



ALS Canada Ltd.
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To: **ATAC RESOURCES LTD.**
C/ O ARCHER, CATHRO & ASSOCIATES (1981)
LIMITED
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

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 Plus Appendix Pages
 Finalized Date: 19- JUL- 2017
 Account: RCM

CERTIFICATE WH17127290

Project: ROSY

This report is for 250 Soil samples submitted to our lab in Whitehorse, YT, Canada on 23-JUN- 2017.

The following have access to data associated with this certificate:

ANDREW CARNE	JULIA LANE	JOAN MARIACHER
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES

To: **ATAC RESOURCES LTD.**
ATTN: JULIA LANE
C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS WH17127290

Sample Description	Method	WEI- 21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga
Units		kg	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
LOR		0.02	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
ZZ113001		0.47	<0.2	1.74	11	<10	160	<0.5	<2	0.59	<0.5	16	119	50	2.50	<10
ZZ113002		0.46	0.3	1.92	14	<10	240	<0.5	<2	0.55	<0.5	14	96	51	2.78	<10
ZZ113003		0.33	0.2	1.81	12	<10	150	<0.5	<2	0.75	<0.5	13	98	44	2.30	<10
ZZ113004		0.49	<0.2	1.43	10	<10	60	<0.5	<2	0.40	<0.5	13	97	38	2.14	<10
ZZ113005		0.40	<0.2	1.74	11	<10	70	<0.5	<2	0.16	<0.5	11	69	37	2.10	<10
ZZ113006		0.43	<0.2	1.49	8	<10	50	<0.5	<2	0.29	<0.5	16	103	59	2.02	<10
ZZ113007		0.47	<0.2	1.76	8	<10	70	<0.5	<2	0.21	<0.5	14	78	45	2.29	<10
ZZ113008		0.32	<0.2	1.15	5	<10	40	<0.5	<2	0.16	<0.5	14	102	52	1.68	<10
ZZ113009		0.36	0.2	1.92	7	<10	60	<0.5	<2	0.22	<0.5	21	151	67	2.78	<10
ZZ113010		0.46	<0.2	2.17	8	<10	90	<0.5	<2	0.27	<0.5	19	117	71	2.64	<10
ZZ113011		0.49	<0.2	1.76	7	<10	60	<0.5	<2	0.27	<0.5	15	117	54	2.04	<10
ZZ113012		0.37	<0.2	3.81	21	<10	220	0.7	<2	0.39	<0.5	27	219	387	4.01	10
ZZ113013		0.30	<0.2	1.58	7	<10	60	<0.5	<2	0.21	<0.5	10	79	33	1.97	<10
ZZ113014		0.45	<0.2	1.63	7	<10	70	<0.5	<2	0.34	<0.5	13	142	32	2.59	10
ZZ113015		0.49	<0.2	1.72	6	<10	40	<0.5	<2	0.28	<0.5	18	158	41	1.98	<10
ZZ113016		0.32	<0.2	2.01	10	<10	110	<0.5	<2	0.72	<0.5	14	127	103	1.86	<10
ZZ113017		0.52	<0.2	1.86	5	<10	60	<0.5	<2	0.39	<0.5	17	159	53	2.25	<10
ZZ113018		0.53	<0.2	2.01	6	<10	80	<0.5	<2	0.51	<0.5	16	168	42	2.49	10
ZZ113019		0.47	<0.2	1.84	6	<10	100	<0.5	<2	0.31	<0.5	17	147	73	2.32	<10
ZZ113020		0.49	<0.2	1.79	3	<10	50	<0.5	<2	0.26	<0.5	14	122	34	2.16	<10
ZZ113021		0.56	<0.2	1.54	5	<10	60	<0.5	<2	0.30	<0.5	14	119	40	2.05	<10
ZZ113022		0.44	<0.2	1.51	3	<10	20	<0.5	<2	0.28	<0.5	15	141	48	1.64	<10
ZZ113023		0.43	<0.2	1.45	3	<10	20	<0.5	<2	0.24	<0.5	13	124	52	1.44	<10
ZZ113024		0.52	<0.2	1.65	4	<10	50	<0.5	<2	0.43	<0.5	12	149	99	1.74	<10
ZZ113025		0.43	<0.2	2.46	3	<10	80	<0.5	<2	0.55	<0.5	27	222	422	2.37	<10
ZZ113026		0.48	<0.2	1.83	10	<10	60	<0.5	<2	0.42	<0.5	17	226	127	2.02	<10
ZZ113027		0.37	<0.2	1.80	6	<10	60	<0.5	<2	0.37	<0.5	12	258	90	1.75	<10
ZZ113028		0.35	<0.2	1.22	2	<10	30	<0.5	<2	0.16	<0.5	9	111	34	1.27	<10
ZZ113029		0.60	<0.2	1.75	3	<10	30	<0.5	<2	0.30	<0.5	19	204	90	1.70	<10
ZZ113030		0.56	<0.2	1.51	6	<10	30	<0.5	<2	0.17	<0.5	10	112	37	1.96	<10
ZZ113031		0.70	<0.2	1.29	3	<10	20	<0.5	<2	0.24	<0.5	11	130	35	1.75	<10
ZZ113032		0.72	<0.2	1.30	3	<10	20	<0.5	<2	0.25	<0.5	13	117	45	1.68	<10
ZZ113033		0.37	<0.2	1.10	2	<10	20	<0.5	<2	0.20	<0.5	9	95	37	1.10	<10
ZZ113034		0.42	<0.2	1.39	10	<10	40	<0.5	<2	0.25	<0.5	17	144	51	1.59	<10
ZZ113035		0.34	<0.2	1.40	4	<10	50	<0.5	<2	0.44	<0.5	9	136	103	1.26	<10
ZZ113036		0.63	<0.2	1.37	2	<10	20	<0.5	<2	0.29	<0.5	14	132	27	1.56	<10
ZZ113037		0.51	<0.2	1.04	3	<10	20	<0.5	<2	0.36	<0.5	14	92	28	1.18	<10
ZZ113038		0.35	<0.2	1.96	4	<10	40	<0.5	<2	0.43	<0.5	19	225	119	1.68	<10
ZZ113039		0.43	<0.2	1.69	2	<10	30	<0.5	<2	0.19	<0.5	13	110	29	2.57	<10
ZZ113040		0.73	<0.2	1.09	<2	<10	30	<0.5	<2	0.24	<0.5	10	98	21	1.16	<10



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CERTIFICATE OF ANALYSIS WH17127290

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm
		1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1	20
ZZ113001		<1	0.10	10	1.45	426	4	0.01	55	570	9	0.02	2	5	19	<20
ZZ113002		<1	0.09	10	1.35	434	4	0.01	53	580	10	0.05	2	5	21	<20
ZZ113003		<1	0.08	10	1.22	381	1	0.01	46	770	9	0.05	<2	3	15	<20
ZZ113004		1	0.04	10	1.23	336	2	0.01	44	320	6	<0.01	<2	3	12	<20
ZZ113005		<1	0.04	10	0.74	381	1	<0.01	30	850	6	0.06	<2	1	9	<20
ZZ113006		<1	0.03	<10	1.12	354	1	<0.01	46	510	4	0.02	<2	2	10	<20
ZZ113007		<1	0.06	10	0.87	332	1	<0.01	37	680	6	0.02	<2	2	10	<20
ZZ113008		1	0.03	<10	0.81	280	<1	<0.01	50	470	3	0.02	<2	3	8	<20
ZZ113009		<1	0.04	<10	1.23	693	1	<0.01	58	830	2	0.06	<2	1	10	<20
ZZ113010		<1	0.05	10	1.29	338	1	0.01	62	530	5	0.02	2	3	12	<20
ZZ113011		<1	0.03	<10	1.26	305	<1	0.01	47	370	3	0.02	<2	2	11	<20
ZZ113012		<1	0.11	20	2.16	562	1	0.01	112	920	10	0.05	<2	12	18	<20
ZZ113013		<1	0.05	<10	0.61	361	1	0.01	29	790	4	0.08	2	<1	10	<20
ZZ113014		<1	0.04	<10	1.25	241	1	<0.01	53	210	4	0.01	<2	4	13	<20
ZZ113015		<1	0.02	<10	1.58	309	<1	0.01	61	210	3	0.01	<2	3	10	<20
ZZ113016		<1	0.05	10	1.19	458	1	0.02	49	670	5	0.07	<2	4	19	<20
ZZ113017		<1	0.04	10	1.46	397	<1	<0.01	60	370	4	0.01	<2	4	13	<20
ZZ113018		<1	0.05	<10	1.42	400	<1	<0.01	59	430	4	0.02	<2	3	14	<20
ZZ113019		<1	0.06	10	1.34	328	<1	<0.01	62	260	4	0.01	2	5	11	<20
ZZ113020		<1	0.04	10	1.06	318	<1	<0.01	44	350	4	0.02	<2	3	10	<20
ZZ113021		<1	0.04	<10	1.08	299	<1	0.01	46	280	3	<0.01	<2	4	11	<20
ZZ113022		1	0.01	<10	1.18	243	<1	<0.01	49	170	<2	<0.01	<2	3	8	<20
ZZ113023		<1	0.02	<10	1.03	213	1	<0.01	44	320	2	0.01	<2	2	9	<20
ZZ113024		<1	0.03	<10	1.18	219	<1	<0.01	52	520	3	0.03	<2	6	12	<20
ZZ113025		<1	0.03	10	2.23	622	1	<0.01	110	990	2	0.09	<2	3	13	<20
ZZ113026		<1	0.03	<10	1.53	282	<1	<0.01	75	370	2	0.01	<2	5	12	<20
ZZ113027		<1	0.03	<10	1.56	219	<1	<0.01	78	360	2	0.03	2	3	11	<20
ZZ113028		<1	0.02	<10	0.82	164	<1	0.01	37	440	2	0.04	<2	1	7	<20
ZZ113029		<1	0.02	<10	1.70	290	<1	<0.01	73	250	2	<0.01	<2	4	10	<20
ZZ113030		<1	0.03	<10	0.81	214	<1	<0.01	35	300	4	0.02	<2	1	9	<20
ZZ113031		<1	0.02	<10	1.00	172	<1	<0.01	40	210	2	0.01	<2	2	9	<20
ZZ113032		<1	0.02	<10	0.98	193	<1	<0.01	40	230	3	0.01	<2	2	9	<20
ZZ113033		<1	0.02	<10	0.78	133	<1	<0.01	32	390	2	0.01	<2	1	8	<20
ZZ113034		<1	0.02	<10	1.13	540	1	<0.01	52	340	4	0.02	<2	2	10	<20
ZZ113035		<1	0.03	<10	0.95	278	<1	0.01	43	680	<2	0.06	<2	1	8	<20
ZZ113036		<1	0.01	<10	1.26	181	<1	<0.01	46	180	<2	<0.01	<2	3	10	<20
ZZ113037		<1	0.01	<10	1.02	248	<1	<0.01	36	320	<2	<0.01	<2	2	11	<20
ZZ113038		<1	0.02	<10	1.85	358	1	<0.01	83	530	3	0.04	<2	4	12	<20
ZZ113039		<1	0.03	<10	1.01	445	1	<0.01	35	650	5	0.05	<2	2	9	<20
ZZ113040		<1	0.03	<10	0.92	190	<1	0.01	32	480	2	0.02	<2	2	10	<20



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CERTIFICATE OF ANALYSIS WH17127290

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	Au- ICP21
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm	Au ppm
		0.01	10	10	1	10	2	0.001
ZZ113001		0.08	<10	<10	55	<10	71	0.001
ZZ113002		0.06	<10	10	59	<10	85	0.001
ZZ113003		0.05	<10	<10	50	<10	60	0.001
ZZ113004		0.07	<10	<10	51	<10	42	<0.001
ZZ113005		0.02	<10	<10	52	<10	37	0.003
ZZ113006		0.04	<10	<10	47	<10	31	<0.001
ZZ113007		0.07	<10	<10	58	<10	43	<0.001
ZZ113008		0.02	<10	<10	38	<10	26	<0.001
ZZ113009		0.02	<10	<10	62	<10	40	0.004
ZZ113010		0.07	<10	<10	64	<10	48	<0.001
ZZ113011		0.06	<10	<10	50	<10	30	<0.001
ZZ113012		0.05	<10	<10	100	<10	70	0.003
ZZ113013		0.02	<10	<10	53	<10	33	0.001
ZZ113014		0.14	<10	<10	71	<10	33	<0.001
ZZ113015		0.08	<10	<10	47	<10	30	<0.001
ZZ113016		0.04	<10	<10	42	<10	37	0.001
ZZ113017		0.07	<10	<10	52	<10	32	<0.001
ZZ113018		0.07	<10	<10	57	<10	36	<0.001
ZZ113019		0.08	<10	<10	54	<10	34	<0.001
ZZ113020		0.12	<10	<10	52	<10	41	0.003
ZZ113021		0.12	<10	<10	51	<10	31	0.002
ZZ113022		0.08	<10	<10	38	<10	20	<0.001
ZZ113023		0.06	<10	<10	34	<10	22	<0.001
ZZ113024		0.04	<10	<10	39	<10	30	<0.001
ZZ113025		0.03	<10	<10	48	<10	40	0.001
ZZ113026		0.05	<10	<10	45	<10	33	0.002
ZZ113027		0.09	<10	<10	42	<10	28	<0.001
ZZ113028		0.05	<10	<10	33	<10	20	<0.001
ZZ113029		0.07	<10	<10	39	<10	25	<0.001
ZZ113030		0.08	<10	<10	50	<10	30	0.002
ZZ113031		0.12	<10	<10	48	<10	19	<0.001
ZZ113032		0.08	<10	<10	42	<10	21	0.002
ZZ113033		0.04	<10	<10	27	<10	16	<0.001
ZZ113034		0.05	<10	<10	37	<10	27	<0.001
ZZ113035		0.03	<10	<10	27	<10	30	<0.001
ZZ113036		0.09	<10	<10	39	<10	20	<0.001
ZZ113037		0.05	<10	<10	26	<10	18	<0.001
ZZ113038		0.03	<10	<10	33	<10	36	<0.001
ZZ113039		0.14	<10	<10	64	<10	37	<0.001
ZZ113040		0.06	<10	<10	27	<10	22	<0.001



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Sample Description	Method	WEI- 21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga
Units		kg	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
LOR		0.02	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
ZZ113041		0.55	<0.2	1.39	2	<10	20	<0.5	<2	0.29	<0.5	14	128	32	1.51	<10
ZZ113042		0.53	<0.2	1.20	2	<10	20	<0.5	<2	0.32	<0.5	11	97	25	1.56	<10
ZZ113043		0.44	<0.2	1.40	5	<10	60	<0.5	<2	0.42	<0.5	13	159	54	1.60	<10
ZZ113044		0.40	<0.2	1.42	13	<10	70	<0.5	<2	0.54	<0.5	14	156	73	1.75	<10
ZZ113045		0.56	<0.2	1.21	3	<10	50	<0.5	<2	0.33	<0.5	14	87	25	1.59	<10
ZZ113046		0.44	<0.2	1.48	9	<10	40	<0.5	<2	0.27	<0.5	12	90	19	1.85	<10
ZZ113047		0.59	<0.2	1.19	12	<10	60	<0.5	<2	0.33	<0.5	11	74	28	1.74	<10
ZZ113048		0.30	<0.2	1.03	<2	<10	60	<0.5	<2	0.10	<0.5	6	16	7	2.48	<10
ZZ113049		0.54	2.7	0.43	117	<10	290	<0.5	<2	0.02	<0.5	<1	44	19	5.14	<10
ZZ113050		0.45	0.7	0.62	10	<10	70	<0.5	<2	0.04	1.2	7	16	62	4.13	<10
ZZ113051		0.31	<0.2	1.69	20	<10	50	<0.5	<2	0.18	<0.5	11	76	31	2.31	<10
ZZ113052		0.47	<0.2	2.46	10	<10	160	<0.5	2	0.72	<0.5	13	132	39	2.73	10
ZZ113053		0.33	0.3	1.68	15	<10	180	<0.5	<2	0.43	0.6	11	87	37	2.36	<10
ZZ113054		0.28	<0.2	2.84	3	<10	140	<0.5	<2	1.11	0.6	12	125	32	2.65	10
ZZ113055		0.39	<0.2	3.32	3	<10	180	<0.5	<2	1.50	<0.5	14	143	43	2.83	10
ZZ113056		0.24	<0.2	1.63	6	<10	60	<0.5	<2	0.22	<0.5	18	179	38	2.65	<10
ZZ113057		0.19	<0.2	0.28	<2	<10	20	<0.5	<2	0.11	<0.5	3	7	10	0.52	<10
ZZ113058		0.20	<0.2	0.91	3	<10	40	<0.5	<2	0.15	<0.5	7	47	29	1.17	<10
ZZ113059		0.39	<0.2	1.64	8	<10	50	<0.5	<2	0.25	<0.5	15	105	60	2.13	<10
ZZ113060		0.25	<0.2	1.13	5	<10	60	<0.5	<2	0.15	<0.5	11	107	26	1.93	<10
ZZ113061		0.13	<0.2	0.27	<2	<10	30	<0.5	<2	0.10	<0.5	4	17	8	0.62	<10
ZZ113062		0.31	<0.2	0.26	<2	<10	10	<0.5	<2	0.05	<0.5	2	12	7	0.61	<10
ZZ113063		0.29	<0.2	1.10	4	<10	70	<0.5	<2	0.17	<0.5	23	103	26	1.63	<10
ZZ113064		0.31	<0.2	1.27	12	<10	50	<0.5	<2	0.77	<0.5	14	105	36	1.96	<10
ZZ113065		0.47	<0.2	1.59	4	<10	50	<0.5	<2	0.26	<0.5	13	154	41	2.14	<10
ZZ113066		0.20	0.2	0.96	3	<10	90	<0.5	<2	0.44	1.1	20	87	105	1.46	<10
ZZ113067		0.32	<0.2	1.14	2	<10	30	<0.5	<2	0.15	<0.5	11	101	63	1.55	<10
ZZ113068		0.37	<0.2	2.39	5	<10	70	<0.5	<2	0.48	<0.5	20	250	152	2.48	<10
ZZ113069		0.31	<0.2	1.80	4	<10	50	<0.5	<2	0.20	<0.5	15	144	58	2.34	<10
ZZ113070		0.32	<0.2	1.39	3	<10	30	<0.5	<2	0.22	<0.5	11	161	31	1.94	10
ZZ113071		0.62	<0.2	1.79	3	<10	50	<0.5	<2	0.33	<0.5	12	149	53	1.78	<10
ZZ113072		0.60	<0.2	1.64	6	<10	30	<0.5	<2	0.22	<0.5	11	160	46	1.67	<10
ZZ113073		0.65	<0.2	1.58	4	<10	30	<0.5	<2	0.36	<0.5	14	157	44	1.81	<10
ZZ113074		0.69	<0.2	1.81	2	<10	50	<0.5	<2	0.30	<0.5	14	190	77	1.85	<10
ZZ113075		1.54	<0.2	1.20	8	<10	50	<0.5	<2	0.31	<0.5	10	120	48	1.57	<10
ZZ113076		0.79	<0.2	1.54	4	<10	30	<0.5	<2	0.29	<0.5	14	187	49	2.07	<10
ZZ113077		0.56	<0.2	1.53	5	<10	30	<0.5	<2	0.34	<0.5	35	251	130	1.53	<10
ZZ113078		0.70	<0.2	1.83	3	<10	30	<0.5	<2	0.30	<0.5	16	178	51	1.91	<10
ZZ113079		0.64	<0.2	1.69	3	<10	30	<0.5	<2	0.29	<0.5	20	160	76	1.80	<10
ZZ113080		0.55	<0.2	1.39	4	<10	30	<0.5	<2	0.21	<0.5	13	133	52	1.79	<10



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm
		1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1	20
ZZ113041		<1	0.02	<10	1.21	208	<1	<0.01	42	350	<2	0.01	<2	3	11	<20
ZZ113042		<1	0.01	<10	0.92	168	<1	<0.01	30	160	3	0.02	<2	2	12	<20
ZZ113043		<1	0.02	<10	1.20	242	<1	<0.01	58	370	3	0.03	<2	5	13	<20
ZZ113044		<1	0.03	<10	1.01	345	<1	0.01	54	710	<2	0.06	<2	6	13	<20
ZZ113045		<1	0.02	<10	0.94	310	<1	<0.01	33	400	<2	0.03	<2	1	14	<20
ZZ113046		<1	0.03	<10	0.97	213	<1	<0.01	33	390	3	0.02	<2	1	15	<20
ZZ113047		<1	0.02	<10	0.77	225	1	<0.01	31	340	3	0.01	<2	1	21	<20
ZZ113048		<1	0.12	20	0.56	373	2	<0.01	14	460	16	0.02	<2	1	7	<20
ZZ113049		<1	0.16	10	0.03	45	18	<0.01	6	6150	29	0.57	19	<1	86	<20
ZZ113050		<1	0.05	10	0.10	223	138	0.04	61	890	52	0.20	2	1	24	<20
ZZ113051		<1	0.05	10	0.68	256	1	<0.01	30	560	10	0.03	<2	2	10	<20
ZZ113052		<1	0.05	10	2.63	425	4	<0.01	55	540	8	0.02	<2	6	20	<20
ZZ113053		1	0.06	10	1.20	310	7	<0.01	52	640	11	0.03	2	2	13	<20
ZZ113054		<1	0.05	10	3.79	493	1	<0.01	40	490	4	0.05	<2	8	12	<20
ZZ113055		1	0.43	10	4.91	521	<1	<0.01	44	460	3	0.06	<2	11	12	<20
ZZ113056		<1	0.04	<10	1.35	550	1	<0.01	65	720	3	0.06	<2	1	9	<20
ZZ113057		<1	0.02	<10	0.09	162	<1	0.01	4	380	<2	0.04	<2	<1	7	<20
ZZ113058		<1	0.03	<10	0.57	166	<1	0.01	20	670	<2	0.08	<2	<1	8	<20
ZZ113059		<1	0.03	<10	1.10	360	<1	<0.01	44	490	3	0.04	<2	2	10	<20
ZZ113060		<1	0.03	<10	0.68	364	1	<0.01	30	590	3	0.06	<2	1	10	<20
ZZ113061		<1	0.03	<10	0.11	256	<1	0.01	7	400	<2	0.04	<2	<1	7	<20
ZZ113062		<1	0.01	<10	0.10	50	<1	0.01	5	190	<2	0.02	<2	<1	6	<20
ZZ113063		<1	0.04	<10	0.56	2130	1	<0.01	25	1010	4	0.12	<2	1	9	<20
ZZ113064		<1	0.03	<10	0.84	746	1	<0.01	36	1170	4	0.10	<2	2	12	<20
ZZ113065		<1	0.04	<10	1.37	284	<1	<0.01	59	230	3	0.02	<2	3	10	<20
ZZ113066		<1	0.03	<10	0.62	887	<1	<0.01	46	450	4	0.04	<2	1	12	<20
ZZ113067		<1	0.02	<10	0.86	188	<1	<0.01	34	320	3	0.03	<2	1	8	<20
ZZ113068		<1	0.05	<10	2.08	446	<1	<0.01	109	610	3	0.05	<2	5	12	<20
ZZ113069		<1	0.04	<10	1.14	319	<1	<0.01	51	410	4	0.04	<2	2	10	<20
ZZ113070		<1	0.03	<10	0.96	237	<1	<0.01	42	160	3	0.01	<2	3	10	<20
ZZ113071		<1	0.03	<10	1.26	286	<1	<0.01	50	380	2	0.03	3	2	10	<20
ZZ113072		<1	0.03	<10	1.11	210	<1	<0.01	56	440	3	0.04	2	2	9	<20
ZZ113073		<1	0.02	<10	1.27	263	<1	<0.01	54	210	<2	0.02	<2	3	10	<20
ZZ113074		<1	0.02	<10	1.39	302	<1	<0.01	64	310	3	0.03	<2	3	11	<20
ZZ113075		<1	0.02	<10	0.96	237	1	0.01	46	250	3	0.02	<2	3	9	<20
ZZ113076		1	0.02	<10	1.30	229	1	0.01	57	190	2	0.01	<2	3	9	<20
ZZ113077		<1	0.01	<10	2.07	282	<1	<0.01	91	140	<2	0.01	<2	4	11	<20
ZZ113078		<1	0.02	<10	1.59	200	<1	<0.01	71	140	<2	0.01	<2	3	9	<20
ZZ113079		1	0.02	<10	1.49	269	<1	<0.01	69	170	<2	0.01	<2	3	9	<20
ZZ113080		<1	0.02	<10	1.08	170	<1	<0.01	55	330	3	0.03	2	2	8	<20



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	Au- ICP21
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm	Au ppm
		0.01	10	10	1	10	2	0.001
ZZ113041		0.08	<10	<10	34	<10	23	0.001
ZZ113042		0.10	<10	<10	37	<10	19	<0.001
ZZ113043		0.03	<10	<10	34	<10	27	0.001
ZZ113044		0.02	<10	<10	40	<10	29	0.013
ZZ113045		0.03	<10	<10	35	<10	36	<0.001
ZZ113046		0.04	<10	<10	36	<10	56	<0.001
ZZ113047		0.04	<10	<10	38	<10	58	0.002
ZZ113048		0.09	<10	<10	18	<10	65	<0.001
ZZ113049		<0.01	<10	<10	130	<10	123	0.007
ZZ113050		0.01	<10	<10	42	<10	688	<0.001
ZZ113051		0.06	<10	<10	48	<10	38	<0.001
ZZ113052		0.10	<10	<10	69	<10	66	0.001
ZZ113053		0.04	<10	<10	51	<10	104	<0.001
ZZ113054		0.14	<10	<10	87	<10	60	<0.001
ZZ113055		0.17	<10	<10	95	<10	55	<0.001
ZZ113056		0.05	<10	<10	71	<10	42	<0.001
ZZ113057		0.01	<10	<10	16	<10	10	<0.001
ZZ113058		0.03	<10	<10	29	<10	24	0.014
ZZ113059		0.05	<10	<10	48	<10	36	<0.001
ZZ113060		0.07	<10	<10	52	<10	29	0.001
ZZ113061		0.02	<10	<10	22	<10	19	<0.001
ZZ113062		0.02	<10	<10	18	<10	10	<0.001
ZZ113063		0.05	<10	<10	44	<10	28	<0.001
ZZ113064		0.02	<10	<10	44	<10	52	0.002
ZZ113065		0.07	<10	<10	50	<10	35	0.001
ZZ113066		0.05	<10	<10	38	<10	39	0.002
ZZ113067		0.07	<10	<10	36	<10	22	<0.001
ZZ113068		0.04	<10	<10	53	<10	57	<0.001
ZZ113069		0.08	<10	<10	51	<10	51	<0.001
ZZ113070		0.20	<10	<10	59	<10	24	<0.001
ZZ113071		0.04	<10	<10	41	<10	33	<0.001
ZZ113072		0.04	<10	<10	39	<10	28	<0.001
ZZ113073		0.06	<10	<10	40	<10	27	<0.001
ZZ113074		0.06	<10	<10	43	<10	24	<0.001
ZZ113075		0.05	<10	<10	36	<10	23	<0.001
ZZ113076		0.13	<10	<10	49	<10	26	<0.001
ZZ113077		0.05	<10	<10	27	<10	16	<0.001
ZZ113078		0.08	<10	<10	41	<10	24	<0.001
ZZ113079		0.07	<10	<10	39	<10	22	<0.001
ZZ113080		0.07	<10	<10	44	<10	21	<0.001



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Sample Description	Method	WEI- 21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga
Units		kg	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
LOR		0.02	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
ZZ113081		0.46	<0.2	1.44	4	<10	30	<0.5	<2	0.21	<0.5	14	123	58	1.56	<10
ZZ113082		0.61	<0.2	1.58	7	<10	20	<0.5	<2	0.24	<0.5	17	168	80	1.63	<10
ZZ113083		0.68	<0.2	1.57	6	<10	30	<0.5	<2	0.23	<0.5	17	167	88	1.77	<10
ZZ113084		0.63	<0.2	1.49	4	<10	30	<0.5	<2	0.29	<0.5	15	151	74	1.40	<10
ZZ113085		0.61	<0.2	1.87	7	<10	40	<0.5	<2	0.45	<0.5	19	224	171	1.64	<10
ZZ113086		0.62	<0.2	1.64	5	<10	20	<0.5	<2	0.38	<0.5	22	208	106	1.52	<10
ZZ113087		0.72	<0.2	1.31	7	<10	40	<0.5	<2	0.43	<0.5	17	213	113	2.01	<10
ZZ113088		0.60	<0.2	1.37	5	<10	20	<0.5	<2	0.36	<0.5	18	155	56	1.45	<10
ZZ113089		0.41	<0.2	1.26	2	<10	40	<0.5	<2	0.29	<0.5	10	121	36	1.06	<10
ZZ113090		0.30	<0.2	1.48	26	<10	90	<0.5	<2	0.53	<0.5	23	209	109	2.38	<10
ZZ113091		0.49	<0.2	1.64	18	<10	80	<0.5	<2	0.32	<0.5	16	228	104	2.19	<10
ZZ113092		0.44	<0.2	1.61	19	<10	70	<0.5	<2	0.47	<0.5	20	291	122	2.23	<10
ZZ113093		0.44	<0.2	0.94	2	<10	30	<0.5	<2	0.21	<0.5	8	94	32	1.09	<10
ZZ113094		0.25	<0.2	1.45	4	<10	80	<0.5	<2	0.20	<0.5	12	45	48	2.05	<10
ZZ113095		0.59	0.2	1.32	39	<10	150	<0.5	<2	1.10	<0.5	15	33	73	4.00	<10
ZZ113096		0.33	0.2	1.29	88	<10	130	<0.5	<2	0.76	<0.5	11	62	65	2.38	<10
ZZ113097		0.59	0.2	1.22	80	<10	110	<0.5	<2	0.45	<0.5	18	25	77	4.68	<10
ZZ113098		0.50	<0.2	0.58	5	<10	30	<0.5	<2	0.15	<0.5	3	19	19	0.71	<10
ZZ113099		0.34	<0.2	1.58	4	<10	50	<0.5	<2	0.19	<0.5	11	101	63	1.81	<10
ZZ113100		0.44	<0.2	1.22	19	<10	80	<0.5	<2	0.18	<0.6	9	53	24	2.74	<10
ZZ113101		0.29	<0.2	1.51	55	<10	70	<0.5	<2	0.24	0.5	12	79	27	2.69	<10
ZZ113102		0.35	<0.2	1.60	9	<10	60	<0.5	<2	0.21	<0.5	9	78	16	2.15	<10
ZZ113103		0.46	<0.2	1.47	3	<10	60	<0.5	<2	0.34	<0.5	15	129	27	1.79	<10
ZZ113104		0.35	<0.2	2.00	4	<10	100	<0.5	<2	0.37	<0.5	13	162	57	2.11	10
ZZ113105		0.42	<0.2	2.76	7	<10	130	<0.5	<2	0.34	<0.5	17	218	91	2.83	10
ZZ113106		0.40	<0.2	1.54	3	<10	40	<0.5	<2	0.30	<0.5	13	155	32	1.82	<10
ZZ113107		0.30	<0.2	1.45	3	<10	80	<0.5	<2	0.32	<0.5	10	106	29	1.52	<10
ZZ113108		0.49	<0.2	1.56	4	<10	70	<0.5	<2	0.43	<0.5	16	142	50	1.82	<10
ZZ113109		0.38	<0.2	1.96	3	<10	70	<0.5	<2	0.29	<0.5	15	152	48	2.19	<10
ZZ113110		0.32	<0.2	2.17	7	<10	110	<0.5	<2	0.46	<0.5	18	178	80	2.47	<10
ZZ113111		0.40	<0.2	2.38	6	<10	150	<0.5	<2	0.31	<0.5	15	183	83	2.41	10
ZZ113112		0.27	<0.2	1.83	5	<10	50	<0.5	<2	0.23	<0.5	14	138	35	2.58	<10
ZZ113113		0.32	<0.2	2.19	6	<10	120	<0.5	<2	0.55	<0.5	15	159	59	2.44	<10
ZZ113114		0.29	<0.2	1.41	3	<10	40	<0.5	<2	0.23	<0.5	10	104	26	1.57	<10
ZZ113115		0.49	<0.2	1.93	5	<10	90	<0.5	<2	0.43	<0.5	16	163	76	2.25	<10
ZZ113116		0.32	<0.2	2.13	8	<10	70	<0.5	<2	0.47	<0.5	15	184	116	2.28	<10
ZZ113117		0.28	0.2	1.90	5	<10	50	<0.5	<2	0.38	<0.5	18	134	184	1.76	<10
ZZ113118		0.34	0.2	2.12	16	<10	70	<0.5	<2	0.52	<0.5	19	193	187	2.06	<10
ZZ113119		0.39	0.2	1.71	13	<10	60	<0.5	<2	0.47	<0.5	14	148	67	1.68	<10
ZZ113120		0.36	<0.2	1.25	3	<10	20	<0.5	<2	0.31	<0.5	11	112	34	1.71	<10



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Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
	Analyte	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc	Sr	Th
Units		ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm
LOR		1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1	20
ZZ113081		<1	0.02	<10	1.17	210	<1	<0.01	58	320	3	0.03	<2	1	9	<20
ZZ113082		<1	0.02	<10	1.44	238	1	<0.01	75	240	<2	0.02	<2	2	8	<20
ZZ113083		<1	0.02	<10	1.47	243	<1	<0.01	69	170	3	0.01	<2	3	9	<20
ZZ113084		<1	0.02	<10	1.32	195	<1	0.01	65	350	2	0.02	<2	1	9	<20
ZZ113085		<1	0.03	<10	1.73	251	<1	0.01	96	440	<2	0.04	<2	5	9	<20
ZZ113086		<1	0.02	<10	1.90	268	<1	<0.01	84	220	<2	0.02	<2	4	10	<20
ZZ113087		<1	0.03	<10	0.79	375	<1	<0.01	73	330	<2	0.02	3	11	7	<20
ZZ113088		1	0.01	<10	1.44	217	<1	<0.01	64	180	<2	0.01	<2	3	11	<20
ZZ113089		<1	0.02	<10	0.89	148	<1	0.01	41	590	2	0.06	<2	1	9	<20
ZZ113090		<1	0.05	<10	1.22	428	1	<0.01	92	350	2	0.03	8	14	11	<20
ZZ113091		<1	0.03	<10	1.39	308	<1	<0.01	90	560	2	0.03	3	7	9	<20
ZZ113092		<1	0.04	<10	1.44	322	<1	<0.01	119	340	<2	0.02	5	14	8	<20
ZZ113093		<1	0.02	<10	0.73	170	<1	0.01	33	460	<2	0.03	<2	2	8	<20
ZZ113094		<1	0.05	<10	0.68	588	<1	<0.01	21	810	6	0.02	<2	3	16	<20
ZZ113095		1	0.06	10	1.28	526	2	<0.01	33	800	14	0.02	3	4	28	<20
ZZ113096		1	0.04	10	0.88	527	1	0.02	31	690	10	0.05	6	4	21	<20
ZZ113097		<1	0.05	20	0.93	822	2	<0.01	35	860	11	0.02	<2	5	17	<20
ZZ113098		<1	0.02	<10	0.22	141	<1	0.02	7	430	2	0.03	<2	<1	7	<20
ZZ113099		<1	0.03	<10	1.12	388	<1	0.02	47	650	3	0.05	<2	1	11	<20
ZZ113100		<1	0.05	10	0.46	218	4	<0.01	31	400	9	0.02	<2	2	16	<20
ZZ113101		<1	0.04	10	0.72	255	2	0.01	34	550	9	0.02	<2	2	12	<20
ZZ113102		<1	0.03	10	0.64	229	1	0.01	26	250	6	0.02	<2	2	10	<20
ZZ113103		1	0.02	<10	1.30	215	<1	<0.01	49	290	2	0.02	<2	4	10	<20
ZZ113104		<1	0.04	<10	1.38	286	<1	0.01	57	520	3	0.05	<2	2	14	<20
ZZ113105		<1	0.06	<10	1.94	314	<1	<0.01	82	380	5	0.03	<2	5	14	<20
ZZ113106		<1	0.02	<10	1.38	248	<1	0.01	54	250	2	0.01	<2	3	10	<20
ZZ113107		<1	0.03	<10	1.00	205	<1	0.01	40	560	4	0.03	<2	3	12	<20
ZZ113108		1	0.03	<10	1.42	245	1	0.01	57	240	3	0.02	<2	5	12	<20
ZZ113109		<1	0.05	<10	1.42	324	1	0.01	56	500	3	0.03	<2	3	11	<20
ZZ113110		<1	0.05	<10	1.59	488	1	0.01	68	670	4	0.04	2	5	14	<20
ZZ113111		<1	0.06	<10	1.56	285	1	0.01	72	420	5	0.04	<2	4	13	<20
ZZ113112		<1	0.04	10	1.18	264	<1	0.01	47	290	5	0.03	<2	3	10	<20
ZZ113113		<1	0.06	10	1.40	364	1	0.01	63	640	4	0.05	<2	4	14	<20
ZZ113114		<1	0.03	<10	0.87	215	<1	0.01	34	430	3	0.02	<2	2	9	<20
ZZ113115		<1	0.04	<10	1.43	333	<1	0.01	67	330	2	0.02	<2	4	11	<20
ZZ113116		<1	0.04	10	1.32	382	<1	<0.01	60	880	4	0.06	<2	5	12	<20
ZZ113117		<1	0.03	<10	1.14	330	<1	0.01	54	770	3	0.06	<2	2	9	<20
ZZ113118		<1	0.03	<10	1.51	446	<1	0.01	82	790	2	0.05	<2	7	10	<20
ZZ113119		<1	0.03	<10	1.37	220	<1	0.01	59	380	3	0.03	<2	5	11	<20
ZZ113120		1	0.01	<10	1.03	168	<1	<0.01	41	150	2	0.01	<2	2	9	<20



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	Au- ICP21
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm	Au ppm
		0.01	10	10	1	10	2	0.001
ZZ113081		0.04	<10	<10	34	<10	24	<0.001
ZZ113082		0.06	<10	<10	33	<10	20	<0.001
ZZ113083		0.06	<10	<10	37	<10	24	<0.001
ZZ113084		0.03	<10	<10	27	<10	19	<0.001
ZZ113085		0.03	<10	<10	32	<10	40	<0.001
ZZ113086		0.03	<10	<10	28	<10	24	0.003
ZZ113087		0.01	<10	<10	46	<10	24	0.001
ZZ113088		0.06	<10	<10	30	<10	17	<0.001
ZZ113089		0.03	<10	<10	24	<10	17	<0.001
ZZ113090		0.01	<10	<10	48	<10	34	0.001
ZZ113091		0.02	<10	<10	44	<10	29	0.002
ZZ113092		0.01	<10	<10	47	<10	23	<0.001
ZZ113093		0.03	<10	<10	24	<10	17	<0.001
ZZ113094		0.01	<10	<10	38	<10	47	0.001
ZZ113095		0.01	<10	<10	27	<10	93	0.003
ZZ113096		0.02	<10	<10	32	<10	60	0.006
ZZ113097		<0.01	<10	<10	30	<10	113	<0.001
ZZ113098		0.03	<10	<10	17	<10	16	<0.001
ZZ113099		0.03	<10	<10	33	<10	49	<0.001
ZZ113100		0.06	<10	<10	49	<10	132	<0.001
ZZ113101		0.05	<10	<10	52	<10	76	0.001
ZZ113102		0.10	<10	<10	57	<10	28	0.001
ZZ113103		0.04	<10	<10	37	<10	35	0.001
ZZ113104		0.07	<10	<10	53	<10	29	<0.001
ZZ113105		0.07	<10	<10	64	<10	39	0.001
ZZ113106		0.08	<10	<10	41	<10	24	<0.001
ZZ113107		0.05	<10	<10	33	<10	26	<0.001
ZZ113108		0.06	<10	<10	45	<10	29	0.012
ZZ113109		0.05	<10	<10	49	<10	40	<0.001
ZZ113110		0.04	<10	<10	56	<10	36	<0.001
ZZ113111		0.07	<10	<10	53	<10	39	0.001
ZZ113112		0.10	<10	<10	50	<10	38	0.001
ZZ113113		0.05	<10	<10	54	<10	45	0.001
ZZ113114		0.08	<10	<10	40	<10	28	0.001
ZZ113115		0.06	<10	<10	49	<10	33	<0.001
ZZ113116		0.03	<10	<10	48	<10	40	0.001
ZZ113117		0.03	<10	<10	38	<10	30	0.001
ZZ113118		0.02	<10	<10	42	<10	32	0.001
ZZ113119		0.04	<10	<10	42	<10	30	0.003
ZZ113120		0.08	<10	<10	36	<10	18	<0.001



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Sample Description	Method	WEI- 21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga
Units		kg	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
LOR		0.02	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
ZZ113121		0.40	<0.2	1.10	2	<10	30	<0.5	<2	0.19	<0.5	7	86	16	1.41	<10
ZZ113122		0.43	<0.2	1.35	4	<10	30	<0.5	<2	0.22	<0.5	9	100	28	1.62	<10
ZZ113123		0.21	<0.2	1.70	4	<10	30	<0.5	<2	0.22	<0.5	12	151	61	1.72	<10
ZZ113124		0.35	<0.2	0.70	<2	<10	40	<0.5	<2	0.12	<0.5	4	39	15	0.93	<10
ZZ113125		0.24	<0.2	1.96	9	<10	50	<0.5	<2	0.20	<0.5	12	114	40	2.83	10
ZZ113126		0.26	<0.2	1.27	5	<10	40	<0.5	<2	0.11	<0.5	3	45	21	1.69	10
ZZ113127		0.29	<0.2	0.99	6	<10	30	<0.5	<2	0.18	<0.5	9	98	19	1.91	<10
ZZ113128		0.26	<0.2	1.77	5	<10	70	<0.5	<2	0.24	<0.5	13	135	85	1.63	<10
ZZ113129		0.35	<0.2	1.41	4	<10	30	<0.5	<2	0.26	<0.5	11	86	22	1.42	<10
ZZ113130		0.45	<0.2	1.02	3	<10	20	<0.5	<2	0.37	<0.5	14	87	26	1.23	<10
ZZ113131		0.34	<0.2	1.32	2	<10	20	<0.5	<2	0.24	<0.5	13	113	15	1.32	<10
ZZ113132		1.41	<0.2	1.47	7	<10	40	<0.5	<2	0.20	<0.5	13	83	24	1.95	<10
ZZ113133		0.52	<0.2	1.66	20	<10	60	<0.5	<2	0.33	<0.5	14	117	85	2.19	<10
ZZ113134		0.55	0.3	1.45	27	<10	100	<0.5	<2	0.49	0.7	16	94	58	2.09	<10
ZZ113135		0.46	<0.2	1.11	21	<10	40	<0.5	<2	0.28	1.0	16	48	43	2.97	<10
ZZ113136		0.49	<0.2	1.89	21	<10	170	<0.5	<2	0.84	2.2	12	66	46	4.95	<10
ZZ113137		0.38	<0.2	1.21	9	<10	70	<0.5	<2	0.08	<0.5	5	36	24	2.34	10
ZZ113138		0.36	<0.2	0.97	23	<10	50	<0.5	<2	0.07	0.6	7	31	37	3.62	<10
ZZ113139		0.32	1.0	1.08	87	<10	230	<0.5	<2	0.08	0.5	5	43	37	5.23	<10
ZZ113140		0.37	0.2	1.15	22	<10	60	<0.5	<2	0.29	1.1	10	49	30	2.72	<10
ZZ113141		0.37	0.2	0.95	27	<10	70	<0.5	<2	0.27	<0.5	7	43	37	2.46	<10
ZZ113142		0.32	1.3	0.95	41	<10	80	<0.5	<2	0.06	<0.5	7	31	49	4.54	<10
ZZ113143		0.37	0.4	0.83	23	<10	50	<0.5	<2	0.05	1.1	6	25	75	3.85	<10
ZZ113144		0.44	0.8	0.54	58	<10	80	<0.5	<2	0.08	2.7	18	6	50	4.96	<10
ZZ113145		0.43	<0.2	0.69	12	<10	60	<0.5	<2	0.15	<0.5	9	35	17	2.24	<10
ZZ113146		0.34	<0.2	0.84	16	<10	50	<0.5	<2	0.12	<0.5	7	37	29	2.13	<10
ZZ113147		0.30	0.2	0.71	17	<10	110	<0.5	<2	0.43	1.1	14	21	49	5.96	<10
ZZ113148		0.38	<0.2	1.20	5	<10	60	<0.5	<2	0.24	1.3	25	12	63	5.21	<10
ZZ113149		0.33	0.3	1.61	29	<10	110	0.5	<2	0.09	0.7	6	39	20	2.66	10
ZZ113150		0.31	0.3	1.61	44	<10	140	<0.5	<2	0.10	0.5	8	56	19	2.79	10
ZZ113151		0.39	<0.2	1.61	11	<10	70	<0.5	<2	0.25	<0.5	11	79	20	2.73	<10
ZZ113152		0.43	<0.2	1.68	8	<10	50	<0.5	<2	0.26	<0.5	10	90	20	2.22	<10
ZZ113153		0.45	<0.2	1.77	11	<10	120	<0.5	<2	0.38	<0.5	13	79	24	2.60	<10
ZZ113154		0.48	0.2	0.67	10	<10	50	<0.5	<2	0.09	<0.5	5	31	14	1.87	10
ZZ113155		0.48	<0.2	1.64	14	<10	60	<0.5	<2	0.27	0.5	11	88	21	2.67	<10
ZZ113156		0.46	0.4	0.95	12	<10	40	<0.5	<2	0.10	<0.5	5	33	15	2.16	<10
ZZ113157		0.54	0.2	1.97	12	<10	60	<0.5	<2	0.21	<0.5	8	54	23	2.98	<10
ZZ113158		0.45	0.2	1.55	12	<10	60	<0.5	<2	0.14	<0.5	7	44	18	2.42	10
ZZ113159		0.39	<0.2	1.70	17	<10	70	<0.5	<2	0.11	0.5	9	42	34	3.79	<10
ZZ113160		0.42	<0.2	1.08	12	<10	60	<0.5	<2	0.11	<0.5	5	32	13	2.32	10



