERHL225118	620.7	165.1	455.6	383.4	72.2	28.4	2.5	12.3	29.0	69.0	20.0	10.7	7.7	1.6		
AERSR221002	653.4	149.1	504.3	447.1	57.2	13.5	1.7	5.3	36.7	54.5	20.0	8.6	7.3	4.1		
AERSR221063	618.9	153.1	465.8	438.9	26.9	9.1	0.7	3.1	14.0	100.0	14.0	6.4	5.1	2.5		
AERSR221066	499.5	203.6	295.9	294.4	1.5	0.7	0.01	0.6	0.2	100.0	0.2	0.2	0.02	0.02		
AERSR221067	521.6	155.1	366.5	351.7	14.8	4.7	0.04	1.4	8.7	100.0	8.7	3.7	3.7	1.3		
AERSR221068	470.9	399.2	71.7	60.6	11.1	1.8	0.3	3.2	5.8	100.0	5.8	2.5	2.4	0.9		
AERSR221070	928.8	582.9	345.9	284.8	61.1	10.3	1.6	7.5	41.7	48.0	20.0	14.4	4.9	0.7		
AERSR221074	863.4	337.1	526.3	517.4	8.9	1.7	1.4	3.2	2.6	100.0	2.6	1.1	0.9	0.6		
AERSR223023	707.4	527.2	180.2	155.9	24.3	3.4	0.70	2.8	17.4	100.0	17.4	9.7	6.5	1.2		
AERSR223024	641.1	293.3	347.8	310.1	37.7	4.5	1.10	3.3	28.8	69.4	20.0	6.0	8.9	5.1		
AERSR223039	565.9	447.1	118.8	102.5	16.3	4.3	0.10	3.5	8.4	100.0	8.4	3.1	3.9	1.4		
AERSR223040	627.4	415.4	212.0	209.8	2.2	0.8	<0.01	0.8	0.6	100.0	0.6	0.3	0.2	0.1		
AERSR223046	641.1	500.8	140.3	135.6	4.7	0.6	<0.01	1.2	2.9	100.0	2.9	0.4	1.2	1.3		
AERSR223079	1015.5	815.7	199.8	199.4	0.4	0.1	<0.01	0.2	0.1	100.0	0.1	0.1	0.02	<0.01		
AERSR223082	674.8	523.8	151.0	142.5	8.5	1.7	<0.01	2.2	4.6	100.0	4.6	1.4	2.2	1.0		

0.25-0.5 mm Paramagnetic/Non-Paramagnetic Fraction Weights

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Sample Number	Weight of 0.25-0.5 mm S.G. >3.2 Nonferromagnetic Heavy Mineral Fractions (g)					
	Total	Paramagnetic			Nonparamagnetic	
		Strongly (<0.6 amp)	Moderately (0.6-0.8 amp)	Weakly (0.8-1.0 amp)	>1.0 amp	>1.0 amp Lights*
AER22TS-1042	0.90	0.05	0.34	0.42	0.08	0.01
AER22TS-1092	0.22	0.01	0.04	0.16	0.01	NA
AER22TS-2018	3.48	0.08	0.61	0.79	1.98	0.02
AER22TS-2019	1.03	0.08	0.46	0.40	0.09	0.00
AER22TS-3097	0.04	Undersized concentrate therefore not electromagnetically separated.				
AER22TS-3099	0.46	0.01	0.02	0.42	0.01	NA
AER22TS-4019	0.03	Undersized concentrate therefore not electromagnetically separated.				
AER22TS-4057	2.32	0.11	1.64	0.48	0.08	0.01
AER22TS-5074	3.13	0.04	0.55	2.24	0.28	0.02
AERHL225053	10.91	1.70	5.76	1.68	1.72	0.05
AERHL225095	16.98	3.90	10.04	1.36	1.65	0.03
AERHL225099	6.83	0.57	4.30	1.34	0.59	0.03
AERHL225118	10.68	1.22	4.91	1.95	2.57	0.03
AERSR221002	8.60	0.42	5.05	2.83	0.29	0.01
AERSR221063	6.43	0.46	3.22	1.59	1.15	0.01
AERSR221066	0.16	0.02	0.08	0.02	0.03	0.01
AERSR221067	3.73	0.02	0.07	1.82	1.81	0.01
AERSR221068	2.49	0.19	1.18	0.98	0.13	0.01
AERSR221070	14.44	3.63	9.33	1.04	0.42	0.02
AERSR221074	1.04	0.09	0.17	0.51	0.26	0.01
AERSR223023	9.67	1.28	5.05	3.16	0.18	<0.01
AERSR223024	5.97	0.19	2.98	2.73	0.07	<0.01
AERSR223039	3.09	<0.01	0.21	1.96	0.91	0.01
AERSR223040	0.30	<0.01	0.03	0.25	0.02	NA
AERSR223046	0.43	0.01	0.07	0.32	0.03	NA
AERSR223079	0.09	0.01	0.04	0.02	0.02	NA
AERSR223082	1.39	<0.01	0.05	1.19	0.14	0.01