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm
		1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1	20
ZZ113121		<1	0.02	<10	0.64	153	1	0.01	27	310	3	0.03	<2	1	9	<20
ZZ113122		<1	0.02	<10	0.90	172	1	0.01	35	390	4	0.02	<2	2	9	<20
ZZ113123		<1	0.03	<10	1.30	254	<1	0.01	55	330	3	0.03	<2	2	8	<20
ZZ113124		<1	0.04	<10	0.36	78	<1	0.02	13	320	3	0.01	<2	1	7	<20
ZZ113125		<1	0.06	10	1.05	314	1	0.01	43	620	6	0.05	<2	1	10	<20
ZZ113126		1	0.03	10	0.35	105	1	0.01	13	320	8	0.03	<2	1	8	<20
ZZ113127		<1	0.03	<10	0.69	177	1	0.01	31	320	4	0.04	<2	2	10	<20
ZZ113128		<1	0.03	<10	1.18	368	<1	0.01	48	660	3	0.06	<2	2	12	<20
ZZ113129		1	0.02	<10	0.79	178	<1	0.01	30	310	3	0.03	<2	1	13	<20
ZZ113130		<1	0.02	<10	0.92	178	<1	0.01	34	230	<2	0.01	<2	2	14	<20
ZZ113131		<1	0.01	<10	1.14	137	<1	0.01	39	190	<2	0.02	2	2	11	<20
ZZ113132		<1	0.03	<10	1.05	221	<1	0.01	34	400	2	0.02	<2	1	15	<20
ZZ113133		<1	0.03	10	1.16	265	2	0.01	49	500	6	0.02	2	4	21	<20
ZZ113134		<1	0.04	10	0.97	293	3	0.01	44	750	6	0.04	<2	4	23	<20
ZZ113135		<1	0.04	10	0.67	402	3	0.01	40	860	11	0.02	<2	2	16	<20
ZZ113136		<1	0.07	10	0.62	696	7	0.01	38	3210	13	0.14	2	2	36	<20
ZZ113137		<1	0.08	10	0.29	193	2	<0.01	15	390	9	0.05	<2	1	10	<20
ZZ113138		<1	0.04	10	0.29	381	4	<0.01	28	580	16	0.04	3	1	8	<20
ZZ113139		1	0.11	10	0.27	246	8	0.02	24	1480	23	0.22	14	<1	74	<20
ZZ113140		1	0.04	10	0.51	335	3	0.01	27	730	8	0.04	3	1	19	<20
ZZ113141		<1	0.03	10	0.42	263	4	<0.01	23	670	7	0.03	3	<1	20	<20
ZZ113142		<1	0.04	10	0.20	356	10	<0.01	23	960	20	0.06	5	<1	18	<20
ZZ113143		<1	0.06	10	0.18	160	7	<0.01	49	1150	16	0.04	3	<1	8	<20
ZZ113144		<1	0.08	20	0.07	740	11	<0.01	60	800	26	0.02	<2	1	7	<20
ZZ113145		<1	0.04	10	0.25	435	3	<0.01	17	490	10	0.04	2	1	12	<20
ZZ113146		<1	0.04	10	0.24	155	3	0.01	16	570	10	0.05	2	1	12	<20
ZZ113147		1	0.04	10	0.20	1115	5	<0.01	37	1000	15	0.04	9	4	18	<20
ZZ113148		<1	0.04	20	0.62	1010	3	<0.01	49	1320	14	0.03	3	3	13	<20
ZZ113149		<1	0.07	10	0.42	267	3	0.01	17	580	20	0.07	2	1	14	<20
ZZ113150		<1	0.11	10	0.71	462	3	0.01	28	510	17	0.06	2	2	14	<20
ZZ113151		<1	0.06	10	0.82	306	1	0.01	35	480	7	0.03	<2	2	12	<20
ZZ113152		<1	0.04	10	0.83	208	1	<0.01	33	420	4	0.03	<2	2	11	<20
ZZ113153		1	0.05	10	0.96	351	1	0.01	38	340	6	0.02	2	3	17	<20
ZZ113154		<1	0.03	10	0.16	133	2	<0.01	13	340	7	0.03	<2	1	8	<20
ZZ113155		<1	0.04	10	0.88	285	1	0.01	33	280	5	0.02	<2	3	12	<20
ZZ113156		<1	0.03	10	0.26	144	1	<0.01	14	490	8	0.04	<2	1	8	<20
ZZ113157		1	0.04	10	0.59	278	1	0.01	22	720	6	0.03	<2	3	11	<20
ZZ113158		<1	0.05	10	0.43	289	2	<0.01	17	490	9	0.02	<2	1	10	<20
ZZ113159		<1	0.06	10	0.50	353	2	<0.01	26	760	11	0.02	2	2	9	<20
ZZ113160		1	0.05	10	0.31	350	2	<0.01	14	580	10	0.01	<2	1	10	<20



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	Au- ICP21
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm	Au ppm
		0.01	10	10	1	10	2	0.001
ZZ113121		0.09	<10	<10	40	<10	22	0.001
ZZ113122		0.07	<10	<10	43	<10	26	<0.001
ZZ113123		0.07	<10	<10	40	<10	28	<0.001
ZZ113124		0.06	<10	<10	23	<10	15	<0.001
ZZ113125		0.06	<10	<10	59	<10	46	0.002
ZZ113126		0.08	<10	<10	52	<10	22	0.001
ZZ113127		0.13	<10	<10	53	<10	30	<0.001
ZZ113128		0.04	<10	<10	35	<10	41	0.001
ZZ113129		0.06	<10	<10	35	<10	22	0.003
ZZ113130		0.09	<10	<10	29	<10	17	<0.001
ZZ113131		0.10	<10	<10	30	<10	20	<0.001
ZZ113132		0.04	<10	<10	37	<10	41	<0.001
ZZ113133		0.04	<10	<10	48	<10	61	0.004
ZZ113134		0.02	<10	<10	38	<10	100	0.001
ZZ113135		0.03	<10	<10	36	<10	162	0.002
ZZ113136		0.02	<10	<10	49	<10	384	0.001
ZZ113137		0.09	<10	<10	83	<10	66	<0.001
ZZ113138		0.04	<10	<10	42	<10	169	0.001
ZZ113139		0.03	<10	<10	69	<10	178	0.009
ZZ113140		0.03	<10	<10	39	<10	141	<0.001
ZZ113141		0.02	<10	<10	43	<10	120	0.001
ZZ113142		0.02	<10	<10	53	<10	216	0.003
ZZ113143		0.01	<10	<10	26	<10	314	0.002
ZZ113144		<0.01	<10	<10	8	<10	359	0.075
ZZ113145		0.05	<10	<10	43	<10	68	<0.001
ZZ113146		0.07	<10	<10	57	<10	52	<0.001
ZZ113147		0.01	<10	<10	32	<10	140	<0.001
ZZ113148		0.01	<10	<10	16	<10	182	<0.001
ZZ113149		0.05	<10	<10	60	<10	77	0.002
ZZ113150		0.08	<10	<10	69	<10	90	<0.001
ZZ113151		0.07	<10	<10	62	<10	61	<0.001
ZZ113152		0.06	<10	<10	50	<10	37	<0.001
ZZ113153		0.09	<10	<10	62	<10	52	0.001
ZZ113154		0.09	<10	<10	71	<10	37	0.003
ZZ113155		0.10	<10	<10	64	<10	53	<0.001
ZZ113156		0.06	<10	<10	52	<10	45	0.001
ZZ113157		0.05	<10	<10	60	<10	59	<0.001
ZZ113158		0.05	<10	<10	62	<10	61	0.001
ZZ113159		0.02	<10	<10	62	<10	149	0.001
ZZ113160		0.07	<10	<10	56	<10	52	<0.001



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Sample Description	Method	WEI- 21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
	Analyte	Recvd Wt.	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga
Units		kg	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm
LOR		0.02	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
ZZ113161		0.43	0.2	1.56	14	<10	60	<0.5	<2	0.13	<0.5	6	42	23	2.69	<10
ZZ113162		0.47	<0.2	1.02	18	<10	50	<0.5	<2	0.13	<0.5	6	39	13	2.38	10
ZZ113163		0.44	0.2	1.31	17	<10	70	<0.5	<2	0.11	<0.5	7	37	16	2.62	10
ZZ113164		0.35	0.4	0.87	7	<10	150	<0.5	<2	0.14	0.5	3	23	9	1.13	<10
ZZ113165		0.54	0.2	1.12	7	<10	40	<0.5	<2	0.10	<0.5	2	30	8	1.46	<10
ZZ113166		0.48	<0.2	1.27	7	<10	40	<0.5	<2	0.14	<0.5	7	44	20	2.36	<10
ZZ113167		0.48	0.2	1.22	11	<10	80	<0.5	<2	0.14	<0.5	5	36	18	1.89	<10
ZZ113168		0.43	0.2	1.29	35	<10	60	<0.5	<2	0.11	0.5	5	37	14	2.28	<10
ZZ113169		0.46	0.5	0.75	96	<10	60	<0.5	<2	0.12	<0.5	3	24	12	1.51	<10
ZZ113170		0.48	0.3	0.84	50	<10	50	<0.5	<2	0.11	<0.5	3	23	6	1.13	10
ZZ113171		0.51	<0.2	1.01	40	<10	60	<0.5	<2	0.13	<0.5	6	34	11	2.36	<10
ZZ113172		0.44	0.3	1.54	89	<10	100	<0.5	<2	0.12	<0.5	6	40	17	2.51	<10
ZZ113173		0.33	0.5	1.10	162	<10	90	<0.5	<2	0.06	<0.5	3	24	17	2.26	10
ZZ113174		0.49	0.3	1.76	138	<10	90	<0.5	<2	0.11	0.8	6	45	24	3.04	<10
ZZ113175		0.43	<0.2	1.23	47	<10	60	<0.5	<2	0.12	<0.5	5	37	17	2.15	10
ZZ113176		0.50	0.6	1.31	135	<10	80	<0.5	<2	0.12	0.7	5	39	24	2.31	<10
ZZ113177		0.48	0.2	1.57	72	<10	70	<0.5	2	0.11	<0.5	7	52	28	3.80	10
ZZ113178		0.39	0.3	1.18	22	<10	50	<0.5	<2	0.09	<0.5	5	36	16	3.24	10
ZZ113179		0.40	0.2	0.85	18	<10	40	<0.5	<2	0.09	<0.5	2	21	7	1.35	10
ZZ113180		0.48	<0.2	1.60	18	<10	70	<0.5	<2	0.19	<0.5	8	50	25	2.66	<10
ZZ113181		0.56	<0.2	1.22	18	<10	80	<0.5	<2	0.17	<0.5	6	39	22	2.02	<10
ZZ113182		0.37	<0.2	0.76	16	<10	50	<0.5	<2	0.10	<0.5	4	26	15	1.42	<10
ZZ113183		0.55	<0.2	1.13	19	<10	70	<0.5	<2	0.18	<0.5	6	41	25	2.10	<10
ZZ113184		0.45	0.2	1.89	24	<10	90	<0.5	<2	0.16	0.9	12	56	31	3.62	10
ZZ113185		0.47	<0.2	1.02	36	<10	80	<0.5	<2	0.25	<0.5	17	34	55	3.52	10
ZZ113186		0.03	0.2	1.46	80	<10	210	<0.5	<2	0.70	<0.5	54	76	196	10.90	10
ZZ113187		0.39	0.2	1.66	167	<10	250	0.5	<2	0.84	<0.5	31	52	143	6.15	10
ZZ113188		0.34	<0.2	1.09	20	<10	130	<0.5	<2	0.32	<0.5	10	31	33	2.36	<10
ZZ113189		0.50	<0.2	1.54	10	<10	90	<0.5	<2	0.22	<0.5	14	60	39	2.63	<10
ZZ113190		0.48	<0.2	1.60	4	<10	100	<0.5	<2	0.23	<0.5	14	95	37	2.33	<10
ZZ113191		0.49	<0.2	1.56	15	<10	150	<0.5	<2	0.39	<0.5	16	122	58	2.58	<10
ZZ113192		0.38	0.3	1.58	11	<10	110	<0.5	<2	0.23	<0.5	14	103	39	2.38	<10
ZZ113193		0.51	<0.2	1.62	7	<10	70	<0.5	<2	0.38	<0.5	20	151	68	2.41	<10
ZZ113194		0.55	<0.2	1.50	5	<10	40	<0.5	<2	0.25	<0.5	16	169	48	2.05	<10
ZZ113195		0.40	<0.2	1.89	2	<10	50	<0.5	<2	0.37	<0.5	24	244	242	2.45	<10
ZZ113196		0.45	<0.2	1.62	4	<10	40	<0.5	<2	0.21	<0.5	16	161	65	2.19	<10
ZZ113197		0.48	<0.2	1.56	4	<10	30	<0.5	<2	0.18	<0.5	11	100	57	2.02	<10
ZZ113198		0.45	<0.2	1.43	3	<10	20	<0.5	<2	0.20	<0.5	12	196	28	1.89	<10
ZZ113199		0.53	<0.2	1.55	3	<10	40	<0.5	<2	0.33	<0.5	20	205	209	1.91	<10
ZZ113200		0.52	<0.2	1.61	3	<10	30	<0.5	<2	0.29	<0.5	22	200	86	1.81	<10



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		Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm
		1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1	20
ZZ113161		<1	0.05	10	0.53	235	2	<0.01	20	610	10	0.02	<2	1	8	<20
ZZ113162		1	0.05	10	0.41	249	2	0.01	18	480	10	0.01	<2	1	10	<20
ZZ113163		1	0.06	10	0.39	436	3	<0.01	19	650	12	0.02	2	<1	10	<20
ZZ113164		1	0.04	10	0.17	151	2	<0.01	9	770	7	0.03	<2	<1	14	<20
ZZ113165		1	0.03	10	0.25	95	1	<0.01	10	350	9	0.01	<2	1	8	<20
ZZ113166		<1	0.04	10	0.50	236	2	0.01	20	700	8	0.02	2	1	9	<20
ZZ113167		<1	0.05	10	0.38	177	1	<0.01	20	550	8	0.01	2	1	9	<20
ZZ113168		<1	0.05	10	0.37	166	1	<0.01	18	400	8	0.02	<2	1	9	<20
ZZ113169		<1	0.05	10	0.26	148	2	<0.01	15	620	38	0.02	<2	<1	9	<20
ZZ113170		1	0.04	10	0.23	200	2	<0.01	10	230	17	0.01	<2	1	9	<20
ZZ113171		<1	0.05	20	0.39	218	2	0.01	20	320	12	0.01	2	2	10	<20
ZZ113172		<1	0.05	10	0.45	177	2	<0.01	23	240	22	0.02	3	3	10	<20
ZZ113173		1	0.04	10	0.20	101	3	0.01	13	440	73	0.04	10	2	10	<20
ZZ113174		<1	0.05	10	0.50	189	2	0.01	27	390	47	0.03	5	3	11	<20
ZZ113175		<1	0.03	10	0.38	147	1	<0.01	18	440	28	0.01	2	2	9	<20
ZZ113176		1	0.05	10	0.42	147	2	0.01	24	490	76	0.03	6	3	12	<20
ZZ113177		<1	0.05	10	0.58	213	2	0.01	22	720	40	0.04	3	3	12	<20
ZZ113178		1	0.04	10	0.37	199	2	<0.01	16	760	18	0.02	<2	2	9	<20
ZZ113179		1	0.03	10	0.18	121	2	<0.01	9	370	24	0.01	<2	1	9	<20
ZZ113180		<1	0.05	10	0.67	217	1	0.01	26	670	12	0.01	3	3	12	<20
ZZ113181		1	0.05	10	0.46	152	1	<0.01	21	620	14	0.02	<2	2	12	<20
ZZ113182		1	0.04	10	0.27	101	2	<0.01	13	450	11	0.01	2	1	9	<20
ZZ113183		<1	0.05	10	0.58	175	3	0.01	27	360	18	<0.01	<2	2	12	<20
ZZ113184		<1	0.05	10	0.70	486	2	0.01	33	580	21	<0.01	<2	3	12	<20
ZZ113185		<1	0.04	<10	0.57	326	<1	0.03	29	410	2	0.03	<2	7	15	<20
ZZ113186		<1	0.06	<10	1.77	820	<1	0.02	96	490	2	0.02	6	23	18	<20
ZZ113187		<1	0.09	<10	1.11	805	<1	0.02	54	1080	3	0.03	6	23	24	<20
ZZ113188		<1	0.05	<10	0.47	379	1	0.01	18	920	3	0.03	<2	3	14	<20
ZZ113189		<1	0.05	10	0.81	459	1	0.01	34	670	5	0.01	<2	2	12	<20
ZZ113190		<1	0.04	10	1.15	496	1	<0.01	41	510	5	0.01	2	2	11	<20
ZZ113191		<1	0.05	<10	1.23	390	1	0.01	52	450	2	0.01	<2	5	14	<20
ZZ113192		<1	0.04	<10	1.08	434	1	0.01	38	600	4	0.01	<2	2	10	<20
ZZ113193		<1	0.04	<10	1.61	415	<1	0.01	59	430	2	<0.01	<2	5	14	<20
ZZ113194		<1	0.03	<10	1.34	317	1	<0.01	61	410	2	0.01	<2	3	10	<20
ZZ113195		<1	0.03	<10	2.25	360	<1	0.01	117	340	2	<0.01	<2	4	12	<20
ZZ113196		<1	0.03	<10	1.36	297	<1	<0.01	60	320	2	<0.01	<2	2	10	<20
ZZ113197		<1	0.03	<10	0.82	158	1	<0.01	39	310	2	0.01	<2	2	10	<20
ZZ113198		<1	0.02	<10	1.26	164	<1	<0.01	61	190	<2	<0.01	<2	2	9	<20
ZZ113199		<1	0.03	<10	1.65	241	<1	<0.01	82	250	<2	<0.01	<2	3	12	<20
ZZ113200		<1	0.02	<10	1.51	247	<1	<0.01	76	330	<2	<0.01	<2	2	10	<20



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	Au- ICP21
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm	Au ppm
		0.01	10	10	1	10	2	0.001
ZZ113161		0.02	<10	<10	53	<10	61	<0.001
ZZ113162		0.04	<10	<10	62	<10	63	<0.001
ZZ113163		0.02	<10	<10	65	<10	73	<0.001
ZZ113164		0.02	<10	<10	37	<10	38	<0.001
ZZ113165		0.04	<10	<10	43	<10	33	<0.001
ZZ113166		0.04	<10	<10	54	<10	49	<0.001
ZZ113167		0.02	<10	<10	41	<10	55	0.001
ZZ113168		0.04	<10	<10	45	<10	67	<0.001
ZZ113169		0.01	<10	<10	30	<10	73	<0.001
ZZ113170		0.06	<10	<10	44	<10	38	<0.001
ZZ113171		0.04	<10	<10	44	<10	78	0.004
ZZ113172		0.04	<10	<10	57	<10	89	0.001
ZZ113173		0.03	<10	<10	69	<10	62	<0.001
ZZ113174		0.03	<10	<10	69	<10	117	<0.001
ZZ113175		0.06	<10	<10	57	<10	59	<0.001
ZZ113176		0.04	<10	<10	55	<10	108	0.001
ZZ113177		0.07	<10	<10	98	<10	84	<0.001
ZZ113178		0.12	<10	<10	100	<10	72	<0.001
ZZ113179		0.11	<10	<10	61	<10	31	<0.001
ZZ113180		0.08	<10	<10	59	<10	70	<0.001
ZZ113181		0.05	<10	<10	53	<10	60	<0.001
ZZ113182		0.06	<10	<10	47	<10	42	<0.001
ZZ113183		0.07	<10	<10	54	<10	69	<0.001
ZZ113184		0.07	<10	<10	72	<10	109	<0.001
ZZ113185		0.05	<10	<10	149	<10	40	0.006
ZZ113186		0.09	<10	<10	530	<10	72	0.010
ZZ113187		0.03	<10	<10	183	<10	63	0.035
ZZ113188		0.03	<10	<10	59	<10	29	0.002
ZZ113189		0.05	<10	<10	62	<10	46	<0.001
ZZ113190		0.05	<10	<10	49	<10	39	<0.001
ZZ113191		0.03	<10	<10	52	<10	37	<0.001
ZZ113192		0.02	<10	<10	52	<10	46	0.001
ZZ113193		0.09	<10	<10	51	<10	38	<0.001
ZZ113194		0.06	<10	<10	47	<10	26	<0.001
ZZ113195		0.08	<10	<10	42	<10	32	<0.001
ZZ113196		0.08	<10	<10	44	<10	32	<0.001
ZZ113197		0.06	<10	<10	40	<10	26	<0.001
ZZ113198		0.12	<10	<10	43	<10	22	<0.001
ZZ113199		0.07	<10	<10	32	<10	27	0.002
ZZ113200		0.08	<10	<10	32	<10	24	<0.001



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Sample Description	Method Analyte Units LOR	WEI- 21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Recvd Wt. kg	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Ga ppm
		0.02	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
ZZ113201		0.42	<0.2	1.67	4	<10	60	<0.5	<2	0.20	<0.5	12	139	107	1.87	<10
ZZ113202		0.43	<0.2	1.18	6	<10	20	<0.5	<2	0.17	<0.5	10	90	29	2.34	10
ZZ113203		0.57	<0.2	1.31	2	<10	20	<0.5	<2	0.21	<0.5	10	136	48	1.57	<10
ZZ113204		0.48	<0.2	1.91	3	<10	50	<0.5	<2	0.31	<0.5	21	200	190	2.20	<10
ZZ113205		0.46	<0.2	1.83	4	<10	40	<0.5	<2	0.28	<0.5	20	183	105	2.18	<10
ZZ113206		0.69	<0.2	1.54	3	<10	40	<0.5	<2	0.32	<0.5	17	140	78	1.99	<10
ZZ113207		0.49	<0.2	1.38	3	<10	20	<0.5	<2	0.32	<0.5	18	120	63	2.01	<10
ZZ113208		0.48	<0.2	1.54	4	<10	30	<0.5	<2	0.24	<0.5	14	147	43	2.41	10
ZZ113209		0.40	<0.2	0.71	2	<10	20	<0.5	<2	0.15	<0.5	6	63	12	1.58	10
ZZ113210		0.41	<0.2	1.22	4	<10	40	<0.5	<2	0.11	<0.5	6	47	24	1.94	10
ZZ113211		0.33	<0.2	1.01	2	<10	20	<0.5	<2	0.15	<0.5	9	77	53	1.60	<10
ZZ113212		0.42	<0.2	1.76	5	<10	30	<0.5	<2	0.26	<0.5	15	116	40	2.45	<10
ZZ113213		0.42	<0.2	1.81	3	<10	30	<0.5	<2	0.19	<0.5	13	119	38	2.52	10
ZZ113214		0.44	<0.2	1.54	5	<10	30	<0.5	<2	0.16	<0.5	10	99	33	2.35	<10
ZZ113215		0.41	<0.2	1.60	3	<10	30	<0.5	<2	0.17	<0.5	13	145	32	2.46	10
ZZ113216		0.50	<0.2	2.81	6	<10	90	<0.5	<2	0.35	<0.5	26	267	112	3.57	10
ZZ113217		0.37	<0.2	1.98	3	<10	90	<0.5	<2	0.38	<0.5	18	203	92	1.99	<10
ZZ113218		0.53	<0.2	2.51	4	<10	30	<0.5	<2	0.31	<0.5	20	247	68	3.27	10
ZZ113219		0.48	<0.2	1.63	5	<10	40	<0.5	<2	0.32	<0.5	13	135	58	2.21	<10
ZZ113220		0.40	<0.2	1.46	3	<10	30	<0.5	<2	0.26	<0.5	15	148	69	1.92	<10
ZZ113221		0.30	<0.2	1.47	2	<10	30	<0.5	<2	0.25	<0.5	15	140	65	1.86	<10
ZZ113222		0.53	<0.2	1.49	6	<10	30	<0.5	<2	0.25	<0.5	16	117	46	2.37	<10
ZZ113223		0.40	<0.2	1.22	6	<10	50	<0.5	<2	0.23	<0.5	9	87	36	2.30	10
ZZ113224		0.43	<0.2	1.39	4	<10	40	<0.5	<2	0.23	<0.5	12	100	47	2.30	<10
ZZ113225		0.38	<0.2	1.31	4	<10	20	<0.5	<2	0.27	<0.5	17	93	97	1.91	<10
ZZ113226		0.45	<0.2	1.46	5	<10	30	<0.5	<2	0.34	<0.5	23	110	122	2.60	<10
ZZ113227		0.55	<0.2	1.92	5	<10	30	<0.5	<2	0.29	<0.5	24	163	138	2.69	<10
ZZ113228		0.48	<0.2	1.42	3	<10	40	<0.5	<2	0.20	<0.5	10	103	33	2.28	10
ZZ113229		0.44	<0.2	1.76	4	<10	50	<0.5	<2	0.24	<0.5	17	137	68	2.41	<10
ZZ113230		0.38	<0.2	1.26	4	<10	50	<0.5	<2	0.14	<0.5	14	116	36	1.99	<10
ZZ113231		0.64	<0.2	1.56	2	<10	20	<0.5	<2	0.30	<0.5	15	115	65	2.01	<10
ZZ113232		0.47	<0.2	1.67	3	<10	30	<0.5	<2	0.18	<0.5	14	145	52	2.55	<10
ZZ113233		0.45	<0.2	1.67	4	<10	40	<0.5	<2	0.16	<0.5	7	59	52	2.29	10
ZZ113234		0.41	<0.2	0.98	4	<10	40	<0.5	<2	0.11	<0.5	8	74	44	1.67	<10
ZZ113235		0.48	<0.2	1.80	3	<10	20	<0.5	<2	0.27	<0.5	14	87	82	3.35	10
ZZ113236		0.51	<0.2	1.32	3	<10	30	<0.5	<2	0.22	<0.5	9	77	51	1.82	<10
ZZ113237		0.42	<0.2	1.15	4	<10	20	<0.5	<2	0.15	<0.5	11	101	36	2.21	<10
ZZ113238		0.41	<0.2	1.04	4	<10	40	<0.5	<2	0.10	<0.5	5	49	16	1.97	10
ZZ113239		0.40	<0.2	1.52	4	<10	30	<0.5	<2	0.16	<0.5	14	160	40	2.22	<10
ZZ113240		0.46	<0.2	1.65	5	<10	20	<0.5	<2	0.18	<0.5	20	148	53	2.23	<10



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Sample Description	Method	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
	Analyte Units LOR	Hg ppm 1	K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 2	Sc ppm 1	Sr ppm 1	Th ppm 20
ZZ113201		<1	0.03	10	1.06	204	1	0.01	48	470	4	0.02	<2	2	11	<20
ZZ113202		<1	0.02	<10	0.59	139	1	<0.01	28	280	3	<0.01	<2	2	9	<20
ZZ113203		<1	0.02	<10	0.97	162	<1	<0.01	43	290	2	<0.01	<2	2	9	<20
ZZ113204		<1	0.03	<10	1.76	392	<1	0.01	80	470	3	<0.01	<2	4	13	<20
ZZ113205		<1	0.03	<10	1.67	377	<1	0.01	68	370	2	<0.01	<2	4	11	<20
ZZ113206		<1	0.03	<10	1.37	338	<1	<0.01	57	400	2	<0.01	<2	4	11	<20
ZZ113207		<1	0.01	<10	1.30	299	<1	<0.01	46	270	2	<0.01	<2	3	10	<20
ZZ113208		<1	0.02	<10	1.18	232	1	<0.01	45	240	3	<0.01	<2	3	10	<20
ZZ113209		<1	0.02	<10	0.45	97	1	<0.01	18	180	3	<0.01	<2	2	7	<20
ZZ113210		<1	0.02	10	0.37	129	<1	<0.01	15	430	4	0.02	<2	1	8	<20
ZZ113211		<1	0.02	<10	0.76	168	<1	0.01	27	320	2	0.01	<2	1	8	<20
ZZ113212		<1	0.02	<10	1.19	282	<1	0.01	45	190	3	<0.01	<2	3	11	<20
ZZ113213		<1	0.03	<10	1.02	297	1	<0.01	39	390	4	0.02	<2	2	9	<20
ZZ113214		<1	0.02	<10	0.79	190	1	0.01	32	310	6	0.01	<2	2	9	<20
ZZ113215		<1	0.02	<10	1.09	423	1	<0.01	43	280	2	0.01	<2	2	9	<20
ZZ113216		<1	0.05	<10	2.48	410	1	0.01	99	230	2	<0.01	<2	6	15	<20
ZZ113217		<1	0.03	<10	1.62	315	1	0.01	75	480	2	0.02	<2	3	13	<20
ZZ113218		<1	0.02	<10	2.26	299	<1	0.01	81	260	<2	0.01	<2	4	12	<20
ZZ113219		<1	0.02	<10	1.22	247	<1	0.01	44	320	2	0.01	<2	2	11	<20
ZZ113220		<1	0.02	<10	1.28	306	<1	<0.01	48	440	<2	0.01	<2	2	10	<20
ZZ113221		<1	0.02	<10	1.19	281	<1	0.01	46	520	3	0.02	<2	1	10	<20
ZZ113222		<1	0.02	<10	1.22	307	<1	<0.01	45	310	2	0.01	<2	2	11	<20
ZZ113223		<1	0.02	<10	0.65	161	1	<0.01	28	360	5	0.02	<2	2	11	<20
ZZ113224		<1	0.02	10	1.09	216	<1	<0.01	37	380	2	<0.01	<2	3	10	<20
ZZ113225		<1	0.02	<10	1.04	330	<1	<0.01	43	440	2	<0.01	<2	3	11	<20
ZZ113226		<1	0.02	<10	1.38	414	<1	<0.01	49	420	3	<0.01	<2	4	12	<20
ZZ113227		<1	0.03	<10	1.74	495	<1	<0.01	63	430	2	<0.01	<2	5	11	<20
ZZ113228		<1	0.03	<10	0.90	225	1	<0.01	37	230	5	<0.01	<2	2	10	<20
ZZ113229		<1	0.03	<10	1.22	424	1	<0.01	50	390	2	0.01	<2	2	11	<20
ZZ113230		<1	0.03	<10	0.85	697	<1	<0.01	38	750	3	0.04	<2	1	9	<20
ZZ113231		<1	0.02	<10	1.22	291	<1	0.01	46	390	2	<0.01	<2	2	12	<20
ZZ113232		<1	0.02	<10	1.23	309	<1	<0.01	49	330	3	<0.01	<2	2	9	<20
ZZ113233		<1	0.03	10	0.45	191	1	<0.01	19	460	4	0.03	<2	1	10	<20
ZZ113234		<1	0.03	<10	0.58	255	1	0.01	21	430	3	0.03	<2	1	7	<20
ZZ113235		<1	0.01	<10	0.99	352	1	<0.01	32	410	2	0.01	<2	2	10	<20
ZZ113236		<1	0.02	<10	0.84	177	<1	0.01	29	480	3	<0.01	<2	2	10	<20
ZZ113237		<1	0.02	<10	0.78	173	<1	<0.01	32	410	2	0.03	<2	1	8	<20
ZZ113238		<1	0.02	10	0.35	112	<1	0.01	15	260	5	<0.01	<2	1	8	<20
ZZ113239		<1	0.02	<10	1.06	266	1	<0.01	48	430	3	0.03	<2	1	9	<20
ZZ113240		<1	0.02	<10	1.40	298	1	0.01	63	270	2	0.01	<2	2	9	<20



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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	Au- ICP21
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm	Au ppm
		0.01	10	10	1	10	2	0.001
ZZ113201		0.05	<10	<10	40	<10	28	0.001
ZZ113202		0.13	<10	<10	59	<10	23	<0.001
ZZ113203		0.09	<10	<10	38	<10	21	<0.001
ZZ113204		0.07	<10	<10	45	<10	37	<0.001
ZZ113205		0.09	<10	<10	46	<10	33	<0.001
ZZ113206		0.11	<10	<10	43	<10	28	<0.001
ZZ113207		0.09	<10	<10	50	<10	24	<0.001
ZZ113208		0.16	<10	<10	61	<10	26	<0.001
ZZ113209		0.19	<10	<10	61	<10	16	0.001
ZZ113210		0.07	<10	<10	46	<10	23	<0.001
ZZ113211		0.08	<10	<10	36	<10	20	<0.001
ZZ113212		0.13	<10	<10	54	<10	31	<0.001
ZZ113213		0.14	<10	<10	63	<10	36	<0.001
ZZ113214		0.13	<10	<10	60	<10	29	0.001
ZZ113215		0.21	<10	<10	73	<10	32	<0.001
ZZ113216		0.14	<10	<10	75	<10	48	<0.001
ZZ113217		0.05	<10	<10	38	<10	40	<0.001
ZZ113218		0.13	<10	<10	63	<10	34	<0.001
ZZ113219		0.08	<10	<10	51	<10	28	<0.001
ZZ113220		0.07	<10	<10	44	<10	29	<0.001
ZZ113221		0.05	<10	<10	42	<10	25	<0.001
ZZ113222		0.11	<10	<10	54	<10	27	<0.001
ZZ113223		0.12	<10	<10	64	<10	26	<0.001
ZZ113224		0.12	<10	<10	57	<10	25	0.004
ZZ113225		0.08	<10	<10	41	<10	30	0.006
ZZ113226		0.11	<10	<10	58	<10	30	<0.001
ZZ113227		0.08	<10	<10	62	<10	39	<0.001
ZZ113228		0.16	<10	<10	58	<10	27	<0.001
ZZ113229		0.08	<10	<10	51	<10	33	0.002
ZZ113230		0.04	<10	<10	45	<10	35	0.004
ZZ113231		0.10	<10	<10	42	<10	27	0.002
ZZ113232		0.11	<10	<10	55	<10	34	<0.001
ZZ113233		0.13	<10	<10	54	<10	30	<0.001
ZZ113234		0.12	<10	<10	43	<10	23	0.001
ZZ113235		0.36	<10	<10	86	<10	30	<0.001
ZZ113236		0.11	<10	<10	40	<10	25	<0.001
ZZ113237		0.16	<10	<10	54	<10	25	<0.001
ZZ113238		0.14	<10	<10	61	<10	20	<0.001
ZZ113239		0.12	<10	<10	49	<10	27	0.001
ZZ113240		0.08	<10	<10	39	<10	29	<0.001



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	ME- ICP41 Ag ppm	ME- ICP41 Al %	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca %	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe %	ME- ICP41 Ga ppm
		0.02	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01	10
ZZ113241		0.42	<0.2	1.00	3	<10	40	<0.5	<2	0.17	<0.5	8	79	24	1.78	<10
ZZ113242		0.42	<0.2	1.77	5	<10	20	<0.5	<2	0.18	<0.5	15	193	42	2.50	10
ZZ113243		0.50	<0.2	2.12	3	<10	30	<0.5	<2	0.48	<0.5	35	283	418	2.42	<10
ZZ113244		0.35	<0.2	0.71	2	<10	30	<0.5	<2	0.09	<0.5	3	43	10	1.17	10
ZZ113245		0.44	0.2	1.36	3	<10	20	<0.5	<2	0.19	<0.5	13	131	40	2.11	<10
ZZ113246		0.45	<0.2	1.46	6	<10	30	<0.5	<2	0.14	<0.5	14	255	43	2.64	10
ZZ113247		0.35	<0.2	1.53	2	<10	90	<0.5	<2	0.49	<0.5	9	88	90	2.24	10
ZZ113248		0.46	<0.2	1.99	3	<10	140	<0.5	<2	0.31	<0.5	7	49	59	2.93	10
ZZ113249		0.46	<0.2	1.48	4	<10	70	<0.5	<2	0.19	<0.5	10	45	21	2.43	<10
ZZ113250		0.43	<0.2	1.72	6	<10	160	<0.5	<2	0.37	<0.5	9	56	52	2.66	10

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		Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Sr ppm	Th ppm
		1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1	1	20
ZZ113241		<1	0.02	<10	0.60	148	<1	<0.01	29	320	4	<0.01	<2	1	9	<20
ZZ113242		<1	0.02	<10	1.40	199	<1	<0.01	73	200	3	<0.01	<2	2	9	<20
ZZ113243		<1	0.02	<10	2.40	300	1	<0.01	210	510	<2	0.01	2	4	11	<20
ZZ113244		<1	0.02	<10	0.24	68	1	<0.01	11	270	6	<0.01	<2	1	7	<20
ZZ113245		<1	0.02	<10	1.01	233	1	<0.01	42	440	2	0.01	<2	1	9	<20
ZZ113246		<1	0.02	<10	1.20	211	1	0.01	54	260	2	0.01	<2	2	7	<20
ZZ113247		<1	0.05	<10	1.00	284	1	0.01	31	830	4	0.04	<2	2	13	<20
ZZ113248		<1	0.06	10	1.27	214	<1	0.01	17	780	9	0.03	<2	2	13	<20
ZZ113249		<1	0.05	10	0.69	419	1	0.01	22	470	6	0.01	<2	1	12	<20
ZZ113250		<1	0.06	10	0.87	263	1	0.01	26	760	5	0.03	<2	3	18	<20

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Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	Au- ICP21
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm	Au ppm
		0.01	10	10	1	10	2	0.001
ZZ113241		0.10	<10	<10	49	<10	26	<0.001
ZZ113242		0.13	<10	<10	52	<10	27	<0.001
ZZ113243		0.04	<10	<10	31	<10	37	<0.001
ZZ113244		0.13	<10	<10	52	<10	13	<0.001
ZZ113245		0.07	<10	<10	40	<10	25	<0.001
ZZ113246		0.15	<10	<10	60	<10	26	<0.001
ZZ113247		0.04	<10	<10	46	<10	49	0.058
ZZ113248		0.05	<10	<10	60	<10	63	0.001
ZZ113249		0.06	<10	<10	58	<10	43	<0.001
ZZ113250		0.05	<10	<10	56	<10	49	<0.001

***** See Appendix Page for comments regarding this certificate *****



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Page: Appendix 1
Total # Appendix Pages: 1
Finalized Date: 19- JUL- 2017
Account: RCM

Project: ROSY

CERTIFICATE OF ANALYSIS WH17127290

CERTIFICATE COMMENTS	
	LABORATORY ADDRESSES
Applies to Method:	Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada. LOG- 22 SCR- 41 WEI- 21
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada. Au- ICP21 ME- ICP41



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 Total # Pages: 8 (A - D)
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 Finalized Date: 30- JUL- 2017
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CERTIFICATE WH17127294

Project: Rosy

This report is for 250 Soil samples submitted to our lab in Whitehorse, YT, Canada on 23-JUN- 2017.

The following have access to data associated with this certificate:

ANDREW CARNE	JULIA LANE	JOAN MARIACHER
--------------	------------	----------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	Ultra Trace Aqua Regia ICP- MS	

To: **ATAC RESOURCES LTD.**
ATTN: JULIA LANE
C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Comments: **WEI- 21 (Received Weight) for samples ZZ113291 and ZZ113292 are estimated based on reject and split weights as the original weights were entered incorrectly**

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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Project: Rosy

CERTIFICATE OF ANALYSIS WH17127294

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ113251		0.37	<0.001	0.07	0.51	3.3	<0.02	<10	60	0.23	0.22	0.11	0.37	51.6	5.1	12
ZZ113252		0.27	<0.001	0.07	0.72	3.9	<0.02	<10	70	0.13	0.24	0.06	0.18	26.3	3.4	21
ZZ113253		0.35	<0.001	0.14	0.82	16.5	<0.02	<10	100	0.22	0.18	0.13	1.12	36.8	9.2	26
ZZ113254		0.26	<0.001	0.03	0.37	2.2	<0.02	<10	30	0.07	0.08	0.04	0.17	8.20	2.4	7
ZZ113255		0.39	0.002	0.10	1.33	11.5	<0.02	<10	80	0.36	1.02	0.12	1.06	32.6	12.4	44
ZZ113256		0.40	0.037	0.12	1.27	84.6	0.02	<10	110	0.24	0.09	0.48	0.12	10.55	32.9	75
ZZ113257		0.31	0.012	0.18	1.76	65.9	<0.02	<10	260	0.49	0.06	1.15	0.16	10.35	28.6	74
ZZ113258		0.32	0.002	0.06	1.38	13.8	<0.02	<10	160	0.30	0.16	0.40	0.09	9.30	8.3	47
ZZ113259		0.42	0.001	0.08	1.82	14.9	<0.02	<10	140	0.46	0.10	0.32	0.14	14.30	20.0	121
ZZ113260		0.41	0.002	0.08	1.80	19.6	<0.02	<10	190	0.42	0.08	0.32	0.13	9.97	18.3	138
ZZ113261		0.28	<0.001	0.05	1.35	11.7	<0.02	<10	50	0.14	0.13	0.15	0.16	9.34	10.2	75
ZZ113262		0.59	0.002	0.03	2.08	6.7	<0.02	<10	130	0.24	0.15	0.43	0.15	9.91	23.1	234
ZZ113263		0.41	<0.001	0.06	2.06	4.7	<0.02	<10	130	0.29	0.21	0.38	0.14	7.65	19.0	185
ZZ113264		0.45	<0.001	0.04	1.98	2.1	<0.02	<10	70	0.19	0.12	0.24	0.11	6.78	18.7	214
ZZ113265		0.36	<0.001	0.06	0.89	1.6	<0.02	<10	60	0.09	0.08	0.09	0.06	2.85	8.1	75
ZZ113266		0.24	<0.001	0.10	1.27	1.6	<0.02	<10	110	0.20	0.11	0.26	0.12	10.05	9.0	66
ZZ113267		0.39	<0.001	0.02	1.35	3.0	<0.02	<10	30	0.12	0.14	0.19	0.14	6.35	13.9	120
ZZ113268		0.63	<0.001	0.03	1.10	2.2	<0.02	<10	20	0.09	0.08	0.30	0.06	3.20	14.3	135
ZZ113269		0.54	0.001	0.02	1.64	2.5	<0.02	<10	30	0.10	0.11	0.27	0.08	4.58	14.5	221
ZZ113270		0.38	<0.001	0.05	1.53	2.3	<0.02	<10	40	0.11	0.10	0.20	0.09	4.91	14.7	170
ZZ113271		0.33	<0.001	0.05	1.52	3.4	<0.02	<10	30	0.08	0.16	0.24	0.09	4.89	12.7	188
ZZ113272		0.20	<0.001	0.09	0.59	0.8	<0.02	<10	10	<0.05	0.05	0.08	0.03	1.80	4.2	54
ZZ113273		0.35	<0.001	0.05	1.41	1.8	<0.02	<10	30	0.11	0.06	0.22	0.05	5.91	8.3	149
ZZ113274		0.32	<0.001	0.05	1.25	1.7	<0.02	<10	40	0.14	0.08	0.17	0.05	7.11	7.1	105
ZZ113275		0.38	<0.001	0.05	1.91	2.9	<0.02	<10	30	0.13	0.07	0.31	0.09	4.89	16.6	210
ZZ113276		0.26	0.001	0.03	1.65	3.4	<0.02	<10	30	0.17	0.08	0.26	0.16	6.37	13.4	145
ZZ113277		0.31	<0.001	0.04	0.77	3.2	<0.02	<10	50	0.18	0.14	0.15	0.06	7.52	6.5	36
ZZ113278		0.39	<0.001	0.05	1.40	4.1	<0.02	<10	40	0.12	0.18	0.21	0.08	9.47	8.2	102
ZZ113279		0.34	0.001	0.05	1.32	2.8	<0.02	<10	50	0.17	0.18	0.15	0.07	12.10	5.6	62
ZZ113280		0.21	<0.001	0.03	0.47	0.6	<0.02	<10	20	0.08	0.04	0.08	0.02	3.78	1.7	6
ZZ113281		0.63	<0.001	0.02	1.95	3.7	<0.02	<10	40	0.27	0.15	0.31	0.09	12.25	15.9	136
ZZ113282		0.22	<0.001	0.05	0.76	2.1	<0.02	<10	30	0.09	0.17	0.09	0.08	8.48	3.9	42
ZZ113283		0.59	0.001	0.03	1.96	5.0	<0.02	<10	40	0.21	0.20	0.25	0.12	14.00	13.5	126
ZZ113284		0.59	0.001	0.05	1.95	6.2	<0.02	<10	70	0.29	0.16	0.54	0.08	15.25	20.1	168
ZZ113285		0.77	<0.001	0.04	2.07	4.0	<0.02	<10	50	0.13	0.07	0.57	0.10	5.01	22.5	187
ZZ113286		0.93	0.004	0.11	2.10	18.1	<0.02	<10	250	0.54	0.06	0.84	0.17	14.10	29.0	98
ZZ113287		0.59	0.002	0.06	2.03	17.7	<0.02	<10	270	0.73	0.12	0.52	0.11	17.95	20.0	76
ZZ113288		0.60	<0.001	0.06	0.94	4.8	<0.02	<10	110	0.24	0.06	0.30	0.06	5.61	6.1	32
ZZ113289		0.24	0.034	0.26	1.96	133.0	0.03	<10	210	0.32	0.04	0.72	0.18	5.06	55.0	17
ZZ113290		0.47	0.001	0.06	1.55	48.3	<0.02	<10	220	0.55	0.09	0.32	0.26	22.7	24.1	78

Comments: **WEI- 21 (Received Weight) for samples ZZ113291 and ZZ113292 are estimated based on reject and split weights as the original weights were entered incorrectly**



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Project: Rosy

CERTIFICATE OF ANALYSIS WH17127294

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ113251		6.38	11.9	1.69	1.31	0.05	0.02	0.02	0.020	0.04	25.5	7.8	0.05	602	3.54	<0.01
ZZ113252		6.84	15.0	1.35	3.71	<0.05	<0.02	0.03	0.013	0.05	13.5	1.9	0.09	142	2.67	<0.01
ZZ113253		9.28	30.5	3.11	2.10	0.05	<0.02	0.02	0.016	0.07	19.1	5.8	0.20	775	4.51	<0.01
ZZ113254		2.64	7.1	0.95	2.04	<0.05	<0.02	0.02	0.006	0.03	3.7	0.9	0.07	179	0.82	0.01
ZZ113255		12.90	27.4	3.32	3.46	<0.05	0.02	0.02	0.027	0.06	15.6	9.1	0.37	516	5.40	<0.01
ZZ113256		9.34	79.8	6.34	6.54	0.05	0.02	0.03	0.024	0.06	4.9	12.3	1.06	608	0.43	0.02
ZZ113257		33.2	122.5	5.78	5.42	<0.05	0.04	0.05	0.049	0.15	5.1	18.0	1.27	774	0.77	0.03
ZZ113258		13.40	28.7	2.38	4.63	<0.05	<0.02	0.01	0.023	0.06	4.5	11.3	0.65	396	1.04	0.01
ZZ113259		7.45	44.9	2.88	4.22	<0.05	<0.02	0.02	0.017	0.07	6.9	15.6	1.40	542	1.10	<0.01
ZZ113260		13.80	72.8	2.93	3.73	<0.05	0.02	0.02	0.016	0.06	4.9	18.6	1.42	497	0.82	0.01
ZZ113261		5.86	23.1	3.17	5.37	<0.05	<0.02	0.03	0.016	0.04	4.4	10.3	0.81	328	1.40	<0.01
ZZ113262		4.30	47.2	2.93	4.17	<0.05	0.02	0.01	0.014	0.04	3.9	15.3	1.99	503	0.81	0.01
ZZ113263		6.20	56.4	2.55	5.01	<0.05	<0.02	0.02	0.014	0.06	3.6	14.4	1.53	595	0.85	0.01
ZZ113264		3.54	119.5	2.08	3.87	<0.05	<0.02	0.01	0.010	0.04	3.4	12.2	1.88	306	0.50	0.01
ZZ113265		1.98	41.5	1.18	2.96	<0.05	<0.02	0.02	0.006	0.04	1.4	4.7	0.59	220	0.36	0.02
ZZ113266		2.91	43.6	1.00	3.22	<0.05	<0.02	0.02	0.008	0.03	4.3	4.4	0.43	2410	1.08	0.01
ZZ113267		1.84	40.5	1.92	3.62	<0.05	<0.02	0.02	0.009	0.03	3.1	6.0	0.71	304	0.58	<0.01
ZZ113268		0.71	51.7	1.31	2.04	<0.05	<0.02	0.01	0.005	0.02	1.5	5.9	1.00	160	0.30	0.01
ZZ113269		1.11	35.9	1.88	3.55	<0.05	<0.02	0.01	0.007	0.02	2.2	8.1	1.33	229	0.43	<0.01
ZZ113270		1.23	53.5	1.49	3.40	<0.05	<0.02	0.01	0.009	0.03	2.4	7.8	1.17	425	0.40	0.01
ZZ113271		1.24	31.9	2.37	5.73	<0.05	<0.02	0.02	0.009	0.02	2.4	7.6	1.25	189	0.86	0.01
ZZ113272		0.74	14.6	0.90	2.45	<0.05	<0.02	0.02	<0.005	0.02	0.9	2.5	0.41	89	0.40	0.02
ZZ113273		0.96	35.4	1.38	2.88	<0.05	<0.02	0.02	0.006	0.03	2.7	7.1	1.02	158	0.35	0.02
ZZ113274		1.07	34.8	1.26	3.22	<0.05	<0.02	0.02	0.007	0.02	3.5	6.5	0.80	150	0.35	0.02
ZZ113275		1.66	86.4	2.16	3.41	<0.05	<0.02	0.02	0.010	0.03	2.3	13.3	1.78	282	0.51	0.01
ZZ113276		1.26	51.1	1.94	3.64	<0.05	<0.02	0.02	0.011	0.03	3.1	10.7	1.30	275	0.48	0.01
ZZ113277		4.52	16.6	1.29	3.96	<0.05	<0.02	0.02	0.009	0.03	3.8	2.6	0.21	411	0.63	0.02
ZZ113278		1.84	21.7	2.19	5.31	<0.05	<0.02	0.02	0.013	0.03	4.5	6.3	0.71	187	0.78	0.01
ZZ113279		2.94	28.1	1.51	4.89	<0.05	<0.02	0.03	0.013	0.03	5.6	5.8	0.45	191	0.62	0.01
ZZ113280		0.31	11.1	0.64	2.14	<0.05	<0.02	0.02	<0.005	0.03	1.8	0.9	0.10	37	0.21	0.03
ZZ113281		1.67	49.4	2.38	4.19	<0.05	<0.02	0.01	0.013	0.04	5.4	15.5	1.32	359	0.42	0.01
ZZ113282		3.18	13.1	1.11	3.85	<0.05	<0.02	0.03	0.009	0.03	4.0	2.6	0.22	170	0.77	0.01
ZZ113283		1.73	45.2	2.39	4.98	<0.05	<0.02	0.02	0.017	0.04	6.6	12.4	1.20	270	0.61	0.01
ZZ113284		2.20	111.0	2.62	4.32	<0.05	0.02	0.02	0.014	0.05	6.6	16.9	1.58	513	0.68	0.01
ZZ113285		1.27	77.5	2.71	4.02	<0.05	<0.02	0.01	0.011	0.03	2.3	13.8	1.95	390	0.33	0.01
ZZ113286		47.8	150.0	5.94	5.41	<0.05	0.06	0.03	0.049	0.18	6.8	26.9	1.48	1140	0.28	0.02
ZZ113287		33.1	78.7	5.48	5.34	<0.05	0.04	0.03	0.044	0.11	9.2	18.5	0.96	864	0.53	0.02
ZZ113288		11.10	23.4	1.82	3.53	<0.05	<0.02	0.02	0.016	0.04	2.7	7.0	0.37	222	0.33	0.03
ZZ113289		21.7	628	8.87	8.27	0.05	0.04	0.04	0.044	0.16	2.3	20.9	2.14	970	0.17	0.06
ZZ113290		16.70	66.9	5.41	3.42	<0.05	<0.02	0.02	0.046	0.08	10.4	18.2	0.69	1380	1.37	0.01