*SG <3.20 heavy liquid separation clean-up of >1.0 amp fraction.

Metamorphosed/Magmatic Massive Sulphide Indicator Mineral (MMSIM) Counts

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Sample Number	Gold Grains	0.25 to 0.5 mm Nonferromagnetic Heavy Mineral Fraction																			Remarks	Picked Grains			
		Sulphide/Arsenide + Related Minerals				Mg/Mn/Al/Cr Minerals																			
		>1.0 amp			<1.0	>1.0 amp								<1.0 amp									>1.0 amp		
		% Cpy	Misc. Prime MMSIMs	% Pyrite	% Goethite	# Grains + Colour Spinel	Misc. Prime MMSIMs*	% Red Rutile	% Ky	% Sil	% Tm	% St	% Sps	Olivine		% Opx	% Cr*	Phosphates		% REE Bearing Minerals					
												% Fo*	% Fay			% Ap	% Mz								
AER22TS-1042	0	0	75 barite (~600 gr)	0	12 (~1000 gr)	0	0	0.5 (4 gr)	3 (~25 gr)	0	Tr (1 gr)	0.5 (4 gr)	0	0	0	0	0	1 (7 gr)	0.5 (4 gr)	0	Almandine-hematite/barite assemblage. 0.5-1.0 mm fraction contains 4% (~30 grains) barite.	1.0-2.0 mm fraction: 2 barite 0.5-1.0 mm fraction: 10 representative barite 0.25-0.5 mm fraction: 10 representative barite 4 red rutile 1 tourmaline 7 apatite 4 monazite			
AER22TS-1092	0	0	20 barite (~20 gr)	0	60 (~1200 gr)	0	0	1 (1 gr)	5 (5 gr)	0	0	0	0	0	0	0	0	0	0	0	Goethite-hematite/leucoxene-barite assemblage.	0.25-0.5 mm fraction: 10 representative barite 1 red rutile			
AER22TS-2018	0	0	Tr sphalerite (16 gr); 1 barite (~200 gr)	95 (20,000 gr)	5 (~900 gr)	0	0	0	1 (~200 gr)	Tr (5 gr)	0	0	0	0	0	0	0	Tr (3 gr)	0	Tr florencite (1 gr)	Almandine-hornblende/marcasite assemblage. 0.5-1.0 mm fraction contains 0.5% (~15 grains) barite.	0.5-1.0 mm fraction: 10 representative barite 0.25-0.5 mm fraction: 16 sphalerite 10 representative barite 3 apatite 1 florencite			
AER22TS-2019	0	0	70 barite (~600 gr); 0.2 fluorite (2 gr)	15 (~120 gr)	25 (~2500 gr)	0	0	Tr (2 gr)	0	0	0	0	0	0	0	0	0	0	Tr (1 gr)	0	Almandine-goethite-hornblende-augite/barite-marcasite assemblage. 0.5-1.0 mm fraction contains 10% (~60 grains) barite.	1.0-2.0 mm fraction: 6 barite 0.5-1.0 mm fraction: 10 representative barite 0.25-0.5 mm fraction: 10 representative barite 2 fluorite 2 red rutile 1 monazite			

*Low-Cr diopside, forsteritic olivine and chromite are referenced on KIM data.