Comments: **WEI- 21 (Received Weight) for samples ZZ113291 and ZZ113292 are estimated based on reject and split weights as the original weights were entered incorrectly**



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CERTIFICATE OF ANALYSIS WH17127294

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		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
ZZ113251		0.23	12.2	400	21.0	3.3	<0.001	0.01	0.50	1.3	0.8	<0.2	11.5	<0.01	0.03	3.8
ZZ113252		0.30	11.9	600	13.5	5.1	<0.001	0.04	0.39	0.3	0.5	0.5	6.4	<0.01	0.03	<0.2
ZZ113253		0.17	33.7	600	19.0	5.7	<0.001	0.02	4.68	1.0	2.9	0.2	11.5	<0.01	0.04	0.6
ZZ113254		0.14	6.3	380	4.9	2.7	<0.001	0.03	0.27	0.2	0.5	0.2	5.0	<0.01	0.01	<0.2
ZZ113255		0.34	45.4	770	91.7	6.5	<0.001	0.04	0.90	1.5	1.5	0.3	10.5	<0.01	0.10	0.6
ZZ113256		0.30	57.4	490	2.7	6.1	<0.001	0.03	1.99	17.5	0.6	0.2	15.7	<0.01	0.02	0.9
ZZ113257		0.25	53.6	1770	2.7	24.2	<0.001	0.06	3.40	23.1	1.0	0.3	26.4	<0.01	0.02	0.4
ZZ113258		0.33	21.1	990	4.2	7.4	<0.001	0.06	0.98	2.4	0.3	0.3	16.1	<0.01	0.03	0.2
ZZ113259		0.36	53.0	570	3.8	9.5	<0.001	0.04	0.61	5.0	0.5	0.2	12.8	<0.01	0.03	0.4
ZZ113260		0.29	59.2	560	2.7	8.1	<0.001	0.03	0.73	7.1	0.5	0.2	12.5	<0.01	0.02	0.4
ZZ113261		0.38	24.5	680	4.2	6.4	<0.001	0.03	0.81	1.9	0.5	0.4	6.9	<0.01	0.03	<0.2
ZZ113262		0.42	92.3	390	2.8	4.2	<0.001	0.02	0.38	4.0	0.5	0.2	13.4	<0.01	0.03	0.7
ZZ113263		0.34	68.9	810	3.1	6.6	<0.001	0.06	0.26	2.0	0.5	0.3	14.0	<0.01	0.02	<0.2
ZZ113264		0.30	96.3	520	2.1	3.7	<0.001	0.03	0.13	2.8	0.4	0.2	9.1	<0.01	0.01	0.2
ZZ113265		0.26	26.9	400	1.5	3.2	<0.001	0.04	0.11	1.1	0.2	0.2	5.5	<0.01	0.01	<0.2
ZZ113266		0.18	21.2	710	3.1	3.8	<0.001	0.05	0.16	0.8	0.2	0.2	10.6	<0.01	0.01	<0.2
ZZ113267		0.54	36.2	410	2.4	5.5	<0.001	0.03	0.27	1.2	0.4	0.3	7.9	<0.01	0.01	<0.2
ZZ113268		0.22	47.3	250	0.8	1.7	<0.001	0.01	0.16	1.5	0.3	<0.2	8.2	<0.01	0.01	<0.2
ZZ113269		0.46	65.6	210	2.1	3.3	<0.001	0.02	0.21	1.8	0.3	0.3	9.6	<0.01	0.02	0.2
ZZ113270		0.30	56.7	380	2.0	3.2	<0.001	0.03	0.15	1.3	0.4	0.2	8.5	<0.01	0.01	<0.2
ZZ113271		0.75	54.9	230	3.9	3.1	0.001	0.03	0.34	2.4	0.2	0.3	10.7	<0.01	0.02	0.3
ZZ113272		0.14	16.0	340	1.6	2.3	<0.001	0.04	0.11	0.3	<0.2	<0.2	5.3	<0.01	0.01	<0.2
ZZ113273		0.26	42.4	510	2.0	3.2	<0.001	0.03	0.17	1.4	0.3	0.2	9.9	<0.01	0.01	<0.2
ZZ113274		0.29	31.9	530	2.5	3.2	<0.001	0.05	0.17	0.9	0.2	0.2	9.3	<0.01	0.01	<0.2
ZZ113275		0.33	72.3	360	1.9	2.9	<0.001	0.04	0.28	3.3	0.3	0.2	12.1	<0.01	0.01	0.2
ZZ113276		0.44	50.2	420	2.7	3.4	<0.001	0.04	0.25	2.0	0.3	0.2	10.9	<0.01	0.01	0.2
ZZ113277		0.31	10.0	750	6.5	6.7	<0.001	0.08	0.30	0.4	<0.2	0.4	9.2	<0.01	0.02	<0.2
ZZ113278		0.79	27.6	470	4.0	4.4	<0.001	0.05	0.40	1.4	0.3	0.5	9.9	<0.01	0.02	<0.2
ZZ113279		0.63	17.0	590	5.1	5.4	<0.001	0.05	0.30	0.9	0.6	0.6	9.6	<0.01	0.01	<0.2
ZZ113280		0.14	2.2	440	1.4	1.4	<0.001	0.04	0.05	0.2	<0.2	<0.2	7.2	<0.01	0.01	<0.2
ZZ113281		0.73	46.2	340	3.6	4.9	<0.001	0.03	0.36	3.6	0.4	0.4	9.9	<0.01	0.02	1.0
ZZ113282		0.49	11.1	500	4.8	4.1	<0.001	0.07	0.37	0.5	0.4	0.5	7.0	<0.01	0.02	<0.2
ZZ113283		0.75	43.6	390	4.4	5.2	<0.001	0.03	0.40	3.1	0.6	0.4	11.5	<0.01	0.02	0.6
ZZ113284		0.58	61.9	380	4.0	4.9	<0.001	0.02	0.38	5.9	0.4	0.5	14.8	<0.01	0.02	3.0
ZZ113285		0.35	74.4	230	1.5	2.7	<0.001	0.03	0.29	3.7	0.3	0.2	15.1	<0.01	0.02	0.4
ZZ113286		0.21	69.1	1860	2.7	23.5	<0.001	0.03	2.30	21.6	0.9	0.3	23.8	<0.01	0.01	0.9
ZZ113287		0.45	40.0	1190	4.6	17.5	<0.001	0.04	2.03	13.8	0.8	0.4	18.5	<0.01	0.03	0.8
ZZ113288		0.22	13.8	860	2.4	6.9	<0.001	0.07	0.66	1.6	0.3	0.2	14.2	<0.01	0.01	<0.2
ZZ113289		0.11	53.6	400	1.9	14.8	<0.001	0.03	4.44	33.9	0.6	0.2	19.8	<0.01	0.02	0.5
ZZ113290		0.21	56.6	840	4.6	9.2	<0.001	0.03	1.99	13.1	0.6	0.2	8.9	<0.01	0.03	1.0

Comments: **WEI- 21 (Received Weight) for samples ZZ113291 and ZZ113292 are estimated based on reject and split weights as the original weights were entered incorrectly**



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Project: Rosy

CERTIFICATE OF ANALYSIS WH17127294

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ113251		0.005	0.07	0.72	14	0.15	4.76	74	0.9
ZZ113252		0.026	0.10	0.69	31	0.16	2.55	45	<0.5
ZZ113253		0.014	0.14	0.74	28	0.13	8.52	182	<0.5
ZZ113254		0.025	0.04	0.29	18	0.06	1.12	32	<0.5
ZZ113255		0.027	0.08	0.95	39	0.40	6.85	216	0.5
ZZ113256		0.073	0.24	0.30	266	0.22	7.16	57	0.9
ZZ113257		0.033	0.48	0.28	175	0.53	18.15	65	0.8
ZZ113258		0.033	0.11	0.43	68	0.37	3.67	38	<0.5
ZZ113259		0.042	0.12	0.40	63	0.31	5.77	52	<0.5
ZZ113260		0.024	0.20	0.32	59	0.29	7.36	44	<0.5
ZZ113261		0.071	0.09	0.31	94	0.25	2.66	50	<0.5
ZZ113262		0.070	0.05	0.43	56	0.36	3.84	51	<0.5
ZZ113263		0.045	0.08	0.59	55	0.30	3.31	51	<0.5
ZZ113264		0.051	0.06	0.44	40	0.19	3.53	39	<0.5
ZZ113265		0.040	0.04	0.32	28	0.18	1.49	23	<0.5
ZZ113266		0.037	0.09	0.42	24	0.22	4.78	19	<0.5
ZZ113267		0.087	0.03	0.29	45	0.21	1.90	26	<0.5
ZZ113268		0.067	0.02	0.20	27	0.17	1.82	17	<0.5
ZZ113269		0.120	0.03	0.21	44	0.22	1.78	22	<0.5
ZZ113270		0.058	0.04	0.26	30	0.19	1.89	24	<0.5
ZZ113271		0.223	0.03	0.23	70	0.30	1.85	28	<0.5
ZZ113272		0.040	0.02	0.27	25	0.08	0.55	14	<0.5
ZZ113273		0.074	0.04	0.23	34	0.13	1.68	21	<0.5
ZZ113274		0.052	0.05	0.31	29	0.14	1.74	20	<0.5
ZZ113275		0.095	0.04	0.24	51	0.18	2.62	31	<0.5
ZZ113276		0.085	0.04	0.47	45	0.20	2.25	35	<0.5
ZZ113277		0.035	0.06	0.40	42	0.14	1.92	24	<0.5
ZZ113278		0.116	0.06	0.46	63	0.25	2.06	28	<0.5
ZZ113279		0.075	0.07	0.48	46	0.17	2.26	23	<0.5
ZZ113280		0.035	<0.02	0.19	19	<0.05	0.98	10	<0.5
ZZ113281		0.129	0.07	0.58	59	0.25	4.14	38	<0.5
ZZ113282		0.060	0.04	0.39	40	0.14	1.25	20	<0.5
ZZ113283		0.122	0.08	0.56	59	0.31	3.94	39	<0.5
ZZ113284		0.141	0.08	0.82	66	0.28	7.24	44	0.5
ZZ113285		0.132	0.04	0.26	62	0.16	3.51	36	<0.5
ZZ113286		0.038	0.39	0.32	148	0.36	21.7	66	1.0
ZZ113287		0.031	0.36	0.47	112	0.82	15.70	67	0.7
ZZ113288		0.023	0.10	0.28	48	0.40	3.36	25	<0.5
ZZ113289		0.128	0.44	0.14	395	0.18	9.70	79	0.9
ZZ113290		0.009	0.13	0.40	95	0.28	13.05	87	<0.5

Comments: **WEI- 21 (Received Weight) for samples ZZ113291 and ZZ113292 are estimated based on reject and split weights as the original weights were entered incorrectly**

***** See Appendix Page for comments regarding this certificate *****



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CERTIFICATE OF ANALYSIS WH17127294

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ113291		0.52	<0.001	0.10	1.99	7.6	<0.02	<10	140	0.28	0.12	0.52	0.21	12.05	18.0	125
ZZ113292		0.43	<0.001	0.07	2.10	8.0	<0.02	<10	120	0.32	0.11	0.49	0.14	11.20	21.0	142
ZZ113293		0.39	0.014	0.28	1.61	105.0	<0.02	<10	420	0.87	0.07	1.16	0.30	39.7	29.5	121
ZZ113294		0.30	<0.001	0.05	1.60	3.9	<0.02	<10	50	0.19	0.09	0.24	0.10	8.48	13.8	138
ZZ113295		0.37	<0.001	0.05	1.86	2.2	<0.02	<10	50	0.14	0.25	0.31	0.08	5.19	18.7	186
ZZ113296		0.64	<0.001	0.04	2.06	4.8	<0.02	<10	30	0.17	0.08	0.25	0.12	6.26	61.9	289
ZZ113297		0.68	<0.001	0.02	2.05	3.2	<0.02	<10	30	0.18	0.11	0.30	0.07	7.88	20.6	197
ZZ113298		0.54	<0.001	0.02	1.79	2.5	<0.02	<10	40	0.13	0.08	0.27	0.08	5.57	16.6	205
ZZ113299		0.72	0.002	0.03	1.65	1.9	<0.02	<10	40	0.13	0.09	0.27	0.06	5.66	16.6	210
ZZ113300		0.39	<0.001	0.04	1.81	3.7	<0.02	<10	40	0.13	0.10	0.27	0.14	6.22	20.1	193
ZZ113301		0.40	0.001	0.47	1.68	42.1	<0.02	<10	100	0.39	0.40	0.12	0.55	24.1	7.8	54
ZZ113302		0.28	<0.001	0.10	1.87	16.4	<0.02	<10	80	0.20	0.15	0.10	0.23	15.75	9.0	126
ZZ113303		0.33	<0.001	0.30	1.63	17.3	<0.02	<10	120	0.45	0.39	0.09	0.40	19.80	6.0	42
ZZ113304		0.38	<0.001	0.32	1.38	12.8	<0.02	<10	120	0.29	0.39	0.08	0.15	23.5	3.7	31
ZZ113305		0.27	<0.001	0.33	1.18	33.6	<0.02	<10	130	0.43	0.41	0.09	0.58	26.2	6.6	33
ZZ113306		0.39	<0.001	0.22	1.58	23.7	<0.02	<10	130	0.54	0.43	0.08	0.34	25.0	4.6	32
ZZ113307		0.41	<0.001	0.11	1.13	17.5	<0.02	<10	100	0.37	0.30	0.13	0.37	37.1	6.9	34
ZZ113308		0.27	<0.001	0.38	1.39	19.8	<0.02	<10	90	0.50	0.33	0.12	0.41	36.4	6.4	34
ZZ113309		0.36	<0.001	0.16	1.12	36.2	<0.02	<10	100	0.35	0.41	0.08	0.38	27.3	5.9	25
ZZ113310		0.34	<0.001	0.10	0.95	11.4	<0.02	<10	80	0.29	0.35	0.07	0.46	27.2	3.7	21
ZZ113311		0.30	<0.001	0.27	1.02	14.4	<0.02	<10	80	0.32	0.36	0.09	0.62	25.1	4.8	25
ZZ113312		0.32	<0.001	0.09	1.38	11.9	<0.02	<10	90	0.60	0.42	0.08	0.79	34.7	4.7	21
ZZ113313		0.36	<0.001	0.14	1.14	17.5	<0.02	<10	80	0.26	0.31	0.09	0.42	32.9	6.2	31
ZZ113314		0.39	<0.001	0.21	1.27	19.6	<0.02	<10	90	0.37	0.28	0.08	0.48	31.7	6.5	32
ZZ113315		0.38	0.065	0.15	1.11	23.4	<0.02	<10	100	0.32	0.28	0.20	0.37	40.3	7.3	31
ZZ113316		1.48	0.001	0.17	1.04	29.3	<0.02	<10	100	0.35	0.24	0.24	0.42	42.2	9.0	30
ZZ113317		0.30	<0.001	0.13	1.22	30.7	<0.02	<10	110	0.36	0.25	0.22	1.10	42.4	11.1	37
ZZ113318		0.39	0.002	0.22	1.29	35.2	<0.02	<10	110	0.33	0.23	0.30	0.76	44.6	13.4	46
ZZ113319		0.32	0.004	0.15	1.21	37.6	<0.02	<10	110	0.31	0.24	0.31	0.74	40.6	11.0	40
ZZ113320		0.35	0.001	0.15	1.35	30.3	<0.02	<10	110	0.46	0.28	0.34	0.66	43.2	12.5	43
ZZ113321		0.32	0.001	0.12	1.28	33.4	<0.02	<10	80	0.31	0.26	0.17	0.73	38.6	10.5	44
ZZ113322		0.37	<0.001	0.08	1.32	18.6	<0.02	<10	100	0.27	0.25	0.48	0.49	31.4	12.2	55
ZZ113323		0.19	<0.001	0.17	1.64	15.4	<0.02	<10	180	0.55	0.28	0.64	0.25	34.0	10.1	46
ZZ113324		0.41	<0.001	0.05	0.89	5.7	<0.02	<10	80	0.35	0.29	0.20	0.25	25.5	3.3	20
ZZ113325		0.37	<0.001	0.56	1.71	13.4	<0.02	<10	170	1.13	0.46	0.87	0.61	40.9	10.6	34
ZZ113326		0.26	<0.001	0.04	1.00	3.6	<0.02	<10	70	0.29	0.39	0.33	0.19	20.8	2.5	10
ZZ113327		0.28	0.001	0.15	1.98	7.9	<0.02	<10	120	0.70	0.27	1.50	0.24	46.9	12.5	30
ZZ113328		0.19	0.002	0.25	1.56	9.8	<0.02	<10	150	0.86	0.27	2.21	0.24	40.4	9.8	32
ZZ113329		0.42	0.001	0.19	1.28	7.6	<0.02	<10	100	1.22	0.25	0.76	0.17	40.9	4.2	25
ZZ113330		0.33	<0.001	0.05	1.02	4.9	<0.02	<10	80	0.38	0.16	0.34	0.05	27.8	3.5	21

Comments: **WEI- 21 (Received Weight) for samples ZZ113291 and ZZ113292 are estimated based on reject and split weights as the original weights were entered incorrectly**



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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
ZZ113291		2.11	69.5	2.87	4.18	<0.05	<0.02	0.02	0.014	0.06	5.7	12.9	1.59	431	1.22	0.02
ZZ113292		5.37	73.5	2.94	4.27	<0.05	<0.02	0.02	0.015	0.06	5.0	15.5	1.69	527	0.68	0.01
ZZ113293		18.50	115.5	5.61	3.20	0.05	0.03	0.03	0.037	0.11	20.0	21.8	1.07	1320	2.48	0.01
ZZ113294		4.07	48.9	2.04	3.68	<0.05	<0.02	0.03	0.010	0.03	3.9	10.0	1.16	317	0.48	0.01
ZZ113295		1.14	61.5	2.20	3.76	<0.05	<0.02	0.01	0.009	0.03	2.5	10.3	1.73	356	0.27	0.01
ZZ113296		1.69	117.0	3.25	3.37	<0.05	<0.02	0.01	0.010	0.03	2.7	10.0	2.83	874	0.46	0.01
ZZ113297		1.34	69.7	2.29	3.87	<0.05	<0.02	0.02	0.011	0.03	3.5	11.1	1.70	335	0.44	0.01
ZZ113298		0.92	79.5	1.86	3.00	<0.05	<0.02	0.01	0.007	0.03	2.7	9.7	1.64	230	0.35	0.01
ZZ113299		0.69	80.4	1.62	2.55	<0.05	<0.02	0.01	0.006	0.02	2.7	8.6	1.54	218	0.32	0.01
ZZ113300		1.09	40.6	1.92	3.53	<0.05	<0.02	0.03	0.009	0.03	2.9	10.1	1.26	233	0.47	0.01
ZZ113301		5.25	19.0	2.93	5.61	<0.05	<0.02	0.03	0.029	0.10	11.5	18.8	0.80	264	2.25	0.01
ZZ113302		9.32	20.5	2.45	4.20	<0.05	<0.02	0.02	0.017	0.06	6.4	15.0	1.25	199	1.43	0.01
ZZ113303		4.37	20.3	2.58	5.89	<0.05	<0.02	0.04	0.028	0.11	10.5	10.4	0.43	538	3.52	0.01
ZZ113304		5.11	13.4	2.44	6.38	<0.05	<0.02	0.02	0.023	0.09	12.3	9.8	0.34	243	3.42	0.01
ZZ113305		6.38	27.7	3.01	4.27	<0.05	<0.02	0.02	0.038	0.09	14.2	11.9	0.39	241	6.53	0.01
ZZ113306		7.58	24.6	2.49	6.12	<0.05	<0.02	0.03	0.028	0.13	13.4	13.0	0.43	249	3.46	0.01
ZZ113307		2.19	22.0	2.11	4.19	0.07	<0.02	0.01	0.022	0.08	19.5	15.9	0.55	218	1.65	<0.01
ZZ113308		3.03	17.0	2.30	4.95	0.06	<0.02	0.02	0.021	0.08	19.2	19.3	0.54	195	1.62	<0.01
ZZ113309		6.87	13.3	2.38	5.60	0.05	<0.02	0.01	0.023	0.06	14.8	7.8	0.27	215	2.26	<0.01
ZZ113310		4.68	8.9	1.84	4.44	<0.05	<0.02	0.01	0.016	0.05	14.3	8.5	0.24	245	2.29	<0.01
ZZ113311		5.55	13.0	2.08	4.81	<0.05	<0.02	0.02	0.020	0.07	13.4	8.7	0.32	297	2.11	<0.01
ZZ113312		5.22	10.2	2.01	4.98	<0.05	0.02	0.01	0.024	0.08	18.4	12.2	0.30	260	2.03	<0.01
ZZ113313		3.01	17.8	2.58	4.71	<0.05	<0.02	<0.01	0.020	0.10	16.8	12.3	0.46	276	2.09	<0.01
ZZ113314		1.77	24.0	2.31	4.42	0.05	<0.02	0.02	0.021	0.09	16.7	13.4	0.49	195	2.13	0.01
ZZ113315		1.94	20.5	2.24	3.57	0.06	<0.02	0.01	0.018	0.10	21.4	15.0	0.55	274	2.04	<0.01
ZZ113316		1.81	27.5	2.40	3.16	0.07	0.02	0.01	0.016	0.09	22.6	13.5	0.55	321	1.99	0.01
ZZ113317		1.87	27.6	2.68	3.74	0.06	<0.02	0.01	0.018	0.09	21.9	14.4	0.67	337	2.47	0.01
ZZ113318		2.01	40.7	3.01	3.72	0.06	0.03	0.01	0.020	0.10	22.9	14.8	0.78	447	2.15	0.01
ZZ113319		1.90	32.8	3.01	3.42	0.06	0.03	0.01	0.018	0.09	20.8	14.5	0.71	344	2.38	0.01
ZZ113320		1.74	39.3	3.03	3.72	0.06	0.02	0.01	0.021	0.12	21.8	14.6	0.76	368	2.09	0.01
ZZ113321		2.15	27.1	2.79	3.90	0.05	<0.02	<0.01	0.021	0.09	19.8	13.1	0.76	314	2.21	<0.01
ZZ113322		2.35	26.9	2.38	3.79	0.05	0.02	0.01	0.021	0.11	15.4	12.8	0.80	360	1.03	0.01
ZZ113323		2.95	33.1	2.54	5.03	0.05	0.02	0.02	0.025	0.10	17.3	14.9	0.75	356	0.81	0.01
ZZ113324		2.77	7.6	1.42	5.02	<0.05	0.02	0.01	0.014	0.06	12.7	8.4	0.27	166	1.13	<0.01
ZZ113325		4.66	30.4	2.51	5.48	0.05	0.02	0.04	0.030	0.09	20.6	17.1	0.47	1260	1.47	0.01
ZZ113326		3.30	4.9	1.42	4.61	<0.05	<0.02	0.01	0.017	0.10	9.8	8.6	0.22	149	1.03	0.01
ZZ113327		4.67	23.1	3.44	6.36	0.08	0.06	0.03	0.025	0.17	25.6	27.1	1.12	559	0.69	0.02
ZZ113328		5.68	19.6	2.47	4.50	0.08	0.04	0.06	0.030	0.05	27.8	17.5	0.55	468	1.18	0.04
ZZ113329		4.93	12.9	1.76	4.44	0.07	0.03	0.03	0.021	0.07	36.1	27.5	0.43	415	1.37	0.01
ZZ113330		2.28	5.7	1.38	3.40	<0.05	0.03	0.01	0.013	0.08	15.3	10.8	0.34	167	0.95	<0.01

Comments: **WEI- 21 (Received Weight) for samples ZZ113291 and ZZ113292 are estimated based on reject and split weights as the original weights were entered incorrectly**



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Project: Rosy

CERTIFICATE OF ANALYSIS WH17127294

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
ZZ113291		0.46	55.3	520	3.5	5.2	<0.001	0.03	0.55	4.5	0.6	0.2	18.2	<0.01	0.02	0.7
ZZ113292		0.44	60.8	450	3.2	5.0	<0.001	0.04	0.49	5.0	0.4	0.2	16.5	<0.01	0.03	0.5
ZZ113293		0.08	74.5	1040	6.4	8.6	<0.001	0.07	2.45	16.8	1.1	0.2	28.5	<0.01	0.02	2.1
ZZ113294		0.32	42.1	610	2.2	4.1	<0.001	0.06	0.31	1.8	0.4	0.2	12.0	<0.01	0.02	<0.2
ZZ113295		0.26	73.1	420	1.8	3.5	<0.001	0.03	0.19	2.9	0.2	0.2	13.2	<0.01	0.02	0.2
ZZ113296		0.26	187.0	540	2.2	2.8	<0.001	0.02	0.27	4.4	0.6	<0.2	9.2	<0.01	0.04	0.6
ZZ113297		0.59	78.2	330	2.4	3.3	<0.001	0.02	0.27	3.0	0.4	0.2	12.0	<0.01	0.03	0.5
ZZ113298		0.30	78.7	270	1.9	2.8	<0.001	0.02	0.19	2.1	0.2	0.2	11.4	<0.01	0.02	0.3
ZZ113299		0.27	76.3	260	1.4	2.3	<0.001	0.02	0.17	2.2	0.2	<0.2	10.8	<0.01	0.02	0.4
ZZ113300		0.65	70.2	190	2.4	2.9	<0.001	0.02	0.28	2.5	0.3	0.3	11.8	<0.01	0.02	0.7
ZZ113301		1.29	30.0	600	17.5	15.4	<0.001	0.04	1.66	3.4	0.5	0.5	12.8	<0.01	0.04	3.8
ZZ113302		0.41	90.3	490	10.4	10.5	<0.001	0.03	1.76	4.2	0.3	0.3	11.3	<0.01	0.02	1.1
ZZ113303		0.39	17.0	1190	18.2	24.1	<0.001	0.08	1.15	0.6	0.7	0.6	13.6	<0.01	0.04	<0.2
ZZ113304		1.39	12.2	490	22.0	15.4	<0.001	0.07	0.98	2.3	0.5	0.7	12.1	<0.01	0.05	1.7
ZZ113305		0.38	32.8	590	32.1	15.5	<0.001	0.07	5.25	1.0	2.7	0.5	22.8	<0.01	0.07	0.3
ZZ113306		0.43	19.7	1160	28.1	29.1	<0.001	0.06	1.94	0.6	0.6	0.8	14.5	<0.01	0.05	<0.2
ZZ113307		0.85	26.4	520	14.3	11.3	<0.001	0.01	1.36	2.7	0.7	0.6	10.1	<0.01	0.02	3.7
ZZ113308		1.52	23.1	750	14.6	13.4	<0.001	0.02	1.02	2.9	0.9	0.7	9.0	<0.01	0.03	5.8
ZZ113309		1.21	21.7	910	13.5	15.2	<0.001	0.03	2.66	2.3	0.4	0.7	10.4	<0.01	0.02	2.3
ZZ113310		0.81	11.2	480	17.0	13.5	<0.001	0.03	0.81	1.1	0.5	0.5	7.6	<0.01	0.02	0.8
ZZ113311		0.88	15.7	650	16.2	11.7	<0.001	0.03	1.05	1.6	0.4	0.6	8.7	<0.01	0.01	0.9
ZZ113312		1.44	14.7	470	14.0	13.9	<0.001	0.02	0.86	1.5	0.3	0.7	9.5	<0.01	0.01	3.1
ZZ113313		1.11	21.6	850	13.6	14.5	<0.001	0.03	1.36	2.3	0.7	0.5	8.6	<0.01	0.04	3.2
ZZ113314		0.29	27.6	530	12.0	9.5	0.001	0.02	1.51	0.9	0.7	0.5	8.6	<0.01	0.03	0.3
ZZ113315		0.61	25.3	680	11.0	10.2	<0.001	0.02	1.59	2.0	1.0	0.4	11.9	<0.01	0.03	2.5
ZZ113316		0.51	31.7	670	13.2	7.8	<0.001	0.02	2.89	2.5	1.1	0.3	13.9	<0.01	0.02	4.6
ZZ113317		0.54	34.3	670	15.2	9.1	<0.001	0.02	3.20	2.5	1.1	0.3	14.5	<0.01	0.04	3.5
ZZ113318		0.46	43.8	750	15.1	8.6	<0.001	0.01	2.46	3.2	1.1	0.3	15.8	<0.01	0.06	5.1
ZZ113319		0.46	36.9	780	14.4	6.6	<0.001	0.02	2.31	2.6	1.1	0.2	14.4	<0.01	0.06	4.8
ZZ113320		0.37	41.6	650	17.3	8.5	<0.001	0.02	2.23	2.8	1.2	0.2	16.7	<0.01	0.06	3.6
ZZ113321		0.48	33.0	570	15.1	10.2	<0.001	0.01	1.86	2.4	1.4	0.2	10.8	<0.01	0.05	3.3
ZZ113322		0.56	32.4	710	13.0	11.0	<0.001	0.01	1.37	3.4	0.9	0.3	17.9	<0.01	0.06	3.5
ZZ113323		0.95	31.7	500	12.4	12.8	<0.001	0.02	1.23	3.7	0.8	0.5	23.6	<0.01	0.05	2.9
ZZ113324		1.59	8.3	200	11.5	16.0	<0.001	0.01	0.56	1.8	0.3	0.6	13.7	<0.01	<0.01	2.6
ZZ113325		0.76	20.1	840	20.0	19.1	<0.001	0.03	1.11	3.1	0.6	0.6	31.0	<0.01	0.02	1.3
ZZ113326		1.81	5.2	200	8.5	24.3	<0.001	0.02	0.50	1.5	0.4	0.6	15.0	<0.01	0.01	1.8
ZZ113327		1.17	29.3	970	12.8	24.7	0.001	0.04	1.40	4.3	1.1	0.6	41.5	<0.01	0.02	3.2
ZZ113328		1.49	18.2	1240	10.4	6.0	<0.001	0.08	0.88	3.9	1.8	0.6	103.5	<0.01	<0.01	1.2
ZZ113329		1.47	12.2	560	10.9	15.9	<0.001	0.04	0.54	1.9	1.4	0.6	37.9	<0.01	0.01	1.8
ZZ113330		1.24	9.3	160	11.3	12.5	<0.001	0.01	0.25	2.0	0.3	0.4	16.1	<0.01	0.01	5.9

Comments: **WEI- 21 (Received Weight) for samples ZZ113291 and ZZ113292 are estimated based on reject and split weights as the original weights were entered incorrectly**



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CERTIFICATE OF ANALYSIS WH17127294

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ113291		0.088	0.07	0.44	65	0.35	5.22	61	<0.5
ZZ113292		0.092	0.12	0.36	64	0.34	5.46	46	<0.5
ZZ113293		0.006	0.46	0.33	77	0.32	19.35	90	1.0
ZZ113294		0.071	0.05	0.34	48	0.16	2.86	32	<0.5
ZZ113295		0.072	0.04	0.23	47	0.17	2.59	35	<0.5
ZZ113296		0.082	0.04	0.29	48	0.28	3.36	36	<0.5
ZZ113297		0.115	0.05	0.29	48	0.28	3.04	30	<0.5
ZZ113298		0.078	0.03	0.21	37	0.19	2.28	25	<0.5
ZZ113299		0.065	0.03	0.20	32	0.17	2.45	22	<0.5
ZZ113300		0.091	0.05	0.23	45	0.67	2.07	25	<0.5
ZZ113301		0.068	0.13	0.87	59	0.57	3.70	84	0.5
ZZ113302		0.019	0.07	0.45	50	0.21	2.39	55	<0.5
ZZ113303		0.027	0.15	1.41	64	0.36	2.99	82	<0.5
ZZ113304		0.075	0.16	0.96	69	0.47	2.99	57	<0.5
ZZ113305		0.032	0.17	1.20	48	0.35	4.29	167	<0.5
ZZ113306		0.026	0.17	1.95	44	0.30	3.13	80	<0.5
ZZ113307		0.043	0.12	1.29	37	0.25	5.70	78	<0.5
ZZ113308		0.040	0.13	1.37	38	0.28	5.97	75	<0.5
ZZ113309		0.038	0.09	0.80	39	0.39	2.65	88	<0.5
ZZ113310		0.031	0.08	0.80	37	0.36	2.75	58	<0.5
ZZ113311		0.048	0.08	0.89	41	0.33	3.07	71	<0.5
ZZ113312		0.019	0.13	1.65	32	0.34	3.98	95	<0.5
ZZ113313		0.046	0.11	1.08	46	0.34	3.91	83	<0.5
ZZ113314		0.022	0.11	1.00	38	0.25	4.01	90	<0.5
ZZ113315		0.029	0.10	1.07	33	0.26	6.06	89	<0.5
ZZ113316		0.026	0.10	1.11	30	0.19	8.50	105	0.7
ZZ113317		0.024	0.10	0.92	36	0.21	5.65	129	0.5
ZZ113318		0.033	0.08	1.03	36	0.29	7.88	124	1.5
ZZ113319		0.027	0.09	0.84	34	0.22	5.74	136	1.9
ZZ113320		0.023	0.08	1.04	33	0.27	7.62	119	0.7
ZZ113321		0.029	0.08	0.65	34	0.26	4.27	110	<0.5
ZZ113322		0.041	0.08	0.52	38	0.43	5.27	88	0.9
ZZ113323		0.045	0.13	1.41	41	0.45	7.29	67	0.8
ZZ113324		0.069	0.09	0.62	41	0.45	3.40	47	0.5
ZZ113325		0.028	0.13	4.27	50	0.23	12.55	75	<0.5
ZZ113326		0.041	0.08	0.89	25	0.28	3.37	43	0.6
ZZ113327		0.077	0.20	3.16	42	0.14	15.00	82	2.4
ZZ113328		0.051	0.11	9.05	50	0.24	23.3	44	1.5
ZZ113329		0.040	0.10	5.05	34	0.37	22.3	41	1.0
ZZ113330		0.023	0.08	1.37	29	0.93	4.47	34	1.2

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***** See Appendix Page for comments regarding this certificate *****



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ113331		0.45	<0.001	0.07	1.31	13.2	<0.02	<10	90	0.45	0.13	0.56	0.09	20.1	14.6	99
ZZ113332		0.51	<0.001	0.07	1.62	15.9	<0.02	<10	140	0.31	0.12	0.51	0.07	15.15	15.9	127
ZZ113333		0.43	0.001	0.05	1.60	15.6	<0.02	<10	160	0.30	0.11	0.57	0.06	15.95	16.2	123
ZZ113334		0.38	<0.001	0.13	1.63	18.8	<0.02	<10	130	0.28	0.12	0.57	0.12	14.15	21.4	140
ZZ113335		0.31	<0.001	0.03	1.32	14.8	<0.02	<10	70	0.15	0.11	0.49	0.21	9.38	13.3	116
ZZ113336		0.45	<0.001	0.04	1.49	16.9	<0.02	<10	70	0.16	0.11	0.35	0.15	13.45	11.4	110
ZZ113337		0.31	<0.001	0.14	1.69	16.3	<0.02	<10	110	0.25	0.15	0.35	0.09	15.50	15.7	105
ZZ113338		0.48	<0.001	0.07	1.51	17.3	<0.02	<10	70	0.16	0.13	0.40	0.09	14.10	10.9	105
ZZ113339		0.30	0.002	0.53	3.08	13.7	<0.02	<10	290	0.96	0.26	0.51	0.58	64.1	17.1	74
ZZ113340		0.33	<0.001	0.10	0.91	14.4	<0.02	<10	60	0.16	0.29	0.20	0.27	16.60	6.9	40
ZZ113341		0.39	<0.001	0.13	1.26	11.6	<0.02	<10	120	0.32	0.17	0.27	0.19	23.4	11.3	50
ZZ113342		0.33	0.040	0.26	2.33	212	0.04	<10	280	0.35	0.04	1.03	0.21	5.81	79.6	47
ZZ113343		0.20	0.012	0.10	1.95	94.9	<0.02	<10	190	0.68	0.07	0.59	0.09	14.40	36.7	64
ZZ113344		0.30	0.006	0.09	2.02	88.4	<0.02	<10	230	0.63	0.13	0.52	0.15	12.80	22.5	71
ZZ113345		0.38	<0.001	0.10	0.86	12.0	<0.02	<10	30	0.16	0.11	0.10	0.14	8.79	6.6	33
ZZ113346		0.29	<0.001	0.10	1.23	5.3	<0.02	<10	70	0.18	0.08	0.14	0.06	7.59	6.6	60
ZZ113347		0.40	<0.001	0.08	1.32	12.4	<0.02	<10	200	0.27	0.17	0.34	0.37	11.80	12.8	71
ZZ113348		0.32	<0.001	0.13	0.69	3.5	<0.02	<10	80	0.13	0.16	0.22	0.06	6.16	3.5	43
ZZ113349		0.31	<0.001	0.18	2.50	7.7	<0.02	<10	190	0.48	0.24	0.82	0.27	11.65	23.8	175
ZZ113350		0.41	<0.001	0.05	2.03	4.7	<0.02	<10	100	0.30	0.18	0.54	0.12	11.05	18.8	185
ZZ113351		0.45	<0.001	0.03	1.63	3.4	<0.02	<10	90	0.21	0.23	0.41	0.24	9.19	17.8	103
ZZ113352		0.43	0.001	0.06	1.54	5.7	<0.02	<10	50	0.23	0.21	0.17	0.22	14.00	8.8	77
ZZ113353		0.35	<0.001	0.12	1.10	3.3	<0.02	<10	70	0.18	0.16	0.42	0.15	8.82	10.8	83
ZZ113354		0.50	0.001	0.03	1.52	4.5	<0.02	<10	120	0.15	0.20	0.40	0.15	10.20	13.9	126
ZZ113355		0.48	<0.001	0.05	1.05	2.6	<0.02	<10	40	0.11	0.09	0.43	0.13	5.34	16.7	109
ZZ113356		0.45	<0.001	0.10	1.54	2.8	<0.02	<10	90	0.18	0.12	0.45	0.05	8.83	13.1	135
ZZ113357		0.53	<0.001	0.08	1.48	1.7	<0.02	<10	40	0.11	0.10	0.44	0.12	5.09	13.9	174
ZZ113358		0.40	0.019	0.05	1.28	4.3	<0.02	<10	30	0.15	0.11	0.25	0.08	6.88	16.4	111
ZZ113359		0.31	<0.001	0.11	1.62	4.3	<0.02	<10	30	0.11	0.22	0.22	0.08	9.11	13.0	160
ZZ113360		0.47	<0.001	0.07	1.31	2.8	<0.02	<10	10	0.07	0.14	0.23	0.05	5.63	11.9	146
ZZ113361		0.41	<0.001	0.04	0.95	3.4	<0.02	<10	10	0.08	0.09	0.24	0.14	6.52	11.1	85
ZZ113362		0.34	<0.001	0.02	0.80	2.1	<0.02	<10	10	0.05	0.23	0.13	0.04	9.24	4.4	50
ZZ113363		0.28	<0.001	0.10	1.00	2.8	<0.02	<10	40	0.14	0.24	0.15	0.06	10.40	5.0	60
ZZ113364		0.49	<0.001	0.08	1.41	2.4	<0.02	<10	20	0.10	0.12	0.24	0.10	6.59	12.5	138
ZZ113365		0.42	<0.001	0.26	3.78	8.1	<0.02	<10	240	0.54	0.28	0.49	0.13	12.10	26.0	251
ZZ113366		0.30	<0.001	0.16	1.82	5.5	<0.02	<10	50	0.22	0.24	0.27	0.15	9.54	14.0	115
ZZ113367		0.31	0.001	0.17	3.23	6.6	<0.02	<10	100	0.45	0.36	0.16	0.15	14.10	15.5	173
ZZ113368		0.44	<0.001	0.01	1.41	3.0	<0.02	<10	30	0.16	0.12	0.44	0.08	11.65	15.9	120
ZZ113369		0.39	<0.001	0.04	2.33	3.5	<0.02	<10	30	0.25	0.14	0.30	0.17	10.05	15.0	150
ZZ113370		0.90	<0.001	0.08	1.54	2.9	<0.02	<10	30	0.16	0.17	0.33	0.10	9.97	16.3	168

Comments: **WEI- 21 (Received Weight) for samples ZZ113291 and ZZ113292 are estimated based on reject and split weights as the original weights were entered incorrectly**



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CERTIFICATE OF ANALYSIS WH17127294

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
ZZ113331		2.52	25.5	2.10	3.02	<0.05	0.03	0.01	0.017	0.06	10.9	9.0	1.09	547	0.83	0.01
ZZ113332		4.25	38.6	2.49	3.62	<0.05	<0.02	0.01	0.018	0.04	7.4	11.8	1.24	354	0.63	0.01
ZZ113333		3.48	41.7	2.47	3.56	<0.05	0.03	0.01	0.021	0.05	7.8	10.2	1.22	397	0.63	0.01
ZZ113334		4.16	43.9	2.57	3.94	<0.05	0.02	0.02	0.018	0.05	6.6	10.2	1.40	452	0.51	0.01
ZZ113335		2.71	28.0	2.13	3.23	<0.05	0.02	<0.01	0.016	0.06	4.7	8.8	1.12	264	0.48	0.01
ZZ113336		1.82	18.3	2.04	4.45	<0.05	0.02	0.01	0.013	0.05	6.4	10.0	0.99	221	0.74	0.01
ZZ113337		4.22	29.2	2.55	4.54	<0.05	0.02	0.02	0.020	0.06	7.4	15.2	0.99	431	0.92	0.01
ZZ113338		2.82	18.9	2.22	4.36	<0.05	0.02	0.01	0.012	0.05	6.9	11.4	0.95	243	0.82	<0.01
ZZ113339		4.89	90.9	3.72	8.32	0.09	0.04	0.02	0.032	0.11	30.4	50.7	1.65	643	2.01	0.04
ZZ113340		1.89	15.6	2.46	5.12	<0.05	0.02	0.01	0.016	0.05	8.8	8.0	0.46	184	2.14	0.01
ZZ113341		2.55	49.2	2.26	3.36	0.06	0.02	0.01	0.017	0.06	15.2	13.0	0.67	261	1.21	0.01
ZZ113342		13.95	250	8.45	14.00	0.07	0.03	0.07	0.057	0.08	2.9	21.2	2.81	1360	0.22	0.03
ZZ113343		30.1	118.0	5.73	5.73	<0.05	0.04	0.03	0.053	0.10	5.9	21.4	1.09	975	0.69	0.02
ZZ113344		30.8	88.5	5.46	6.09	<0.05	0.03	0.03	0.056	0.09	6.2	18.8	0.91	680	0.68	0.02
ZZ113345		4.79	19.6	2.10	3.56	<0.05	<0.02	0.04	0.018	0.04	4.2	5.4	0.30	239	1.33	0.01
ZZ113346		6.78	22.8	1.40	3.82	<0.05	<0.02	0.03	0.015	0.03	3.8	9.9	0.58	124	0.56	0.01
ZZ113347		12.45	28.8	2.30	4.99	<0.05	<0.02	0.03	0.024	0.05	5.6	9.8	0.63	1340	3.69	0.01
ZZ113348		6.29	14.2	0.97	3.61	<0.05	<0.02	0.02	0.012	0.04	3.2	2.4	0.21	142	1.16	0.02
ZZ113349		7.41	95.2	3.04	5.77	<0.05	0.03	0.03	0.025	0.07	6.1	18.8	1.56	957	1.64	0.01
ZZ113350		4.87	68.8	2.51	4.74	<0.05	0.02	0.02	0.018	0.05	5.9	13.7	1.59	446	0.84	0.01
ZZ113351		2.93	48.6	2.60	5.51	<0.05	<0.02	0.01	0.017	0.05	4.0	16.6	1.10	316	1.22	0.01
ZZ113352		2.43	24.2	2.84	6.33	<0.05	<0.02	0.03	0.021	0.04	6.9	8.1	0.58	185	1.07	0.01
ZZ113353		5.10	38.3	1.50	3.74	<0.05	<0.02	0.02	0.013	0.04	4.5	5.8	0.58	324	1.69	0.01
ZZ113354		2.89	36.0	2.22	4.99	<0.05	<0.02	0.01	0.015	0.04	5.0	9.9	1.09	241	1.06	0.01
ZZ113355		1.32	47.3	1.63	3.00	<0.05	<0.02	0.01	0.010	0.02	2.4	7.7	0.81	197	0.58	<0.01
ZZ113356		2.27	91.3	1.60	3.43	<0.05	0.02	0.02	0.013	0.03	4.6	11.3	1.12	226	0.83	0.01
ZZ113357		1.57	54.3	1.40	2.91	<0.05	<0.02	0.01	0.011	0.03	2.6	9.7	1.38	191	0.36	0.01
ZZ113358		1.58	46.0	2.16	3.84	<0.05	<0.02	0.02	0.013	0.03	3.2	7.8	0.85	281	0.80	0.01
ZZ113359		1.96	34.1	2.12	5.87	<0.05	<0.02	0.03	0.015	0.04	4.5	8.7	1.11	199	0.86	<0.01
ZZ113360		1.40	19.7	1.76	5.48	<0.05	<0.02	0.01	0.010	0.02	2.7	6.7	1.04	170	0.49	<0.01
ZZ113361		1.20	20.8	1.88	3.93	<0.05	<0.02	0.02	0.011	0.02	3.2	4.7	0.60	198	0.50	<0.01
ZZ113362		0.82	7.4	0.99	7.38	<0.05	<0.02	0.02	0.011	0.02	4.7	2.5	0.33	83	0.65	<0.01
ZZ113363		3.33	20.6	1.16	4.99	<0.05	<0.02	0.03	0.016	0.04	5.5	3.9	0.30	162	1.03	0.01
ZZ113364		1.58	23.1	1.88	4.84	<0.05	<0.02	0.02	0.012	0.02	3.1	6.9	1.06	213	0.52	0.01
ZZ113365		5.82	184.5	4.09	9.26	<0.05	<0.02	0.04	0.030	0.12	6.0	26.5	2.28	641	1.18	0.02
ZZ113366		2.60	49.8	2.84	6.73	<0.05	<0.02	0.03	0.021	0.05	4.8	12.1	1.05	243	0.94	0.01
ZZ113367		4.39	76.1	3.49	10.65	<0.05	<0.02	0.04	0.033	0.10	7.5	21.1	1.37	333	1.36	0.01
ZZ113368		0.87	36.4	2.03	3.39	<0.05	<0.02	0.01	0.012	0.02	5.7	10.8	1.21	331	0.29	0.01
ZZ113369		1.67	34.9	2.67	5.15	<0.05	0.02	0.03	0.019	0.03	4.8	12.4	1.25	284	0.54	0.01
ZZ113370		1.82	116.0	1.70	3.28	<0.05	<0.02	0.01	0.011	0.03	4.9	8.7	1.24	281	0.35	0.01

Comments: **WEI- 21 (Received Weight) for samples ZZ113291 and ZZ113292 are estimated based on reject and split weights as the original weights were entered incorrectly**



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CERTIFICATE OF ANALYSIS WH17127294

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
ZZ113331		0.48	41.6	600	6.1	6.8	<0.001	0.01	0.91	3.7	0.7	0.2	23.7	<0.01	0.01	2.2
ZZ113332		0.37	51.5	480	5.5	6.0	<0.001	0.01	1.12	4.6	0.7	0.2	20.7	<0.01	0.01	1.5
ZZ113333		0.45	50.9	850	5.3	5.0	<0.001	0.01	0.99	5.3	0.8	0.2	22.2	<0.01	0.01	1.7
ZZ113334		0.40	59.1	770	6.3	5.9	<0.001	0.01	1.23	5.3	0.6	0.2	23.1	<0.01	0.02	1.5
ZZ113335		0.41	45.0	550	4.4	6.2	<0.001	0.01	0.92	3.7	0.3	0.2	18.7	<0.01	0.01	1.1
ZZ113336		0.77	35.8	180	4.8	4.1	<0.001	0.01	0.71	3.4	0.3	0.3	15.0	<0.01	0.01	1.6
ZZ113337		0.72	36.6	470	6.6	9.9	<0.001	0.01	0.68	4.1	0.3	0.3	15.9	<0.01	0.02	2.1
ZZ113338		0.88	33.2	280	5.1	6.8	<0.001	0.01	0.72	3.5	0.6	0.3	15.4	<0.01	0.01	1.7
ZZ113339		1.56	51.3	610	13.5	12.0	<0.001	0.03	0.57	8.6	1.6	0.8	31.1	<0.01	0.05	5.9
ZZ113340		1.41	18.2	310	7.7	14.3	<0.001	0.01	0.74	2.4	0.4	0.5	13.6	<0.01	0.02	2.3
ZZ113341		0.79	30.3	370	7.2	7.4	<0.001	0.01	0.58	4.2	0.9	0.3	15.7	<0.01	0.04	4.3
ZZ113342		0.16	104.0	580	2.1	9.4	<0.001	0.05	5.09	46.8	1.2	0.3	27.0	<0.01	0.02	0.4
ZZ113343		0.34	55.8	1300	4.1	16.9	0.001	0.03	4.71	22.4	0.9	0.3	20.8	<0.01	0.02	0.7
ZZ113344		0.38	43.5	1410	4.0	15.6	<0.001	0.06	3.69	13.5	0.9	0.4	21.0	<0.01	0.02	0.4
ZZ113345		0.20	12.9	800	3.6	7.4	<0.001	0.05	1.47	0.7	0.6	0.2	6.6	<0.01	0.02	<0.2
ZZ113346		0.16	19.9	590	2.7	5.7	<0.001	0.03	0.36	0.8	0.4	0.2	8.6	<0.01	0.01	<0.2
ZZ113347		0.35	28.1	810	6.7	8.7	<0.001	0.05	1.03	1.8	0.6	0.3	13.7	<0.01	0.02	<0.2
ZZ113348		0.21	10.3	850	3.5	6.6	<0.001	0.04	0.33	0.4	0.2	0.4	11.4	<0.01	0.02	<0.2
ZZ113349		0.63	75.3	1000	4.5	8.4	0.001	0.06	0.46	4.4	1.0	0.4	22.6	<0.01	0.03	0.5
ZZ113350		0.55	68.5	740	3.2	5.4	<0.001	0.06	0.36	3.4	0.5	0.3	17.9	<0.01	0.02	0.6
ZZ113351		0.78	47.2	350	3.6	6.6	<0.001	0.03	0.27	3.2	0.5	0.4	14.8	<0.01	0.03	0.8
ZZ113352		1.03	25.2	390	4.9	5.9	<0.001	0.04	0.44	1.6	0.6	0.5	10.9	<0.01	0.03	0.2
ZZ113353		0.38	28.5	680	3.8	9.3	<0.001	0.06	0.33	1.0	0.4	0.4	14.8	<0.01	0.02	<0.2
ZZ113354		0.80	46.8	300	3.2	9.7	<0.001	0.03	0.44	3.2	0.3	0.4	16.3	<0.01	0.03	0.6
ZZ113355		0.43	39.5	290	1.9	4.0	<0.001	0.03	0.29	2.2	0.3	0.2	13.9	<0.01	0.02	0.2
ZZ113356		0.55	47.9	480	2.5	3.8	<0.001	0.02	0.22	3.7	0.5	0.2	14.5	<0.01	0.01	0.8
ZZ113357		0.44	60.8	340	1.7	2.5	<0.001	0.01	0.19	3.2	0.2	0.2	14.3	<0.01	0.01	0.7
ZZ113358		0.48	38.3	370	2.1	3.7	<0.001	0.03	0.33	1.8	0.4	0.3	13.1	<0.01	0.02	0.3
ZZ113359		1.13	51.4	250	4.1	5.0	<0.001	0.02	0.36	2.9	0.3	0.6	10.2	<0.01	0.01	1.1
ZZ113360		0.87	43.5	170	3.2	2.9	<0.001	0.01	0.30	2.5	<0.2	0.4	9.9	<0.01	0.01	0.3
ZZ113361		0.59	25.7	370	2.2	5.1	<0.001	0.02	0.31	1.8	0.2	0.3	9.8	<0.01	0.02	0.2
ZZ113362		1.61	13.0	230	8.2	2.5	<0.001	0.01	0.32	1.3	0.2	0.9	7.7	<0.01	0.02	0.3
ZZ113363		0.35	14.3	850	6.5	8.6	<0.001	0.06	0.25	0.4	0.2	0.6	10.6	<0.01	0.03	<0.2
ZZ113364		0.66	41.7	310	3.2	4.1	<0.001	0.02	0.24	2.4	0.3	0.4	10.2	<0.01	0.01	0.2
ZZ113365		0.88	101.0	1150	5.8	13.3	<0.001	0.08	0.46	5.2	0.7	0.8	19.5	<0.01	0.02	0.3
ZZ113366		0.92	42.1	450	5.2	6.6	<0.001	0.03	0.35	2.9	0.5	0.6	12.8	<0.01	0.03	0.3
ZZ113367		1.01	58.0	680	9.1	13.0	<0.001	0.04	0.43	2.2	0.5	1.3	11.9	<0.01	0.03	<0.2
ZZ113368		0.51	45.3	250	2.5	2.9	<0.001	<0.01	0.28	4.0	0.4	0.3	13.1	<0.01	0.01	2.2
ZZ113369		1.09	48.6	340	3.5	3.4	<0.001	0.02	0.31	4.2	0.6	0.4	10.7	<0.01	0.01	1.0
ZZ113370		0.46	58.5	520	2.7	4.6	<0.001	0.01	0.24	2.9	0.4	0.2	13.4	<0.01	0.02	0.5

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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ113331		0.044	0.07	1.28	43	1.21	6.67	35	0.7
ZZ113332		0.060	0.07	0.36	56	1.51	5.36	39	<0.5
ZZ113333		0.056	0.07	0.50	54	1.71	5.97	39	0.8
ZZ113334		0.063	0.08	0.30	55	2.11	4.90	44	0.5
ZZ113335		0.072	0.05	0.22	50	1.49	3.18	41	0.7
ZZ113336		0.113	0.06	0.28	58	0.21	2.97	32	0.8
ZZ113337		0.065	0.08	0.41	62	0.62	3.43	45	0.7
ZZ113338		0.106	0.07	0.39	59	0.23	3.06	34	0.8
ZZ113339		0.124	0.14	4.43	89	0.52	15.30	109	1.3
ZZ113340		0.104	0.07	0.48	80	0.34	2.57	54	0.9
ZZ113341		0.076	0.11	1.85	53	0.30	7.55	63	0.9
ZZ113342		0.090	0.61	0.26	386	1.03	12.25	107	0.6
ZZ113343		0.028	0.63	0.36	170	0.61	12.95	63	1.0
ZZ113344		0.022	0.53	0.50	159	0.56	10.80	69	0.6
ZZ113345		0.024	0.08	0.40	54	0.20	2.01	33	<0.5
ZZ113346		0.022	0.10	0.40	37	0.15	2.60	24	<0.5
ZZ113347		0.039	0.14	0.63	61	0.26	4.00	66	<0.5
ZZ113348		0.022	0.08	0.45	33	0.25	1.19	20	<0.5
ZZ113349		0.045	0.12	1.30	63	0.44	6.85	75	0.8
ZZ113350		0.054	0.08	1.42	53	0.31	6.18	48	0.7
ZZ113351		0.109	0.06	0.84	84	0.32	3.27	67	<0.5
ZZ113352		0.094	0.08	0.75	64	0.35	3.33	39	0.5
ZZ113353		0.040	0.07	0.93	41	0.30	3.33	28	<0.5
ZZ113354		0.089	0.06	0.50	57	0.34	3.91	43	<0.5
ZZ113355		0.078	0.03	0.34	40	0.24	3.01	30	<0.5
ZZ113356		0.062	0.06	1.56	39	0.32	5.05	33	0.6
ZZ113357		0.069	0.03	0.49	33	0.19	2.77	31	<0.5
ZZ113358		0.101	0.04	0.62	53	0.27	2.78	26	<0.5
ZZ113359		0.167	0.06	0.74	69	0.32	2.05	34	0.5
ZZ113360		0.238	0.04	0.24	65	0.20	1.69	24	<0.5
ZZ113361		0.130	0.04	0.28	54	0.18	2.01	25	<0.5
ZZ113362		0.219	0.04	0.35	64	0.18	1.52	14	<0.5
ZZ113363		0.027	0.10	0.83	41	0.20	1.65	23	<0.5
ZZ113364		0.196	0.06	0.35	60	0.14	2.24	25	<0.5
ZZ113365		0.066	0.19	1.84	92	0.36	7.21	81	<0.5
ZZ113366		0.129	0.09	0.93	72	0.29	3.62	44	0.5
ZZ113367		0.059	0.21	1.40	92	0.33	3.60	64	<0.5
ZZ113368		0.169	0.04	0.53	53	0.22	6.31	30	<0.5
ZZ113369		0.164	0.06	0.46	67	0.28	4.08	35	0.6
ZZ113370		0.086	0.05	0.41	37	0.20	3.81	33	<0.5

Comments: **WEI- 21 (Received Weight) for samples ZZ113291 and ZZ113292 are estimated based on reject and split weights as the original weights were entered incorrectly**

***** See Appendix Page for comments regarding this certificate *****



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Project: Rosy

CERTIFICATE OF ANALYSIS WH17127294

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ113371		0.31	<0.001	0.04	1.33	1.6	<0.02	<10	10	0.09	0.08	0.19	0.07	4.16	11.0	167
ZZ113372		0.44	0.001	0.05	2.38	5.1	<0.02	<10	30	0.17	0.08	0.37	0.11	4.48	27.5	274
ZZ113373		0.48	<0.001	0.06	1.97	4.2	<0.02	<10	20	0.16	0.09	0.27	0.14	7.18	17.4	201
ZZ113374		0.44	<0.001	0.04	1.04	4.2	<0.02	<10	30	0.14	0.21	0.16	0.06	10.70	6.2	85
ZZ113375		0.50	<0.001	0.07	2.44	4.8	<0.02	<10	40	0.20	0.13	0.25	0.13	9.99	16.0	166
ZZ113376		0.36	<0.001	0.02	1.78	4.2	<0.02	<10	20	0.10	0.13	0.25	0.14	6.61	16.1	195
ZZ113377		0.41	<0.001	0.04	1.66	3.5	<0.02	<10	20	0.16	0.12	0.21	0.13	8.22	14.7	146
ZZ113378		0.51	<0.001	0.05	1.81	2.6	<0.02	<10	20	0.12	0.09	0.24	0.11	6.05	16.7	231
ZZ113379		0.46	<0.001	0.05	1.80	2.9	0.02	<10	20	0.14	0.09	0.23	0.10	5.50	17.5	210
ZZ113380		0.32	<0.001	0.06	0.93	1.7	<0.02	<10	10	0.11	0.10	0.13	0.06	4.14	8.2	81
ZZ113381		0.36	<0.001	0.03	1.24	3.0	<0.02	<10	40	0.16	0.16	0.14	0.11	7.60	10.8	142
ZZ113382		0.26	<0.001	0.07	1.65	2.0	<0.02	<10	30	0.19	0.10	0.16	0.09	6.82	14.2	139
ZZ113383		0.52	<0.001	0.03	2.05	3.7	<0.02	<10	40	0.26	0.19	0.24	0.10	9.10	20.1	202
ZZ113384		0.44	<0.001	0.03	1.74	3.0	<0.02	<10	20	0.14	0.11	0.23	0.11	6.70	17.4	198
ZZ113385		0.25	<0.001	0.11	1.03	1.2	<0.02	<10	40	0.16	0.07	0.25	0.15	5.09	14.5	89
ZZ113386		0.43	<0.001	0.07	1.98	2.7	<0.02	<10	20	0.14	0.07	0.18	0.07	4.56	19.9	296
ZZ113387		0.82	<0.001	0.05	1.98	1.7	<0.02	<10	10	0.11	0.03	0.28	0.10	3.18	27.2	373
ZZ113388		0.49	<0.001	0.06	1.93	2.6	<0.02	<10	20	0.13	0.04	0.36	0.07	3.51	26.8	286
ZZ113389		0.46	<0.001	0.05	2.23	2.1	<0.02	<10	40	0.16	0.03	0.63	0.10	6.68	27.2	278
ZZ113390		0.59	<0.001	0.11	2.31	8.3	<0.02	<10	40	0.21	0.08	0.41	0.10	7.15	30.4	303
ZZ113391		0.64	<0.001	0.08	2.55	7.6	<0.02	<10	50	0.24	0.10	0.45	0.17	7.64	32.4	309
ZZ113392		0.62	<0.001	0.04	2.42	4.8	<0.02	<10	30	0.20	0.10	0.41	0.08	5.16	30.7	266
ZZ113393		0.36	<0.001	0.03	2.26	6.0	<0.02	<10	20	0.16	0.07	0.38	0.12	4.91	32.3	218
ZZ113394		0.24	<0.001	0.03	0.94	2.5	<0.02	<10	10	0.10	0.06	0.12	0.05	3.63	9.7	72
ZZ113395		0.55	<0.001	0.05	1.22	1.7	<0.02	<10	20	0.12	0.05	0.17	0.06	3.71	12.2	148
ZZ113396		0.51	<0.001	0.06	2.59	4.8	<0.02	<10	20	0.15	0.05	0.41	0.10	4.86	33.7	305
ZZ113397		0.42	<0.001	0.03	2.05	3.7	<0.02	<10	10	0.14	0.06	0.27	0.08	4.52	28.6	231
ZZ113398		0.51	<0.001	0.04	1.98	6.8	<0.02	<10	20	0.17	0.18	0.28	0.11	6.11	23.7	213
ZZ113399		0.51	0.001	0.04	2.01	3.6	<0.02	<10	20	0.15	0.08	0.28	0.10	6.50	22.0	265
ZZ113400		0.25	<0.001	0.05	0.66	1.2	<0.02	<10	20	0.09	0.06	0.15	0.05	3.91	8.5	43
ZZ113401		0.59	<0.001	0.05	1.78	2.0	<0.02	<10	10	0.13	0.04	0.32	0.06	3.70	25.4	199
ZZ113402		0.48	<0.001	0.05	1.83	3.2	<0.02	<10	10	0.14	0.06	0.34	0.08	6.47	25.9	182
ZZ113403		0.40	<0.001	0.04	1.82	4.4	<0.02	<10	40	0.22	0.13	0.29	0.08	11.40	20.4	123
ZZ113404		0.32	<0.001	0.04	1.69	3.5	<0.02	<10	10	0.10	0.07	0.23	0.10	3.89	25.1	96
ZZ113405		0.38	<0.001	0.01	0.29	0.5	<0.02	<10	<10	<0.05	0.05	0.08	0.02	2.51	2.9	39
ZZ113406		0.31	<0.001	0.08	1.25	3.0	<0.02	<10	10	0.08	0.11	0.17	0.09	6.05	13.1	174
ZZ113407		0.26	<0.001	0.09	1.06	2.5	<0.02	<10	130	0.20	0.14	1.38	0.39	9.87	22.3	142
ZZ113408		0.39	<0.001	0.06	1.52	2.6	<0.02	<10	40	0.20	0.10	0.44	0.09	7.31	17.2	153
ZZ113409		0.42	0.002	0.07	2.04	3.9	<0.02	<10	20	0.14	0.09	0.23	0.10	5.07	25.7	309
ZZ113410		0.54	0.001	0.07	1.73	4.3	<0.02	<10	40	0.20	0.08	0.31	0.10	12.90	19.3	187

Comments: **WEI- 21 (Received Weight) for samples ZZ113291 and ZZ113292 are estimated based on reject and split weights as the original weights were entered incorrectly**



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CERTIFICATE OF ANALYSIS WH17127294

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
ZZ113371		1.16	44.4	1.34	3.10	<0.05	<0.02	0.02	0.008	0.02	2.1	6.5	1.07	149	0.36	0.01
ZZ113372		1.36	98.7	2.40	3.60	<0.05	0.02	0.02	0.013	0.02	2.1	15.3	2.28	347	0.27	<0.01
ZZ113373		1.58	119.5	2.24	3.62	<0.05	<0.02	0.02	0.014	0.02	3.6	10.9	1.46	235	0.46	<0.01
ZZ113374		1.46	56.8	1.51	4.91	<0.05	<0.02	0.02	0.014	0.03	5.3	3.7	0.46	135	0.64	<0.01
ZZ113375		2.07	46.8	2.61	5.24	<0.05	0.02	0.03	0.018	0.02	4.8	13.2	1.22	272	0.61	<0.01
ZZ113376		1.97	39.2	2.54	5.14	<0.05	0.02	0.02	0.014	0.02	3.1	10.9	1.48	240	0.49	<0.01
ZZ113377		1.54	50.2	1.99	4.01	<0.05	<0.02	0.02	0.014	0.02	4.0	9.4	1.08	296	0.48	<0.01
ZZ113378		1.32	53.1	1.87	3.59	<0.05	<0.02	0.02	0.011	0.02	2.9	9.7	1.47	274	0.38	<0.01
ZZ113379		1.29	40.4	1.79	3.53	<0.05	<0.02	0.02	0.012	0.02	2.8	9.7	1.47	236	0.39	<0.01
ZZ113380		0.75	21.8	1.28	3.10	<0.05	<0.02	0.02	0.009	0.02	2.3	4.4	0.57	105	0.41	<0.01
ZZ113381		2.90	20.1	1.74	4.61	<0.05	<0.02	0.02	0.013	0.03	4.0	5.4	0.78	467	0.72	<0.01
ZZ113382		1.31	25.7	1.73	4.05	<0.05	<0.02	0.02	0.014	0.03	3.4	8.4	1.06	512	0.53	0.01
ZZ113383		2.99	52.8	2.57	5.59	<0.05	<0.02	0.01	0.018	0.04	4.3	13.0	1.67	345	0.54	<0.01
ZZ113384		1.17	66.9	2.13	4.36	<0.05	<0.02	0.01	0.012	0.03	3.3	9.6	1.54	317	0.42	<0.01
ZZ113385		1.13	50.0	0.93	2.77	<0.05	<0.02	0.03	0.008	0.03	2.4	4.5	0.64	520	0.43	0.02
ZZ113386		2.07	121.5	1.75	3.46	<0.05	<0.02	0.02	0.009	0.02	2.4	13.5	2.12	287	0.25	0.01
ZZ113387		1.54	147.0	2.00	2.97	<0.05	<0.02	0.01	0.008	0.02	1.6	13.9	2.27	419	0.30	<0.01
ZZ113388		1.71	162.0	2.17	3.40	<0.05	<0.02	0.01	0.010	0.02	1.7	15.7	2.30	434	0.26	<0.01
ZZ113389		3.49	133.5	2.36	3.77	<0.05	0.03	0.01	0.013	0.03	2.9	24.5	2.77	516	0.29	<0.01
ZZ113390		4.81	265	2.87	4.45	<0.05	<0.02	0.02	0.013	0.04	3.9	18.6	2.55	535	0.27	0.01
ZZ113391		5.60	206	3.08	4.80	<0.05	<0.02	0.02	0.016	0.05	4.0	21.9	2.58	623	0.32	0.01
ZZ113392		4.52	144.0	2.97	4.56	<0.05	<0.02	0.02	0.015	0.02	2.6	18.4	2.49	589	0.30	<0.01
ZZ113393		2.10	128.0	2.75	3.95	<0.05	<0.02	0.02	0.012	0.02	2.4	16.0	2.20	488	0.31	0.01
ZZ113394		2.16	46.8	1.46	3.02	<0.05	<0.02	0.03	0.010	0.02	1.8	5.3	0.67	208	0.29	0.01
ZZ113395		2.53	53.3	1.48	3.26	<0.05	<0.02	0.02	0.009	0.02	1.9	8.6	1.04	265	0.24	0.01
ZZ113396		3.20	180.0	3.78	5.50	0.07	0.02	0.03	0.020	0.03	2.2	21.3	2.85	707	0.87	0.01
ZZ113397		4.45	105.0	2.99	4.49	<0.05	<0.02	0.03	0.013	0.02	2.3	15.4	2.00	454	0.51	<0.01
ZZ113398		3.41	101.0	2.47	3.69	<0.05	<0.02	0.02	0.012	0.02	3.0	14.9	1.87	439	0.37	<0.01
ZZ113399		2.90	99.9	2.27	3.95	<0.05	<0.02	0.02	0.011	0.02	3.2	14.5	1.91	374	0.45	0.01
ZZ113400		2.09	32.8	0.99	2.51	<0.05	<0.02	0.03	0.006	0.03	2.0	3.9	0.44	218	0.44	0.02
ZZ113401		1.45	120.0	2.19	3.27	<0.05	<0.02	0.01	0.008	0.02	1.7	13.1	2.05	441	0.36	<0.01
ZZ113402		0.83	141.0	2.62	3.20	<0.05	<0.02	0.01	0.009	0.02	3.2	10.4	1.80	352	0.48	<0.01
ZZ113403		3.38	204	2.43	4.56	<0.05	<0.02	0.02	0.017	0.03	6.0	10.4	1.22	447	0.51	<0.01
ZZ113404		1.16	70.3	2.45	3.78	<0.05	<0.02	0.02	0.010	0.02	2.0	7.9	1.58	422	0.48	<0.01
ZZ113405		0.37	5.3	0.53	1.63	<0.05	<0.02	0.02	<0.005	0.01	1.4	1.1	0.18	40	0.19	0.01
ZZ113406		1.78	35.9	2.14	3.74	<0.05	<0.02	0.03	0.010	0.02	3.1	5.1	0.97	160	0.59	<0.01
ZZ113407		4.76	395	1.27	3.13	<0.05	<0.02	0.07	0.015	0.02	4.3	3.7	0.43	2010	0.98	<0.01
ZZ113408		3.63	215	1.61	3.51	<0.05	<0.02	0.03	0.012	0.02	3.7	8.7	1.14	182	0.57	0.01
ZZ113409		1.36	81.7	2.46	3.74	<0.05	<0.02	0.03	0.011	0.02	2.5	10.4	1.98	392	0.85	<0.01
ZZ113410		2.51	83.8	2.02	3.63	<0.05	<0.02	0.02	0.013	0.03	6.9	9.2	1.46	341	0.74	<0.01

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		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ113371		0.27	48.3	400	1.9	3.6	<0.001	0.04	0.15	0.9	0.3	0.2	8.8	<0.01	0.01	<0.2
ZZ113372		0.47	102.0	270	1.4	2.9	<0.001	0.01	0.23	4.7	0.5	0.2	13.1	<0.01	0.02	0.7
ZZ113373		0.52	63.8	380	1.5	2.6	<0.001	0.03	0.34	2.5	0.6	0.2	11.3	<0.01	0.02	0.2
ZZ113374		0.69	19.4	560	5.1	2.9	<0.001	0.06	0.46	1.0	0.3	0.7	8.7	<0.01	0.03	<0.2
ZZ113375		1.29	55.1	300	3.5	2.9	<0.001	0.02	0.35	3.9	0.5	0.4	10.6	0.01	0.02	1.3
ZZ113376		1.14	63.7	190	2.4	2.5	<0.001	0.01	0.33	3.6	0.3	0.4	10.1	<0.01	0.02	0.9
ZZ113377		0.47	47.4	370	3.2	3.8	<0.001	0.03	0.29	1.7	0.4	0.3	10.7	<0.01	0.02	<0.2
ZZ113378		0.43	70.2	340	2.1	3.6	<0.001	0.03	0.22	1.8	0.5	0.3	10.3	<0.01	0.02	<0.2
ZZ113379		0.37	74.3	280	2.2	3.6	<0.001	0.03	0.25	1.7	0.4	0.2	11.1	<0.01	0.02	<0.2
ZZ113380		0.27	29.1	420	2.0	2.1	<0.001	0.05	0.20	0.6	0.3	0.2	7.8	<0.01	0.02	<0.2
ZZ113381		0.66	39.4	510	3.5	9.3	<0.001	0.06	0.37	1.1	0.5	0.5	9.3	<0.01	0.03	<0.2
ZZ113382		0.32	47.4	550	2.2	4.4	<0.001	0.06	0.21	0.9	0.4	0.2	9.1	<0.01	0.02	<0.2
ZZ113383		0.86	72.8	270	3.5	4.7	<0.001	0.04	0.31	3.3	0.5	0.4	11.8	<0.01	0.03	0.6
ZZ113384		0.59	69.7	280	2.4	3.6	<0.001	0.03	0.26	2.3	0.5	0.3	11.5	<0.01	0.02	0.3
ZZ113385		0.27	32.7	820	1.9	3.8	<0.001	0.08	0.15	0.5	0.3	0.2	10.7	<0.01	0.03	<0.2
ZZ113386		0.30	109.5	440	1.6	3.1	<0.001	0.03	0.19	1.7	0.4	0.2	9.5	<0.01	0.02	<0.2
ZZ113387		0.19	113.0	460	0.8	2.6	<0.001	0.02	0.22	2.6	0.5	<0.2	12.9	<0.01	0.03	<0.2
ZZ113388		0.28	93.4	300	1.0	2.4	<0.001	0.02	0.28	5.4	0.4	<0.2	14.6	<0.01	0.01	0.4
ZZ113389		0.27	98.4	430	0.8	2.2	<0.001	0.02	0.31	8.8	0.4	0.2	31.4	<0.01	0.01	0.4
ZZ113390		0.40	94.8	480	1.8	4.8	<0.001	0.02	0.34	9.4	0.7	0.2	15.2	<0.01	0.02	0.9
ZZ113391		0.28	106.0	870	2.2	9.3	<0.001	0.03	0.37	5.6	0.5	0.3	15.5	<0.01	0.03	0.3
ZZ113392		0.28	98.5	500	1.5	2.6	<0.001	0.04	0.32	5.7	0.4	0.2	12.7	<0.01	0.03	0.3
ZZ113393		0.43	99.4	370	1.3	3.3	<0.001	0.02	0.33	4.6	0.5	0.2	13.2	<0.01	0.02	0.5
ZZ113394		0.21	28.6	500	1.4	2.1	<0.001	0.05	0.20	1.1	0.3	0.2	7.4	<0.01	0.02	<0.2
ZZ113395		0.17	42.7	500	1.2	2.6	<0.001	0.05	0.23	1.3	0.3	0.2	9.4	<0.01	0.02	<0.2
ZZ113396		0.23	91.5	600	1.5	2.7	<0.001	0.02	0.41	10.6	0.7	0.2	12.5	<0.01	0.01	0.5
ZZ113397		0.31	82.4	430	1.3	2.6	<0.001	0.03	0.31	3.5	0.4	0.2	9.8	<0.01	0.02	0.2
ZZ113398		0.29	82.9	440	1.4	3.3	<0.001	0.03	0.31	2.5	0.5	0.2	11.1	<0.01	0.02	<0.2
ZZ113399		0.35	85.3	420	1.7	3.5	<0.001	0.03	0.37	2.6	0.5	0.2	14.1	<0.01	0.02	0.2
ZZ113400		0.21	16.4	560	1.4	3.0	<0.001	0.06	0.17	0.6	0.3	<0.2	8.3	<0.01	0.01	<0.2
ZZ113401		0.26	66.9	290	0.8	1.7	<0.001	0.01	0.32	6.0	0.5	<0.2	11.9	<0.01	0.02	0.3
ZZ113402		0.33	68.3	600	1.4	2.2	<0.001	0.02	0.33	3.0	0.6	0.2	11.8	<0.01	0.03	0.4
ZZ113403		0.63	47.0	500	3.5	4.9	<0.001	0.03	0.35	3.1	0.7	0.4	13.0	<0.01	0.03	0.3
ZZ113404		0.41	48.4	410	1.5	3.3	<0.001	0.04	0.33	2.6	0.5	0.2	9.3	<0.01	0.02	<0.2
ZZ113405		0.12	7.8	130	1.3	1.1	<0.001	0.01	0.11	0.4	<0.2	0.2	5.5	<0.01	0.01	<0.2
ZZ113406		0.38	51.1	530	2.0	5.7	<0.001	0.05	0.27	0.9	0.5	0.3	8.6	<0.01	0.03	<0.2
ZZ113407		0.69	33.4	1380	4.8	4.2	<0.001	0.17	0.35	1.6	0.8	0.4	23.0	0.01	0.02	0.2
ZZ113408		0.36	80.9	850	2.6	3.2	<0.001	0.09	0.23	1.3	0.5	0.2	14.1	<0.01	0.02	<0.2
ZZ113409		0.40	132.5	390	1.7	3.8	<0.001	0.05	0.26	1.6	0.4	0.2	10.2	<0.01	0.03	<0.2
ZZ113410		0.50	85.2	390	2.6	3.6	<0.001	0.03	0.32	2.6	0.6	0.2	11.8	<0.01	0.03	0.7

Comments: **WEI- 21 (Received Weight) for samples ZZ113291 and ZZ113292 are estimated based on reject and split weights as the original weights were entered incorrectly**



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CERTIFICATE OF ANALYSIS WH17127294

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ113371		0.056	0.03	0.26	29	0.13	1.29	21	<0.5
ZZ113372		0.108	0.04	0.17	49	0.23	3.10	32	0.6
ZZ113373		0.088	0.04	0.32	51	0.28	2.69	30	<0.5
ZZ113374		0.061	0.07	0.44	48	0.24	2.75	20	<0.5
ZZ113375		0.143	0.08	0.39	62	0.32	3.42	28	0.6
ZZ113376		0.191	0.05	0.26	65	0.33	2.38	26	0.6
ZZ113377		0.074	0.06	0.32	47	0.25	2.40	29	<0.5
ZZ113378		0.087	0.04	0.29	41	0.18	2.27	27	<0.5
ZZ113379		0.077	0.04	0.28	37	0.25	1.97	23	<0.5
ZZ113380		0.047	0.03	0.41	31	0.19	1.40	15	<0.5
ZZ113381		0.088	0.05	0.47	47	0.19	1.73	33	<0.5
ZZ113382		0.058	0.07	0.46	36	0.16	2.46	27	<0.5
ZZ113383		0.154	0.07	0.43	53	0.30	3.96	39	0.9
ZZ113384		0.132	0.04	0.37	44	0.25	2.53	31	<0.5
ZZ113385		0.025	0.04	0.40	16	0.13	1.67	22	<0.5
ZZ113386		0.042	0.04	0.23	29	0.17	1.78	25	<0.5
ZZ113387		0.052	0.02	0.15	34	0.08	2.15	38	<0.5
ZZ113388		0.066	0.03	0.13	45	0.11	2.65	28	<0.5
ZZ113389		0.071	0.04	0.11	55	0.34	4.75	35	0.8
ZZ113390		0.087	0.06	0.27	65	0.18	6.83	40	<0.5
ZZ113391		0.068	0.05	0.31	61	0.19	5.69	55	<0.5
ZZ113392		0.061	0.04	0.21	65	0.15	4.20	38	<0.5
ZZ113393		0.124	0.04	0.16	60	0.17	3.60	35	<0.5
ZZ113394		0.047	0.03	0.23	39	0.08	1.79	18	<0.5
ZZ113395		0.043	0.04	0.21	40	0.10	1.77	21	<0.5
ZZ113396		0.127	0.06	0.20	92	0.13	7.31	48	0.6
ZZ113397		0.106	0.02	0.17	71	0.23	3.03	37	<0.5
ZZ113398		0.084	0.03	0.24	49	0.19	2.93	34	<0.5
ZZ113399		0.098	0.04	0.29	48	0.19	2.85	31	<0.5
ZZ113400		0.038	0.03	0.28	25	0.07	1.67	18	<0.5
ZZ113401		0.135	0.03	0.13	47	0.13	4.56	26	<0.5
ZZ113402		0.121	0.02	0.22	45	0.25	3.66	29	<0.5
ZZ113403		0.115	0.06	0.44	54	0.26	5.73	37	<0.5
ZZ113404		0.176	0.02	0.23	53	0.09	2.14	29	<0.5
ZZ113405		0.040	<0.02	0.09	20	0.05	0.44	8	<0.5
ZZ113406		0.082	0.04	0.26	46	0.23	1.76	23	<0.5
ZZ113407		0.039	0.10	0.37	27	0.17	4.16	27	<0.5
ZZ113408		0.031	0.04	0.45	28	0.15	3.08	29	<0.5
ZZ113409		0.102	0.03	0.27	40	0.20	2.60	29	<0.5
ZZ113410		0.059	0.05	0.51	39	0.27	4.02	39	<0.5

Comments: **WEI- 21 (Received Weight) for samples ZZ113291 and ZZ113292 are estimated based on reject and split weights as the original weights were entered incorrectly**

***** See Appendix Page for comments regarding this certificate *****



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CERTIFICATE OF ANALYSIS WH17127294

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ113411		0.33	<0.001	0.06	1.21	3.5	<0.02	<10	90	0.20	0.15	0.40	0.19	7.77	17.3	91
ZZ113412		0.38	<0.001	0.05	1.39	4.4	<0.02	<10	90	0.20	0.28	0.14	0.18	14.70	9.4	57
ZZ113413		0.40	<0.001	0.10	1.83	1.0	<0.02	<10	60	0.17	0.07	0.47	0.05	6.65	19.1	206
ZZ113414		0.39	<0.001	0.36	2.38	2.9	<0.02	<10	70	0.73	0.12	0.58	0.08	20.8	16.8	188
ZZ113415		0.43	<0.001	0.05	1.60	4.5	<0.02	<10	80	0.25	0.16	0.25	0.10	11.65	10.5	60
ZZ113416		0.49	<0.001	0.06	1.97	7.7	<0.02	<10	100	0.34	0.16	0.36	0.13	13.90	17.3	84
ZZ113417		0.55	<0.001	0.04	1.86	7.6	<0.02	<10	190	0.43	0.20	0.50	0.17	19.10	15.6	57
ZZ113418		0.38	<0.001	0.24	1.64	6.6	<0.02	<10	220	0.37	0.17	0.67	0.23	15.20	8.6	42
ZZ113419		0.42	0.004	0.25	2.15	11.5	<0.02	<10	120	0.54	0.23	0.30	0.63	25.1	16.1	60
ZZ113420		0.35	<0.001	0.11	1.13	5.1	<0.02	<10	120	0.24	0.14	0.22	0.39	11.20	8.7	30
ZZ113421		0.55	0.001	0.03	0.91	3.6	<0.02	<10	20	0.12	0.22	0.12	0.06	12.00	5.6	41
ZZ113422		0.36	<0.001	0.01	1.80	3.4	<0.02	<10	20	0.19	0.10	0.36	0.09	10.15	18.0	148
ZZ113423		0.41	<0.001	0.01	0.81	3.0	<0.02	<10	20	0.07	0.23	0.10	0.05	10.00	4.6	47
ZZ113424		0.50	<0.001	0.06	1.55	3.8	<0.02	<10	30	0.13	0.24	0.20	0.08	10.55	11.5	111
ZZ113425		0.48	<0.001	0.04	1.46	3.3	<0.02	<10	50	0.20	0.27	0.29	0.10	10.25	13.5	116
ZZ113426		0.41	<0.001	0.09	2.14	4.4	<0.02	<10	90	0.35	0.18	0.35	0.11	10.70	17.6	157
ZZ113427		0.43	<0.001	0.04	1.44	3.6	<0.02	<10	20	0.19	0.14	0.31	0.12	11.05	14.3	114
ZZ113428		0.37	0.126	0.71	1.55	622	0.11	<10	380	0.65	0.03	0.70	0.19	7.47	80.7	28
ZZ113429		0.40	0.010	0.15	1.94	29.8	<0.02	<10	250	0.70	0.04	1.10	0.20	19.10	44.3	107
ZZ113430		0.29	0.018	0.10	1.43	29.5	<0.02	<10	230	0.84	0.04	1.44	0.23	21.9	41.0	56
ZZ113431		0.43	<0.001	0.08	1.48	11.8	<0.02	<10	160	0.34	0.13	0.52	0.26	17.40	17.1	69
ZZ113432		0.43	<0.001	0.10	1.37	6.4	<0.02	<10	180	0.24	0.16	0.46	0.27	17.85	17.0	79
ZZ113433		0.46	<0.001	0.06	1.60	5.2	<0.02	<10	70	0.21	0.10	0.37	0.14	11.05	18.5	101
ZZ113434		0.26	<0.001	0.06	2.01	4.1	<0.02	<10	70	0.18	0.13	0.42	0.10	7.94	20.8	172
ZZ113435		0.37	0.001	0.03	1.30	3.5	<0.02	<10	40	0.19	0.11	0.35	0.12	12.40	16.6	99
ZZ113436		0.43	<0.001	0.05	2.08	3.7	<0.02	<10	50	0.19	0.11	0.28	0.08	7.22	17.6	160
ZZ113437		0.48	<0.001	0.04	1.93	1.7	<0.02	<10	40	0.16	0.10	0.29	0.07	7.17	15.3	180
ZZ113438		0.42	<0.001	0.04	1.81	2.6	<0.02	<10	40	0.14	1.38	0.24	0.08	5.99	18.7	173
ZZ113439		0.27	0.002	0.01	1.95	6.7	<0.02	<10	40	0.24	0.15	0.17	0.11	11.70	12.8	107
ZZ113440		0.38	0.001	0.03	2.01	2.7	<0.02	<10	20	0.18	0.09	0.25	0.14	7.22	21.9	185
ZZ113441		0.20	<0.001	0.05	0.60	0.6	<0.02	<10	10	0.08	0.04	0.07	0.02	3.86	2.5	22
ZZ113442		0.33	<0.001	0.02	1.89	3.1	<0.02	<10	50	0.27	0.11	0.18	0.12	12.95	18.8	170
ZZ113443		0.18	0.001	0.09	1.79	1.7	<0.02	<10	20	0.11	0.07	0.15	0.10	4.82	22.2	266
ZZ113444		0.29	0.005	0.04	1.94	2.5	<0.02	<10	20	0.18	0.10	0.16	0.08	6.34	23.7	252
ZZ113445		0.41	<0.001	0.04	1.84	2.0	<0.02	<10	10	0.11	0.06	0.22	0.06	6.11	21.6	272
ZZ113446		0.42	0.002	0.04	1.42	2.1	<0.02	<10	10	0.09	0.04	0.32	0.07	4.75	23.4	254
ZZ113447		0.45	0.002	0.10	1.43	2.7	<0.02	<10	30	0.07	0.03	0.40	0.09	2.56	37.0	246
ZZ113448		0.25	0.001	0.08	1.59	1.9	<0.02	<10	20	0.12	0.05	0.21	0.07	5.38	15.6	228
ZZ113449		0.27	0.001	0.09	1.73	1.8	<0.02	<10	40	0.14	0.07	0.54	0.09	5.23	20.3	322
ZZ113450		0.34	<0.001	0.03	1.50	2.4	<0.02	<10	10	0.11	0.06	0.29	0.12	4.33	20.0	186

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		Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
ZZ113411		2.05	31.1	1.82	4.38	<0.05	<0.02	0.02	0.013	0.03	4.1	6.8	0.69	723	1.01	0.01
ZZ113412		1.59	38.7	2.32	5.74	<0.05	<0.02	0.02	0.017	0.04	7.1	7.7	0.58	209	0.83	0.01
ZZ113413		1.69	171.5	1.80	3.27	<0.05	0.02	0.02	0.010	0.02	3.9	9.8	1.72	275	0.28	<0.01
ZZ113414		2.13	208	2.53	5.68	0.06	0.06	0.03	0.024	0.05	10.2	14.4	2.13	299	0.54	0.01
ZZ113415		1.90	32.1	2.26	5.12	<0.05	<0.02	0.02	0.017	0.04	5.3	9.7	0.85	392	0.66	0.01
ZZ113416		1.73	53.2	3.04	5.48	<0.05	<0.02	0.01	0.022	0.05	6.5	13.2	1.25	450	0.92	0.01
ZZ113417		2.17	30.2	2.85	5.23	<0.05	0.02	0.01	0.022	0.06	9.1	13.7	1.10	626	0.83	0.01
ZZ113418		3.55	45.7	2.05	4.67	<0.05	0.04	0.03	0.019	0.05	8.5	10.2	0.72	410	1.08	0.01
ZZ113419		2.26	49.2	3.52	6.17	0.05	<0.02	0.03	0.034	0.07	11.9	17.4	1.33	507	8.18	0.01
ZZ113420		2.99	16.6	1.91	4.39	<0.05	<0.02	0.02	0.017	0.05	5.0	8.5	0.66	414	1.88	0.01
ZZ113421		2.70	12.1	1.35	5.53	<0.05	<0.02	0.02	0.014	0.03	6.0	4.4	0.33	211	0.65	0.01
ZZ113422		1.42	39.9	2.32	3.78	0.05	<0.02	0.02	0.014	0.03	4.7	13.6	1.39	366	0.32	<0.01
ZZ113423		2.34	8.9	1.37	6.64	<0.05	<0.02	0.01	0.013	0.03	5.0	3.2	0.28	202	0.72	<0.01
ZZ113424		2.31	26.3	2.12	6.48	<0.05	<0.02	0.02	0.015	0.05	5.3	8.7	0.90	226	0.72	<0.01
ZZ113425		1.61	34.6	2.02	3.92	<0.05	<0.02	0.01	0.013	0.04	4.9	11.7	1.10	284	0.38	0.01
ZZ113426		2.75	63.0	2.62	5.37	<0.05	<0.02	0.01	0.020	0.05	5.1	18.3	1.50	439	0.46	0.01
ZZ113427		1.38	26.8	2.12	3.92	<0.05	<0.02	0.01	0.014	0.03	5.4	11.5	1.07	277	0.51	0.01
ZZ113428		27.4	166.0	12.35	7.91	0.06	0.05	0.19	0.074	0.14	3.0	15.1	1.45	1600	0.58	0.02
ZZ113429		74.4	83.9	6.56	5.39	0.07	0.09	0.06	0.075	0.22	8.1	25.5	1.38	1620	0.20	0.01
ZZ113430		66.8	108.0	6.85	3.91	0.07	0.06	0.12	0.088	0.20	9.0	17.5	0.77	1840	0.19	<0.01
ZZ113431		9.53	53.5	3.29	4.49	0.05	0.02	0.02	0.024	0.08	8.2	14.9	1.05	525	0.75	0.02
ZZ113432		1.69	51.1	2.35	3.65	0.06	0.03	0.01	0.016	0.05	9.8	10.0	1.12	488	0.91	0.01
ZZ113433		1.60	70.9	2.38	3.73	<0.05	<0.02	0.01	0.015	0.04	6.0	10.2	1.37	365	0.54	0.01
ZZ113434		1.98	73.1	2.76	4.85	<0.05	<0.02	0.01	0.012	0.04	3.9	11.0	1.78	418	0.51	<0.01
ZZ113435		0.78	36.7	1.90	2.96	<0.05	<0.02	0.01	0.011	0.02	6.2	7.9	1.11	325	0.39	<0.01
ZZ113436		1.70	56.4	2.41	4.95	<0.05	<0.02	0.01	0.016	0.04	3.6	11.9	1.75	311	0.38	0.01
ZZ113437		1.14	53.0	2.00	3.74	<0.05	<0.02	0.02	0.012	0.03	3.7	10.7	1.67	228	0.25	<0.01
ZZ113438		1.03	57.8	2.11	3.46	<0.05	<0.02	0.01	0.011	0.02	2.9	10.1	1.65	335	0.34	<0.01
ZZ113439		1.58	33.4	2.35	5.06	<0.05	<0.02	0.02	0.016	0.03	5.6	11.1	1.01	344	0.58	<0.01
ZZ113440		1.09	79.7	2.15	3.57	<0.05	<0.02	0.01	0.012	0.03	3.0	10.3	1.78	395	0.33	<0.01
ZZ113441		0.45	12.8	0.58	2.06	<0.05	<0.02	0.01	0.005	0.02	1.9	1.5	0.19	50	0.22	0.02
ZZ113442		1.43	70.4	1.98	3.79	<0.05	<0.02	0.02	0.015	0.02	6.8	10.2	1.22	482	0.48	<0.01
ZZ113443		1.64	109.5	1.88	3.62	<0.05	<0.02	0.02	0.009	0.03	2.2	8.5	2.03	261	0.37	0.01
ZZ113444		2.06	86.3	2.06	4.06	<0.05	<0.02	0.02	0.012	0.03	2.9	10.5	2.02	407	0.39	<0.01
ZZ113445		1.49	175.0	1.42	2.89	<0.05	<0.02	0.01	0.008	0.02	2.9	10.0	1.99	261	0.35	<0.01
ZZ113446		1.11	110.5	1.45	2.12	<0.05	<0.02	0.01	0.006	0.02	2.2	8.5	1.62	253	0.55	<0.01
ZZ113447		1.61	138.0	1.53	1.76	<0.05	0.02	0.01	0.005	0.02	1.3	8.8	1.78	268	0.32	<0.01
ZZ113448		1.94	133.5	1.38	2.77	<0.05	<0.02	0.02	0.006	0.02	2.6	10.3	1.66	201	0.31	0.01
ZZ113449		2.70	116.5	1.94	3.45	<0.05	<0.02	0.04	0.009	0.02	2.4	12.4	1.78	463	0.45	<0.01
ZZ113450		1.33	76.0	1.86	3.03	<0.05	<0.02	0.03	0.012	0.02	2.1	11.4	1.62	350	0.39	<0.01

Comments: **WEI- 21 (Received Weight) for samples ZZ113291 and ZZ113292 are estimated based on reject and split weights as the original weights were entered incorrectly**