Metamorphosed/Magmatic Massive Sulphide Indicator Mineral (MMSIM) Counts

Client: Alberta Geological Survey
File Name: 20232820 - AER - Alberta Geological Survey - (KIM, MMISM) - Jan 2023
Total Number of Samples in this Report: 27
ODM Batch Number(s): 2847

Sample Number	Gold Grains	0.25 to 0.5 mm Nonferromagnetic Heavy Mineral Fraction																			Remarks	Picked Grains
		Sulphide/Arsenide + Related Minerals				Mg/Mn/Al/Cr Minerals																
		>1.0 amp			<1.0	>1.0 amp							<1.0 amp				>1.0 amp					
		% Cpy	Misc. Prime MMSIMs	% Pyrite	% Goethite	# Grains + Colour Spinel	Misc. Prime MMSIMs*	% Red Rutile	% Ky	% Sil	% Tm	% St	% Sps	Olivine		% Opx	% Cr*	Phosphates		% REE Bearing Minerals		
% Fo*	% Fay													% Ap	% Mz							
AER22TS-3097	0	0	0	0.8 (3 gr)	40 (~150 gr)	0	0	0	0.5 (2 gr)	0	0	0	0	0	0	0	0	0	0	0	Undersized concentrate therefore not electromagnetically separated and mineral assemblage not listed. Main minerals are goethite, almandine and hornblende.	
AER22TS-3099	0	0	0	2 (2 gr)	95 (~4000 gr)	0	0	0	1 (1 gr)	0	0	0	0	0	0	0	0	0	0	0	Goethite/epidote-leucoxene assemblage.	
AER22TS-4019	0	0	0	0	97 (~300 gr)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Undersized concentrate therefore not electromagnetically separated and mineral assemblage not listed. Main mineral is goethite.	
AER22TS-4057	0	0.2 (2 gr)	0.2 barite (2 gr)	0.1 (1 gr)	12 (~2500 gr)	2 blue-grey, pink	0	1 (8 gr)	30 (~250 gr)	0.5 (5 gr)	Tr (3 gr)	0	0	0	0	0	0	1 (~10 gr)	Tr (3 gr)	Tr florencite (2 gr)	Almandine-hornblende/diopside-kyanite assemblage.	0.5-1.0 mm fraction: 1 barite 0.25-0.5 mm fraction: 2 chalcopyrite 2 barite 2 spinel 8 red rutile 3 tourmaline 3 monazite 2 florencite

*Low-Cr diopside, forsteritic olivine and chromite are referenced on KIM data.

Metamorphosed/Magmatic Massive Sulphide Indicator Mineral (MMSIM) Counts

Client: Alberta Geological Survey
File Name: 20232820 - AER - Alberta Geological Survey - (KIM, MMISM) - Jan 2023
Total Number of Samples in this Report: 27
ODM Batch Number(s): 2847

Sample Number	Gold Grains	0.25 to 0.5 mm Nonferromagnetic Heavy Mineral Fraction																			Remarks	Picked Grains
		Sulphide/Arsenide + Related Minerals				Mg/Mn/Al/Cr Minerals																
		>1.0 amp			<1.0	>1.0 amp							<1.0 amp				>1.0 amp					
		% Cpy	Misc. Prime MMSIMs	% Pyrite	% Goethite	# Grains + Colour Spinel	Misc. Prime MMSIMs*	% Red Rutile	% Ky	% Sil	% Tm	% St	% Sps	Olivine				% Cr*	Phosphates			
													% Fo*	% Fay	% Opx		% Ap	% Mz				
AER22TS-5074	0	0	20 barite (~600 gr)	0	60 (~20,000 gr)	0	0	Tr (3 gr)	15 (~500 gr)	0	0	10 (~300 gr)	0	0	0	0	0	0	0	0	Goethite-hornblende/barite-epidote-kyanite assemblage. 0.5-1.0 mm fraction contains 2% (~60 grains) barite.	0.5-1.0 mm fraction: 10 representative barite 0.25-0.5 mm fraction: 10 representative barite 3 red rutile
AERHL225053	0	0	0.2 sphalerite (~40 gr); 10 barite (~1500 gr)	60 (~10,000 gr)	1 (~1000 gr)	2 purple, green	Tr sapphire corundum (1 gr)	Tr (11 gr)	1 (~150 gr)	Tr (~10 gr)	0.5 (~80 gr)	2 (~300 gr)	0	0	0	0	0	Tr (~25 gr)	Tr (~40 gr)	Tr florencite (4 gr)	Almandine-augite-hornblende/marcasite-epidote assemblage. SEM check from 0.25-0.5 mm fraction: 1 green gahnite versus spinel candidate = 1 spinel. 0.5-1.0 mm fraction contains 5% (~150 grains) barite.	1.0-2.0 mm fraction: 1 sphalerite 5 barite 0.5-1.0 mm fraction: 11 sphalerite 10 representative barite 0.25-0.5 mm fraction: 20 representative sphalerite 10 representative barite 2 spinel 1 sapphire corundum 11 red rutile 10 representative tourmaline 5 representative monazite 4 florencite
AERHL225095	0	0	Tr sphalerite (4 gr); 70 barite (~10,000 gr)	Tr (10 gr)	0.5 (~600 gr)	0	0	Tr (2 gr)	4 (~600 gr)	0	Tr (3 gr)	Tr (~20 gr)	0	0	0	0	0	Tr (~20 gr)	0	Tr florencite (2 gr)	Almandine-hornblende/barite-epidote assemblage. 0.5-1.0 mm fractions contain 4% (~120 grains) barite.	1.0-2.0 mm fraction: 4 barite 0.5-1.0 mm fraction: 10 representative barite 0.25-0.5 mm fraction: 4 sphalerite 10 representative barite 2 red rutile 3 tourmaline 2 florencite

*Low-Cr diopside, forsteritic olivine and chromite are referenced on KIM data.

Metamorphosed/Magmatic Massive Sulphide Indicator Mineral (MMSIM) Counts

Client: Alberta Geological Survey
File Name: 20232820 - AER - Alberta Geological Survey - (KIM, MMISM) - Jan 2023
Total Number of Samples in this Report: 27
ODM Batch Number(s): 2847