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Project: Rosy

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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
ZZ113411		0.32	31.5	1030	4.1	8.8	<0.001	0.09	0.30	0.5	0.4	0.4	12.5	<0.01	0.04	<0.2
ZZ113412		0.66	24.7	470	5.6	5.0	<0.001	0.05	0.34	1.3	0.5	0.5	11.9	<0.01	0.04	<0.2
ZZ113413		0.25	67.2	610	1.6	3.4	<0.001	0.07	0.19	3.3	1.2	<0.2	13.1	<0.01	0.01	0.3
ZZ113414		2.14	83.0	850	4.0	5.5	0.001	0.07	0.29	7.8	1.6	0.8	16.8	<0.01	0.02	1.1
ZZ113415		0.40	25.6	770	4.1	5.9	<0.001	0.05	0.28	1.2	0.3	0.3	12.2	<0.01	0.03	<0.2
ZZ113416		0.58	39.6	640	4.3	6.0	<0.001	0.03	0.31	2.9	0.6	0.3	14.5	<0.01	0.04	0.3
ZZ113417		0.65	34.3	700	5.6	7.4	<0.001	0.04	0.37	3.7	0.8	0.3	19.3	<0.01	0.03	0.6
ZZ113418		0.52	22.9	1520	4.7	7.1	<0.001	0.11	0.33	1.8	0.9	0.3	21.0	<0.01	0.02	0.4
ZZ113419		0.68	49.4	940	9.1	9.6	<0.001	0.03	0.61	3.3	2.1	0.4	16.0	<0.01	0.07	0.7
ZZ113420		0.33	15.6	740	5.3	12.7	<0.001	0.05	0.25	0.9	0.5	0.3	13.5	<0.01	0.03	<0.2
ZZ113421		0.79	13.1	400	6.1	6.0	<0.001	0.02	0.29	1.0	0.3	0.6	8.4	<0.01	0.02	<0.2
ZZ113422		0.89	54.4	360	2.7	2.9	<0.001	0.01	0.31	4.0	0.3	0.3	10.0	<0.01	0.01	1.9
ZZ113423		1.05	13.0	370	6.4	6.5	<0.001	0.02	0.31	1.2	0.2	0.9	7.2	<0.01	0.02	<0.2
ZZ113424		0.81	37.9	360	5.2	6.5	<0.001	0.02	0.33	2.0	0.2	0.7	9.4	<0.01	0.02	0.2
ZZ113425		0.67	44.7	360	3.1	4.7	<0.001	0.01	0.27	3.6	0.3	0.4	11.2	<0.01	0.01	1.0
ZZ113426		0.72	61.9	390	3.8	7.6	<0.001	0.02	0.31	4.6	0.4	0.6	13.8	<0.01	0.02	0.6
ZZ113427		0.85	42.6	300	3.0	4.0	<0.001	0.01	0.29	3.3	0.3	0.3	11.0	<0.01	0.01	1.2
ZZ113428		0.07	111.5	490	2.8	19.1	<0.001	0.13	19.00	59.7	0.7	0.3	18.2	<0.01	0.03	0.5
ZZ113429		0.07	105.5	2890	2.5	33.9	<0.001	0.03	3.32	33.0	1.6	0.4	22.2	<0.01	0.01	0.8
ZZ113430		0.09	61.1	2030	2.9	37.8	<0.001	0.05	3.42	34.6	1.7	0.3	18.7	<0.01	0.01	0.7
ZZ113431		0.55	42.4	960	4.9	10.0	<0.001	0.02	1.05	5.9	0.7	0.3	18.2	<0.01	0.03	1.0
ZZ113432		0.45	39.1	810	3.6	4.2	<0.001	0.01	0.49	5.2	0.7	0.3	17.5	<0.01	0.03	2.1
ZZ113433		0.45	49.4	580	2.7	4.2	<0.001	0.01	0.30	4.5	0.6	0.2	13.5	<0.01	0.02	1.0
ZZ113434		0.49	64.7	430	2.5	4.7	<0.001	0.03	0.30	3.8	0.6	0.3	12.2	<0.01	0.02	0.3
ZZ113435		0.50	43.6	430	2.4	2.4	<0.001	0.01	0.22	3.8	0.4	0.2	12.7	<0.01	0.01	1.7
ZZ113436		0.37	67.3	450	2.2	3.7	<0.001	0.03	0.21	3.3	0.5	0.2	12.3	<0.01	0.02	0.2
ZZ113437		0.36	70.9	440	1.8	2.5	<0.001	0.03	0.18	4.1	0.3	0.2	11.2	<0.01	0.01	0.5
ZZ113438		0.38	67.1	280	1.5	2.8	<0.001	0.03	0.20	3.4	0.5	0.2	10.7	<0.01	0.02	0.4
ZZ113439		0.62	38.5	460	4.1	4.8	<0.001	0.04	0.29	1.6	0.4	0.4	10.6	<0.01	0.05	<0.2
ZZ113440		0.30	71.4	380	1.8	3.5	<0.001	0.02	0.20	3.0	0.5	0.2	10.6	<0.01	0.02	0.2
ZZ113441		0.09	7.2	490	1.4	1.7	<0.001	0.04	0.06	0.1	0.3	<0.2	6.1	<0.01	0.01	<0.2
ZZ113442		0.40	60.3	650	3.2	4.0	<0.001	0.05	0.26	1.8	0.4	0.2	10.9	<0.01	0.03	0.2
ZZ113443		0.30	122.0	530	1.6	3.3	<0.001	0.03	0.12	1.3	0.4	0.2	8.9	<0.01	0.02	<0.2
ZZ113444		0.23	86.1	550	1.6	4.3	<0.001	0.04	0.16	1.6	0.4	0.2	8.8	<0.01	0.03	<0.2
ZZ113445		0.27	104.5	390	1.6	3.3	<0.001	0.02	0.14	1.7	0.3	<0.2	10.7	<0.01	0.02	<0.2
ZZ113446		0.27	87.4	360	1.1	1.8	<0.001	0.01	0.19	2.5	0.2	<0.2	12.6	<0.01	0.02	0.6
ZZ113447		0.12	90.1	220	1.1	1.3	<0.001	0.02	0.23	2.9	0.2	<0.2	14.3	<0.01	0.04	0.4
ZZ113448		0.29	92.9	460	1.3	3.2	<0.001	0.04	0.15	1.3	0.4	<0.2	10.9	<0.01	0.02	<0.2
ZZ113449		0.29	74.2	900	1.8	5.0	<0.001	0.07	0.23	3.0	0.4	0.2	14.8	<0.01	0.02	<0.2
ZZ113450		0.24	60.2	440	1.3	2.2	<0.001	0.03	0.22	3.0	0.3	<0.2	12.5	<0.01	0.02	<0.2

Comments: **WEI- 21 (Received Weight) for samples ZZ113291 and ZZ113292 are estimated based on reject and split weights as the original weights were entered incorrectly**



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CERTIFICATE OF ANALYSIS WH17127294

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ113411		0.033	0.06	0.45	41	0.23	1.87	34	<0.5
ZZ113412		0.071	0.07	0.55	59	0.80	3.11	37	<0.5
ZZ113413		0.035	0.05	0.43	33	0.08	5.84	36	0.6
ZZ113414		0.134	0.07	1.17	62	0.47	11.00	48	3.1
ZZ113415		0.050	0.08	0.43	56	0.33	3.17	36	<0.5
ZZ113416		0.081	0.08	0.52	69	0.34	4.93	50	<0.5
ZZ113417		0.053	0.08	0.94	68	0.52	7.35	53	0.7
ZZ113418		0.030	0.10	1.59	48	0.31	8.64	55	1.1
ZZ113419		0.061	0.16	1.01	79	0.76	7.55	157	0.5
ZZ113420		0.038	0.09	0.48	49	0.33	2.74	55	<0.5
ZZ113421		0.098	0.06	0.47	47	0.30	1.93	23	<0.5
ZZ113422		0.149	0.04	0.46	57	0.29	4.64	34	<0.5
ZZ113423		0.128	0.06	0.33	54	0.21	1.40	20	<0.5
ZZ113424		0.134	0.08	0.45	63	0.27	2.59	34	<0.5
ZZ113425		0.103	0.06	0.47	53	0.32	3.87	38	<0.5
ZZ113426		0.084	0.09	0.73	65	0.33	4.72	48	<0.5
ZZ113427		0.110	0.05	0.62	51	0.29	3.95	31	<0.5
ZZ113428		0.043	2.01	0.15	493	0.99	15.00	95	1.0
ZZ113429		0.018	0.72	0.22	152	0.46	29.5	71	1.4
ZZ113430		0.008	1.07	0.21	137	0.39	33.7	80	1.0
ZZ113431		0.076	0.10	0.50	95	0.37	8.37	54	0.6
ZZ113432		0.108	0.08	0.47	58	0.50	10.45	47	1.2
ZZ113433		0.083	0.05	0.34	52	0.39	6.47	39	<0.5
ZZ113434		0.113	0.06	0.30	60	0.35	4.42	37	<0.5
ZZ113435		0.118	0.04	0.41	46	0.32	5.41	29	<0.5
ZZ113436		0.075	0.06	0.34	54	0.27	3.41	34	<0.5
ZZ113437		0.068	0.04	0.40	42	0.21	3.89	28	<0.5
ZZ113438		0.075	0.04	0.31	44	0.23	3.10	30	<0.5
ZZ113439		0.083	0.06	0.43	52	0.27	3.30	36	<0.5
ZZ113440		0.077	0.04	0.24	43	0.22	3.10	33	<0.5
ZZ113441		0.022	0.03	0.25	15	0.05	0.97	8	<0.5
ZZ113442		0.047	0.05	0.73	38	0.21	4.90	32	<0.5
ZZ113443		0.049	0.03	0.30	31	0.12	1.46	36	<0.5
ZZ113444		0.042	0.04	0.28	41	0.22	2.47	32	<0.5
ZZ113445		0.049	0.05	0.26	22	0.17	1.94	24	<0.5
ZZ113446		0.056	0.02	0.19	25	0.14	2.24	20	<0.5
ZZ113447		0.075	0.02	0.10	20	0.13	2.49	16	0.7
ZZ113448		0.041	0.04	0.23	23	0.11	1.53	24	<0.5
ZZ113449		0.043	0.03	0.22	44	0.16	2.66	25	<0.5
ZZ113450		0.061	0.02	0.16	43	0.17	2.06	26	<0.5

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***** See Appendix Page for comments regarding this certificate *****



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ113451		0.41	<0.001	0.12	1.67	5.4	<0.02	<10	30	0.10	0.09	0.26	0.07	3.46	25.9	174
ZZ113452		0.32	0.001	0.04	2.61	5.1	<0.02	<10	30	0.18	0.07	0.39	0.06	5.11	36.0	246
ZZ113453		0.44	<0.001	0.04	1.75	4.5	<0.02	<10	20	0.19	0.07	0.37	0.10	6.06	27.1	195
ZZ113454		0.34	0.001	0.03	2.23	2.6	<0.02	<10	10	0.16	0.05	0.41	0.10	4.30	26.0	295
ZZ113455		0.42	0.002	0.05	2.57	7.4	<0.02	<10	20	0.19	0.07	0.51	0.11	6.52	36.2	298
ZZ113456		0.50	<0.001	0.03	1.84	2.8	<0.02	<10	10	0.09	0.04	0.37	0.06	3.15	26.5	252
ZZ113457		0.44	<0.001	0.03	1.50	2.9	<0.02	<10	20	0.14	0.08	0.24	0.07	7.34	13.2	139
ZZ113458		0.44	<0.001	0.03	1.76	2.3	<0.02	<10	20	0.13	0.06	0.28	0.09	4.60	20.7	199
ZZ113459		0.37	0.001	0.03	1.72	3.2	<0.02	<10	10	0.12	0.10	0.22	0.12	8.78	14.7	158
ZZ113460		0.33	0.001	0.03	1.82	3.1	<0.02	<10	20	0.14	0.09	0.23	0.15	6.62	15.1	175
ZZ113461		0.20	<0.001	0.06	0.58	0.9	<0.02	<10	20	0.10	0.05	0.16	0.05	4.51	3.5	26
ZZ113462		0.34	<0.001	0.04	1.68	3.7	<0.02	<10	10	0.08	0.08	0.26	0.11	5.46	15.1	187
ZZ113463		0.37	0.001	0.03	1.57	3.5	<0.02	<10	30	0.12	0.12	0.28	0.10	9.07	20.8	182
ZZ113464		0.35	<0.001	0.05	1.56	3.8	<0.02	<10	30	0.16	0.16	0.21	0.07	12.40	9.4	129
ZZ113465		0.41	<0.001	0.03	2.78	1.5	<0.02	<10	20	0.17	0.03	0.50	0.08	5.18	39.1	461
ZZ113466		0.38	0.001	0.03	2.09	2.4	<0.02	<10	40	0.16	0.07	0.30	0.06	6.71	21.1	255
ZZ113467		0.38	0.005	0.03	2.11	1.5	<0.02	<10	50	0.28	0.06	0.47	0.05	11.35	23.8	218
ZZ113468		0.43	<0.001	0.02	2.26	14.5	<0.02	<10	50	0.21	0.11	0.29	0.16	10.20	22.7	166
ZZ113469		0.37	0.001	0.16	2.52	16.6	<0.02	<10	30	0.21	0.06	0.39	0.12	9.62	36.8	191
ZZ113470		0.28	<0.001	0.14	1.66	2.8	<0.02	<10	70	0.13	0.13	0.24	0.12	8.70	9.1	91
ZZ113471		0.25	<0.001	0.09	1.20	3.2	<0.02	<10	30	0.12	0.09	0.15	0.08	6.48	7.3	61
ZZ113472		0.30	<0.001	0.04	2.17	7.6	<0.02	<10	120	0.40	0.16	0.33	0.28	20.0	20.1	69
ZZ113473		0.37	0.001	0.04	1.83	6.1	<0.02	<10	140	0.28	0.19	0.43	0.18	14.70	16.8	47
ZZ113474		0.33	<0.001	0.08	1.97	8.6	<0.02	<10	190	0.38	0.18	0.61	0.17	23.3	15.9	73
ZZ113475		0.33	<0.001	0.13	1.67	9.6	<0.02	<10	350	0.47	0.14	0.60	0.14	29.0	10.0	41
ZZ113476		0.31	0.001	0.08	1.99	10.6	<0.02	<10	140	0.48	0.15	0.30	0.22	22.1	12.4	49
ZZ113477		0.35	<0.001	0.23	1.65	10.6	<0.02	<10	250	0.44	0.16	0.61	0.16	17.30	8.1	45
ZZ113478		0.32	0.003	0.16	1.85	6.4	<0.02	<10	200	0.34	0.13	0.74	0.12	19.70	8.3	74
ZZ113479		0.27	<0.001	0.03	1.49	5.4	<0.02	<10	120	0.27	0.13	0.42	0.11	16.25	11.8	42
ZZ113480		0.33	0.002	0.04	1.46	6.0	<0.02	<10	70	0.42	0.12	0.31	0.16	20.1	9.8	34
ZZ113481		0.38	0.002	0.03	1.76	5.4	<0.02	<10	70	0.34	0.11	0.50	0.13	17.00	18.8	35
ZZ113482		0.40	0.002	0.05	1.69	6.6	<0.02	<10	80	0.27	0.12	0.40	0.22	18.45	13.7	39
ZZ113483		0.44	0.001	0.06	1.34	3.7	<0.02	<10	240	0.21	0.10	0.40	0.16	10.65	11.6	40
ZZ113484		0.32	0.001	0.04	1.55	4.0	<0.02	<10	100	0.28	0.10	0.34	0.16	12.30	22.6	92
ZZ113485		0.29	<0.001	0.07	1.43	5.5	<0.02	<10	70	0.33	0.10	0.26	0.15	11.80	13.6	55
ZZ113486		0.40	0.002	0.06	1.71	5.9	<0.02	<10	80	0.28	0.09	0.42	0.17	15.60	13.3	39
ZZ113487		0.30	0.001	0.05	1.32	9.2	<0.02	<10	90	0.33	0.09	0.34	0.16	14.75	12.1	38
ZZ113488		0.30	0.016	0.09	1.31	5.4	<0.02	<10	110	0.28	0.13	0.19	0.17	12.70	8.1	32
ZZ113489		0.26	0.005	0.07	1.51	6.3	<0.02	<10	90	0.32	0.12	0.29	0.18	16.10	9.3	38
ZZ113490		0.28	0.002	0.05	1.17	6.2	<0.02	<10	100	0.25	0.13	0.17	0.19	12.65	12.6	36

Comments: **WEI- 21 (Received Weight) for samples ZZ113291 and ZZ113292 are estimated based on reject and split weights as the original weights were entered incorrectly**



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 Account: RCM

Project: Rosy

CERTIFICATE OF ANALYSIS WH17127294

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
ZZ113451		1.61	140.0	2.09	2.63	<0.05	<0.02	0.01	0.010	0.01	1.5	12.9	1.93	366	0.56	0.01
ZZ113452		3.89	200	3.30	4.77	<0.05	<0.02	0.01	0.016	0.02	2.4	19.1	2.73	777	0.30	<0.01
ZZ113453		3.06	120.0	2.34	3.66	0.05	<0.02	0.01	0.012	0.02	3.0	12.0	1.68	432	0.40	<0.01
ZZ113454		3.52	140.0	2.52	3.91	<0.05	<0.02	0.02	0.014	0.02	1.9	19.3	2.50	527	0.29	<0.01
ZZ113455		3.75	203	4.32	5.01	0.06	<0.02	0.02	0.014	0.02	2.8	18.7	2.43	678	0.62	<0.01
ZZ113456		1.94	124.0	1.91	2.99	<0.05	<0.02	0.01	0.007	0.02	1.5	17.5	2.28	386	0.26	<0.01
ZZ113457		2.35	74.5	1.69	3.21	<0.05	<0.02	0.01	0.011	0.02	3.8	9.8	1.15	235	0.40	0.01
ZZ113458		3.57	65.7	2.32	3.75	<0.05	<0.02	0.02	0.010	0.02	2.3	11.7	1.69	429	0.45	<0.01
ZZ113459		2.16	33.6	2.13	4.11	<0.05	<0.02	0.03	0.014	0.02	4.4	10.0	1.19	267	0.55	<0.01
ZZ113460		4.05	48.8	2.98	4.38	<0.05	<0.02	0.03	0.014	0.02	3.3	8.4	1.33	291	0.61	<0.01
ZZ113461		1.17	31.8	0.72	2.26	<0.05	<0.02	0.03	0.006	0.02	2.3	2.1	0.22	86	0.27	0.02
ZZ113462		0.92	45.9	2.07	3.35	<0.05	<0.02	0.02	0.009	0.01	2.9	8.3	1.34	196	0.49	<0.01
ZZ113463		3.01	84.7	2.55	4.03	<0.05	<0.02	0.02	0.011	0.03	4.2	10.0	1.33	358	0.75	<0.01
ZZ113464		1.66	29.8	2.02	5.35	<0.05	<0.02	0.04	0.015	0.03	6.3	8.0	0.87	180	0.78	<0.01
ZZ113465		0.88	115.5	2.00	3.10	<0.05	<0.02	0.02	0.007	0.02	2.1	15.2	3.15	376	0.45	<0.01
ZZ113466		0.67	64.6	2.54	3.84	<0.05	<0.02	0.01	0.010	0.02	3.3	11.3	2.05	307	0.32	<0.01
ZZ113467		1.14	155.5	2.31	3.91	<0.05	0.03	0.01	0.012	0.02	5.5	11.4	2.30	312	0.44	0.01
ZZ113468		0.95	73.5	2.78	3.98	<0.05	<0.02	0.01	0.014	0.04	4.1	12.1	1.88	395	0.54	0.01
ZZ113469		2.05	365	2.88	4.87	<0.05	0.02	0.03	0.013	0.03	4.0	14.4	2.39	483	0.47	<0.01
ZZ113470		1.65	40.0	2.16	5.01	<0.05	<0.02	0.02	0.014	0.04	4.4	9.3	0.93	273	0.71	0.01
ZZ113471		1.08	19.8	1.63	4.28	<0.05	<0.02	0.02	0.012	0.03	3.4	6.5	0.67	164	0.51	0.01
ZZ113472		3.11	86.7	3.45	5.50	<0.05	<0.02	0.01	0.023	0.06	8.4	14.0	1.25	667	1.02	0.02
ZZ113473		4.90	32.8	3.59	6.40	<0.05	<0.02	0.01	0.024	0.05	6.9	13.6	1.10	662	1.15	0.01
ZZ113474		10.20	57.9	3.16	5.54	<0.05	0.02	0.01	0.026	0.07	9.1	18.1	1.19	728	1.50	0.01
ZZ113475		11.90	24.8	3.08	5.27	<0.05	0.03	0.02	0.030	0.06	15.4	15.1	0.90	576	1.90	0.01
ZZ113476		6.43	31.7	3.36	5.97	<0.05	<0.02	0.02	0.027	0.08	11.7	13.4	1.09	375	2.97	0.01
ZZ113477		6.80	18.5	2.48	5.07	<0.05	0.03	0.03	0.025	0.06	11.8	14.2	0.81	274	1.96	0.01
ZZ113478		6.67	25.7	2.60	5.42	0.05	0.04	0.04	0.021	0.06	13.3	17.5	0.97	249	1.23	0.01
ZZ113479		5.40	28.0	2.84	5.16	<0.05	<0.02	0.01	0.021	0.06	6.8	12.3	0.86	558	0.49	0.01
ZZ113480		2.85	36.6	2.29	4.56	<0.05	<0.02	0.02	0.019	0.05	9.3	9.9	0.71	316	0.50	0.01
ZZ113481		3.01	259	3.62	5.60	<0.05	0.02	0.02	0.022	0.07	7.8	12.2	1.11	441	0.45	0.03
ZZ113482		3.16	53.6	3.16	5.57	<0.05	<0.02	0.02	0.023	0.07	7.9	12.0	0.84	427	0.48	0.02
ZZ113483		3.95	68.1	3.56	5.80	<0.05	<0.02	0.03	0.021	0.06	5.1	7.6	0.66	387	0.46	0.02
ZZ113484		3.20	22.4	4.83	6.55	<0.05	<0.02	0.02	0.022	0.05	5.6	11.9	0.96	351	0.35	0.02
ZZ113485		5.81	24.0	3.74	5.68	<0.05	<0.02	0.02	0.025	0.05	5.4	8.1	0.61	506	0.54	0.01
ZZ113486		5.31	41.8	3.36	4.79	<0.05	<0.02	0.01	0.021	0.07	7.1	10.8	0.80	449	0.32	0.02
ZZ113487		5.13	42.2	3.26	4.96	0.08	<0.02	0.02	0.020	0.06	6.5	8.7	0.60	453	0.54	0.02
ZZ113488		10.40	22.3	2.52	5.74	0.08	<0.02	0.02	0.017	0.06	6.4	5.4	0.37	577	0.67	0.02
ZZ113489		6.58	33.1	2.91	5.58	0.08	<0.02	0.02	0.023	0.06	7.7	10.3	0.58	335	0.54	0.02
ZZ113490		4.84	22.8	3.10	5.61	0.07	<0.02	0.03	0.020	0.06	5.9	6.9	0.40	1160	0.57	0.02

Comments: **WEI- 21 (Received Weight) for samples ZZ113291 and ZZ113292 are estimated based on reject and split weights as the original weights were entered incorrectly**



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CERTIFICATE OF ANALYSIS WH17127294

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ113451		0.25	81.5	240	1.3	1.4	<0.001	0.03	0.29	4.5	0.3	<0.2	11.4	<0.01	0.04	0.5
ZZ113452		0.26	95.4	510	1.5	2.2	<0.001	0.03	0.29	8.5	0.4	<0.2	13.0	<0.01	0.03	0.4
ZZ113453		0.32	82.0	510	1.4	2.1	<0.001	0.02	0.30	4.7	0.3	0.2	14.3	<0.01	0.02	0.7
ZZ113454		0.23	101.0	480	0.9	2.7	<0.001	0.03	0.47	6.4	0.3	<0.2	13.8	<0.01	0.02	0.7
ZZ113455		0.21	93.1	1540	1.3	3.3	<0.001	0.05	0.40	4.0	0.9	0.2	10.4	<0.01	0.05	<0.2
ZZ113456		0.21	111.5	240	0.7	1.7	<0.001	0.01	0.25	3.7	0.2	<0.2	12.3	<0.01	0.03	0.2
ZZ113457		0.36	55.6	420	1.6	2.7	<0.001	0.03	0.25	1.7	0.4	0.2	10.3	<0.01	0.03	<0.2
ZZ113458		0.37	71.3	330	1.3	2.4	<0.001	0.03	0.30	2.6	0.4	0.2	11.6	<0.01	0.04	<0.2
ZZ113459		0.53	52.7	340	2.1	3.2	<0.001	0.03	0.28	1.7	0.3	0.3	10.7	<0.01	0.02	0.2
ZZ113460		0.66	54.6	500	1.7	2.6	<0.001	0.04	0.31	1.9	0.4	0.3	9.8	<0.01	0.04	<0.2
ZZ113461		0.15	8.4	690	1.0	1.6	<0.001	0.05	0.11	0.2	<0.2	<0.2	8.5	<0.01	0.01	<0.2
ZZ113462		0.39	66.3	320	1.5	2.2	<0.001	0.03	0.25	1.8	0.5	0.2	11.8	<0.01	0.01	<0.2
ZZ113463		0.71	67.7	270	2.6	3.3	<0.001	0.02	0.29	2.5	0.3	0.3	12.4	<0.01	0.03	0.5
ZZ113464		0.81	39.6	420	4.3	3.5	<0.001	0.03	0.30	1.6	0.5	0.5	10.9	<0.01	0.03	0.2
ZZ113465		0.22	147.5	260	0.7	1.5	<0.001	0.02	0.23	3.0	0.2	<0.2	17.9	<0.01	0.01	0.2
ZZ113466		0.36	91.9	220	1.3	1.9	<0.001	0.02	0.18	2.8	0.3	0.2	11.4	<0.01	0.03	0.4
ZZ113467		0.89	106.0	460	1.8	2.8	<0.001	0.02	0.17	4.2	0.5	0.4	13.9	<0.01	0.02	1.0
ZZ113468		0.59	76.9	240	2.2	3.6	<0.001	0.02	0.26	3.4	0.4	0.2	11.9	<0.01	0.05	0.9
ZZ113469		0.34	104.0	590	1.4	2.4	<0.001	0.05	0.36	6.5	0.7	<0.2	9.4	<0.01	0.04	0.5
ZZ113470		0.41	26.9	550	3.0	4.5	<0.001	0.05	0.19	1.4	0.2	0.4	11.4	<0.01	0.02	<0.2
ZZ113471		0.38	21.3	370	2.5	2.9	<0.001	0.03	0.16	1.3	0.4	0.3	8.5	<0.01	0.04	<0.2
ZZ113472		0.41	40.4	630	5.7	6.4	<0.001	0.04	0.31	3.0	0.8	0.3	18.9	<0.01	0.05	0.2
ZZ113473		0.44	21.7	860	5.7	5.9	<0.001	0.05	0.30	2.5	0.6	0.4	14.4	<0.01	0.07	0.3
ZZ113474		0.42	30.9	1190	6.3	7.2	<0.001	0.07	0.42	4.2	0.8	0.4	21.2	<0.01	0.03	0.5
ZZ113475		0.37	20.6	930	6.5	7.1	<0.001	0.05	0.64	3.4	0.8	0.3	20.6	<0.01	0.04	0.8
ZZ113476		0.40	29.3	790	5.3	8.5	<0.001	0.04	0.62	2.8	0.9	0.4	15.2	<0.01	0.05	0.2
ZZ113477		0.63	21.9	900	5.0	6.4	<0.001	0.07	0.47	3.9	1.1	0.4	24.4	<0.01	0.03	0.7
ZZ113478		0.65	20.3	1230	4.4	5.7	<0.001	0.10	0.53	4.9	1.1	0.3	22.8	<0.01	0.03	0.8
ZZ113479		0.42	22.5	630	3.8	6.8	<0.001	0.04	0.41	2.8	0.2	0.3	21.6	<0.01	0.04	0.3
ZZ113480		0.47	19.5	790	3.9	5.8	<0.001	0.03	0.43	2.7	0.7	0.3	20.3	<0.01	0.01	0.2
ZZ113481		0.53	25.4	770	3.3	5.8	<0.001	0.02	0.40	6.1	0.5	0.3	21.9	<0.01	0.02	0.8
ZZ113482		0.61	23.4	790	4.0	7.6	<0.001	0.03	0.51	3.5	0.3	0.4	25.0	<0.01	0.03	0.3
ZZ113483		0.46	21.2	530	2.9	8.4	<0.001	0.03	0.39	3.1	0.3	0.4	22.3	<0.01	0.02	<0.2
ZZ113484		0.50	50.4	500	2.8	5.2	<0.001	0.03	0.32	3.8	0.3	0.4	20.5	<0.01	0.03	0.3
ZZ113485		0.49	26.3	620	3.0	6.0	<0.001	0.05	0.45	2.7	0.2	0.4	19.0	<0.01	0.03	<0.2
ZZ113486		0.44	21.6	770	2.6	5.6	<0.001	0.02	0.68	3.2	0.4	0.3	23.6	<0.01	0.03	0.2
ZZ113487		0.46	20.2	800	4.1	6.6	<0.001	0.05	0.96	2.3	0.6	0.4	20.4	<0.01	0.01	<0.2
ZZ113488		0.51	12.6	690	4.2	12.3	<0.001	0.07	0.55	1.1	0.5	0.5	16.9	<0.01	0.01	<0.2
ZZ113489		0.62	19.4	570	4.2	7.7	<0.001	0.04	0.55	1.9	0.6	0.4	18.8	<0.01	0.01	<0.2
ZZ113490		0.44	18.5	630	4.9	15.6	<0.001	0.05	0.64	1.5	0.4	0.5	13.5	<0.01	0.01	<0.2

Comments: **WEI- 21 (Received Weight) for samples ZZ113291 and ZZ113292 are estimated based on reject and split weights as the original weights were entered incorrectly**



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 Account: RCM

Project: Rosy

CERTIFICATE OF ANALYSIS WH17127294

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ113451		0.055	0.03	0.12	45	0.15	2.11	26	<0.5
ZZ113452		0.068	0.04	0.17	74	0.14	7.78	38	<0.5
ZZ113453		0.080	0.05	0.23	51	0.20	4.90	30	<0.5
ZZ113454		0.076	0.03	0.24	59	0.13	4.07	34	<0.5
ZZ113455		0.097	0.04	0.21	72	0.21	8.76	44	<0.5
ZZ113456		0.059	0.02	0.09	36	0.11	1.79	23	<0.5
ZZ113457		0.079	0.04	0.26	36	0.20	2.55	25	<0.5
ZZ113458		0.120	0.03	0.18	51	0.18	2.62	27	<0.5
ZZ113459		0.102	0.03	0.31	45	0.26	2.83	28	<0.5
ZZ113460		0.154	0.03	0.25	69	0.19	3.14	34	<0.5
ZZ113461		0.029	0.02	0.22	18	0.09	1.53	12	<0.5
ZZ113462		0.097	0.02	0.22	41	0.26	2.05	24	<0.5
ZZ113463		0.131	0.04	0.26	52	0.41	2.62	35	<0.5
ZZ113464		0.104	0.07	0.49	50	0.37	2.54	28	<0.5
ZZ113465		0.084	0.02	0.16	31	0.14	2.80	29	<0.5
ZZ113466		0.088	0.04	0.24	46	0.19	3.15	27	<0.5
ZZ113467		0.093	0.04	0.42	43	0.26	4.03	35	1.0
ZZ113468		0.093	0.05	0.29	51	0.74	3.56	59	<0.5
ZZ113469		0.047	0.03	0.44	57	0.18	7.90	36	0.5
ZZ113470		0.060	0.08	0.53	55	0.18	2.99	33	<0.5
ZZ113471		0.072	0.05	0.33	44	0.22	2.21	25	<0.5
ZZ113472		0.066	0.08	0.60	80	2.20	7.32	51	<0.5
ZZ113473		0.061	0.07	0.42	75	0.29	4.96	73	<0.5
ZZ113474		0.044	0.06	0.84	78	0.30	9.00	98	0.5
ZZ113475		0.030	0.09	0.74	61	0.35	10.75	63	0.8
ZZ113476		0.067	0.11	0.53	80	1.87	6.64	72	<0.5
ZZ113477		0.044	0.10	2.31	58	0.32	11.90	50	0.9
ZZ113478		0.052	0.06	2.69	69	0.24	16.05	62	0.9
ZZ113479		0.056	0.06	0.37	72	0.38	3.52	47	<0.5
ZZ113480		0.063	0.09	0.59	66	0.51	6.44	39	<0.5
ZZ113481		0.129	0.08	0.41	130	0.50	5.58	44	0.5
ZZ113482		0.095	0.07	0.57	101	0.35	5.24	50	<0.5
ZZ113483		0.100	0.07	0.34	155	0.17	3.28	43	<0.5
ZZ113484		0.108	0.07	0.41	198	0.28	3.95	50	<0.5
ZZ113485		0.081	0.10	0.45	143	0.25	3.62	42	<0.5
ZZ113486		0.074	0.08	0.39	101	0.25	5.49	49	<0.5
ZZ113487		0.053	0.09	0.47	98	1.34	4.73	48	<0.5
ZZ113488		0.052	0.10	0.55	91	0.22	3.21	43	<0.5
ZZ113489		0.065	0.07	0.55	78	0.25	4.12	47	<0.5
ZZ113490		0.051	0.09	0.50	110	0.27	3.09	48	<0.5

Comments: **WEI- 21 (Received Weight) for samples ZZ113291 and ZZ113292 are estimated based on reject and split weights as the original weights were entered incorrectly**

***** See Appendix Page for comments regarding this certificate *****



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Project: Rosy

CERTIFICATE OF ANALYSIS WH17127294

Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ113491		0.34	0.001	0.09	1.78	5.7	<0.02	<10	170	0.34	0.33	0.50	0.21	17.50	12.5	70
ZZ113492		0.26	<0.001	0.08	2.52	2.9	<0.02	<10	320	0.43	0.13	1.27	0.33	20.0	10.8	28
ZZ113493		0.36	0.005	0.04	1.81	7.2	<0.02	<10	110	0.42	0.19	0.29	0.34	24.1	9.9	47
ZZ113494		0.30	<0.001	0.09	1.24	5.0	<0.02	<10	90	0.17	0.14	0.17	0.20	8.64	7.1	40
ZZ113495		0.27	<0.001	0.09	1.26	3.4	<0.02	<10	60	0.22	0.13	0.13	0.20	10.15	5.2	30
ZZ113496		0.30	<0.001	0.05	1.48	3.9	<0.02	<10	890	0.33	0.15	0.18	0.28	15.90	9.9	34
ZZ113497		0.31	0.002	0.09	1.72	8.3	<0.02	<10	210	0.35	0.16	0.63	0.19	17.05	9.7	52
ZZ113498		0.34	0.003	0.08	1.78	6.7	<0.02	<10	90	0.35	0.15	0.28	0.21	18.75	9.4	44
ZZ113499		0.41	0.003	0.07	1.65	9.1	<0.02	<10	70	0.39	0.08	0.36	0.23	15.40	18.2	42
ZZ113500		0.32	0.001	0.06	1.71	6.8	<0.02	<10	90	0.35	0.15	0.21	0.31	14.20	8.6	41

Comments: **WEI- 21 (Received Weight) for samples ZZ113291 and ZZ113292 are estimated based on reject and split weights as the original weights were entered incorrectly**

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Project: Rosy

CERTIFICATE OF ANALYSIS WH17127294

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ113491		2.25	67.1	2.50	5.03	0.09	0.03	0.02	0.020	0.07	8.8	15.0	0.88	405	0.87	0.02
ZZ113492		3.75	14.5	3.86	7.43	0.11	0.02	0.01	0.019	0.19	9.0	13.5	1.69	483	2.94	0.02
ZZ113493		2.66	20.5	2.65	5.22	0.10	<0.02	0.01	0.024	0.05	13.4	13.1	0.93	492	0.64	0.02
ZZ113494		3.21	16.0	1.96	5.63	0.08	<0.02	0.02	0.015	0.05	4.6	7.8	0.56	333	0.82	0.01
ZZ113495		1.93	14.5	1.73	4.87	0.08	<0.02	0.02	0.015	0.04	4.8	9.1	0.53	196	0.70	0.02
ZZ113496		2.11	20.8	2.28	4.46	0.09	<0.02	0.01	0.017	0.05	6.7	9.0	0.54	642	0.80	0.01
ZZ113497		2.32	27.2	2.38	4.92	0.08	0.05	0.01	0.019	0.06	8.6	14.5	1.02	300	1.79	0.02
ZZ113498		5.52	19.5	2.63	5.74	0.10	<0.02	0.02	0.024	0.06	8.6	12.7	0.78	325	0.75	0.02
ZZ113499		6.45	36.1	2.77	5.39	0.10	<0.02	0.02	0.020	0.05	7.0	10.9	0.67	521	1.23	0.02
ZZ113500		3.32	19.7	2.57	5.95	0.09	<0.02	0.02	0.019	0.05	7.1	12.0	0.68	326	0.97	0.02

Comments: **WEI- 21 (Received Weight) for samples ZZ113291 and ZZ113292 are estimated based on reject and split weights as the original weights were entered incorrectly**

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 Account: RCM

Project: Rosy

CERTIFICATE OF ANALYSIS WH17127294

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ113491		0.86	36.8	750	4.7	7.8	<0.001	0.04	0.28	5.2	0.7	0.4	17.6	<0.01	0.02	1.1
ZZ113492		0.93	14.6	2340	5.0	22.4	<0.001	0.07	0.20	3.9	1.6	0.3	38.0	<0.01	0.02	1.3
ZZ113493		0.49	25.6	600	6.1	8.5	<0.001	0.04	0.37	2.9	0.8	0.4	15.5	<0.01	0.03	0.3
ZZ113494		0.40	16.3	540	4.0	11.4	<0.001	0.05	0.29	1.0	0.4	0.4	13.8	<0.01	0.03	<0.2
ZZ113495		0.42	11.7	490	4.4	8.6	<0.001	0.04	0.28	0.9	0.3	0.4	10.9	<0.01	0.02	<0.2
ZZ113496		0.43	14.5	620	6.5	6.6	<0.001	0.07	0.29	1.5	0.5	0.3	12.0	<0.01	0.03	<0.2
ZZ113497		0.65	29.8	1080	4.5	6.0	0.001	0.06	0.36	3.7	1.3	0.3	24.1	<0.01	0.02	0.9
ZZ113498		0.64	20.5	640	5.2	5.9	<0.001	0.06	0.43	2.0	0.7	0.4	17.9	<0.01	0.03	0.2
ZZ113499		0.46	25.5	750	3.1	5.6	<0.001	0.06	0.56	2.5	0.9	0.4	14.3	<0.01	0.01	<0.2
ZZ113500		0.64	17.2	590	4.8	7.7	<0.001	0.06	0.43	1.9	0.6	0.4	16.1	<0.01	0.03	<0.2

Comments: **WEI- 21 (Received Weight) for samples ZZ113291 and ZZ113292 are estimated based on reject and split weights as the original weights were entered incorrectly**

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Project: Rosy

CERTIFICATE OF ANALYSIS WH17127294

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Tl ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ113491		0.078	0.09	0.86	64	1.07	8.75	59	0.8
ZZ113492		0.113	0.21	1.23	74	0.17	5.38	171	0.9
ZZ113493		0.056	0.09	0.73	60	0.54	11.95	59	<0.5
ZZ113494		0.054	0.10	0.51	62	0.41	2.41	45	<0.5
ZZ113495		0.046	0.06	0.41	52	1.00	2.23	33	<0.5
ZZ113496		0.048	0.07	0.46	50	0.47	4.96	52	<0.5
ZZ113497		0.052	0.08	1.87	61	0.51	7.35	58	1.2
ZZ113498		0.064	0.09	0.70	65	0.37	5.67	43	<0.5
ZZ113499		0.066	0.07	0.49	78	1.38	9.03	54	<0.5
ZZ113500		0.069	0.10	0.82	73	0.64	4.62	52	<0.5

Comments: **WEI- 21 (Received Weight) for samples ZZ113291 and ZZ113292 are estimated based on reject and split weights as the original weights were entered incorrectly**

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CERTIFICATE OF ANALYSIS WH17127294

CERTIFICATE COMMENTS

ANALYTICAL COMMENTS

Applies to Method: Gold determinations by this method are semi- quantitative due to the small sample weight used (0.5g).
ME- MS41

LABORATORY ADDRESSES

Applies to Method: Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.
LOG- 22 SCR- 41 WEI- 21

Applies to Method: Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.
Au- ICP21 ME- MS41



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CERTIFICATE WH17127297

Project: Rosy

This report is for 216 Soil samples submitted to our lab in Whitehorse, YT, Canada on 23-JUN- 2017.

The following have access to data associated with this certificate:

ANDREW CARNE	JULIA LANE	JOAN MARIACHER
--------------	------------	----------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	Ultra Trace Aqua Regia ICP- MS	

To: **ATAC RESOURCES LTD.**
ATTN: JULIA LANE
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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CERTIFICATE OF ANALYSIS WH17127297

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ109001		0.37	0.001	0.07	1.82	6.5	<0.02	<10	140	0.41	0.15	0.30	0.23	15.45	12.9	44
ZZ109002		0.53	0.004	0.06	1.96	6.8	<0.02	<10	100	0.43	0.13	0.25	0.21	16.50	12.4	42
ZZ109003		0.39	0.002	0.07	1.47	5.8	<0.02	<10	150	0.35	0.12	0.26	0.19	12.00	11.6	33
ZZ109004		0.33	<0.001	0.06	0.87	3.9	<0.02	<10	150	0.17	0.11	0.15	0.24	8.13	9.0	16
ZZ109005		0.35	0.001	0.04	2.20	5.8	<0.02	<10	250	0.62	0.12	0.43	0.19	20.1	12.6	43
ZZ109006		0.37	0.002	0.05	1.60	8.6	<0.02	<10	200	0.39	0.13	0.45	0.20	16.55	16.7	38
ZZ109007		0.36	0.002	0.04	1.23	6.6	<0.02	<10	90	0.29	0.10	0.21	0.11	12.65	7.6	22
ZZ109008		0.37	0.002	0.04	1.34	7.0	<0.02	<10	140	0.36	0.10	0.37	0.18	12.55	14.8	34
ZZ109009		0.40	0.004	0.19	1.61	17.3	<0.02	<10	370	0.36	0.18	0.31	0.09	14.05	5.5	26
ZZ109010		0.42	0.009	0.12	1.67	22.7	<0.02	<10	430	0.42	0.16	0.65	0.08	24.1	10.9	39
ZZ109011		0.31	0.004	0.31	2.08	14.2	<0.02	<10	630	0.66	0.12	1.13	0.12	28.5	8.6	37
ZZ109012		0.51	0.002	0.05	2.01	7.5	<0.02	<10	360	0.44	0.23	0.30	0.07	18.30	8.3	41
ZZ109013		0.45	0.007	0.06	1.80	11.0	<0.02	<10	360	0.48	0.13	0.46	0.07	21.3	15.5	41
ZZ109014		0.34	0.001	0.08	0.84	2.1	<0.02	<10	130	0.21	0.04	0.41	0.04	9.22	1.9	7
ZZ109015		0.58	0.005	0.12	1.27	3.2	<0.02	<10	230	0.30	0.14	0.66	0.21	19.70	11.4	38
ZZ109016		0.34	0.004	0.09	1.51	5.5	0.02	<10	270	0.41	0.13	0.77	0.34	25.4	13.3	47
ZZ109017		0.33	0.004	0.34	1.26	44.6	<0.02	<10	110	0.33	0.24	0.37	0.16	34.1	7.8	32
ZZ109018		0.43	<0.001	0.04	1.23	25.2	<0.02	<10	60	0.24	0.26	0.11	0.14	41.2	8.9	38
ZZ109019		0.31	0.001	0.03	0.42	1.7	<0.02	<10	40	0.09	0.29	0.04	0.06	21.4	0.9	7
ZZ109020		0.35	0.001	0.05	1.30	17.5	<0.02	<10	120	0.34	0.25	0.20	0.19	30.8	7.8	36
ZZ109021		0.35	0.001	0.03	1.23	7.9	<0.02	<10	100	0.17	0.07	0.28	0.09	9.30	6.4	23
ZZ109022		0.43	<0.001	0.11	1.29	3.5	<0.02	<10	110	0.25	0.14	0.15	0.21	11.10	6.5	26
ZZ109023		0.47	0.002	0.04	1.58	6.1	<0.02	<10	80	0.25	0.18	0.25	0.15	15.95	9.2	36
ZZ109024		0.38	0.008	0.08	1.56	5.5	<0.02	<10	70	0.22	0.19	0.23	0.13	13.40	7.1	37
ZZ109025		0.44	0.001	0.05	1.30	4.4	<0.02	<10	70	0.23	0.08	0.23	0.11	11.10	8.6	28
ZZ109026		0.44	<0.001	0.07	1.49	6.1	<0.02	<10	90	0.39	0.12	0.22	0.14	14.60	11.6	36
ZZ109027		0.46	0.005	0.10	1.35	4.9	<0.02	<10	60	0.26	0.19	0.17	0.19	12.35	6.5	34
ZZ109028		0.44	0.001	0.10	1.28	3.5	<0.02	<10	150	0.26	0.15	0.48	0.09	9.64	6.9	33
ZZ109029		0.42	0.003	0.06	1.23	4.8	<0.02	<10	80	0.23	0.21	0.15	0.14	10.85	7.5	34
ZZ109030		0.34	0.002	0.12	2.03	8.4	<0.02	<10	330	0.58	0.22	0.53	0.19	21.7	12.4	56
ZZ109031		0.33	<0.001	0.10	1.32	4.5	<0.02	<10	80	0.25	0.31	0.11	0.08	11.55	5.7	28
ZZ109032		0.32	<0.001	0.09	1.51	5.8	<0.02	<10	120	0.20	0.19	0.14	0.21	11.60	7.0	35
ZZ109033		0.43	0.001	0.10	1.62	5.7	<0.02	<10	160	0.34	0.25	0.40	0.12	15.70	8.5	41
ZZ109034		0.46	0.013	0.09	1.37	5.0	<0.02	<10	260	0.36	0.12	0.51	0.09	16.65	6.6	32
ZZ109035		0.49	0.006	0.05	1.02	6.8	<0.02	<10	70	0.27	0.10	0.19	0.11	12.05	5.9	26
ZZ109036		0.34	0.007	0.09	2.16	45.0	<0.02	<10	300	0.56	0.15	0.33	0.05	23.7	11.0	49
ZZ109037		0.37	<0.001	0.06	1.78	9.7	<0.02	<10	80	0.35	0.10	0.11	0.13	19.05	8.2	31
ZZ109038		0.35	0.005	0.04	1.54	8.2	<0.02	<10	70	0.28	0.18	0.21	0.14	18.90	9.6	38
ZZ109039		0.46	0.002	0.04	1.48	10.3	<0.02	<10	220	0.38	0.15	0.20	0.10	17.70	8.8	34
ZZ109040		0.36	0.001	0.07	1.44	10.1	<0.02	<10	80	0.36	0.18	0.17	0.14	18.60	10.4	34