Sample Number	Gold Grains	0.25 to 0.5 mm Nonferromagnetic Heavy Mineral Fraction																			Remarks	Picked Grains
		Sulphide/Arsenide + Related Minerals				Mg/Mn/Al/Cr Minerals																
		>1.0 amp			<1.0	>1.0 amp							<1.0 amp					>1.0 amp				
		% Cpy	Misc. Prime MMSIMs	% Pyrite	% Goethite	# Grains + Colour Spinel	Misc. Prime MMSIMs*	% Red Rutile	% Ky	% Sil	% Tm	% St	% Sps	Olivine		% Opx	% Cr*	Phosphates		% REE Bearing Minerals		
													% Fo*	% Fay			% Ap	% Mz				
AERHL225099	0	0	30 barite (~2000 gr)	0.5 (~40 gr)	8 (~6000 gr)	1 green gahnite; 3 spinel green, grey-green, colourless	0	Tr (2 gr)	10 (~700 gr)	0	Tr (~20 gr)	0.5 (~30 gr)	0	0	0	0	0	0.5 (~50 gr)	Tr (3 gr)	Tr (5 gr)	Almandine-hornblende/barite-epidote assemblage. SEM checks from 0.25-0.5 mm fraction: 2 green gahnite versus spinel candidates = 1 gahnite and 1 spinel. 0.5-1.0 mm fraction contains 5% (~100 grains) barite.	1.0-2.0 mm fraction: 14 barite 0.5-1.0 mm fraction: 10 representative barite 0.25-0.5 mm fraction: 10 representative barite 1 gahnite 3 spinel 2 red rutile 5 representative tourmaline 20 representative apatite 3 monazite 5 florencite
AERHL225118	0	0	80 barite (~20,000 gr)	10 (~2500 gr)	3 (~2000 gr)	0	0	0	1 (~250 gr)	0	Tr (4 gr)	Tr (10 gr)	0	0	0	0	0	Tr (2 gr)	Tr (~20 gr)	0	Almandine-ilmenite/barite assemblage. 0.5-1.0 mm fraction contains 4% (~300 grains) barite.	1.0-2.0 mm fraction: 10 barite 0.5-1.0 mm fraction: 10 representative barite 0.25-0.5 mm fraction: 10 representative barite 4 tourmaline 2 apatite 5 representative monazite
AERSR221002	0	0	50 barite (~1500 gr)	5 (~150 gr)	4 (~3000 gr)	0	0	0	0	0	0	0	0	0	0	0	0	Tr (7 gr)	0	0	Black andradite/barite-titanite assemblage. 0.5-1.0 mm fraction contains 2% (~150 grains) barite.	1.0-2.0 mm fraction: 7 barite 0.5-1.0 mm fraction: 10 representative barite 0.25-0.5 mm fraction: 10 representative barite 7 apatite

*Low-Cr diopside, forsteritic olivine and chromite are referenced on KIM data.

Metamorphosed/Magmatic Massive Sulphide Indicator Mineral (MMSIM) Counts

Client: Alberta Geological Survey
File Name: 20232820 - AER - Alberta Geological Survey - (KIM, MMISM) - Jan 2023
Total Number of Samples in this Report: 27
ODM Batch Number(s): 2847

Sample Number	Gold Grains	0.25 to 0.5 mm Nonferromagnetic Heavy Mineral Fraction																			Remarks	Picked Grains
		Sulphide/Arsenide + Related Minerals				Mg/Mn/Al/Cr Minerals																
		>1.0 amp			<1.0	>1.0 amp							<1.0 amp				>1.0 amp					
		% Cpy	Misc. Prime MMSIMs	% Pyrite	% Goethite	# Grains + Colour Spinel	Misc. Prime MMSIMs*	% Red Rutile	% Ky	% Sil	% Tm	% St	% Sps	Olivine		% Opx	% Cr*	Phosphates		% REE Bearing Minerals		
													% Fo*	% Fay			% Ap	% Mz				
AERSR221063	0	0	30 barite (~4000 gr)	50 (~6000 gr)	8 (~4000 gr)	3 purple, blue	0	Tr (2 gr)	Tr (6 gr)	0	Tr (6 gr)	1	0	0	0	0	0	Tr (12 gr)	Tr (~15 gr)	Tr florencite (1 gr)	Almandine-hornblende/marcasite-barite assemblage. SEM checks from 0.25-0.5 mm fraction: 4 monazite versus titanite candidates = 4 monazite. 1.0-2.0 mm and 0.5-1.0 mm fractions contain 3% (~25 grains) and 5% (~300 grains) barite, respectively.	1.0-2.0 mm fraction: 10 representative barite 0.5-1.0 mm fraction: 10 representative barite 0.25-0.5 mm fraction: 10 representative barite 3 spinel 2 red rutile 6 tourmaline 12 apatite 5 representative monazite 1 florencite
AERSR221066	0	0	95 barite (~400 gr)	0.5 (2 gr)	12 (~150 gr)	0	0	0	0	0	0	0	0	0	0	0	0	Tr (1 gr)	0	0	Almandine-hornblende/barite assemblage.	0.5-1.0 mm fraction: 12 barite 0.25-0.5 mm fraction: 10 representative barite 1 apatite
AERSR221067	0	0	50 barite (~10,000 gr)	40 (~9000 gr)	80 (~2000 gr)	0	0	0	0	0	0	0	0	0	0	0	0	0	Tr (3 gr)	0	Goethite-andradite/barite-marcasite assemblage. 1.0-2.0 mm and 0.5-1.0 mm fractions contain 15% (~20 grains) and 7% (~300 grains) barite, respectively.	1.0-2.0 mm fraction: 10 representative barite 0.5-1.0 mm fraction: 10 representative barite 0.25-0.5 mm fraction: 10 representative barite 3 monazite
AERSR221068	0	0	50 barite (~800 gr)	1 (~20 gr)	30 (~8000 gr)	1 grey-blue	0	0	0	0	0	1 (~20 gr)	0	0	0	0	0	Tr (3 gr)	Tr (1 gr)	0	Almandine-goethite-hornblende/barite-diopside-epidote assemblage.	0.5-1.0 mm fraction: 3 barite 0.25-0.5 mm fraction: 10 representative barite 1 spinel 3 apatite 1 monazite

*Low-Cr diopside, forsteritic olivine and chromite are referenced on KIM data.

Metamorphosed/Magmatic Massive Sulphide Indicator Mineral (MMSIM) Counts

Client: Alberta Geological Survey
File Name: 20232820 - AER - Alberta Geological Survey - (KIM, MMISM) - Jan 2023
Total Number of Samples in this Report: 27
ODM Batch Number(s): 2847

Sample Number	Gold Grains	0.25 to 0.5 mm Nonferromagnetic Heavy Mineral Fraction																					
		Sulphide/Arsenide + Related Minerals				Mg/Mn/Al/Cr Minerals																	
		>1.0 amp			<1.0	>1.0 amp							<1.0 amp					>1.0 amp					
		% Cpy	Misc. Prime MMSIMs	% Pyrite	% Goethite	# Grains + Colour Spinel	Misc. Prime MMSIMs*	% Red Rutile	% Ky	% Sil	% Tm	% St	% Sps	Olivine			% Opx	% Cr*	Phosphates			% REE Bearing Minerals	
													% Fo*	% Fay				% Ap	% Mz				
AERSR221070	0	0	60 barite (~2500 gr)	1 (~40 gr)	2 (~2500 gr)	1 blue-green gahnite; 8 blue-grey, purple, pink, blue-green spinel	0	Tr (2 gr)	0.5 (~20 gr)	0	0	1 (~40 gr)	0	0	0	0	0	0	0	0	0	Almandine-hornblende/barite-diopside assemblage. SEM checks from 0.25-0.5 mm fraction: 2 blue-green gahnite versus spinel candidates = 1 gahnite and 1 spinel. 0.5-1.0 mm fraction contains trace (~20 grains) barite.	0.5-1.0 mm fraction: 10 representative barite 0.25-0.5 mm fraction: 10 representative barite 1 gahnite 8 spinel 2 red rutile
AERSR221074	0	0.2 (4 gr)	50 barite (~1200 gr)	40 (~1000 gr)	10 (~800 gr)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Hematite-augite/barite-marcasite assemblage. 0.5-1.0 mm fraction contains 6% (~60 grains) barite.	1.0-2.0 mm fraction: 6 barite 0.5-1.0 mm fraction: 10 representative barite 0.25-0.5 mm fraction: 4 chalcopyrite 10 representative barite	
AERSR223023	0	0	5 barite (~80 gr)	0.7 (~10 gr)	10 (~10,000 gr)	0	0	0	0	0	0	0	0	0	0	0	0	1 (~15 gr)	0	0	Black andradite/titanite assemblage.	0.25-0.5 mm fraction: 10 representative barite	
AERSR223024	0	0	5 barite (~40 gr)	2 (~15 gr)	30 (~20,000 gr)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Andradite-goethite/titanite assemblage.	0.5-1.0 mm fraction: 3 barite 0.25-0.5 mm fraction: 10 representative barite	
AERSR223039	0	0	50 barite (~5000 gr)	50 (~5000 gr)	20 (~5000 gr)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Hematite-goethite/marcasite-barite assemblage. 1.0-2.0 mm and 0.5-1.0 mm fractions contain 6% (~25 gr) and 10% (~500 gr) barite, respectively.	1.0-2.0 mm fraction: 10 representative barite 0.5-1.0 mm fraction: 10 representative barite 0.25-0.5 mm fraction: 10 representative barite	