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Sample Description	Method	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
Units		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
LOR		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ109001		4.73	35.7	3.54	6.26	<0.05	<0.02	0.03	0.024	0.07	7.4	10.0	0.63	629	0.54	0.02
ZZ109002		2.77	39.2	3.47	5.66	<0.05	<0.02	0.03	0.026	0.06	7.7	13.7	0.68	390	0.75	0.02
ZZ109003		3.39	27.1	3.24	5.77	<0.05	<0.02	0.03	0.021	0.06	6.1	6.0	0.43	816	0.79	0.02
ZZ109004		3.42	14.3	1.83	4.46	<0.05	<0.02	0.03	0.012	0.04	3.6	3.4	0.23	1020	0.56	0.02
ZZ109005		11.25	45.5	3.68	6.44	<0.05	<0.02	0.02	0.032	0.08	9.2	16.7	0.89	597	0.42	0.02
ZZ109006		7.18	52.1	3.38	4.87	<0.05	<0.02	0.02	0.022	0.10	7.8	13.0	0.78	764	0.48	0.02
ZZ109007		5.23	25.9	2.05	4.08	<0.05	<0.02	0.02	0.016	0.05	5.6	7.3	0.40	410	0.64	0.02
ZZ109008		4.13	40.4	3.13	4.03	<0.05	<0.02	0.01	0.015	0.09	5.2	9.7	0.65	746	0.43	0.02
ZZ109009		10.30	23.2	2.22	6.41	<0.05	<0.02	0.02	0.022	0.06	8.9	8.6	0.37	326	0.89	0.01
ZZ109010		8.76	45.7	2.85	5.03	<0.05	0.03	0.03	0.024	0.07	11.5	12.4	0.72	409	0.45	0.02
ZZ109011		7.27	53.3	2.37	4.91	0.08	0.05	0.04	0.021	0.06	30.5	9.8	0.59	480	0.54	0.02
ZZ109012		5.06	22.8	2.92	7.13	<0.05	<0.02	0.02	0.026	0.07	11.4	10.2	0.74	275	0.48	0.01
ZZ109013		4.59	37.9	3.52	5.05	<0.05	0.02	0.02	0.022	0.05	11.6	14.3	0.77	513	0.49	0.02
ZZ109014		0.45	14.7	0.70	2.30	<0.05	0.02	0.03	0.006	0.02	6.6	2.2	0.11	241	0.19	0.04
ZZ109015		2.55	48.2	1.69	3.64	<0.05	0.05	0.04	0.016	0.06	10.3	13.1	0.76	198	1.23	0.03
ZZ109016		2.93	56.5	2.11	4.46	0.06	0.10	0.03	0.021	0.09	13.3	13.7	0.91	258	3.14	0.03
ZZ109017		10.05	21.6	2.14	3.55	<0.05	<0.02	0.02	0.017	0.08	17.1	19.1	0.49	247	1.26	0.01
ZZ109018		3.85	20.5	2.64	6.50	<0.05	<0.02	0.01	0.016	0.07	17.7	9.2	0.58	312	1.81	0.01
ZZ109019		5.18	4.3	0.50	3.30	<0.05	<0.02	0.01	0.007	0.02	11.4	0.8	0.03	27	1.16	0.01
ZZ109020		3.16	18.6	2.16	4.20	<0.05	<0.02	0.01	0.018	0.07	15.8	14.0	0.52	229	1.58	0.01
ZZ109021		3.65	8.0	1.90	2.79	<0.05	0.02	0.01	0.015	0.03	4.3	15.2	1.17	378	0.97	0.01
ZZ109022		2.71	15.6	2.16	4.97	<0.05	<0.02	0.03	0.015	0.04	5.6	5.6	0.41	490	0.93	0.01
ZZ109023		3.32	28.0	2.78	5.21	<0.05	<0.02	0.03	0.019	0.05	7.5	9.7	0.61	528	0.59	0.02
ZZ109024		2.70	27.5	2.28	5.64	<0.05	<0.02	0.03	0.016	0.04	6.8	8.3	0.49	212	0.68	0.02
ZZ109025		2.58	28.3	2.32	3.71	<0.05	<0.02	0.02	0.016	0.05	5.5	6.1	0.43	397	0.50	0.02
ZZ109026		2.58	33.8	2.60	5.10	<0.05	<0.02	0.02	0.018	0.07	6.5	10.3	0.55	526	0.58	0.01
ZZ109027		2.70	21.8	2.12	5.15	<0.05	<0.02	0.03	0.017	0.05	5.9	8.3	0.39	225	0.75	0.01
ZZ109028		7.40	24.4	1.85	4.57	<0.05	<0.02	0.02	0.015	0.05	4.9	12.3	0.63	217	0.50	0.01
ZZ109029		5.31	22.5	2.30	5.69	<0.05	<0.02	0.02	0.018	0.05	4.9	6.5	0.42	578	0.71	0.01
ZZ109030		8.38	98.1	3.10	6.27	0.05	<0.02	0.03	0.027	0.08	11.3	16.0	0.69	813	0.65	0.01
ZZ109031		5.81	19.7	1.97	6.01	<0.05	<0.02	0.04	0.017	0.04	5.4	4.5	0.27	374	0.99	<0.01
ZZ109032		4.00	25.2	3.12	6.78	<0.05	<0.02	0.03	0.022	0.05	5.3	6.5	0.40	404	0.80	0.01
ZZ109033		6.26	30.2	2.63	5.53	<0.05	<0.02	0.02	0.019	0.06	8.0	12.5	0.66	302	0.65	0.01
ZZ109034		6.65	21.2	2.08	4.30	<0.05	0.02	0.02	0.020	0.05	10.4	12.3	0.58	274	0.47	0.01
ZZ109035		5.51	19.6	2.03	3.66	<0.05	<0.02	0.02	0.013	0.06	5.4	6.4	0.39	306	0.52	0.01
ZZ109036		17.50	27.3	3.61	6.51	0.05	<0.02	0.02	0.030	0.07	15.4	19.7	0.78	539	1.16	0.01
ZZ109037		6.50	20.3	3.54	5.58	<0.05	<0.02	0.04	0.023	0.05	7.8	7.4	0.36	565	0.67	<0.01
ZZ109038		6.68	27.2	2.49	4.72	<0.05	<0.02	0.02	0.018	0.06	8.5	10.0	0.58	454	0.54	0.01
ZZ109039		9.67	25.2	2.86	5.32	<0.05	<0.02	0.01	0.019	0.05	8.8	10.3	0.59	430	0.43	<0.01
ZZ109040		14.75	32.9	2.94	4.70	<0.05	<0.02	0.02	0.022	0.07	7.8	8.6	0.49	719	0.66	0.01



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb	Ni	P	Pb	Rb	Re	S	Sb	Sc	Se	Sn	Sr	Ta	Te	Th
		ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ109001		0.60	21.3	660	5.2	12.9	<0.001	0.07	0.62	1.8	0.5	0.5	18.5	<0.01	0.01	<0.2
ZZ109002		0.64	23.5	510	4.1	6.1	<0.001	0.04	0.58	2.3	0.6	0.4	17.2	<0.01	0.01	0.2
ZZ109003		0.55	15.1	860	4.8	11.1	<0.001	0.10	0.62	1.1	0.5	0.5	18.7	<0.01	0.02	<0.2
ZZ109004		0.33	7.2	640	4.3	11.0	<0.001	0.07	0.38	0.4	0.3	0.3	12.6	<0.01	0.01	<0.2
ZZ109005		0.29	20.3	1460	4.1	10.6	<0.001	0.07	0.79	2.1	0.7	0.4	21.3	<0.01	0.01	0.2
ZZ109006		0.41	24.2	860	4.5	12.0	<0.001	0.04	0.85	2.3	0.3	0.3	22.3	<0.01	0.02	<0.2
ZZ109007		0.39	11.8	640	3.2	6.2	<0.001	0.04	0.60	1.0	0.4	0.3	13.9	<0.01	0.01	<0.2
ZZ109008		0.21	17.8	1030	3.7	14.6	<0.001	0.06	0.58	0.8	0.3	0.2	19.3	<0.01	0.02	<0.2
ZZ109009		0.40	11.7	780	5.3	11.3	<0.001	0.06	0.87	0.8	0.4	0.5	18.2	<0.01	0.01	<0.2
ZZ109010		0.66	23.1	750	4.7	8.0	<0.001	0.05	1.15	4.0	1.0	0.3	24.4	<0.01	0.01	0.8
ZZ109011		0.53	17.7	2570	4.2	6.9	<0.001	0.19	0.92	2.6	1.6	0.3	36.8	0.01	0.01	0.5
ZZ109012		0.88	20.9	480	6.1	7.1	<0.001	0.05	0.50	3.1	0.5	0.6	19.8	<0.01	0.01	0.3
ZZ109013		0.70	22.0	500	4.3	6.5	<0.001	0.03	0.63	5.6	0.6	0.3	24.6	<0.01	0.01	1.6
ZZ109014		0.49	2.7	720	2.1	1.0	<0.001	0.06	0.15	0.7	0.7	<0.2	19.4	0.01	0.01	0.2
ZZ109015		0.87	26.7	1000	4.4	5.1	0.001	0.13	0.69	5.6	1.4	0.3	32.0	<0.01	0.02	2.7
ZZ109016		1.13	33.5	1120	4.8	9.6	0.003	0.33	1.45	7.3	4.8	0.4	41.9	<0.01	0.02	3.6
ZZ109017		0.42	28.4	540	18.8	11.6	<0.001	0.02	2.84	1.5	0.6	0.4	16.0	<0.01	0.04	0.9
ZZ109018		0.72	27.4	290	18.7	14.8	<0.001	0.02	3.03	1.7	0.5	0.6	8.5	<0.01	0.04	1.6
ZZ109019		0.43	2.4	170	11.5	4.1	<0.001	0.01	0.41	0.3	<0.2	0.7	6.4	<0.01	0.02	<0.2
ZZ109020		0.85	23.8	490	13.5	12.8	<0.001	0.02	2.03	2.4	0.5	0.5	13.4	<0.01	0.03	3.0
ZZ109021		0.29	8.7	480	5.2	2.8	<0.001	0.02	0.22	1.7	0.5	<0.2	10.3	<0.01	0.04	0.5
ZZ109022		0.41	9.3	790	5.1	10.6	<0.001	0.07	0.37	0.6	0.4	0.5	14.5	<0.01	0.04	<0.2
ZZ109023		0.51	17.7	960	4.5	7.7	<0.001	0.02	0.67	1.8	0.4	0.4	17.3	<0.01	0.02	0.2
ZZ109024		0.55	17.4	470	4.8	4.9	<0.001	0.03	0.50	1.1	0.5	0.5	15.1	<0.01	0.02	<0.2
ZZ109025		0.21	12.0	850	2.4	9.8	<0.001	0.06	0.47	0.4	0.3	0.3	16.8	<0.01	0.02	<0.2
ZZ109026		0.25	18.2	880	4.1	11.1	<0.001	0.05	0.51	0.6	0.5	0.3	18.8	<0.01	0.02	<0.2
ZZ109027		0.53	13.6	550	4.2	6.2	<0.001	0.04	0.40	1.0	0.5	0.4	11.7	<0.01	0.01	<0.2
ZZ109028		0.22	15.1	880	3.2	6.3	<0.001	0.06	0.28	1.1	0.3	0.3	23.4	<0.01	0.01	<0.2
ZZ109029		0.45	13.6	610	4.1	9.4	<0.001	0.05	0.51	1.0	0.3	0.5	12.8	<0.01	0.02	<0.2
ZZ109030		0.38	25.2	950	5.1	10.8	<0.001	0.05	0.66	2.5	1.0	0.5	26.2	<0.01	0.03	<0.2
ZZ109031		0.35	9.8	730	3.9	6.9	<0.001	0.06	0.44	0.4	0.4	0.6	9.9	<0.01	0.02	<0.2
ZZ109032		0.67	14.5	600	4.6	9.6	<0.001	0.06	0.54	1.0	0.3	0.5	13.1	<0.01	0.03	<0.2
ZZ109033		0.39	19.6	840	4.8	8.5	<0.001	0.05	0.41	1.5	0.3	0.4	21.2	<0.01	0.02	<0.2
ZZ109034		0.39	14.1	1070	3.6	6.5	<0.001	0.07	0.55	2.4	0.4	0.3	28.3	<0.01	0.01	0.4
ZZ109035		0.16	11.6	820	3.1	9.4	<0.001	0.06	0.95	0.4	0.4	0.3	13.5	<0.01	0.02	<0.2
ZZ109036		0.49	21.9	970	5.9	10.1	<0.001	0.05	0.79	4.9	1.1	0.5	25.8	<0.01	0.01	0.6
ZZ109037		0.28	12.0	950	4.4	8.0	<0.001	0.08	1.30	0.5	0.7	0.4	9.6	<0.01	0.02	<0.2
ZZ109038		0.44	19.1	720	4.8	7.3	<0.001	0.03	0.94	1.7	0.6	0.4	14.4	<0.01	0.02	<0.2
ZZ109039		0.47	16.3	560	5.0	6.7	<0.001	0.03	1.15	1.9	0.3	0.4	14.9	<0.01	0.01	0.2
ZZ109040		0.22	15.9	1240	5.3	14.8	<0.001	0.05	1.34	0.7	0.7	0.3	12.5	<0.01	0.03	<0.2



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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ109001		0.071	0.09	0.57	103	0.23	4.59	62	<0.5
ZZ109002		0.073	0.07	0.58	96	0.32	4.60	51	<0.5
ZZ109003		0.059	0.08	0.58	101	0.18	4.73	42	<0.5
ZZ109004		0.037	0.09	0.41	53	0.14	1.69	31	<0.5
ZZ109005		0.027	0.09	0.53	86	0.20	9.36	62	<0.5
ZZ109006		0.057	0.11	0.48	84	0.28	5.65	61	<0.5
ZZ109007		0.043	0.07	0.42	50	3.11	2.96	35	<0.5
ZZ109008		0.033	0.06	0.45	83	0.27	3.52	59	<0.5
ZZ109009		0.022	0.24	0.66	60	0.32	5.46	36	<0.5
ZZ109010		0.041	0.11	1.49	68	0.35	13.40	46	0.8
ZZ109011		0.020	0.12	6.42	54	0.25	37.8	44	1.2
ZZ109012		0.070	0.14	0.81	65	0.36	8.77	49	<0.5
ZZ109013		0.047	0.12	1.62	72	0.30	8.89	41	0.5
ZZ109014		0.038	0.03	5.59	14	0.05	7.32	9	0.8
ZZ109015		0.070	0.10	9.54	58	0.72	9.64	40	1.6
ZZ109016		0.084	0.11	27.7	70	0.39	12.20	54	3.9
ZZ109017		0.019	0.12	1.08	31	0.26	5.74	68	<0.5
ZZ109018		0.041	0.10	0.58	47	0.25	3.47	65	<0.5
ZZ109019		0.037	0.05	0.52	19	0.15	1.79	12	<0.5
ZZ109020		0.038	0.10	0.68	38	0.36	5.89	59	<0.5
ZZ109021		0.035	0.03	0.96	43	0.20	3.12	72	0.5
ZZ109022		0.042	0.09	0.61	67	0.19	2.81	38	<0.5
ZZ109023		0.065	0.09	0.52	76	0.35	3.64	41	<0.5
ZZ109024		0.053	0.08	0.58	62	0.63	3.25	34	<0.5
ZZ109025		0.022	0.06	0.43	65	0.21	3.50	35	<0.5
ZZ109026		0.026	0.08	0.48	71	0.23	3.75	43	<0.5
ZZ109027		0.053	0.11	0.58	61	0.58	2.81	36	<0.5
ZZ109028		0.027	0.04	0.61	59	0.44	3.80	52	<0.5
ZZ109029		0.058	0.09	0.58	74	0.54	2.28	41	<0.5
ZZ109030		0.043	0.14	0.86	85	0.58	18.50	60	<0.5
ZZ109031		0.031	0.13	0.77	65	0.51	2.10	32	<0.5
ZZ109032		0.065	0.10	0.59	76	0.47	2.46	50	<0.5
ZZ109033		0.041	0.10	0.72	64	0.66	5.60	60	<0.5
ZZ109034		0.029	0.08	1.45	46	1.40	7.81	43	<0.5
ZZ109035		0.021	0.06	0.56	48	3.39	2.99	39	<0.5
ZZ109036		0.027	0.17	4.20	72	0.33	15.55	76	<0.5
ZZ109037		0.019	0.09	0.58	75	0.28	3.98	46	<0.5
ZZ109038		0.050	0.11	0.51	59	0.63	4.38	46	<0.5
ZZ109039		0.042	0.10	0.45	62	0.36	7.52	46	<0.5
ZZ109040		0.021	0.13	0.55	64	0.62	5.52	55	<0.5



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ109041		0.34	<0.001	0.06	1.45	8.6	<0.02	<10	260	0.42	0.16	0.27	0.09	23.2	6.5	43
ZZ109042		0.50	0.002	0.05	1.20	7.8	<0.02	<10	170	0.33	0.09	0.39	0.06	18.35	7.3	28
ZZ109043		0.40	<0.001	0.05	1.20	6.1	<0.02	<10	110	0.26	0.12	0.25	0.06	16.15	6.7	28
ZZ109044		0.45	0.003	0.03	1.50	8.0	<0.02	<10	80	0.40	0.13	0.20	0.11	20.4	8.8	33
ZZ109045		0.34	0.001	0.04	1.39	15.2	<0.02	<10	110	0.45	0.07	0.19	0.11	25.7	12.6	26
ZZ109046		0.30	<0.001	0.07	0.97	4.1	<0.02	<10	60	0.18	0.12	0.08	0.08	11.90	4.9	18
ZZ109047		0.42	<0.001	0.06	1.39	6.2	<0.02	<10	70	0.27	0.13	0.11	0.11	13.55	5.1	26
ZZ109048		0.50	0.002	0.12	1.52	14.5	<0.02	<10	80	0.41	0.49	0.22	0.28	34.6	10.3	27
ZZ109049		0.45	0.001	0.48	1.66	37.1	<0.02	<10	70	0.48	0.51	0.31	0.48	68.0	15.7	36
ZZ109050		0.52	0.010	2.09	1.25	275	<0.02	<10	40	0.43	0.24	0.26	0.83	57.2	14.2	13
ZZ109051		0.56	0.002	0.28	1.57	14.1	<0.02	<10	250	0.39	0.15	0.63	1.03	20.9	15.3	50
ZZ109052		0.46	0.002	0.08	1.70	4.5	<0.02	<10	350	0.26	0.12	0.57	0.38	15.45	11.5	44
ZZ109053		0.31	0.009	0.16	1.35	11.8	<0.02	<10	220	0.40	0.10	0.89	0.29	14.05	13.3	41
ZZ109054		0.36	0.001	0.07	1.79	4.6	<0.02	<10	180	0.39	0.11	0.51	0.19	14.25	8.9	40
ZZ109055		0.48	0.001	0.03	1.42	5.9	<0.02	<10	50	0.25	0.10	0.22	0.14	15.30	8.2	34
ZZ109056		0.32	0.005	0.03	1.72	6.3	<0.02	<10	70	0.37	0.12	0.26	0.15	17.35	10.1	38
ZZ109057		0.34	<0.001	0.08	1.16	4.9	<0.02	<10	60	0.21	0.19	0.12	0.11	10.75	4.9	28
ZZ109058		0.46	<0.001	0.04	1.34	4.6	<0.02	<10	60	0.25	0.17	0.15	0.09	12.65	5.5	29
ZZ109059		0.39	0.002	0.05	1.51	6.1	<0.02	<10	80	0.24	0.25	0.19	0.21	14.95	10.3	40
ZZ109060		0.40	0.002	0.03	1.63	5.0	<0.02	<10	60	0.28	0.13	0.24	0.10	15.15	9.3	32
ZZ109061		0.24	<0.001	0.03	0.23	0.6	<0.02	<10	30	<0.05	0.04	0.04	0.05	1.52	1.2	4
ZZ109062		0.35	<0.001	0.04	1.05	3.4	<0.02	<10	60	0.14	0.22	0.09	0.05	10.50	4.4	26
ZZ109063		0.47	0.001	0.03	1.49	4.8	<0.02	<10	60	0.24	0.19	0.20	0.13	13.15	8.3	37
ZZ109064		0.45	0.002	0.04	1.82	5.3	<0.02	<10	70	0.34	0.18	0.20	0.13	16.65	9.4	37
ZZ109065		0.39	0.003	0.06	1.61	5.4	<0.02	<10	60	0.24	0.16	0.16	0.16	12.55	9.2	37
ZZ109066		0.38	<0.001	0.03	0.84	2.9	<0.02	<10	40	0.11	0.16	0.08	0.08	8.15	4.0	19
ZZ109067		0.37	0.004	0.05	1.13	3.6	<0.02	<10	150	0.22	0.11	0.44	0.11	9.19	6.7	21
ZZ109068		0.43	0.003	0.10	1.82	7.8	<0.02	<10	360	0.43	0.18	0.51	0.11	21.0	11.0	40
ZZ109069		0.35	0.006	0.06	1.51	5.3	<0.02	<10	170	0.26	1.73	0.27	0.13	12.30	8.7	40
ZZ109070		0.48	<0.001	0.06	1.17	2.4	<0.02	<10	290	0.17	0.16	0.38	0.05	9.78	4.0	20
ZZ109071		0.37	0.001	0.08	1.64	7.3	<0.02	<10	320	0.36	0.17	0.46	0.07	14.05	8.5	37
ZZ109072		0.38	0.001	0.10	1.60	5.5	<0.02	<10	230	0.34	0.24	0.27	0.09	16.35	8.4	40
ZZ109073		0.37	0.001	0.13	2.28	9.8	<0.02	<10	300	0.44	0.28	0.21	0.07	14.60	7.2	44
ZZ109074		0.38	0.002	0.16	1.89	3.9	<0.02	<10	460	0.38	0.17	0.69	0.12	19.70	8.5	44
ZZ109075		0.42	0.001	0.07	1.50	6.4	<0.02	<10	70	0.23	0.18	0.14	0.10	15.30	8.0	35
ZZ109076		0.39	0.001	0.04	1.94	7.8	<0.02	<10	90	0.34	0.19	0.20	0.13	19.00	11.4	45
ZZ109077		0.59	0.009	0.04	1.63	7.1	<0.02	<10	90	0.32	0.15	0.26	0.08	19.30	8.9	35
ZZ109078		0.55	0.002	0.04	1.38	6.0	<0.02	<10	80	0.26	0.13	0.25	0.10	20.0	9.4	33
ZZ109079		0.54	<0.001	0.04	1.75	5.8	<0.02	<10	200	0.37	0.13	0.35	0.06	21.5	11.8	45
ZZ109080		0.51	0.001	0.04	1.17	7.1	<0.02	<10	140	0.28	0.22	0.23	0.10	21.4	10.8	35



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		Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
ZZ109041		9.09	20.2	1.93	4.47	<0.05	<0.02	0.02	0.019	0.05	12.7	11.3	0.41	457	0.46	0.01
ZZ109042		8.74	24.1	1.96	3.46	<0.05	<0.02	0.02	0.014	0.05	9.6	9.1	0.47	389	0.35	0.01
ZZ109043		5.64	22.3	2.04	4.30	<0.05	<0.02	0.01	0.017	0.05	7.3	8.1	0.50	257	0.41	0.01
ZZ109044		5.43	31.1	2.38	4.35	<0.05	<0.02	0.03	0.015	0.05	9.2	9.6	0.54	297	0.57	0.01
ZZ109045		11.15	31.1	3.01	3.65	<0.05	<0.02	0.03	0.022	0.07	10.6	10.7	0.58	491	0.54	0.01
ZZ109046		5.59	17.7	1.73	4.51	<0.05	<0.02	0.02	0.011	0.04	5.5	3.2	0.22	405	0.57	<0.01
ZZ109047		5.20	24.9	2.02	5.32	<0.05	<0.02	0.03	0.015	0.04	6.5	6.2	0.32	206	0.57	<0.01
ZZ109048		2.07	35.6	3.37	4.61	<0.05	0.02	0.02	0.034	0.05	16.7	12.5	0.61	481	1.25	<0.01
ZZ109049		2.80	37.8	3.63	4.51	0.08	0.08	0.04	0.047	0.08	30.9	13.7	0.99	589	0.80	<0.01
ZZ109050		3.52	42.2	3.33	3.05	0.08	0.07	0.02	0.018	0.10	30.3	5.6	0.58	996	0.43	<0.01
ZZ109051		2.62	41.7	2.78	5.28	0.06	0.07	0.02	0.021	0.06	12.3	15.8	1.14	345	4.15	0.01
ZZ109052		1.66	28.8	2.19	5.47	0.06	0.05	0.02	0.021	0.03	7.5	20.7	1.00	195	6.20	0.01
ZZ109053		5.04	41.8	2.62	3.52	0.05	0.05	0.03	0.013	0.04	7.5	11.4	0.57	571	4.48	0.02
ZZ109054		4.68	35.0	2.17	4.58	<0.05	<0.02	0.01	0.015	0.05	8.8	13.2	0.80	408	0.61	0.01
ZZ109055		1.84	21.7	2.11	4.36	<0.05	<0.02	0.01	0.017	0.05	6.5	9.4	0.63	310	0.71	0.01
ZZ109056		2.07	25.5	2.56	5.01	<0.05	<0.02	0.02	0.016	0.05	7.4	10.6	0.74	315	0.52	0.01
ZZ109057		3.19	15.2	1.78	5.49	<0.05	<0.02	0.02	0.013	0.04	5.2	5.2	0.30	365	0.80	<0.01
ZZ109058		2.04	16.6	1.91	5.93	<0.05	<0.02	0.02	0.017	0.04	6.1	6.7	0.56	221	0.60	<0.01
ZZ109059		3.02	36.8	2.63	5.09	<0.05	<0.02	0.03	0.018	0.05	6.8	9.9	0.61	355	1.03	0.01
ZZ109060		1.97	31.5	2.31	4.49	<0.05	<0.02	0.03	0.017	0.04	7.4	8.1	0.61	259	0.59	0.01
ZZ109061		0.77	3.1	0.50	1.50	<0.05	<0.02	0.02	<0.005	0.02	0.8	0.4	0.04	62	0.28	0.01
ZZ109062		3.43	15.3	1.57	6.64	<0.05	<0.02	0.02	0.015	0.04	5.4	4.0	0.30	177	0.65	<0.01
ZZ109063		2.88	24.5	2.17	4.47	<0.05	<0.02	0.02	0.017	0.05	6.7	8.2	0.54	261	0.63	<0.01
ZZ109064		2.61	34.9	2.65	4.94	<0.05	<0.02	0.03	0.019	0.05	8.3	8.4	0.58	272	0.63	0.01
ZZ109065		3.68	29.9	2.78	5.43	<0.05	<0.02	0.03	0.020	0.06	6.2	8.2	0.59	312	0.64	0.01
ZZ109066		3.26	14.8	1.62	4.49	<0.05	<0.02	0.02	0.012	0.03	4.2	2.5	0.20	256	0.55	<0.01
ZZ109067		12.95	22.1	2.05	4.22	<0.05	<0.02	0.02	0.014	0.05	4.8	4.3	0.30	408	0.42	0.01
ZZ109068		9.18	90.1	3.00	5.84	<0.05	<0.02	0.03	0.022	0.07	13.1	11.4	0.71	427	0.57	0.01
ZZ109069		5.00	26.9	2.90	6.64	<0.05	<0.02	0.02	0.020	0.05	6.3	8.6	0.56	361	0.65	<0.01
ZZ109070		3.52	11.8	1.35	4.97	<0.05	<0.02	0.02	0.013	0.03	5.3	4.6	0.32	151	0.43	0.01
ZZ109071		7.63	27.3	2.62	5.76	<0.05	<0.02	0.02	0.023	0.06	8.8	11.7	0.63	355	0.54	<0.01
ZZ109072		6.22	25.7	2.31	5.33	<0.05	<0.02	0.02	0.021	0.07	9.1	10.2	0.60	332	0.56	<0.01
ZZ109073		7.24	32.3	3.03	8.25	<0.05	<0.02	0.04	0.031	0.08	8.3	10.8	0.54	212	0.89	<0.01
ZZ109074		7.44	25.9	1.99	4.97	<0.05	0.03	0.04	0.023	0.06	12.5	13.2	0.68	348	0.40	0.01
ZZ109075		6.91	23.2	2.17	5.65	<0.05	<0.02	0.03	0.018	0.06	7.3	8.6	0.58	461	0.67	0.01
ZZ109076		7.87	33.4	3.02	6.11	<0.05	<0.02	0.03	0.023	0.06	8.8	12.2	0.81	505	0.60	<0.01
ZZ109077		6.50	31.5	2.26	4.62	<0.05	<0.02	0.02	0.019	0.06	8.6	10.0	0.69	317	0.55	0.01
ZZ109078		6.11	30.0	2.12	4.22	<0.05	<0.02	0.02	0.017	0.07	9.1	9.1	0.67	459	0.46	0.01
ZZ109079		6.64	30.6	2.67	4.88	<0.05	<0.02	0.02	0.019	0.05	10.3	13.6	0.95	415	0.45	0.02
ZZ109080		4.58	33.8	2.23	4.00	<0.05	<0.02	0.02	0.016	0.05	11.2	8.4	0.61	404	0.56	0.01



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		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
ZZ109041		0.38	14.3	1150	5.0	7.0	<0.001	0.07	0.58	1.2	0.5	0.4	17.9	<0.01	0.02	0.2
ZZ109042		0.25	13.3	550	3.5	5.7	<0.001	0.03	1.02	1.5	0.7	0.3	18.6	<0.01	0.02	<0.2
ZZ109043		0.39	13.9	840	4.3	4.6	<0.001	0.03	0.96	1.7	0.2	0.3	15.8	<0.01	0.02	0.2
ZZ109044		0.61	17.3	540	4.3	5.7	<0.001	0.03	0.96	2.4	0.7	0.4	13.9	<0.01	0.03	0.3
ZZ109045		0.28	25.2	610	4.8	7.2	<0.001	0.02	1.94	3.5	0.6	0.3	14.4	<0.01	0.02	0.5
ZZ109046		0.18	7.3	450	3.7	5.4	<0.001	0.03	0.83	0.3	0.3	0.4	7.8	<0.01	0.01	<0.2
ZZ109047		0.42	10.0	550	4.4	5.2	<0.001	0.04	0.71	0.7	0.3	0.5	10.9	<0.01	0.03	<0.2
ZZ109048		0.33	34.9	1280	30.6	8.2	<0.001	0.06	1.12	1.2	0.8	0.4	14.3	<0.01	0.04	0.8
ZZ109049		0.27	49.9	620	45.8	9.5	<0.001	0.04	1.36	2.3	0.9	0.3	17.5	<0.01	0.06	4.6
ZZ109050		<0.05	44.9	640	71.7	9.3	<0.001	0.01	2.87	2.3	1.2	1.0	14.2	<0.01	0.05	9.4
ZZ109051		0.63	35.6	1100	5.7	6.3	0.003	0.04	0.40	6.4	1.3	0.3	23.4	<0.01	0.04	1.8
ZZ109052		0.87	19.4	840	5.0	3.1	0.001	0.06	0.16	5.1	11.2	0.3	21.5	<0.01	0.03	2.0
ZZ109053		0.55	22.2	1100	3.2	3.1	0.006	0.15	0.35	3.8	4.6	0.2	33.0	<0.01	0.02	0.4
ZZ109054		0.44	17.7	750	3.5	5.4	<0.001	0.07	0.30	2.0	1.1	0.2	20.4	<0.01	0.01	0.2
ZZ109055		0.31	18.1	710	3.4	6.6	<0.001	0.03	0.41	1.3	0.5	0.3	13.8	<0.01	0.03	<0.2
ZZ109056		0.56	20.3	660	3.7	5.3	<0.001	0.03	0.50	2.4	0.6	0.3	15.9	<0.01	0.02	0.2
ZZ109057		0.52	10.1	530	4.3	7.7	<0.001	0.04	0.40	0.8	0.2	0.5	9.8	<0.01	0.03	<0.2
ZZ109058		0.72	11.6	340	4.9	5.5	<0.001	0.03	0.35	1.2	0.3	0.5	12.7	<0.01	0.02	<0.2
ZZ109059		0.73	22.8	1050	6.8	7.1	<0.001	0.02	0.58	2.0	0.4	0.4	12.7	<0.01	0.02	0.3
ZZ109060		0.52	17.8	580	4.0	4.4	<0.001	0.02	0.51	1.8	0.4	0.4	15.5	<0.01	0.02	0.3
ZZ109061		0.06	1.7	310	1.0	1.9	<0.001	0.03	0.12	0.1	<0.2	0.2	5.4	<0.01	<0.01	<0.2
ZZ109062		0.48	9.7	510	6.3	6.0	<0.001	0.04	0.35	0.6	0.2	0.6	8.7	<0.01	0.02	<0.2
ZZ109063		0.51	19.2	630	4.4	6.4	<0.001	0.02	0.47	1.4	0.4	0.4	12.4	<0.01	0.02	0.2
ZZ109064		0.63	21.6	580	4.3	5.9	<0.001	0.03	0.49	1.7	0.5	0.4	12.9	<0.01	0.03	0.2
ZZ109065		0.54	19.6	550	4.1	8.2	<0.001	0.04	0.58	1.5	0.4	0.4	13.3	<0.01	0.02	<0.2
ZZ109066		0.34	7.2	450	3.7	7.5	<0.001	0.03	0.34	0.3	0.2	0.4	8.0	<0.01	0.01	<0.2
ZZ109067		0.30	9.3	850	3.4	9.2	<0.001	0.06	0.56	0.7	0.2	0.4	17.3	<0.01	0.02	<0.2
ZZ109068		0.45	22.6	800	4.9	9.6	<0.001	0.04	0.82	3.1	0.8	0.4	22.4	<0.01	0.03	0.4
ZZ109069		0.70	19.2	610	5.5	8.3	<0.001	0.05	0.57	1.7	0.3	0.5	17.0	<0.01	0.02	0.2
ZZ109070		0.38	7.5	730	4.1	4.6	<0.001	0.05	0.27	0.8	0.2	0.4	16.3	<0.01	0.01	<0.2
ZZ109071		0.35	19.1	990	5.2	7.4	<0.001	0.07	0.57	1.6	0.4	0.4	20.6	<0.01	0.02	0.2
ZZ109072		0.49	21.2	600	5.6	9.3	<0.001	0.05	0.60	1.9	0.3	0.5	15.7	<0.01	0.02	0.2
ZZ109073		0.76	21.4	720	8.0	8.8	<0.001	0.06	0.82	1.6	0.4	0.7	17.2	<0.01	0.02	<0.2
ZZ109074		0.54	20.5	1220	5.3	7.0	<0.001	0.11	0.78	3.5	0.9	0.4	29.4	<0.01	0.01	0.6
ZZ109075		0.51	18.1	540	4.6	9.2	<0.001	0.04	0.76	1.6	0.4	0.5	12.6	<0.01	0.02	0.2
ZZ109076		0.56	24.2	590	4.7	8.8	<0.001	0.03	1.24	2.5	0.4	0.5	15.8	<0.01	0.02	0.3
ZZ109077		0.50	19.5	740	4.6	8.4	<0.001	0.02	0.82	2.4	0.5	0.4	17.3	<0.01	0.02	0.4
ZZ109078		0.50	19.9	900	4.3	8.4	<0.001	0.02	0.85	2.6	0.4	0.4	15.6	<0.01	0.02	0.5
ZZ109079		0.45	25.6	490	4.1	5.7	<0.001	0.02	0.95	3.5	0.4	0.3	21.6	<0.01	0.01	0.6
ZZ109080		0.35	22.7	490	4.4	5.1	<0.001	0.02	1.24	2.3	0.5	0.3	16.1	<0.01	0.02	0.3



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ109041		0.028	0.08	1.24	46	0.32	8.98	46	<0.5
ZZ109042		0.033	0.08	0.77	44	0.20	8.63	33	<0.5
ZZ109043		0.040	0.08	0.79	49	0.23	3.73	35	<0.5
ZZ109044		0.056	0.09	0.68	54	0.32	4.53	36	<0.5
ZZ109045		0.024	0.20	0.92	55	0.23	5.92	48	<0.5
ZZ109046		0.020	0.10	0.43	52	0.16	1.67	26	<0.5
ZZ109047		0.037	0.09	0.62	52	0.20	2.66	30	<0.5
ZZ109048		0.017	0.10	0.96	29	0.22	6.18	85	0.6
ZZ109049		0.009	0.12	0.96	21	0.16	14.95	123	2.6
ZZ109050		<0.005	0.10	1.03	11	0.06	16.90	283	3.3
ZZ109051		0.064	0.10	1.89	69	0.60	13.50	76	2.1
ZZ109052		0.076	0.07	6.30	72	0.31	6.75	46	1.4
ZZ109053		0.037	0.07	3.23	52	0.13	12.10	42	1.4
ZZ109054		0.063	0.07	1.42	53	0.20	7.61	69	<0.5
ZZ109055		0.047	0.06	0.49	58	0.31	3.81	37	<0.5
ZZ109056		0.067	0.08	0.52	71	0.33	4.38	40	<0.5
ZZ109057		0.050	0.11	0.50	60	0.35	1.98	29	<0.5
ZZ109058		0.074	0.10	0.48	60	0.40	2.49	31	<0.5
ZZ109059		0.071	0.08	0.51	73	0.96	3.32	48	<0.5
ZZ109060		0.065	0.09	0.45	64	0.47	3.96	35	<0.5
ZZ109061		0.012	0.03	0.17	18	0.07	0.32	9	<0.5
ZZ109062		0.045	0.12	0.49	51	0.37	1.67	25	<0.5
ZZ109063		0.054	0.08	0.48	59	0.72	3.59	38	<0.5
ZZ109064		0.065	0.08	0.62	70	0.67	4.68	41	<0.5
ZZ109065		0.060	0.08	0.53	75	0.45	3.33	49	<0.5
ZZ109066		0.035	0.07	0.40	49	0.49	1.42	26	<0.5
ZZ109067		0.029	0.06	0.42	67	0.23	3.23	40	<0.5
ZZ109068		0.036	0.11	0.95	73	0.79	16.40	54	<0.5
ZZ109069		0.066	0.09	0.58	75	1.27	4.29	48	<0.5
ZZ109070		0.032	0.08	0.60	42	0.59	2.47	25	<0.5
ZZ109071		0.025	0.09	1.37	68	0.38	7.63	48	<0.5
ZZ109072		0.042	0.10	1.03	52	0.65	5.96	57	<0.5
ZZ109073		0.036	0.17	0.95	78	0.49	3.91	43	<0.5
ZZ109074		0.030	0.15	3.08	46	0.29	11.80	49	0.7
ZZ109075		0.053	0.11	0.63	53	0.44	3.38	43	<0.5
ZZ109076		0.055	0.13	0.61	70	0.63	5.15	56	<0.5
ZZ109077		0.055	0.10	0.56	54	0.59	4.95	47	<0.5
ZZ109078		0.063	0.08	0.51	51	0.40	5.08	48	<0.5
ZZ109079		0.050	0.10	1.01	61	0.45	6.59	53	<0.5
ZZ109080		0.058	0.10	0.55	57	1.30	6.23	41	<0.5



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ109081		0.43	0.001	0.20	1.11	17.4	<0.02	<10	100	0.29	0.22	0.42	0.39	34.1	9.8	34
ZZ109082		0.24	0.003	0.44	1.70	27.2	<0.02	<10	220	0.62	0.30	1.01	0.46	36.4	11.1	41
ZZ109083		0.36	0.001	0.27	1.31	14.4	<0.02	<10	130	0.32	0.26	0.60	0.31	26.3	7.9	32
ZZ109084		0.41	0.001	0.14	0.98	13.3	<0.02	<10	80	0.29	0.18	0.40	0.24	36.6	7.9	31
ZZ109085		0.50	0.002	0.21	1.49	20.1	<0.02	<10	100	0.48	0.22	0.56	0.25	35.0	9.8	43
ZZ109086		0.35	0.001	0.26	1.53	12.0	<0.02	<10	150	0.52	0.27	0.87	0.30	35.2	10.5	36
ZZ109087		0.41	<0.001	0.04	1.86	31.7	<0.02	<10	80	0.63	0.37	0.13	0.34	40.0	9.6	33
ZZ109088		0.49	0.002	0.16	1.54	24.1	<0.02	<10	160	0.72	0.31	0.51	0.28	57.6	11.9	39
ZZ109089		0.22	<0.001	0.19	1.47	13.1	<0.02	<10	200	0.50	0.22	1.76	0.28	30.3	9.6	40
ZZ109090		0.20	0.002	0.25	1.47	39.2	<0.02	<10	280	0.59	0.24	1.80	0.51	38.0	10.0	34
ZZ109091		0.39	<0.001	0.10	1.30	6.5	<0.02	<10	130	0.43	0.25	0.62	0.18	47.6	7.6	28
ZZ109092		0.36	<0.001	0.09	1.66	8.0	<0.02	<10	210	0.61	0.30	0.61	0.39	71.2	11.1	33
ZZ109093		0.38	0.002	0.20	1.72	16.9	<0.02	<10	210	0.58	0.26	0.75	0.41	42.5	15.2	52
ZZ109094		0.46	0.001	0.06	1.22	7.5	<0.02	<10	130	0.39	0.20	0.52	0.30	49.0	10.2	36
ZZ109095		0.35	0.004	0.19	1.47	18.6	<0.02	<10	130	0.41	0.29	0.67	0.26	30.3	15.1	67
ZZ109096		0.31	<0.001	0.07	1.86	24.9	<0.02	<10	120	0.89	0.44	0.16	0.12	53.3	12.8	34
ZZ109097		0.43	<0.001	0.10	1.83	18.8	<0.02	<10	170	0.95	0.30	0.44	0.20	43.4	11.1	46
ZZ109098		0.37	0.002	0.11	1.55	15.7	<0.02	<10	170	0.51	0.30	0.57	0.16	32.9	13.8	71
ZZ109099		0.48	0.001	0.20	1.60	29.8	<0.02	<10	140	0.52	0.32	0.63	0.25	36.1	17.4	71
ZZ109100		0.26	<0.001	0.10	1.38	16.5	<0.02	<10	90	0.36	0.30	0.60	0.09	23.2	13.6	70
ZZ109101		0.36	0.002	0.29	1.55	23.6	<0.02	<10	140	0.76	0.25	1.32	0.39	39.0	10.8	41
ZZ109102		0.32	0.005	1.23	1.59	143.0	<0.02	<10	130	0.74	0.50	0.61	0.15	58.7	14.3	38
ZZ109103		0.35	<0.001	0.08	1.31	13.3	<0.02	<10	90	0.35	0.28	0.32	0.15	21.4	11.1	65
ZZ109104		0.54	0.001	0.04	1.42	26.3	<0.02	<10	100	0.39	0.23	0.40	0.16	19.70	15.1	89
ZZ109105		0.30	0.002	0.32	2.44	45.7	<0.02	<10	110	0.68	0.34	0.65	0.08	37.8	18.5	40
ZZ109106		0.39	0.003	0.33	1.54	66.2	<0.02	<10	70	0.51	0.23	0.44	0.08	35.3	8.3	36
ZZ109107		0.32	0.047	2.12	2.48	476	0.03	<10	90	1.13	0.27	1.13	0.33	50.1	14.0	40
ZZ109108		0.31	<0.001	0.14	4.27	7.8	<0.02	<10	210	0.97	0.29	1.43	0.06	62.9	15.7	58
ZZ109109		0.35	0.004	1.13	3.28	446	<0.02	<10	140	1.41	0.35	0.56	0.11	68.9	15.7	52
ZZ109110		0.37	0.001	0.28	1.39	22.2	<0.02	<10	90	0.51	0.26	0.53	0.18	42.1	8.4	26
ZZ109111		0.39	<0.001	0.46	2.02	59.0	<0.02	<10	100	1.54	0.56	0.85	0.19	82.6	18.7	34
ZZ109112		0.35	<0.001	0.05	4.07	3.6	<0.02	<10	180	1.06	0.44	1.11	0.11	46.0	17.8	62
ZZ109113		0.38	<0.001	0.08	1.51	8.1	<0.02	<10	90	0.49	0.30	0.66	0.14	32.1	9.6	36
ZZ109114		0.37	0.001	0.17	2.13	15.8	<0.02	<10	130	0.81	0.32	0.85	0.13	44.7	12.1	42
ZZ109115		0.39	<0.001	0.10	1.69	8.6	<0.02	<10	140	0.63	0.30	0.88	0.11	38.9	10.9	34
ZZ109116		0.34	0.007	0.07	1.67	27.3	<0.02	<10	110	0.34	0.17	0.34	0.09	14.45	16.7	54
ZZ109117		0.42	0.009	0.17	1.32	45.0	<0.02	<10	160	0.34	0.07	0.63	0.14	20.1	20.5	53
ZZ109118		0.39	0.005	0.05	1.87	44.3	<0.02	<10	80	0.33	0.13	0.32	0.11	11.80	17.6	53
ZZ109119		0.34	0.004	0.04	1.77	38.2	<0.02	<10	90	0.38	0.16	0.31	0.08	12.85	17.0	52
ZZ109120		0.48	0.004	0.05	1.79	29.7	<0.02	<10	100	0.37	0.28	0.30	0.09	13.35	15.6	56



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	Analyte	Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
Units		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
LOR		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ109081		1.98	27.1	2.20	2.95	<0.05	<0.02	0.01	0.017	0.08	17.8	10.3	0.60	406	1.31	<0.01
ZZ109082		3.64	47.1	2.88	4.08	0.06	0.09	0.04	0.026	0.13	24.8	13.7	0.65	559	1.49	0.01
ZZ109083		2.96	22.3	2.00	3.78	<0.05	0.03	0.03	0.021	0.10	13.4	11.8	0.57	333	1.09	0.01
ZZ109084		1.92	18.7	1.79	2.92	0.05	0.02	0.01	0.014	0.07	18.3	10.7	0.57	280	0.87	<0.01
ZZ109085		4.18	28.1	2.31	4.13	0.05	0.04	0.02	0.018	0.15	18.7	14.7	0.85	381	0.89	0.02
ZZ109086		3.74	26.2	2.13	4.33	<0.05	0.02	0.04	0.023	0.08	16.7	16.9	0.66	517	1.00	<0.01
ZZ109087		4.91	21.5	3.43	6.99	0.05	0.02	0.01	0.027	0.13	18.1	23.1	0.83	346	1.90	<0.01
ZZ109088		8.41	30.5	2.60	5.04	0.07	0.11	0.02	0.025	0.31	29.0	28.7	0.80	563	0.85	0.01
ZZ109089		4.80	27.5	2.10	4.09	<0.05	0.05	0.03	0.022	0.17	15.4	16.5	0.69	501	0.71	0.01
ZZ109090		10.90	27.1	2.00	4.08	0.06	0.06	0.05	0.021	0.14	23.6	19.3	0.65	772	0.58	0.01
ZZ109091		4.13	17.5	2.02	4.56	0.07	0.02	0.01	0.019	0.25	25.2	25.2	0.64	355	0.44	0.01
ZZ109092		4.99	29.2	2.62	6.75	0.09	0.12	0.02	0.026	0.47	36.5	38.3	0.85	562	1.23	0.02
ZZ109093		3.85	44.5	3.10	5.17	0.07	0.08	0.03	0.030	0.27	21.9	17.3	0.99	601	1.25	0.01
ZZ109094		2.99	22.8	2.07	4.10	0.06	0.02	0.01	0.017	0.20	25.6	18.4	0.68	384	0.66	0.01
ZZ109095		3.31	37.8	2.62	3.92	0.06	0.05	0.02	0.026	0.10	14.2	12.2	1.02	486	0.84	0.01
ZZ109096		7.93	26.2	3.97	6.84	0.06	0.02	0.02	0.032	0.11	25.4	19.9	0.71	453	1.52	<0.01
ZZ109097		5.60	29.2	3.14	6.08	0.06	0.02	0.02	0.029	0.15	22.8	23.3	0.89	331	1.13	0.01
ZZ109098		3.61	45.3	2.53	4.19	0.06	0.03	0.02	0.024	0.09	17.8	13.0	0.97	417	0.88	0.01
ZZ109099		4.20	44.9	2.78	4.37	0.06	0.04	0.02	0.025	0.14	16.9	14.7	1.07	499	1.05	0.01
ZZ109100		2.64	24.7	2.07	3.43	<0.05	0.04	0.02	0.020	0.07	11.4	11.7	0.94	375	0.68	0.01
ZZ109101		4.81	42.1	2.33	4.38	0.08	0.05	0.03	0.022	0.21	21.2	15.5	0.91	345	1.11	0.02
ZZ109102		5.53	26.9	3.83	5.81	0.07	0.03	0.02	0.035	0.15	27.0	22.8	0.82	622	1.90	<0.01
ZZ109103		1.55	17.7	1.98	3.50	<0.05	0.02	<0.01	0.017	0.09	10.5	12.0	0.82	182	1.17	<0.01
ZZ109104		3.22	41.7	2.36	3.14	<0.05	0.02	0.01	0.020	0.05	9.7	10.8	1.01	365	0.83	<0.01
ZZ109105		8.08	21.0	2.90	9.39	0.06	<0.02	0.02	0.028	0.05	23.4	31.1	1.16	632	1.01	0.01
ZZ109106		3.35	22.5	2.08	4.51	0.06	0.02	0.01	0.020	0.05	22.9	16.0	0.63	272	1.26	<0.01
ZZ109107		12.75	48.2	3.22	7.96	0.09	0.04	0.03	0.029	0.21	26.0	44.7	1.63	950	0.69	0.02
ZZ109108		7.85	32.7	4.05	13.75	0.13	0.03	0.02	0.045	0.45	36.1	29.8	2.60	601	0.36	0.10
ZZ109109		19.65	22.4	4.36	10.85	0.08	0.03	0.02	0.046	0.22	33.5	64.9	2.12	396	0.52	0.01
ZZ109110		13.70	10.1	4.16	5.95	0.05	0.02	0.01	0.027	0.06	19.8	26.0	0.30	1100	2.84	<0.01
ZZ109111		22.0	34.4	4.42	7.21	0.10	0.05	0.02	0.044	0.22	43.2	56.2	1.23	697	0.86	<0.01
ZZ109112		10.65	19.2	4.61	14.40	0.09	0.03	0.01	0.047	0.35	20.8	52.8	2.90	560	0.34	0.03
ZZ109113		8.76	14.6	2.15	5.32	0.05	<0.02	0.01	0.021	0.09	17.1	17.5	0.77	352	0.68	0.01
ZZ109114		12.70	19.6	3.19	7.93	0.06	0.02	0.01	0.030	0.18	21.7	49.5	1.31	390	0.82	0.01
ZZ109115		6.96	17.5	2.54	5.46	0.05	0.02	0.01	0.023	0.07	19.7	20.7	0.78	448	0.91	0.01
ZZ109116		7.14	47.8	3.92	5.50	<0.05	<0.02	0.03	0.021	0.07	6.3	13.8	0.86	496	0.55	0.03
ZZ109117		6.16	72.5	4.25	4.53	0.05	0.03	0.01	0.019	0.07	8.9	12.2	0.96	732	0.32	0.03
ZZ109118		8.33	51.8	4.66	7.96	<0.05	<0.02	0.04	0.027	0.09	5.5	24.1	1.03	566	0.66	0.03
ZZ109119		6.29	40.7	3.98	5.71	<0.05	<0.02	0.30	0.022	0.07	5.9	24.6	0.95	531	0.56	0.02
ZZ109120		8.04	44.6	3.39	5.69	<0.05	<0.02	0.03	0.023	0.07	6.4	18.4	0.89	512	0.62	0.02