*Low-Cr diopside, forsteritic olivine and chromite are referenced on KIM data.

Metamorphosed/Magmatic Massive Sulphide Indicator Mineral (MMSIM) Counts

Client: Alberta Geological Survey
File Name: 20232820 - AER - Alberta Geological Survey - (KIM, MMISM) - Jan 2023
Total Number of Samples in this Report: 27
ODM Batch Number(s): 2847

Sample Number	Gold Grains	0.25 to 0.5 mm Nonferromagnetic Heavy Mineral Fraction																		Remarks	Picked Grains		
		Sulphide/Arsenide + Related Minerals				Mg/Mn/Al/Cr Minerals																	
		>1.0 amp			<1.0	>1.0 amp						<1.0 amp						>1.0 amp					
		% Cpy	Misc. Prime MMSIMs	% Pyrite	% Goethite	# Grains + Colour Spinel	Misc. Prime MMSIMs*	% Red Rutile	% Ky	% Sil	% Tm	% St	% Sps	Olivine			% Opx	% Cr*	Phosphates			% REE Bearing Minerals	
													% Fo*	% Fay				% Ap	% Mz				
AERSR223040	0	0	80 (~200 gr)	0	95 (~4000 gr)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Goethite/barite assemblage.	0.5-1.0 mm fraction: 5 barite 0.25-0.5 mm fraction: 10 representative barite
AERSR223046	0	0	90 barite (~300 gr)	2 (6 gr)	50 (~2000 gr)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Goethite-hematite/barite assemblage.	0.5-1.0 mm fraction: 11 barite 0.25-0.5 mm fraction: 10 representative barite
AERSR223079	0	0	20 barite (~40 gr)	2 (3 gr)	8 (~50 gr)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Hematite/leucoxene-barite assemblage.	0.5-1.0 mm fraction: 2 barite 0.25-0.5 mm fraction: 10 representative barite
AERSR223082	0	0	80 barite (~800 gr); 0.2 fluorite (2 gr)	15 (~150 gr)	80 (~10,000 gr)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	Goethite-hematite/barite-marcasit assemblage. SEM checks from 0.25-0.5 mm fraction: 2 fluorite versus quartz candidates = 2 fluorite. 0.5-1.0 mm fraction contains 1% (~25 grains) barite.	1.0-2.0 mm fraction: 1 barite 0.5-1.0 mm fraction: 10 representative barite 0.25-0.5 mm fraction: 10 representative barite 2 fluorite

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Client: Alberta Geological Survey
File Name: 20232820 - AER - Alberta Geological Survey - (KIM, MMISM) - Jan 2023
Total Number of Samples in this Report: 27
ODM Batch Number(s): 2847

Kimberlite Indicator Mineral Counts

Sample Number	Number of Grains																																											
	Pseudo-KIMs						KIMs																																					
	1.0 to 2.0 mm		0.5 to 1.0 mm		0.25 to 0.5 mm		1.0 to 2.0 mm										0.5 to 1.0 mm										0.25 to 0.5 mm										Total (KIMs)							
	Low-Cr diopside*		Low-Cr diopside*		Low-Cr diopside*		GP		GO		DC		IM		CR*		FO*		GP		GO		DC		IM		CR*		FO*		GP		GO		DC				IM		CR*		FO*	
T	P	T	P	T	P	T	P	T	P	T	P	T	P	T	P	T	P	T	P	T	P	T	P	T	P	T	P	T	P	T	P	T	P	T	P	T	P	T	P	T	P			
AER22TS-1042	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
AER22TS-1092	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
AER22TS-2018	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AER22TS-2019	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AER22TS-3097	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AER22TS-3099	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AER22TS-4019	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AER22TS-4057	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AER22TS-5074	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	7
AERHL225053	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	3	
AERHL225095	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AERHL225099	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AERHL225118	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AERSR221002	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AERSR221063	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AERSR221066	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1		
AERSR221067	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AERSR221068	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AERSR221070	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AERSR221074	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AERSR223023	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AERSR223024	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AERSR223039	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AERSR223040	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AERSR223046	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AERSR223079	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AERSR223082	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

T = Total number of grains in sample. Total is estimated if number is greater than number of picked grains.
P = Number of picked grains in sample.
* Low-Cr diopside, forsteritic olivine and chromite also referenced on MMSIMs data.

Kimberlite Indicator Mineral Remarks

Client: Alberta Geological Survey

File Name: 20232820 - AER - Alberta Geological Survey - (KIM, MMISM) - Jan 2023

Total Number of Samples in this Report: 27

ODM Batch Number(s): 2847

Sample Number	Remarks
AER22TS-1042	No KIM remarks.
AER22TS-1092	No KIM remarks.
AER22TS-2018	No KIM remarks.
AER22TS-2019	No KIM remarks.
AER22TS-3097	No KIM remarks.
AER22TS-3099	No KIM remarks.
AER22TS-4019	No KIM remarks.
AER22TS-4057	No KIM remarks.
AER22TS-5074	SEM checks from 0.25-0.5 mm fraction: 6 GO versus staurolite candidates = 5 staurolite and 1 grossular.
AERHL225053	No KIM remarks.
AERHL225095	No KIM remarks.
AERHL225099	No KIM remarks.
AERHL225118	No KIM remarks.
AERSR221002	No KIM remarks.
AERSR221063	No KIM remarks.
AERSR221066	No KIM remarks.
AERSR221067	No KIM remarks.
AERSR221068	No KIM remarks.
AERSR221070	No KIM remarks.
AERSR221074	No KIM remarks.
AERSR223023	No KIM remarks.
AERSR223024	No KIM remarks.
AERSR223039	No KIM remarks.
AERSR223040	No KIM remarks.
AERSR223046	No KIM remarks.
AERSR223079	No KIM remarks.
AERSR223082	No KIM remarks.

Apatite Separates

Client: Alberta Geological Survey

File Name: 20232820 - AER - Alberta Geological Survey - (KIM, MMISM) - Jan 2023

Total Number of Samples in this Report: 27

ODM Batch Number(s): 2847

Sample Number	Apatite Grains in S.G. 3.0-3.2, 0.25-2.0 mm Concentrates			Remarks
	Estimated Total %	Number		
		Estimated Total	Picked	
AER22TS-1042	Tr	5	5	
AER22TS-1092	0	0	0	
AER22TS-2018	Tr	30	17	
AER22TS-2019	0.5	30	20	
AER22TS-3097	0	0	0	
AER22TS-3099	0	0	0	
AER22TS-4019	0	0	0	
AER22TS-4057	1	50	20	
AER22TS-5074	0	0	0	
AERHL225053	2	250	20	
AERHL225095	2	300	20	
AERHL225099	0.5	200	0	
AERHL225118	0	0	0	
AERSR221002	2	500	13	
AERSR221063	2	300	8	
AERSR221066	5	250	20	
AERSR221067	0	0	0	
AERSR221068	Tr	200	17	
AERSR221070	1	300	20	
AERSR221074	0	0	0	
AERSR223023	Tr	30	20	
AERSR223024	Tr	12	12	
AERSR223039	0	0	0	
AERSR223040	Tr	4	4	
AERSR223046	Tr	6	6	
AERSR223079	0	0	0	
AERSR223082	0.5	4	4	