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
ZZ109081		0.39	29.5	670	13.5	9.8	<0.001	0.01	1.98	2.1	0.7	0.2	15.8	<0.01	0.04	2.9
ZZ109082		0.74	40.2	770	16.4	15.3	<0.001	0.05	2.73	3.5	1.3	0.4	34.8	<0.01	0.05	3.6
ZZ109083		0.68	26.0	690	13.1	12.8	<0.001	0.03	2.45	2.3	0.5	0.4	18.9	<0.01	0.04	2.7
ZZ109084		0.72	22.6	660	10.6	8.9	<0.001	0.01	4.16	2.3	0.4	0.3	15.5	<0.01	0.02	5.3
ZZ109085		0.84	31.0	690	13.0	16.9	<0.001	0.02	3.41	3.3	0.6	0.4	23.6	<0.01	0.03	5.1
ZZ109086		0.95	25.1	880	13.6	14.1	<0.001	0.04	1.53	2.6	0.7	0.5	28.4	<0.01	0.03	2.3
ZZ109087		1.44	30.9	510	17.3	21.7	<0.001	0.01	4.18	3.3	0.3	0.8	8.9	<0.01	0.04	5.1
ZZ109088		0.99	34.6	810	15.9	34.5	<0.001	0.01	2.52	5.1	0.7	0.9	20.8	<0.01	0.03	12.2
ZZ109089		1.27	30.5	650	10.9	23.6	<0.001	0.05	2.01	3.2	0.5	0.5	43.4	<0.01	0.02	3.1
ZZ109090		1.32	26.1	860	12.8	22.5	<0.001	0.10	1.53	3.2	1.7	0.5	80.1	<0.01	0.03	3.1
ZZ109091		2.10	20.2	820	8.5	39.7	<0.001	0.01	0.63	4.1	0.4	0.9	20.9	<0.01	0.02	8.7
ZZ109092		2.53	30.5	1040	10.6	51.8	<0.001	0.01	0.65	6.0	0.6	1.1	23.9	<0.01	0.02	16.8
ZZ109093		1.68	52.7	680	12.1	22.9	<0.001	0.01	1.50	6.1	0.7	0.6	25.7	<0.01	0.03	6.5
ZZ109094		1.61	24.8	960	8.8	25.4	<0.001	0.01	0.70	4.1	0.5	0.6	20.3	<0.01	0.02	9.2
ZZ109095		1.07	43.2	800	14.0	9.9	<0.001	0.01	1.40	5.2	0.5	0.4	24.8	<0.01	0.05	4.5
ZZ109096		1.18	30.6	590	18.0	21.8	<0.001	0.01	3.40	4.2	0.5	0.8	12.4	<0.01	0.04	6.4
ZZ109097		1.10	32.1	650	13.8	19.9	<0.001	0.02	1.99	4.8	0.7	0.6	23.1	<0.01	0.03	4.3
ZZ109098		0.94	43.5	790	13.3	10.1	<0.001	0.01	1.28	6.0	0.5	0.4	23.5	<0.01	0.04	4.3
ZZ109099		0.83	44.6	760	14.8	13.3	<0.001	0.01	1.96	6.2	0.6	0.4	22.0	<0.01	0.05	5.1
ZZ109100		0.59	31.7	680	14.6	8.4	<0.001	0.01	0.97	4.1	0.3	0.3	22.1	<0.01	0.04	3.6
ZZ109101		1.09	33.4	730	11.2	24.7	<0.001	0.05	1.38	4.5	0.9	0.5	33.7	<0.01	0.03	3.6
ZZ109102		1.01	25.8	590	72.1	23.1	<0.001	0.06	2.99	4.7	0.8	0.8	29.2	<0.01	0.07	7.2
ZZ109103		0.69	31.5	150	13.2	14.6	<0.001	<0.01	0.93	2.8	0.4	0.4	16.1	<0.01	0.05	3.2
ZZ109104		0.42	41.5	530	10.7	7.1	<0.001	<0.01	1.69	4.1	0.4	0.2	17.7	<0.01	0.04	2.8
ZZ109105		1.57	24.1	370	18.6	15.5	<0.001	0.02	0.63	4.9	0.7	0.9	23.3	<0.01	0.03	3.0
ZZ109106		1.39	25.4	260	9.3	8.3	<0.001	0.02	1.30	2.9	0.5	0.5	20.6	<0.01	0.03	3.7
ZZ109107		1.54	43.3	640	22.1	19.0	<0.001	0.03	4.31	6.3	1.4	0.8	39.7	<0.01	0.03	4.6
ZZ109108		2.38	39.4	630	14.9	50.5	<0.001	0.02	0.26	9.3	1.2	1.5	45.4	<0.01	0.03	7.0
ZZ109109		1.44	38.1	330	22.7	41.2	<0.001	0.01	5.15	7.7	0.8	1.2	18.1	<0.01	0.04	8.4
ZZ109110		1.25	28.9	270	15.0	19.2	<0.001	0.01	17.30	2.5	0.4	0.7	19.5	<0.01	0.05	4.6
ZZ109111		1.08	43.4	540	37.1	38.6	<0.001	0.02	9.31	8.0	1.4	0.7	23.5	<0.01	0.07	6.3
ZZ109112		2.48	39.1	450	22.1	32.3	<0.001	0.02	0.27	9.3	0.6	1.6	30.5	<0.01	0.04	6.2
ZZ109113		1.25	21.5	290	11.6	17.6	<0.001	0.02	0.62	3.1	0.5	0.6	21.4	<0.01	0.03	3.0
ZZ109114		1.49	26.2	450	16.6	18.8	<0.001	0.02	0.85	4.8	0.5	0.8	27.9	<0.01	0.03	4.1
ZZ109115		1.39	23.3	370	13.6	15.6	<0.001	0.02	1.58	3.4	0.6	0.6	25.5	<0.01	0.03	3.5
ZZ109116		0.51	32.6	590	7.1	7.6	<0.001	0.04	1.04	4.8	0.4	0.3	16.0	<0.01	0.03	0.5
ZZ109117		0.38	34.2	960	6.7	5.8	<0.001	0.01	1.35	8.7	0.4	0.3	23.4	<0.01	0.03	2.0
ZZ109118		0.59	30.2	450	7.2	9.5	<0.001	0.04	1.08	5.3	0.5	0.4	18.8	<0.01	0.04	0.4
ZZ109119		0.55	30.5	440	6.3	7.0	<0.001	0.03	0.92	4.8	0.4	0.3	16.4	<0.01	0.04	0.5
ZZ109120		0.65	33.4	480	6.0	8.2	<0.001	0.03	0.84	4.7	0.5	0.4	15.6	<0.01	0.03	0.6



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ109081		0.023	0.08	0.66	28	0.25	6.39	90	<0.5
ZZ109082		0.022	0.14	2.16	35	0.35	20.4	105	2.6
ZZ109083		0.028	0.10	0.87	31	0.24	5.64	77	0.9
ZZ109084		0.041	0.08	0.78	29	0.20	6.60	56	0.9
ZZ109085		0.049	0.12	1.03	35	0.26	9.68	73	1.3
ZZ109086		0.039	0.14	4.51	38	0.26	9.24	59	0.5
ZZ109087		0.068	0.15	0.86	51	0.26	4.91	72	1.0
ZZ109088		0.069	0.27	1.03	40	0.29	13.70	78	5.8
ZZ109089		0.041	0.17	3.36	33	0.28	6.89	71	1.8
ZZ109090		0.036	0.17	4.78	31	0.24	15.50	61	1.9
ZZ109091		0.085	0.26	0.93	41	0.22	7.82	67	0.9
ZZ109092		0.122	0.40	1.36	55	0.29	11.80	83	5.7
ZZ109093		0.097	0.18	0.77	53	0.35	12.95	80	4.0
ZZ109094		0.083	0.20	0.74	43	0.24	7.99	64	1.1
ZZ109095		0.078	0.10	0.63	48	1.73	6.94	78	2.3
ZZ109096		0.047	0.14	1.00	53	0.23	5.52	72	1.1
ZZ109097		0.053	0.12	0.90	50	0.35	11.50	80	0.7
ZZ109098		0.068	0.10	0.74	49	0.82	11.25	62	1.3
ZZ109099		0.077	0.13	0.61	49	0.77	8.59	71	1.7
ZZ109100		0.050	0.07	0.46	42	0.94	4.92	50	1.3
ZZ109101		0.056	0.16	2.50	36	0.21	15.40	77	2.1
ZZ109102		0.047	0.21	1.12	38	0.31	7.13	75	1.0
ZZ109103		0.069	0.07	0.40	43	0.67	3.22	41	1.0
ZZ109104		0.059	0.07	0.40	47	1.36	4.65	46	0.8
ZZ109105		0.103	0.25	1.41	55	0.27	11.90	60	<0.5
ZZ109106		0.058	0.12	1.15	41	0.35	5.55	47	0.8
ZZ109107		0.110	0.20	3.08	43	0.30	33.8	74	1.3
ZZ109108		0.186	0.34	2.98	66	0.18	24.1	84	1.4
ZZ109109		0.132	0.24	1.18	54	0.17	13.35	102	1.4
ZZ109110		0.028	0.17	0.60	45	0.32	4.43	80	1.1
ZZ109111		0.051	0.19	1.50	39	0.22	29.4	91	2.3
ZZ109112		0.186	0.21	1.10	71	0.14	10.05	89	1.5
ZZ109113		0.072	0.10	0.90	40	0.24	8.85	56	0.6
ZZ109114		0.094	0.12	1.15	47	0.20	7.86	78	0.9
ZZ109115		0.069	0.12	0.97	41	0.29	11.65	50	0.9
ZZ109116		0.071	0.11	0.40	138	0.38	4.35	45	<0.5
ZZ109117		0.089	0.09	0.38	164	0.23	7.92	49	0.8
ZZ109118		0.090	0.10	0.46	158	0.37	3.96	64	<0.5
ZZ109119		0.073	0.09	0.41	130	0.90	4.30	48	<0.5
ZZ109120		0.079	0.10	0.49	105	2.37	4.40	46	<0.5



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		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ109121		0.41	0.005	0.19	2.61	19.9	<0.02	<10	370	0.44	0.05	0.71	0.33	6.97	69.2	31
ZZ109122		0.33	0.044	0.53	1.77	216	0.04	<10	140	0.45	0.16	0.33	0.21	16.10	25.5	56
ZZ109123		0.34	0.006	0.03	1.82	36.3	<0.02	<10	80	0.34	0.11	0.36	0.09	12.45	21.0	62
ZZ109124		0.40	0.028	0.81	2.00	97.2	0.02	<10	160	0.45	0.10	0.35	0.15	13.80	28.3	59
ZZ109125		0.42	0.006	0.09	1.78	45.7	<0.02	<10	120	0.32	0.11	0.41	0.07	14.50	22.9	58
ZZ109126		0.36	0.005	0.06	1.63	35.3	<0.02	<10	120	0.27	0.15	0.50	0.06	12.00	15.6	67
ZZ109127		0.48	0.009	0.04	1.79	18.0	<0.02	<10	140	0.37	0.21	0.41	0.09	16.45	20.3	69
ZZ109128		0.25	0.008	0.04	1.68	35.9	<0.02	<10	100	0.34	0.15	0.26	0.08	16.25	15.8	101
ZZ109129		0.43	0.004	0.05	1.58	13.7	<0.02	<10	90	0.35	0.16	0.28	0.08	16.10	13.3	55
ZZ109130		0.41	0.009	0.03	1.44	23.0	<0.02	<10	70	0.36	0.26	0.26	0.08	14.45	11.4	52
ZZ109131		0.34	0.001	0.06	1.71	17.2	<0.02	<10	80	0.30	0.21	0.27	0.17	13.45	13.7	54
ZZ109132		0.35	0.001	0.06	1.55	10.2	<0.02	<10	80	0.27	0.21	0.21	0.16	12.10	13.1	49
ZZ109133		0.29	0.001	0.07	0.47	6.2	<0.02	<10	60	0.08	0.25	0.09	0.15	9.98	4.3	31
ZZ109134		0.27	0.005	0.09	1.70	18.1	<0.02	<10	90	0.38	0.20	0.20	0.18	14.30	11.0	44
ZZ109135		0.46	0.004	0.03	1.11	10.2	<0.02	<10	50	0.15	0.17	0.10	0.09	8.95	6.4	29
ZZ109136		0.33	0.004	0.09	1.34	6.9	<0.02	<10	90	0.23	0.21	0.17	0.11	11.55	9.6	39
ZZ109137		0.31	<0.001	0.17	0.67	1.3	<0.02	<10	20	0.31	0.12	3.91	0.63	3.73	7.5	7
ZZ109138		0.42	0.005	0.14	1.59	10.5	<0.02	<10	150	0.39	0.17	1.09	0.24	17.75	12.5	44
ZZ109139		0.36	0.002	0.09	2.16	10.0	<0.02	<10	130	0.48	0.21	0.37	0.30	21.3	16.2	56
ZZ109140		0.40	0.007	3.10	1.50	15.4	<0.02	<10	110	0.40	0.15	0.87	0.87	18.25	13.1	68
ZZ109141		0.42	0.002	0.07	1.07	8.4	<0.02	<10	60	0.10	0.10	0.14	0.12	6.88	9.2	38
ZZ109142		0.37	0.001	0.02	1.37	12.5	<0.02	<10	30	0.10	0.09	0.06	0.04	5.14	11.7	294
ZZ109143		0.43	0.003	0.25	1.83	90.2	<0.02	<10	100	0.46	0.16	0.37	0.24	16.65	13.9	61
ZZ109144		0.52	0.002	0.05	2.03	9.6	<0.02	<10	110	0.38	0.19	0.32	0.19	16.05	15.6	88
ZZ109145		0.50	0.002	0.20	1.79	8.0	<0.02	<10	290	0.36	0.14	1.61	0.21	21.5	9.2	45
ZZ109146		0.50	0.001	0.14	1.80	17.2	<0.02	<10	120	0.42	0.14	0.27	0.29	16.20	11.6	53
ZZ109147		0.31	0.003	1.03	1.54	15.9	<0.02	<10	150	0.54	0.20	0.25	0.46	27.1	10.2	45
ZZ109148		0.38	0.009	4.01	1.91	34.9	<0.02	<10	380	0.48	0.22	0.13	1.77	22.6	12.4	66
ZZ109149		0.48	<0.001	0.11	1.68	8.5	<0.02	<10	280	0.40	0.08	0.74	0.16	13.45	8.6	59
ZZ109150		0.42	0.001	0.07	1.66	8.4	<0.02	<10	380	0.41	0.07	0.90	0.22	14.55	8.7	51
ZZ109151		0.56	0.003	0.66	1.16	75.6	<0.02	<10	70	0.29	0.58	0.13	0.50	30.4	11.2	27
ZZ109152		0.46	0.001	0.30	1.58	42.1	<0.02	<10	90	0.45	0.44	0.13	0.28	51.7	12.4	26
ZZ109153		0.44	0.004	0.34	1.74	52.2	<0.02	<10	50	0.37	0.50	0.05	0.38	45.1	14.2	26
ZZ109154		0.46	0.002	0.23	1.46	32.0	<0.02	<10	90	0.38	0.43	0.09	0.28	36.7	8.7	29
ZZ109155		0.43	0.004	0.57	1.16	27.3	<0.02	<10	70	0.38	0.33	0.19	0.42	43.9	12.8	17
ZZ109156		0.43	0.004	1.45	1.48	41.9	<0.02	<10	140	0.51	0.42	0.09	0.52	37.9	11.9	31
ZZ109157		0.49	0.002	0.21	1.24	20.5	<0.02	<10	100	0.39	0.51	0.17	0.27	25.7	9.3	27
ZZ109158		0.47	<0.001	0.48	1.71	13.3	<0.02	<10	80	0.55	0.71	0.26	0.37	53.6	13.8	25
ZZ109159		0.52	0.002	0.19	1.62	29.4	<0.02	<10	80	0.44	0.33	0.09	0.36	48.1	11.9	27
ZZ109160		0.40	0.001	0.43	1.06	25.0	<0.02	<10	100	0.43	0.25	0.32	0.42	46.7	15.5	15



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
ZZ109121		27.1	91.1	9.55	17.45	0.12	0.05	0.02	0.031	0.64	4.1	20.8	2.60	2580	0.33	0.01
ZZ109122		15.60	68.1	5.60	7.32	<0.05	<0.02	0.04	0.034	0.08	6.8	18.1	0.94	1000	0.86	0.02
ZZ109123		10.00	81.9	4.55	6.43	<0.05	<0.02	0.02	0.026	0.07	5.4	24.9	1.18	562	0.39	0.03
ZZ109124		22.0	99.2	5.20	7.44	<0.05	<0.02	0.03	0.039	0.10	5.9	26.3	1.16	1030	0.45	0.03
ZZ109125		10.05	114.5	4.34	6.79	<0.05	<0.02	0.02	0.026	0.07	6.5	17.8	1.08	854	0.43	0.03
ZZ109126		10.10	28.4	3.30	6.39	<0.05	<0.02	0.02	0.024	0.05	5.8	27.0	1.01	432	0.43	0.02
ZZ109127		8.50	61.8	3.58	5.62	<0.05	0.02	0.02	0.023	0.08	6.6	19.2	1.05	506	0.56	0.02
ZZ109128		9.65	47.1	3.28	5.63	<0.05	<0.02	0.04	0.022	0.06	7.5	26.8	1.18	487	0.51	0.01
ZZ109129		6.00	45.9	3.03	4.99	<0.05	<0.02	0.02	0.018	0.05	7.0	14.6	0.80	356	0.48	0.01
ZZ109130		5.88	29.0	2.63	4.92	<0.05	<0.02	0.02	0.018	0.05	6.9	14.4	0.66	324	0.53	0.01
ZZ109131		4.50	47.8	3.17	5.12	<0.05	<0.02	0.03	0.023	0.05	6.1	15.6	0.78	319	0.79	0.02
ZZ109132		6.15	37.4	3.11	4.99	<0.05	<0.02	0.05	0.020	0.05	4.5	15.1	0.69	364	0.81	0.01
ZZ109133		6.39	19.0	1.66	4.57	<0.05	<0.02	0.03	0.012	0.03	5.1	0.9	0.07	142	1.05	<0.01
ZZ109134		15.15	34.2	2.97	6.24	<0.05	<0.02	0.03	0.020	0.06	6.5	12.8	0.63	390	0.60	0.01
ZZ109135		3.02	28.7	2.22	6.85	<0.05	<0.02	0.02	0.013	0.03	4.6	4.6	0.29	140	0.67	<0.01
ZZ109136		3.50	39.9	2.56	6.17	<0.05	<0.02	0.04	0.019	0.05	5.6	7.2	0.45	207	0.79	0.01
ZZ109137		1.29	17.4	2.71	1.18	<0.05	0.02	0.02	0.006	0.03	2.8	6.5	0.19	169	3.01	0.04
ZZ109138		3.94	37.2	2.50	4.14	<0.05	0.02	0.03	0.020	0.06	8.4	11.6	0.90	586	0.52	0.01
ZZ109139		5.54	42.9	2.96	5.05	<0.05	0.03	0.02	0.024	0.07	7.2	15.1	1.02	585	0.59	0.01
ZZ109140		4.73	33.4	2.42	3.93	<0.05	0.02	0.04	0.020	0.06	7.0	13.8	1.14	695	0.69	0.01
ZZ109141		3.27	22.1	2.06	6.40	<0.05	<0.02	0.02	0.012	0.03	3.4	8.0	0.69	158	0.69	0.01
ZZ109142		3.78	8.0	1.92	6.47	<0.05	<0.02	0.02	0.009	0.02	2.5	13.1	1.46	190	0.70	<0.01
ZZ109143		13.40	26.0	2.81	5.37	<0.05	<0.02	0.02	0.027	0.04	7.4	19.3	0.87	766	0.76	<0.01
ZZ109144		3.80	34.1	2.58	4.64	<0.05	<0.02	0.01	0.020	0.06	6.6	15.9	1.20	422	0.55	0.01
ZZ109145		4.58	31.1	2.85	4.51	<0.05	0.02	0.02	0.020	0.12	12.8	19.2	2.26	546	0.45	0.01
ZZ109146		4.47	34.3	2.73	5.03	<0.05	<0.02	0.02	0.018	0.05	7.9	20.0	1.18	473	0.68	<0.01
ZZ109147		7.97	39.4	2.48	5.15	<0.05	<0.02	0.04	0.024	0.06	13.3	18.7	0.83	428	7.01	<0.01
ZZ109148		4.63	102.0	3.71	4.54	0.06	<0.02	0.05	0.037	0.07	13.0	15.6	1.09	331	23.0	<0.01
ZZ109149		2.65	23.8	1.99	5.01	<0.05	0.02	0.02	0.029	0.03	11.6	13.7	2.12	739	1.19	<0.01
ZZ109150		2.90	26.2	2.10	4.78	<0.05	0.02	0.01	0.028	0.05	10.3	12.7	1.93	357	0.46	<0.01
ZZ109151		2.79	33.0	2.95	4.18	<0.05	0.03	0.02	0.050	0.08	14.1	9.8	0.59	593	1.53	<0.01
ZZ109152		2.55	44.3	3.13	3.89	0.06	0.02	0.01	0.030	0.06	26.0	11.9	0.84	414	0.81	<0.01
ZZ109153		2.83	48.9	3.77	4.20	0.05	0.06	0.02	0.041	0.07	21.3	13.0	1.02	502	1.26	<0.01
ZZ109154		2.85	25.3	3.11	4.58	<0.05	0.02	0.02	0.033	0.07	17.1	15.6	0.72	305	1.33	<0.01
ZZ109155		3.11	22.1	3.69	2.66	0.05	0.02	0.02	0.031	0.05	19.5	9.7	0.56	773	0.83	<0.01
ZZ109156		3.44	38.5	3.30	4.80	<0.05	0.02	0.03	0.030	0.06	19.3	13.7	0.67	888	1.37	<0.01
ZZ109157		2.58	23.2	2.45	4.39	<0.05	<0.02	0.02	0.036	0.06	11.9	12.6	0.47	573	2.00	<0.01
ZZ109158		4.73	47.5	3.54	4.51	0.06	0.02	0.03	0.031	0.07	24.6	14.9	0.98	642	1.08	<0.01
ZZ109159		3.25	40.3	3.14	4.16	0.05	0.04	0.02	0.023	0.06	24.5	14.9	0.83	278	1.28	<0.01
ZZ109160		6.25	31.0	3.80	2.85	0.05	0.05	0.04	0.021	0.06	20.8	4.8	0.21	602	1.22	<0.01



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		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
ZZ109121		0.11	92.9	220	9.8	56.1	<0.001	0.03	0.56	24.6	1.3	0.3	21.1	<0.01	0.03	0.6
ZZ109122		0.49	35.6	860	14.2	8.7	<0.001	0.06	3.77	7.3	0.7	0.4	18.1	<0.01	0.09	0.3
ZZ109123		0.42	38.5	400	9.1	6.9	<0.001	0.02	1.35	6.9	0.5	0.3	16.1	<0.01	0.03	0.5
ZZ109124		0.33	44.6	730	7.5	11.3	<0.001	0.06	3.54	7.3	0.5	0.4	18.2	<0.01	0.11	0.2
ZZ109125		0.45	37.3	890	6.4	8.7	<0.001	0.04	1.35	6.8	0.4	0.4	16.6	<0.01	0.03	0.4
ZZ109126		0.59	36.9	770	5.4	5.7	<0.001	0.05	0.74	5.3	0.4	0.4	22.2	<0.01	0.03	0.6
ZZ109127		0.77	44.0	660	5.4	8.4	<0.001	0.04	0.95	6.4	0.4	0.4	18.6	<0.01	0.03	0.8
ZZ109128		0.51	57.9	450	5.1	7.6	<0.001	0.04	0.78	3.4	0.3	0.3	13.8	<0.01	0.03	0.4
ZZ109129		0.59	31.7	590	4.7	6.9	<0.001	0.03	0.69	3.2	0.4	0.4	14.3	<0.01	0.02	0.4
ZZ109130		0.73	28.1	520	6.5	6.1	<0.001	0.03	0.74	2.7	0.3	0.4	12.9	<0.01	0.03	0.5
ZZ109131		0.67	32.3	540	5.5	5.5	<0.001	0.04	0.58	3.5	0.4	0.3	12.8	<0.01	0.03	0.4
ZZ109132		0.69	25.2	650	5.1	7.2	<0.001	0.07	0.54	2.4	0.4	0.3	10.0	<0.01	0.03	0.2
ZZ109133		0.79	8.7	490	8.2	4.1	<0.001	0.05	0.62	1.1	0.3	0.9	7.3	<0.01	0.04	<0.2
ZZ109134		0.55	23.8	530	6.5	7.4	<0.001	0.05	0.80	1.9	0.4	0.4	10.8	<0.01	0.03	<0.2
ZZ109135		0.88	11.8	350	7.0	4.1	<0.001	0.04	0.48	1.3	0.5	0.6	7.8	<0.01	0.04	0.2
ZZ109136		0.62	18.4	640	6.2	5.3	<0.001	0.06	0.59	1.5	0.5	0.5	10.2	<0.01	0.04	<0.2
ZZ109137		0.16	34.0	310	8.3	2.7	<0.001	0.10	0.08	0.7	1.2	<0.2	56.8	<0.01	0.08	0.8
ZZ109138		0.66	30.3	810	7.9	7.8	<0.001	0.07	0.59	3.0	0.6	0.3	19.9	<0.01	0.04	0.6
ZZ109139		0.89	39.0	590	9.6	7.7	<0.001	0.03	0.57	4.6	0.5	0.3	14.0	<0.01	0.03	1.2
ZZ109140		0.62	58.9	550	124.0	8.7	<0.001	0.03	0.79	3.4	0.4	0.3	15.3	<0.01	0.72	0.9
ZZ109141		0.64	13.4	430	12.7	2.5	<0.001	0.04	0.35	1.9	0.3	0.5	5.3	<0.01	0.03	<0.2
ZZ109142		0.50	151.0	210	3.7	3.5	<0.001	0.02	0.30	1.0	0.2	0.3	3.6	<0.01	0.02	0.2
ZZ109143		0.46	26.4	930	40.1	6.1	<0.001	0.08	0.70	2.3	0.7	0.4	13.4	<0.01	0.07	0.2
ZZ109144		0.85	45.6	510	8.0	7.1	<0.001	0.02	0.43	3.7	0.5	0.4	12.1	<0.01	0.03	1.0
ZZ109145		0.44	19.5	530	9.4	8.0	<0.001	0.19	0.33	4.5	0.8	0.3	27.0	<0.01	0.03	1.3
ZZ109146		0.49	22.7	750	70.6	6.3	<0.001	0.05	0.55	2.4	0.5	0.3	12.4	<0.01	0.08	0.4
ZZ109147		0.48	28.3	750	24.5	8.6	<0.001	0.04	0.75	1.8	2.1	0.4	13.8	<0.01	0.07	0.6
ZZ109148		0.38	82.5	970	17.9	8.7	<0.001	0.08	2.48	1.5	12.6	0.3	27.2	<0.01	0.22	0.3
ZZ109149		0.31	22.8	460	6.7	4.0	<0.001	0.04	0.35	7.7	0.8	0.2	8.8	<0.01	0.02	1.0
ZZ109150		0.45	19.3	800	5.5	4.7	<0.001	0.02	0.23	6.7	0.4	0.3	12.4	<0.01	0.02	0.8
ZZ109151		0.50	27.8	640	95.7	14.6	<0.001	0.04	4.16	1.4	0.5	0.6	14.6	<0.01	0.08	2.2
ZZ109152		0.25	36.5	560	46.1	9.3	<0.001	0.01	2.43	1.8	0.8	0.3	11.1	<0.01	0.06	4.8
ZZ109153		0.27	42.0	510	64.7	10.3	<0.001	0.02	2.91	1.2	0.6	0.3	6.3	<0.01	0.09	4.1
ZZ109154		0.62	27.0	510	52.4	11.6	<0.001	0.02	2.25	1.6	0.5	0.4	7.8	<0.01	0.06	3.0
ZZ109155		0.23	24.8	730	37.4	6.7	<0.001	0.02	1.46	1.5	0.5	0.2	6.9	<0.01	0.05	4.6
ZZ109156		0.63	32.5	390	96.0	11.0	<0.001	0.02	2.95	1.9	0.7	0.6	8.0	<0.01	0.10	3.6
ZZ109157		0.63	23.3	480	29.5	10.5	<0.001	0.03	1.73	1.4	0.5	0.5	12.5	<0.01	0.09	1.1
ZZ109158		0.30	34.3	760	57.9	13.7	<0.001	0.03	0.72	1.9	0.8	0.3	11.2	<0.01	0.08	2.6
ZZ109159		0.51	38.9	500	29.2	8.1	<0.001	0.01	2.10	1.8	0.7	0.3	7.1	<0.01	0.06	5.8
ZZ109160		0.42	48.8	660	26.6	9.1	<0.001	0.02	2.97	2.3	0.7	0.4	10.1	<0.01	0.03	4.5



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		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ109121		0.201	0.75	0.55	434	0.44	18.35	130	1.3
ZZ109122		0.070	0.39	0.40	172	0.42	6.51	55	<0.5
ZZ109123		0.078	0.13	0.33	167	0.41	4.27	52	<0.5
ZZ109124		0.061	0.47	0.38	179	0.29	5.85	60	<0.5
ZZ109125		0.080	0.14	0.35	159	0.37	5.02	48	<0.5
ZZ109126		0.053	0.10	0.34	113	0.33	4.17	40	<0.5
ZZ109127		0.080	0.13	0.36	113	1.60	4.35	46	0.5
ZZ109128		0.076	0.09	0.43	94	0.35	3.63	42	<0.5
ZZ109129		0.074	0.10	0.42	95	1.34	4.10	39	<0.5
ZZ109130		0.082	0.09	0.39	82	0.77	3.54	39	<0.5
ZZ109131		0.076	0.08	0.46	98	0.51	3.71	42	<0.5
ZZ109132		0.081	0.09	0.41	93	0.55	3.15	41	<0.5
ZZ109133		0.078	0.14	0.36	96	0.26	1.27	26	<0.5
ZZ109134		0.055	0.15	0.38	94	0.33	3.50	48	<0.5
ZZ109135		0.083	0.09	0.36	78	0.25	1.90	25	<0.5
ZZ109136		0.070	0.12	0.49	96	1.15	2.77	32	<0.5
ZZ109137		0.016	0.03	0.91	5	0.18	5.43	49	0.8
ZZ109138		0.043	0.11	0.97	66	0.80	9.23	47	0.7
ZZ109139		0.060	0.11	0.50	75	0.55	4.99	52	0.8
ZZ109140		0.050	0.15	0.44	58	0.28	5.84	171	0.6
ZZ109141		0.101	0.10	0.22	89	0.29	2.90	29	<0.5
ZZ109142		0.085	0.08	0.14	60	0.16	1.17	32	<0.5
ZZ109143		0.043	0.17	0.46	77	0.26	6.66	69	<0.5
ZZ109144		0.067	0.10	0.43	62	0.34	5.31	52	<0.5
ZZ109145		0.070	0.14	0.62	51	0.25	11.15	53	0.5
ZZ109146		0.061	0.11	0.46	64	0.21	5.48	83	<0.5
ZZ109147		0.033	0.21	0.79	54	0.48	9.65	81	<0.5
ZZ109148		0.036	0.26	1.08	81	0.45	8.38	350	<0.5
ZZ109149		0.066	0.11	0.41	76	0.10	14.45	45	1.0
ZZ109150		0.071	0.12	0.30	72	0.12	8.98	55	0.6
ZZ109151		0.024	0.09	0.70	32	0.40	3.49	148	1.0
ZZ109152		0.011	0.12	0.92	22	0.21	7.85	112	0.8
ZZ109153		0.010	0.12	0.83	22	0.21	4.98	148	1.9
ZZ109154		0.021	0.11	0.66	34	0.29	3.69	108	0.6
ZZ109155		0.008	0.07	0.61	14	0.13	6.07	95	0.7
ZZ109156		0.025	0.14	0.78	37	0.77	7.80	227	0.5
ZZ109157		0.034	0.10	0.66	39	0.38	3.51	80	<0.5
ZZ109158		0.022	0.14	0.92	25	0.18	11.75	88	0.5
ZZ109159		0.020	0.11	0.98	28	0.18	6.11	112	1.4
ZZ109160		0.011	0.16	0.81	23	0.19	13.40	99	1.5



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
ZZ109161		0.38	0.002	2.29	1.46	74.5	<0.02	<10	70	0.34	0.49	0.12	2.09	30.5	11.0	30
ZZ109162		0.36	0.005	0.23	1.44	48.9	<0.02	<10	110	0.33	0.34	0.10	0.27	32.8	7.3	28
ZZ109163		0.36	0.011	1.89	1.43	454	<0.02	<10	80	0.31	2.41	0.05	2.40	27.1	12.9	196
ZZ109164		0.37	0.006	1.11	4.21	525	<0.02	<10	130	1.70	0.18	0.74	0.64	24.8	59.5	864
ZZ109165		0.29	<0.001	0.40	1.51	48.7	<0.02	<10	60	0.40	0.40	0.07	0.31	27.7	7.8	31
ZZ109166		0.38	0.004	0.17	1.37	15.7	<0.02	<10	130	0.44	0.27	0.11	0.23	35.7	6.7	27
ZZ109167		0.34	0.002	0.09	1.69	16.5	<0.02	<10	120	0.51	0.29	0.10	0.29	35.1	8.5	31
ZZ109168		0.23	0.001	0.32	1.51	27.4	<0.02	<10	70	0.29	0.22	0.08	0.46	26.9	9.9	47
ZZ109169		0.33	<0.001	0.21	1.93	13.9	<0.02	<10	140	0.43	0.19	0.11	0.24	63.9	9.0	41
ZZ109170		0.24	<0.001	0.08	1.52	2.7	<0.02	<10	100	0.40	0.06	0.13	0.17	28.9	5.5	18
ZZ109171		0.50	<0.001	0.37	1.77	14.2	<0.02	<10	90	0.41	0.21	0.14	0.24	29.0	8.8	40
ZZ109172		0.43	<0.001	0.08	1.53	12.7	<0.02	<10	80	0.32	0.18	0.12	0.19	27.9	8.3	45
ZZ109173		0.34	0.002	0.12	1.56	17.9	<0.02	<10	90	0.34	0.24	0.10	0.23	28.4	8.0	41
ZZ109174		0.38	0.001	0.18	2.13	25.9	<0.02	<10	120	0.44	0.31	0.12	0.34	31.3	12.0	61
ZZ109175		0.42	0.001	0.12	2.17	19.4	<0.02	<10	90	0.40	0.19	0.11	0.27	31.4	14.1	76
ZZ109176		0.49	0.004	0.14	1.86	51.0	<0.02	<10	90	0.45	0.22	0.06	0.35	37.0	11.9	44
ZZ109177		0.46	0.001	0.08	1.48	12.2	<0.02	<10	80	0.28	0.36	0.10	0.20	27.9	7.7	39
ZZ109178		0.42	0.001	0.11	0.97	7.8	<0.02	<10	60	0.18	0.38	0.07	0.25	22.2	6.4	23
ZZ109179		0.42	<0.001	0.21	1.37	13.8	<0.02	<10	70	0.38	0.23	0.08	0.41	36.2	9.0	29
ZZ109180		0.46	0.005	0.21	1.76	15.7	<0.02	<10	80	0.45	0.24	0.10	0.54	41.7	13.5	37
ZZ109181		0.30	0.005	0.44	1.78	18.9	<0.02	<10	100	0.48	0.25	0.07	0.91	42.9	13.2	38
ZZ109182		0.41	0.002	0.12	1.51	9.5	<0.02	<10	70	0.26	0.30	0.08	0.44	32.7	7.1	29
ZZ109183		0.35	0.002	0.50	1.69	10.9	<0.02	<10	70	0.47	0.26	0.11	0.65	38.5	9.0	30
ZZ109184		0.36	0.001	0.11	0.99	5.7	<0.02	<10	40	0.13	0.29	0.06	0.15	26.8	5.3	18
ZZ109185		0.38	<0.001	0.34	1.36	13.7	<0.02	<10	60	0.21	0.28	0.07	0.21	39.1	7.3	29
ZZ109186		0.25	<0.001	0.13	0.39	2.8	<0.02	<10	30	0.07	0.15	0.03	0.09	10.40	1.9	9
ZZ109187		0.27	<0.001	0.22	0.88	5.9	<0.02	<10	50	0.13	0.28	0.05	0.15	21.2	4.5	18
ZZ109188		0.36	<0.001	0.23	0.95	5.3	<0.02	<10	100	0.18	0.26	0.47	0.28	19.40	4.2	20
ZZ109189		0.30	0.001	0.14	1.74	10.2	<0.02	<10	70	0.53	0.34	0.11	0.29	43.7	8.0	36
ZZ109190		0.37	<0.001	0.03	1.23	8.1	<0.02	<10	50	0.19	0.28	0.11	0.10	24.8	5.1	29
ZZ109191		0.39	0.007	0.06	1.01	9.5	<0.02	<10	50	0.20	0.25	0.12	0.09	22.4	3.7	25
ZZ109192		0.47	<0.001	0.06	1.01	7.8	<0.02	<10	40	0.13	0.29	0.08	0.07	19.05	3.2	23
ZZ109193		0.46	<0.001	0.04	0.81	3.0	<0.02	<10	60	0.12	0.34	0.12	0.08	21.9	2.0	18
ZZ109194		0.34	<0.001	0.09	1.77	10.4	<0.02	<10	70	0.45	0.23	0.20	0.18	30.4	8.5	45
ZZ109195		0.41	0.003	0.08	0.53	1.9	<0.02	<10	50	0.10	0.20	0.13	0.12	20.2	2.3	16
ZZ109196		0.31	0.011	0.11	1.51	68.2	<0.02	<10	110	0.85	0.33	0.26	0.26	51.6	10.9	31
ZZ109197		0.35	0.001	0.04	1.70	10.9	<0.02	<10	160	0.32	0.27	0.20	0.14	20.6	6.1	36
ZZ109198		0.45	0.002	0.10	1.29	8.9	<0.02	<10	70	0.22	0.31	0.12	0.14	20.3	5.3	30
ZZ109199		0.42	<0.001	0.06	1.66	6.9	<0.02	<10	110	0.32	0.27	0.41	0.08	31.6	7.4	47
ZZ109200		0.36	0.003	0.51	2.28	68.8	<0.02	<10	140	1.15	0.33	1.34	0.24	69.2	15.2	33



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		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
ZZ109161		2.69	35.8	2.98	4.75	<0.05	0.03	0.02	0.033	0.06	16.1	11.1	0.86	518	1.41	<0.01
ZZ109162		3.08	19.4	2.57	4.61	<0.05	0.02	0.02	0.031	0.08	16.1	13.8	0.59	223	1.45	<0.01
ZZ109163		2.11	74.0	6.39	3.54	0.05	0.08	0.02	0.060	0.11	13.6	6.9	1.12	588	4.88	0.04
ZZ109164		19.00	24.1	7.24	14.90	0.22	0.06	0.04	0.067	0.47	14.5	34.8	5.01	3530	0.39	<0.01
ZZ109165		7.27	24.9	3.34	6.15	<0.05	<0.02	0.04	0.028	0.08	13.4	15.2	0.56	278	1.85	<0.01
ZZ109166		1.94	17.8	2.03	4.35	<0.05	0.03	0.02	0.019	0.06	18.6	13.2	0.51	182	1.75	<0.01
ZZ109167		2.87	21.8	2.35	4.25	<0.05	<0.02	0.02	0.025	0.14	17.3	20.0	0.70	283	1.72	<0.01
ZZ109168		2.32	29.4	2.79	4.37	<0.05	<0.02	0.03	0.021	0.08	13.2	9.5	0.84	337	1.43	<0.01
ZZ109169		4.68	20.3	2.90	6.89	0.08	<0.02	0.01	0.022	0.81	32.1	16.2	1.43	662	0.54	<0.01
ZZ109170		8.20	13.8	2.02	4.04	<0.05	<0.02	0.01	0.013	0.41	11.4	13.4	0.77	269	0.37	<0.01
ZZ109171		3.08	19.8	2.28	4.28	<0.05	<0.02	0.03	0.019	0.13	13.7	15.9	0.89	237	1.32	<0.01
ZZ109172		2.30	17.6	2.08	3.77	<0.05	<0.02	0.02	0.016	0.08	13.5	15.4	0.97	222	0.93	<0.01
ZZ109173		3.28	17.6	2.33	4.88	<0.05	<0.02	0.02	0.021	0.06	14.1	13.3	0.67	300	2.78	<0.01
ZZ109174		4.04	28.0	3.58	5.21	<0.05	0.07	0.02	0.026	0.07	15.7	24.6	1.00	318	2.05	<0.01
ZZ109175		2.75	35.0	3.17	4.84	0.05	0.03	0.02	0.019	0.08	15.7	18.6	1.56	325	1.29	<0.01
ZZ109176		3.16	32.8	3.03	3.87	0.05	0.04	0.04	0.021	0.08	18.3	20.4	0.83	254	1.57	<0.01
ZZ109177		3.10	22.1	3.22	6.41	<0.05	0.02	0.02	0.020	0.08	14.1	12.6	0.65	226	2.32	<0.01
ZZ109178		2.56	26.3	2.34	4.66	<0.05	<0.02	0.03	0.017	0.06	11.3	5.9	0.33	157	3.42	<0.01
ZZ109179		1.91	30.7	2.75	3.40	0.05	<0.02	0.03	0.019	0.06	18.7	17.1	0.54	197	2.48	<0.01
ZZ109180		2.57	38.7	3.20	3.51	0.05	0.03	0.02	0.021	0.07	21.2	17.1	0.68	314	2.64	<0.01
ZZ109181		2.44	54.3	3.63	3.57	0.06	0.03	0.03	0.034	0.07	22.5	15.9	0.71	276	6.10	0.01
ZZ109182		2.24	25.2	2.94	4.69	<0.05	<0.02	0.02	0.019	0.05	16.6	11.3	0.45	210	2.80	<0.01
ZZ109183		2.67	30.6	2.96	3.75	0.05	0.02	0.04	0.021	0.05	18.8	16.1	0.51	186	2.11	<0.01
ZZ109184		2.02	17.9	2.17	5.86	<0.05	<0.02	0.01	0.014	0.04	13.6	5.3	0.29	192	2.15	<0.01
ZZ109185		3.12	25.7	3.24	5.36	0.05	<0.02	0.02	0.020	0.05	20.0	9.0	0.49	227	2.14	<0.01
ZZ109186		3.42	6.5	0.90	2.45	<0.05	<0.02	0.02	0.008	0.03	5.4	1.4	0.04	48	0.94	0.01
ZZ109187		5.05	14.2	1.82	4.45	<0.05	<0.02	0.02	0.011	0.04	10.7	4.2	0.26	116	1.79	0.01
ZZ109188		3.18	10.4	1.69	4.79	<0.05	<0.02	0.03	0.015	0.06	10.3	6.0	0.30	264	1.73	0.01
ZZ109189		7.18	21.6	2.61	5.22	0.05	<0.02	0.03	0.022	0.09	20.8	15.7	0.53	292	1.47	<0.01
ZZ109190		2.73	11.0	1.91	6.87	<0.05	<0.02	0.01	0.017	0.06	12.3	8.9	0.40	135	1.40	<0.01
ZZ109191		2.49	8.8	1.54	4.93	<0.05	<0.02	0.02	0.013	0.04	11.6	5.9	0.29	115	1.36	<0.01
ZZ109192		3.71	9.5	1.44	6.32	<0.05	<0.02	0.01	0.012	0.05	9.7	4.5	0.26	102	1.70	<0.01
ZZ109193		6.92	5.1	0.96	4.86	<0.05	<0.02	0.01	0.010	0.04	11.3	3.3	0.18	124	1.28	<0.01
ZZ109194		5.02	18.0	2.77	5.53	<0.05	0.02	0.01	0.022	0.09	15.1	24.4	0.77	252	1.11	<0.01
ZZ109195		2.58	5.6	0.82	3.04	<0.05	<0.02	0.01	0.008	0.05	10.5	2.9	0.18	68	0.84	<0.01
ZZ109196		15.55	24.0	3.34	4.48	0.05	<0.02	0.01	0.027	0.08	22.5	21.8	0.48	588	1.54	<0.01
ZZ109197		15.50	13.4	2.46	8.14	<0.05	<0.02	0.01	0.021	0.07	10.3	23.3	0.56	174	1.46	<0.01
ZZ109198		3.94	10.2	2.12	8.04	<0.05	0.02	0.01	0.018	0.06	10.4	10.2	0.45	158	1.90	<0.01
ZZ109199		2.84	13.1	2.01	5.50	<0.05	0.02	0.01	0.018	0.07	15.9	18.3	0.81	224	0.55	0.01
ZZ109200		10.10	33.8	3.36	7.08	0.10	0.04	0.03	0.030	0.21	40.9	60.8	1.38	850	0.79	0.01



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		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
ZZ109161		0.67	31.5	350	154.5	10.4	<0.001	0.02	2.23	2.1	0.6	0.5	8.2	<0.01	0.06	4.3
ZZ109162		1.03	21.8	260	33.4	13.8	<0.001	0.01	3.50	2.1	0.6	0.5	8.4	<0.01	0.06	4.4
ZZ109163		0.20	71.1	880	164.5	10.2	<0.001	0.39	1.92	8.4	2.7	0.2	89.5	<0.01	0.22	7.9
ZZ109164		0.11	561	1140	17.3	58.1	<0.001	0.01	14.20	27.3	1.1	0.8	26.9	<0.01	0.04	4.3
ZZ109165		1.47	24.0	380	26.8	12.2	<0.001	0.02	2.57	2.5	0.6	0.5	7.9	<0.01	0.06	3.2
ZZ109166		1.06	18.4	390	17.7	8.5	<0.001	0.01	1.39	2.4	0.7	0.5	8.9	<0.01	0.04	5.1
ZZ109167		0.95	26.0	390	18.7	14.8	<0.001	0.02	1.71	2.2	0.7	0.4	9.4	<0.01	0.04	2.7
ZZ109168		0.22	36.2	830	31.7	11.1	<0.001	0.05	3.45	1.0	0.5	0.3	11.6	<0.01	0.05	0.3
ZZ109169		0.58	24.3	490	28.5	50.5	<0.001	0.02	0.81	4.0	0.3	0.5	10.1	<0.01	0.03	4.9
ZZ109170		0.50	8.3	430	6.4	39.0	<0.001	0.01	0.48	1.7	0.3	0.4	11.6	<0.01	0.01	2.0
ZZ109171		1.28	29.2	460	15.9	14.2	<0.001	0.02	1.27	2.4	0.5	0.4	12.0	<0.01	0.03	4.0
ZZ109172		1.08	30.5	250	12.0	9.4	<0.001	0.01	1.19	2.0	0.5	0.4	10.6	<0.01	0.02	3.9
ZZ109173		0.77	26.1	430	15.8	9.0	<0.001	0.03	1.27	1.9	0.6	0.5	9.5	<0.01	0.04	1.0
ZZ109174		1.23	44.1	440	16.6	10.5	<0.001	0.02	1.86	3.7	0.7	0.4	10.9	<0.01	0.07	5.6
ZZ109175		0.59	58.2	410	12.6	9.7	<0.001	0.02	1.62	3.0	0.6	0.3	9.4	<0.01	0.04	4.1
ZZ109176		0.58	41.4	380	16.4	9.7	<0.001	0.02	1.89	2.6	0.9	0.3	8.7	<0.01	0.05	4.5
ZZ109177		1.46	26.8	270	13.7	12.9	<0.001	0.02	1.23	2.7	0.6	0.6	9.8	<0.01	0.04	4.0
ZZ109178		0.45	28.6	570	19.2	7.5	<0.001	0.04	1.22	0.8	0.7	0.6	11.2	<0.01	0.06	0.2
ZZ109179		0.62	36.4	430	15.9	8.3	<0.001	0.03	1.66	1.6	1.0	0.3	10.3	<0.01	0.05	1.5
ZZ109180		0.65	47.2	600	16.4	9.1	<0.001	0.03	2.39	2.3	1.4	0.3	12.1	<0.01	0.06	5.3
ZZ109181		0.53	55.2	450	22.1	8.7	<0.001	0.04	2.32	2.7	2.6	0.3	16.6	<0.01	0.08	5.1
ZZ109182		1.16	30.8	430	14.0	7.5	<0.001	0.02	1.23	2.0	1.0	0.5	9.5	<0.01	0.05	3.7
ZZ109183		0.84	38.8	590	14.7	7.5	<0.001	0.02	1.39	2.1	1.2	0.4	10.2	<0.01	0.05	4.1
ZZ109184		0.63	17.7	370	10.5	6.4	<0.001	0.01	1.06	1.3	0.4	0.6	8.4	<0.01	0.04	0.7
ZZ109185		0.81	31.6	630	19.0	10.1	<0.001	0.02	3.40	1.7	0.8	0.4	10.1	<0.01	0.05	2.6
ZZ109186		0.16	8.6	650	4.7	4.0	<0.001	0.01	0.70	0.2	0.2	0.4	5.3	<0.01	0.02	<0.2
ZZ109187		0.43	15.5	620	13.9	7.1	<0.001	0.02	0.99	0.8	0.2	0.5	7.4	<0.01	0.04	0.3
ZZ109188		0.60	9.8	400	11.5	10.2	<0.001	0.03	0.82	1.2	0.5	0.5	27.6	<0.01	0.04	0.3
ZZ109189		1.04	21.7	390	15.1	17.2	<0.001	0.02	2.25	2.6	0.5	0.6	9.2	<0.01	0.04	3.6
ZZ109190		1.54	16.1	290	10.5	9.6	<0.001	0.01	0.98	2.3	0.3	0.8	8.1	<0.01	0.03	3.5
ZZ109191		0.57	10.2	300	10.6	8.6	<0.001	0.02	1.17	0.8	0.2	0.6	10.1	<0.01	0.03	0.2
ZZ109192		0.90	9.4	360	12.6	9.8	<0.001	0.01	1.08	1.2	0.2	0.7	7.9	<0.01	0.03	0.4
ZZ109193		0.82	6.3	210	11.8	12.1	<0.001	0.01	0.55	1.0	<0.2	0.8	9.5	<0.01	0.03	0.4
ZZ109194		1.28	25.0	500	10.9	14.6	<0.001	0.01	0.97	3.3	0.4	0.6	11.4	<0.01	0.03	4.7
ZZ109195		0.62	6.7	210	6.8	19.1	<0.001	0.01	0.51	0.8	<0.2	0.5	9.6	<0.01	0.02	0.5
ZZ109196		0.86	30.6	660	27.7	15.3	<0.001	0.02	12.75	2.3	0.5	0.5	13.1	<0.01	0.05	2.6
ZZ109197		1.64	17.4	200	13.5	10.7	<0.001	0.01	0.72	3.0	0.2	0.8	15.0	<0.01	0.03	2.0
ZZ109198		2.03	13.2	410	13.4	12.1	<0.001	0.01	0.94	2.6	0.3	0.8	9.8	<0.01	0.04	2.9
ZZ109199		1.49	23.7	540	10.0	13.7	<0.001	<0.01	0.51	3.6	0.3	0.7	19.5	<0.01	0.02	4.6
ZZ109200		0.87	38.7	1050	21.2	29.0	<0.001	0.04	2.32	4.2	1.2	0.6	36.8	<0.01	0.03	4.1



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ109161		0.034	0.09	0.66	34	1.60	7.10	233	1.1
ZZ109162		0.034	0.12	0.57	37	0.62	3.66	88	0.8
ZZ109163		0.010	0.13	2.02	46	0.08	9.00	391	5.6
ZZ109164		0.130	1.84	0.76	141	0.06	25.7	254	2.9
ZZ109165		0.056	0.12	0.63	45	0.31	3.69	84	0.6
ZZ109166		0.046	0.14	0.92	36	0.34	6.38	59	0.9
ZZ109167		0.053	0.16	0.85	33	0.28	5.06	89	<0.5
ZZ109168		0.021	0.09	0.74	40	0.16	3.49	111	<0.5
ZZ109169		0.139	0.41	0.79	28	0.08	8.10	96	0.6
ZZ109170		0.050	0.36	0.71	17	0.09	6.42	64	<0.5
ZZ109171		0.065	0.16	0.75	32	0.24	4.81	68	<0.5
ZZ109172		0.062	0.10	0.68	28	0.17	4.24	61	<0.5
ZZ109173		0.051	0.15	0.78	44	0.25	4.15	61	<0.5
ZZ109174		0.048	0.12	0.75	51	0.30	4.26	84	3.7
ZZ109175		0.040	0.12	0.60	51	0.16	4.13	85	1.0
ZZ109176		0.020	0.13	0.80	37	0.16	4.43	95	1.5
ZZ109177		0.072	0.12	0.68	55	0.32	3.25	75	0.8
ZZ109178		0.035	0.13	0.70	38	0.34	2.62	73	<0.5
ZZ109179		0.027	0.10	1.00	32	0.24	4.20	100	<0.5
ZZ109180		0.023	0.14	1.04	34	0.22	5.09	124	1.0
ZZ109181		0.020	0.15	1.46	37	0.20	4.73	194	1.2
ZZ109182		0.046	0.12	0.72	40	0.28	3.72	105	0.6
ZZ109183		0.032	0.12	1.26	37	0.24	4.77	116	0.7
ZZ109184		0.048	0.07	0.53	45	0.26	2.59	64	<0.5
ZZ109185		0.029	0.12	0.76	44	0.26	3.15	101	<0.5
ZZ109186		0.021	0.06	0.34	20	0.42	0.96	19	<0.5
ZZ109187		0.040	0.07	0.55	36	0.22	2.13	39	<0.5
ZZ109188		0.047	0.09	0.51	44	0.26	3.26	43	<0.5
ZZ109189		0.060	0.15	1.59	48	0.38	4.83	64	<0.5
ZZ109190		0.086	0.11	0.55	48	0.33	2.77	36	<0.5
ZZ109191		0.048	0.08	0.55	39	0.41	2.49	32	<0.5
ZZ109192		0.073	0.09	0.54	45	0.42	2.04	29	<0.5
ZZ109193		0.074	0.08	0.42	37	0.29	2.09	24	<0.5
ZZ109194		0.072	0.09	0.64	48	0.32	4.33	66	0.9
ZZ109195		0.048	0.06	0.42	22	0.23	2.28	24	<0.5
ZZ109196		0.031	0.11	1.23	36	0.26	10.40	126	<0.5
ZZ109197		0.068	0.09	0.50	65	0.37	3.10	48	<0.5
ZZ109198		0.115	0.08	0.46	63	0.45	2.62	46	0.8
ZZ109199		0.089	0.11	0.54	45	0.29	5.44	45	0.8
ZZ109200		0.055	0.19	1.75	35	0.19	34.0	90	1.6



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Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ109201		0.27	0.001	0.12	2.20	9.5	<0.02	<10	120	0.60	0.33	0.43	0.19	33.9	9.0	41
ZZ109202		0.26	0.016	0.04	2.04	23.0	<0.02	<10	110	0.40	0.16	0.28	0.20	20.8	20.1	58
ZZ109203		0.49	0.009	0.04	1.74	35.2	<0.02	<10	140	0.44	0.13	0.27	0.09	21.1	20.5	57
ZZ109204		0.41	0.005	0.06	1.52	44.9	<0.02	<10	180	0.41	0.19	0.20	0.11	17.05	15.0	47
ZZ109205		0.42	0.002	0.14	1.33	28.7	<0.02	<10	190	0.33	0.25	0.23	0.15	12.95	16.0	48
ZZ109206		0.22	0.004	0.09	1.59	38.9	<0.02	<10	180	0.37	0.12	0.38	0.10	16.55	19.1	54
ZZ109207		0.34	0.004	0.05	1.72	25.9	<0.02	<10	110	0.43	0.11	0.41	0.11	17.50	19.4	57
ZZ109208		0.51	0.004	0.10	1.68	26.3	<0.02	<10	190	0.46	0.09	0.53	0.10	19.40	20.3	63
ZZ109209		0.37	0.001	0.05	2.00	22.4	<0.02	<10	130	0.43	0.19	0.42	0.10	14.60	23.3	67
ZZ109210		0.31	0.003	0.07	1.26	19.9	<0.02	<10	120	0.30	0.26	0.21	0.14	15.50	13.8	52
ZZ109211		0.47	0.003	0.09	1.61	16.5	<0.02	<10	310	0.53	0.13	0.42	0.21	29.6	16.5	40
ZZ109212		0.53	0.008	0.08	1.27	12.8	<0.02	<10	220	0.37	0.18	0.43	0.10	22.2	12.9	39
ZZ109213		0.45	0.004	0.12	2.06	18.4	<0.02	<10	370	0.50	0.20	0.58	0.08	18.25	16.3	57
ZZ109214		0.48	0.003	0.05	1.46	12.9	<0.02	<10	190	0.38	0.26	0.41	0.08	19.20	14.8	52
ZZ109215		0.40	0.003	0.03	2.16	17.5	<0.02	<10	230	0.54	0.23	0.36	0.18	22.6	18.5	54
ZZ109216		0.50	0.006	0.10	1.85	19.2	<0.02	<10	320	0.44	0.19	0.59	0.13	18.75	14.6	54



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ109201		7.65	15.5	2.61	7.86	<0.05	0.03	0.01	0.026	0.07	16.9	28.9	0.98	232	1.08	0.01
ZZ109202		5.54	58.8	4.16	5.92	<0.05	<0.02	0.03	0.025	0.08	8.1	17.5	0.93	676	0.74	0.02
ZZ109203		6.88	62.6	4.25	5.46	<0.05	<0.02	0.02	0.024	0.07	8.4	16.5	0.97	581	0.46	0.02
ZZ109204		13.30	26.8	3.78	6.07	<0.05	<0.02	0.03	0.022	0.05	7.8	13.6	0.52	1330	0.67	0.01
ZZ109205		7.89	30.9	3.91	7.37	0.11	<0.02	0.03	0.031	0.05	6.3	7.2	0.46	779	0.70	0.02
ZZ109206		9.97	38.6	4.07	6.29	0.11	<0.02	0.03	0.028	0.08	6.4	18.8	0.89	769	0.48	0.02
ZZ109207		5.53	58.6	3.98	5.15	0.11	0.02	0.02	0.024	0.07	7.8	17.2	1.02	597	0.38	0.03
ZZ109208		6.24	70.6	4.26	5.29	0.11	0.03	0.01	0.024	0.08	8.7	16.3	1.12	643	0.29	0.04
ZZ109209		6.51	67.0	4.52	6.76	0.11	0.02	0.02	0.029	0.08	6.5	22.8	1.24	583	0.46	0.03
ZZ109210		7.31	32.7	3.68	6.10	0.11	<0.02	0.03	0.023	0.06	6.4	13.2	0.57	440	0.65	0.02
ZZ109211		5.36	42.1	3.07	4.89	0.13	0.02	0.02	0.024	0.07	13.6	14.8	0.92	736	0.39	0.02
ZZ109212		3.63	28.3	2.58	4.18	0.12	0.02	0.02	0.019	0.06	11.4	12.3	0.69	535	0.39	0.02
ZZ109213		7.03	44.4	3.82	6.00	0.12	0.04	0.04	0.028	0.11	9.8	18.6	1.10	675	0.49	0.02
ZZ109214		4.18	45.6	2.91	4.38	0.12	0.02	0.01	0.019	0.07	9.5	14.8	0.83	481	0.54	0.02
ZZ109215		6.78	46.0	3.49	5.97	0.11	0.02	0.02	0.028	0.10	10.5	19.6	1.05	647	0.58	0.02
ZZ109216		6.75	47.3	3.53	5.40	0.12	0.05	0.03	0.027	0.12	9.7	15.7	1.04	561	0.55	0.02



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ109201		1.46	22.7	260	17.8	13.9	<0.001	0.01	0.65	4.4	0.3	0.9	20.2	<0.01	0.03	4.8
ZZ109202		0.78	46.0	740	5.2	8.6	<0.001	0.04	1.10	5.9	0.4	0.4	14.0	<0.01	0.03	0.8
ZZ109203		0.79	45.9	450	5.7	8.4	<0.001	0.03	1.21	6.2	0.3	0.4	13.5	<0.01	0.03	1.3
ZZ109204		0.38	21.1	790	11.1	10.2	<0.001	0.08	1.17	1.7	0.3	0.5	13.4	<0.01	0.03	0.2
ZZ109205		0.66	24.3	740	7.4	9.4	<0.001	0.09	1.20	2.2	0.6	0.6	15.8	<0.01	0.06	<0.2
ZZ109206		0.62	33.6	830	7.2	11.4	<0.001	0.06	1.29	4.6	0.5	0.4	20.4	<0.01	0.04	0.4
ZZ109207		0.66	39.1	920	5.8	6.1	<0.001	0.03	1.15	6.0	0.4	0.3	16.3	<0.01	0.02	1.0
ZZ109208		0.57	37.9	830	5.6	6.4	<0.001	0.02	0.98	8.8	0.4	0.3	20.5	<0.01	0.03	2.2
ZZ109209		0.82	43.8	630	5.7	8.1	<0.001	0.03	0.85	7.5	0.4	0.4	17.7	<0.01	0.03	0.7
ZZ109210		0.86	27.6	520	7.1	7.9	<0.001	0.06	0.92	2.6	0.4	0.6	12.4	<0.01	0.04	0.2
ZZ109211		0.77	32.2	1000	6.3	8.2	<0.001	0.02	0.90	6.3	0.7	0.4	23.6	<0.01	0.02	1.8
ZZ109212		0.83	24.1	1000	4.6	7.4	<0.001	0.03	0.75	4.0	0.5	0.3	21.1	<0.01	0.02	1.4
ZZ109213		1.17	35.4	840	5.9	12.8	<0.001	0.03	1.02	8.0	0.5	0.5	27.0	<0.01	0.03	2.4
ZZ109214		0.82	32.8	880	4.1	7.6	<0.001	0.03	0.78	4.8	0.6	0.3	19.5	<0.01	0.02	1.5
ZZ109215		1.11	39.6	760	5.7	10.4	<0.001	0.03	0.92	5.7	0.5	0.4	20.9	<0.01	0.03	1.3
ZZ109216		1.05	35.4	950	5.1	11.9	<0.001	0.03	1.05	7.4	0.5	0.4	25.2	<0.01	0.02	2.4

***** See Appendix Page for comments regarding this certificate *****



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ109201		0.074	0.13	0.59	52	0.33	4.28	85	1.4
ZZ109202		0.082	0.15	0.56	126	0.44	5.42	60	<0.5
ZZ109203		0.063	0.15	0.46	147	0.65	4.53	53	<0.5
ZZ109204		0.032	0.14	0.66	132	0.29	3.49	45	<0.5
ZZ109205		0.060	0.14	0.47	162	0.25	2.95	41	<0.5
ZZ109206		0.056	0.11	0.36	132	0.53	3.80	59	<0.5
ZZ109207		0.065	0.11	0.40	136	0.43	5.53	56	<0.5
ZZ109208		0.083	0.11	0.38	155	0.25	6.52	54	0.9
ZZ109209		0.096	0.12	0.35	163	0.36	5.07	56	0.6
ZZ109210		0.074	0.10	0.42	137	0.39	3.09	41	<0.5
ZZ109211		0.071	0.10	0.78	78	0.33	10.60	58	0.5
ZZ109212		0.059	0.09	0.52	70	0.47	6.81	44	0.5
ZZ109213		0.070	0.15	0.59	91	0.54	7.40	66	1.4
ZZ109214		0.077	0.11	0.45	79	0.59	6.86	45	0.6
ZZ109215		0.074	0.14	0.49	86	0.65	6.47	73	0.7
ZZ109216		0.081	0.14	0.52	87	0.54	7.34	67	1.6



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This report is for 51 Soil samples submitted to our lab in Whitehorse, YT, Canada on 23- JUN- 2017.

The following have access to data associated with this certificate:

ANDREW CARNE	JULIA LANE	JOAN MARIACHER
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SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
SCR- 41	Screen to - 180um and save both

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Au- ICP21	Au 30g FA ICP- AES Finish	ICP- AES
ME- MS41	Ultra Trace Aqua Regia ICP- MS	

To: **ATAC RESOURCES LTD.**
ATTN: JULIA LANE
C/ O ARCHER, CATHRO & ASSOCIATES (1981) LIMITED
1016- 510 W HASTINGS ST
VANCOUVER BC V6B 1L8

This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

***** See Appendix Page for comments regarding this certificate *****

Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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 Account: RCM

Project: Rosy

CERTIFICATE OF ANALYSIS WH17127454

Sample Description	Method Analyte Units LOR	WEI- 21	Au- ICP21	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41
		Recvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	Au ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ109218		0.46	0.009	0.26	2.49	28.4	<0.02	<10	540	0.73	0.23	0.60	0.11	26.0	15.5	62
ZZ109219		0.34	0.004	0.16	1.98	21.8	<0.02	<10	390	0.56	0.19	0.49	0.16	19.65	12.8	47
ZZ109220		0.53	0.005	0.11	1.89	20.9	<0.02	<10	340	0.55	0.24	0.42	0.11	21.9	15.9	53
ZZ109221		0.47	0.005	0.19	2.04	28.0	<0.02	<10	340	0.58	0.17	0.48	0.13	22.2	14.9	48
ZZ109222		0.44	0.005	0.23	1.73	19.9	<0.02	<10	290	0.48	0.14	0.49	0.10	19.60	12.9	41
ZZ109223		0.47	0.004	0.13	1.78	19.2	<0.02	<10	260	0.51	0.14	0.31	0.09	19.25	11.1	37
ZZ109224		0.35	0.010	0.68	2.57	31.3	<0.02	<10	510	0.81	0.20	0.55	0.09	27.1	16.0	53
ZZ109225		0.44	0.004	0.29	2.18	27.9	<0.02	<10	340	0.65	0.17	0.37	0.15	26.6	13.4	45
ZZ109226		0.36	0.003	0.09	1.91	29.1	<0.02	<10	220	0.49	0.16	0.42	0.15	23.2	14.2	42
ZZ109227		0.41	0.004	0.10	2.01	29.9	<0.02	<10	270	0.57	0.16	0.38	0.12	26.5	15.1	43
ZZ109228		0.38	0.006	0.33	2.07	32.2	<0.02	<10	340	0.60	0.15	0.39	0.09	22.5	15.4	42
ZZ109229		0.47	0.012	0.22	1.85	61.7	<0.02	<10	360	0.59	0.13	0.64	0.10	26.3	15.0	40
ZZ109230		0.41	0.022	0.40	1.25	100.5	<0.02	<10	210	0.44	0.08	0.43	0.11	22.9	11.7	31
ZZ109231		0.47	0.011	0.41	1.77	59.3	<0.02	<10	290	0.59	0.11	0.45	0.07	21.1	11.6	35
ZZ109232		0.37	0.022	0.61	2.33	103.0	0.02	<10	470	0.85	0.16	0.68	0.12	28.8	15.9	45
ZZ109233		0.43	0.080	2.04	1.44	324	0.08	<10	300	0.90	0.07	0.59	0.16	39.2	16.0	30
ZZ109234		0.42	0.007	0.27	1.56	18.9	<0.02	<10	240	0.39	0.09	0.61	0.15	19.00	12.1	37
ZZ109235		0.40	0.004	0.29	1.83	24.5	<0.02	<10	330	0.43	0.13	0.64	0.15	17.25	16.7	41
ZZ109236		0.66	0.005	0.13	1.79	19.6	0.02	<10	300	0.53	0.17	0.62	0.25	26.9	15.9	45
ZZ109237		0.44	0.004	0.08	1.26	14.6	<0.02	<10	200	0.35	0.11	0.51	0.09	23.3	9.7	34
ZZ109238		0.53	0.005	0.13	1.58	19.4	<0.02	<10	280	0.49	0.13	0.56	0.15	28.0	13.3	42
ZZ109239		0.45	0.004	0.18	1.84	25.3	<0.02	<10	290	0.50	0.14	0.57	0.11	21.6	12.2	46
ZZ109240		0.47	0.002	0.09	1.42	12.4	<0.02	<10	280	0.40	0.13	0.63	0.14	21.2	14.0	41
ZZ109241		0.29	0.003	0.20	2.18	17.5	<0.02	<10	410	0.56	0.23	0.39	0.09	20.5	12.9	48
ZZ109242		0.30	0.001	0.06	1.43	17.4	<0.02	<10	140	0.33	0.22	0.21	0.24	12.20	9.6	38
ZZ109243		0.38	0.002	0.08	2.01	29.9	<0.02	<10	430	0.50	0.21	0.42	0.11	20.0	13.9	51
ZZ109244		0.48	0.002	0.07	1.97	21.2	<0.02	<10	310	0.51	0.22	0.43	0.12	19.85	16.1	58
ZZ109245		0.42	0.005	0.08	1.85	14.6	<0.02	<10	190	0.46	0.29	0.44	0.10	18.05	18.5	59
ZZ109246		0.35	0.001	0.07	1.61	13.5	<0.02	<10	200	0.32	0.16	0.38	0.09	15.95	15.6	47
ZZ109247		0.46	0.006	0.19	1.93	23.9	<0.02	<10	460	0.53	0.22	0.63	0.16	24.9	17.3	51
ZZ109248		0.39	0.004	0.09	1.73	14.4	<0.02	<10	300	0.42	0.26	0.52	0.08	16.05	13.9	57
ZZ109251		0.49	<0.001	0.11	1.98	14.8	<0.02	<10	160	0.47	0.14	0.76	0.34	24.5	12.7	37
ZZ109252		0.70	<0.001	0.06	1.90	7.2	<0.02	<10	60	0.32	0.09	0.31	0.08	10.30	15.8	137
ZZ109253		0.31	<0.001	0.08	1.46	6.1	<0.02	<10	130	0.27	0.21	0.20	0.26	11.85	10.5	64
ZZ109254		0.31	<0.001	0.08	1.16	7.9	<0.02	<10	70	0.11	0.15	0.15	0.23	8.14	12.3	94
ZZ109255		0.36	<0.001	0.07	1.49	4.2	<0.02	<10	50	0.19	0.21	0.15	0.14	10.55	9.7	69
ZZ109256		0.37	<0.001	0.09	2.70	5.7	<0.02	<10	140	0.43	0.21	0.31	0.20	13.90	22.3	97
ZZ109257		0.36	0.001	0.08	2.85	11.4	<0.02	<10	60	0.26	0.09	0.29	0.16	6.84	29.0	180
ZZ109258		0.48	0.009	0.04	1.77	6.8	<0.02	<10	70	0.23	0.15	0.20	0.09	9.97	14.5	93
ZZ109259		0.32	<0.001	0.05	1.72	6.7	<0.02	<10	40	0.13	0.07	0.22	0.10	5.50	18.2	136



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 Account: RCM

Project: Rosy

CERTIFICATE OF ANALYSIS WH17127454

Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs	Cu	Fe	Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na
		ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%
ZZ109218		10.50	69.0	3.97	7.19	0.13	0.08	0.06	0.039	0.15	16.6	19.6	1.13	519	0.63	0.02
ZZ109219		8.48	41.5	2.99	5.78	0.11	<0.02	0.03	0.025	0.10	13.7	16.7	0.87	490	0.62	0.02
ZZ109220		7.26	49.4	3.20	5.59	0.12	0.04	0.02	0.026	0.08	11.6	18.2	0.94	540	0.62	0.02
ZZ109221		7.22	48.2	3.20	5.89	0.11	0.02	0.02	0.027	0.10	13.5	17.4	1.06	574	0.42	0.02
ZZ109222		4.90	36.2	2.75	4.94	0.12	0.02	0.03	0.021	0.08	11.0	14.5	0.87	456	0.42	0.02
ZZ109223		6.33	37.5	2.53	5.28	0.11	<0.02	0.02	0.022	0.06	11.4	14.1	0.79	380	0.37	0.02
ZZ109224		9.81	55.8	3.62	7.15	0.13	0.05	0.05	0.033	0.11	20.6	19.1	1.10	730	0.51	0.02
ZZ109225		8.48	45.4	3.21	6.37	0.12	<0.02	0.02	0.028	0.09	16.6	17.1	1.00	525	0.45	0.02
ZZ109226		5.85	46.5	3.18	5.36	0.11	<0.02	0.01	0.026	0.08	10.7	16.0	0.99	584	0.50	0.02
ZZ109227		8.40	40.7	3.32	5.99	0.11	<0.02	0.02	0.028	0.09	11.9	16.7	0.95	679	0.44	0.02
ZZ109228		10.05	48.6	3.29	6.21	0.10	0.04	0.04	0.029	0.10	12.6	17.6	1.03	653	0.45	0.02
ZZ109229		11.80	41.9	3.36	5.67	0.11	0.05	0.03	0.029	0.09	11.8	16.1	0.95	704	0.41	0.02
ZZ109230		9.04	26.9	2.73	4.14	0.11	0.04	0.02	0.021	0.07	11.6	12.2	0.69	537	0.36	0.02
ZZ109231		12.35	38.3	2.92	5.18	0.12	0.04	0.02	0.025	0.07	11.9	14.6	0.80	536	0.44	0.02
ZZ109232		18.30	59.7	3.67	6.76	0.12	0.06	0.04	0.035	0.11	17.4	19.4	1.04	899	0.67	0.02
ZZ109233		8.49	13.5	4.31	5.47	0.14	0.06	0.02	0.031	0.11	18.9	15.1	0.93	1380	0.54	0.01
ZZ109234		4.50	24.5	2.49	4.79	0.12	0.03	0.03	0.021	0.08	11.1	14.1	0.88	645	0.37	0.02
ZZ109235		5.43	31.5	3.79	5.11	0.11	0.04	0.04	0.024	0.09	10.1	14.3	0.94	991	0.37	0.02
ZZ109236		5.76	62.9	3.02	5.55	0.13	0.16	0.03	0.026	0.14	13.9	16.1	1.03	400	0.47	0.03
ZZ109237		3.72	31.2	2.32	4.08	0.12	0.05	0.01	0.018	0.07	13.7	11.7	0.74	319	0.33	0.02
ZZ109238		4.86	49.1	2.71	4.95	0.12	0.07	0.02	0.023	0.10	14.1	13.4	0.90	444	0.63	0.02
ZZ109239		6.11	41.5	3.01	5.61	0.11	0.05	0.03	0.025	0.10	12.6	16.2	0.93	459	0.47	0.02
ZZ109240		4.39	39.7	2.69	4.42	0.12	0.05	0.01	0.021	0.09	11.7	11.6	0.84	493	0.47	0.02
ZZ109241		8.41	45.5	3.06	6.14	0.11	<0.02	0.04	0.027	0.09	11.9	16.5	0.85	464	0.52	0.02
ZZ109242		5.62	23.3	2.96	6.01	0.11	<0.02	0.05	0.023	0.08	6.1	7.8	0.50	536	0.67	0.01
ZZ109243		9.40	42.9	3.34	6.80	0.11	<0.02	0.02	0.028	0.09	10.4	16.4	0.93	677	0.63	0.02
ZZ109244		8.35	51.2	3.40	6.02	0.11	<0.02	0.01	0.026	0.10	10.5	17.1	1.04	553	0.65	0.02
ZZ109245		6.01	64.4	3.34	5.64	0.12	0.02	0.01	0.023	0.10	8.4	18.3	1.01	533	0.63	0.03
ZZ109246		4.80	50.0	3.29	5.51	0.11	<0.02	0.02	0.023	0.09	7.1	14.2	0.92	549	0.51	0.02
ZZ109247		10.80	67.1	3.62	5.81	0.12	0.02	0.05	0.028	0.11	13.1	16.3	0.99	776	0.56	0.02
ZZ109248		6.26	48.8	3.03	5.38	0.11	0.03	0.02	0.023	0.09	8.9	15.8	0.93	518	0.59	0.02
ZZ109251		3.27	40.7	2.86	5.32	0.12	0.03	0.01	0.023	0.18	14.4	17.6	2.18	807	0.84	0.01
ZZ109252		1.64	55.8	1.97	3.87	0.11	0.02	0.01	0.012	0.04	5.9	22.2	1.91	251	0.46	0.01
ZZ109253		2.13	30.8	2.88	7.93	0.11	0.02	0.02	0.018	0.06	5.8	16.7	0.73	207	1.09	0.01
ZZ109254		2.76	28.0	2.20	5.51	0.11	<0.02	0.03	0.011	0.03	3.9	9.3	0.91	299	1.02	0.01
ZZ109255		2.15	40.8	2.64	6.70	0.11	<0.02	0.03	0.019	0.04	5.2	9.3	0.59	174	0.73	0.01
ZZ109256		2.93	66.4	3.00	5.61	0.10	0.03	0.06	0.022	0.07	6.2	20.3	1.13	311	0.92	0.03
ZZ109257		2.33	81.4	3.18	5.28	0.11	0.04	0.02	0.019	0.03	2.9	22.5	2.42	501	0.40	0.02
ZZ109258		1.97	44.5	2.36	4.75	0.11	<0.02	0.02	0.019	0.03	4.9	18.3	1.10	221	0.56	0.01
ZZ109259		1.61	38.6	2.15	3.86	0.10	<0.02	0.03	0.011	0.02	2.5	16.2	1.63	278	0.49	0.01



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		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
ZZ109218		1.45	41.7	960	7.2	19.7	<0.001	0.05	1.35	11.3	1.0	0.5	30.5	<0.01	0.04	2.5
ZZ109219		0.65	31.9	1010	5.0	14.1	<0.001	0.05	0.84	3.9	0.7	0.4	24.4	<0.01	0.02	0.4
ZZ109220		0.91	36.8	810	5.5	11.4	<0.001	0.03	0.94	6.6	0.6	0.4	23.5	<0.01	0.02	1.7
ZZ109221		0.80	33.5	920	5.5	12.0	<0.001	0.03	0.90	7.0	0.6	0.4	27.9	<0.01	0.03	1.3
ZZ109222		0.79	27.2	920	4.8	10.0	<0.001	0.03	0.83	5.7	0.6	0.4	25.9	<0.01	0.02	1.4
ZZ109223		0.48	23.3	820	4.8	8.7	<0.001	0.04	0.73	2.6	0.5	0.3	20.4	<0.01	0.03	0.2
ZZ109224		0.97	35.2	1120	7.2	16.1	<0.001	0.07	1.02	7.3	1.1	0.5	32.6	<0.01	0.04	1.3
ZZ109225		0.52	30.7	1000	6.0	11.4	<0.001	0.05	0.96	3.3	0.7	0.4	25.8	<0.01	0.02	0.3
ZZ109226		0.79	30.0	840	6.3	7.9	<0.001	0.04	1.03	3.9	0.4	0.4	23.4	<0.01	0.03	0.8
ZZ109227		0.71	27.1	980	6.3	10.9	<0.001	0.05	1.22	4.1	0.6	0.4	24.4	<0.01	0.02	0.8
ZZ109228		0.90	29.1	750	6.1	13.1	<0.001	0.05	1.06	6.1	0.5	0.4	31.2	<0.01	0.03	1.4
ZZ109229		0.84	27.4	720	6.6	11.9	<0.001	0.04	1.84	7.2	0.6	0.4	33.5	<0.01	0.04	1.9
ZZ109230		0.65	19.8	730	5.8	8.7	<0.001	0.03	2.37	5.1	0.6	0.3	23.2	<0.01	0.05	1.8
ZZ109231		0.62	21.2	870	6.1	10.6	<0.001	0.05	1.64	4.2	0.6	0.4	25.7	<0.01	0.03	1.0
ZZ109232		0.85	30.9	1310	8.7	17.2	<0.001	0.08	2.26	6.6	1.0	0.5	38.7	<0.01	0.03	1.4
ZZ109233		0.22	17.4	1620	10.1	7.2	<0.001	0.11	4.72	7.7	1.2	0.4	32.1	<0.01	0.03	3.8
ZZ109234		0.74	19.5	1230	4.8	9.0	<0.001	0.04	0.93	5.8	0.4	0.3	27.8	<0.01	0.02	2.3
ZZ109235		0.91	24.4	1140	5.1	10.9	<0.001	0.04	0.83	6.6	0.4	0.4	28.7	<0.01	0.02	2.4
ZZ109236		0.82	33.4	1040	6.0	12.9	<0.001	0.02	0.97	8.5	0.8	0.4	31.6	<0.01	0.03	4.0
ZZ109237		0.77	19.9	1180	4.2	6.9	<0.001	0.02	0.88	6.0	0.5	0.3	25.3	<0.01	0.03	3.0
ZZ109238		0.88	29.4	1130	5.1	8.8	<0.001	0.02	1.07	6.8	0.5	0.4	27.2	<0.01	0.03	3.3
ZZ109239		1.01	28.3	990	5.3	12.0	<0.001	0.02	1.01	8.0	0.6	0.4	29.2	<0.01	0.03	2.9
ZZ109240		0.99	27.2	1160	4.5	9.2	<0.001	0.03	0.85	6.4	0.7	0.3	30.1	<0.01	0.02	2.6
ZZ109241		0.68	31.6	1140	5.7	11.6	<0.001	0.07	0.74	3.8	0.6	0.4	22.2	<0.01	0.02	0.4
ZZ109242		0.61	17.4	970	6.5	11.1	<0.001	0.09	0.97	1.4	0.4	0.4	16.5	<0.01	0.03	<0.2
ZZ109243		0.57	32.3	810	5.2	14.0	<0.001	0.06	1.04	2.7	0.6	0.5	24.6	<0.01	0.02	0.2
ZZ109244		0.76	38.3	690	5.3	11.1	<0.001	0.03	0.95	5.0	0.5	0.4	23.3	<0.01	0.02	0.7
ZZ109245		0.91	40.7	680	4.5	10.6	<0.001	0.03	0.77	5.9	0.7	0.4	21.7	<0.01	0.03	1.5
ZZ109246		0.76	31.2	650	4.4	9.9	<0.001	0.04	0.87	4.0	0.4	0.4	23.2	<0.01	0.02	0.5
ZZ109247		0.88	38.6	1040	5.7	13.3	<0.001	0.03	1.30	7.8	0.9	0.4	28.0	<0.01	0.02	1.4
ZZ109248		0.99	34.7	840	4.5	10.7	<0.001	0.04	0.85	6.0	0.6	0.4	24.8	<0.01	0.03	1.5
ZZ109251		0.40	20.4	1110	10.4	12.0	<0.001	0.05	0.18	5.7	0.8	0.3	14.9	<0.01	0.03	1.8
ZZ109252		0.42	49.2	270	4.0	3.4	<0.001	0.02	0.19	4.3	0.5	0.2	7.8	<0.01	0.02	1.3
ZZ109253		1.87	31.8	340	6.8	5.7	<0.001	0.03	0.34	3.6	0.6	0.5	12.4	<0.01	0.03	1.8
ZZ109254		1.31	35.8	210	4.0	9.0	<0.001	0.03	0.40	3.3	0.4	0.5	8.2	<0.01	0.03	0.8
ZZ109255		1.17	29.3	350	5.2	4.7	<0.001	0.04	0.36	2.3	0.7	0.5	9.1	<0.01	0.02	0.2
ZZ109256		1.40	58.3	470	5.4	7.2	<0.001	0.04	0.43	5.6	0.7	0.4	14.0	0.01	0.03	3.3
ZZ109257		0.56	85.5	320	2.7	3.2	<0.001	0.02	0.23	7.8	0.7	0.2	9.6	<0.01	0.02	1.3
ZZ109258		1.07	46.0	270	4.1	3.0	<0.001	0.03	0.30	4.1	0.5	0.3	9.2	<0.01	0.01	1.0
ZZ109259		0.44	58.8	200	2.5	2.9	<0.001	0.03	0.22	3.6	0.3	0.2	9.1	<0.01	0.01	0.3



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Ti %	Ti ppm	U ppm	V ppm	W ppm	Y ppm	Zn ppm	Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ109218		0.062	0.19	0.82	95	0.51	20.6	87	2.2
ZZ109219		0.034	0.14	0.65	70	0.62	13.80	71	<0.5
ZZ109220		0.056	0.13	0.71	79	0.78	10.20	59	1.0
ZZ109221		0.052	0.13	0.67	76	0.51	10.85	67	0.5
ZZ109222		0.048	0.11	0.59	68	0.59	9.15	54	0.6
ZZ109223		0.032	0.12	0.72	62	0.39	8.65	50	<0.5
ZZ109224		0.037	0.19	1.10	81	0.49	21.0	73	1.1
ZZ109225		0.034	0.15	0.80	73	0.41	14.95	66	<0.5
ZZ109226		0.048	0.13	0.52	72	0.45	6.64	60	<0.5
ZZ109227		0.042	0.13	0.60	76	0.39	8.41	60	<0.5
ZZ109228		0.040	0.14	0.69	75	0.45	9.85	59	1.0
ZZ109229		0.037	0.13	0.77	70	0.35	11.05	63	1.3
ZZ109230		0.033	0.10	0.71	56	0.24	9.63	54	0.8
ZZ109231		0.025	0.15	0.82	65	1.13	9.85	53	0.8
ZZ109232		0.028	0.19	1.34	76	0.30	19.30	70	1.4
ZZ109233		0.009	0.17	1.38	71	0.11	23.6	77	1.2
ZZ109234		0.042	0.10	0.55	60	0.25	9.21	63	0.9
ZZ109235		0.047	0.11	0.52	74	0.40	8.51	67	1.2
ZZ109236		0.079	0.13	0.44	71	0.32	13.00	68	5.6
ZZ109237		0.070	0.08	0.63	60	0.35	10.10	47	2.0
ZZ109238		0.066	0.12	0.67	65	0.31	11.15	58	2.5
ZZ109239		0.063	0.11	0.69	74	0.41	9.00	62	1.6
ZZ109240		0.067	0.09	0.63	68	0.51	9.72	57	1.8
ZZ109241		0.035	0.16	0.89	72	0.52	11.15	67	<0.5
ZZ109242		0.045	0.10	0.54	85	0.76	3.07	60	<0.5
ZZ109243		0.038	0.16	0.54	84	0.47	8.27	60	<0.5
ZZ109244		0.061	0.15	0.57	85	0.57	8.58	63	<0.5
ZZ109245		0.106	0.14	0.49	94	0.84	7.09	56	0.5
ZZ109246		0.078	0.10	0.38	93	0.37	4.88	57	<0.5
ZZ109247		0.065	0.20	0.64	83	0.46	15.60	65	0.7
ZZ109248		0.073	0.14	0.55	82	0.64	7.85	55	1.0
ZZ109251		0.109	0.10	0.80	57	0.11	14.70	75	1.2
ZZ109252		0.081	0.06	0.38	49	0.55	4.49	38	0.7
ZZ109253		0.174	0.11	0.59	98	0.41	3.14	45	0.9
ZZ109254		0.147	0.07	0.34	80	0.54	2.21	28	<0.5
ZZ109255		0.119	0.08	0.55	85	0.45	3.15	33	0.5
ZZ109256		0.111	0.14	0.91	95	0.63	5.33	62	1.0
ZZ109257		0.105	0.06	0.32	79	0.32	4.45	39	1.2
ZZ109258		0.089	0.07	0.40	62	0.43	3.37	31	<0.5
ZZ109259		0.091	0.03	0.20	55	0.44	2.04	29	<0.5



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Sample Description	Method Analyte Units LOR	WEI- 21 Recvd Wt. kg	Au- ICP21 Au ppm	ME- MS41 Ag ppm	ME- MS41 Al %	ME- MS41 As ppm	ME- MS41 Au ppm	ME- MS41 B ppm	ME- MS41 Ba ppm	ME- MS41 Be ppm	ME- MS41 Bi ppm	ME- MS41 Ca %	ME- MS41 Cd ppm	ME- MS41 Ce ppm	ME- MS41 Co ppm	ME- MS41 Cr ppm
		0.02	0.001	0.01	0.01	0.1	0.02	10	10	0.05	0.01	0.01	0.01	0.02	0.1	1
ZZ109260		0.40	0.001	0.05	1.50	7.1	<0.02	<10	60	0.14	0.14	0.16	0.08	7.64	12.9	107
ZZ109261		0.37	<0.001	0.05	1.59	7.7	<0.02	<10	40	0.14	0.10	0.21	0.09	7.27	15.2	130
ZZ109262		0.47	<0.001	0.03	1.37	7.4	<0.02	<10	40	0.20	0.20	0.13	0.12	11.80	10.1	64
ZZ109263		0.50	<0.001	0.03	1.68	6.1	<0.02	<10	30	0.17	0.13	0.21	0.09	9.72	14.0	135
ZZ109264		0.49	<0.001	0.02	1.34	7.6	<0.02	<10	30	0.17	0.27	0.16	0.11	9.78	10.4	99
ZZ109265		0.47	0.001	0.02	2.12	5.5	<0.02	<10	50	0.25	0.17	0.28	0.13	10.95	19.3	147
ZZ109266		0.43	<0.001	0.04	2.23	5.0	<0.02	<10	50	0.21	0.14	0.28	0.11	8.14	18.8	175
ZZ109267		0.27	<0.001	0.04	2.04	4.8	<0.02	<10	40	0.23	0.14	0.28	0.14	6.66	27.3	197
ZZ109268		0.43	0.003	0.05	1.44	3.9	<0.02	<10	40	0.19	0.17	0.15	0.12	11.35	8.6	76
ZZ109269		0.42	0.001	0.02	1.65	4.6	<0.02	<10	40	0.22	0.14	0.24	0.08	11.40	13.1	109
ZZ109270		0.37	<0.001	0.02	1.92	5.1	<0.02	<10	30	0.16	0.09	0.21	0.12	8.23	19.8	136



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Cs ppm	Cu ppm	Fe %	Ga ppm	Ge ppm	Hf ppm	Hg ppm	In ppm	K %	La ppm	Li ppm	Mg %	Mn ppm	Mo ppm	Na %
		0.05	0.2	0.01	0.05	0.05	0.02	0.01	0.005	0.01	0.2	0.1	0.01	5	0.05	0.01
ZZ109260		2.00	33.0	2.14	5.59	0.11	<0.02	0.04	0.012	0.02	3.6	9.7	1.07	232	0.59	0.01
ZZ109261		2.05	38.3	2.12	4.41	0.11	<0.02	0.04	0.013	0.02	3.5	12.5	1.28	223	0.69	0.01
ZZ109262		3.66	34.4	2.01	4.54	0.10	<0.02	0.03	0.014	0.03	5.9	9.5	0.64	225	0.72	0.01
ZZ109263		2.30	43.9	2.18	4.50	0.10	<0.02	0.02	0.013	0.03	4.7	11.3	1.18	241	0.54	0.01
ZZ109264		2.24	37.7	2.46	8.38	0.10	0.03	0.01	0.014	0.03	4.7	9.3	0.82	175	0.91	0.01
ZZ109265		1.73	62.4	2.42	4.35	0.10	<0.02	0.02	0.014	0.03	5.1	13.8	1.36	337	0.49	0.01
ZZ109266		1.83	51.5	2.57	5.26	0.10	0.02	0.03	0.015	0.03	3.8	14.6	1.57	279	0.47	0.01
ZZ109267		3.34	79.2	2.41	4.25	0.10	<0.02	0.04	0.015	0.04	2.9	14.6	1.76	460	0.40	0.01
ZZ109268		3.07	27.9	2.04	5.07	0.10	<0.02	0.03	0.014	0.03	5.5	8.1	0.55	231	0.63	0.01
ZZ109269		1.54	35.3	2.03	4.29	0.10	<0.02	0.01	0.013	0.02	5.5	10.1	0.97	218	0.50	0.01
ZZ109270		2.64	52.2	2.27	3.95	0.10	<0.02	0.01	0.013	0.03	3.8	13.6	1.45	311	0.50	0.01



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Sample Description	Method Analyte Units LOR	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	ME- MS41	
		Nb ppm	Ni ppm	P ppm	Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm
		0.05	0.2	10	0.2	0.1	0.001	0.01	0.05	0.1	0.2	0.2	0.2	0.01	0.01	0.2
ZZ109260		0.95	41.5	360	4.4	4.5	<0.001	0.04	0.32	3.4	0.5	0.4	8.2	<0.01	0.02	0.3
ZZ109261		0.77	50.4	240	3.3	4.3	<0.001	0.03	0.30	3.6	0.4	0.3	9.0	<0.01	0.01	0.6
ZZ109262		0.78	26.9	360	4.3	4.9	<0.001	0.04	0.38	1.6	0.5	0.4	8.4	<0.01	0.02	0.2
ZZ109263		1.02	48.4	250	3.7	4.4	<0.001	0.03	0.32	2.9	0.5	0.4	9.0	<0.01	0.01	0.7
ZZ109264		2.46	37.0	190	8.2	3.4	<0.001	0.02	0.44	2.9	0.4	0.8	8.0	<0.01	0.02	1.7
ZZ109265		0.71	56.2	360	3.2	3.6	<0.001	0.03	0.31	2.8	0.8	0.4	9.8	<0.01	0.02	0.4
ZZ109266		1.11	69.1	200	3.0	4.4	<0.001	0.02	0.29	4.4	0.6	0.4	10.4	<0.01	0.02	1.2
ZZ109267		0.69	77.2	380	2.1	4.5	<0.001	0.04	0.27	4.3	0.4	0.3	9.6	<0.01	0.01	0.5
ZZ109268		0.76	22.5	430	4.1	5.4	<0.001	0.05	0.33	1.1	0.5	0.5	8.8	<0.01	0.02	<0.2
ZZ109269		1.05	39.1	240	3.4	3.0	<0.001	0.02	0.31	3.2	0.5	0.4	9.2	<0.01	0.01	1.0
ZZ109270		0.65	60.7	280	2.4	2.9	<0.001	0.03	0.35	3.2	0.4	0.3	8.1	<0.01	0.01	0.7

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Sample Description	Method Analyte Units LOR	ME- MS41 Ti %	ME- MS41 Ti ppm	ME- MS41 U ppm	ME- MS41 V ppm	ME- MS41 W ppm	ME- MS41 Y ppm	ME- MS41 Zn ppm	ME- MS41 Zr ppm
		0.005	0.02	0.05	1	0.05	0.05	2	0.5
ZZ109260		0.132	0.07	0.28	78	0.26	2.62	22	<0.5
ZZ109261		0.120	0.05	0.26	59	0.21	2.36	27	<0.5
ZZ109262		0.077	0.05	0.48	55	0.27	2.42	32	<0.5
ZZ109263		0.128	0.06	0.46	57	0.24	2.58	29	<0.5
ZZ109264		0.203	0.10	0.51	91	0.41	2.32	25	0.9
ZZ109265		0.092	0.06	0.58	58	0.26	3.65	32	<0.5
ZZ109266		0.148	0.07	0.34	64	0.25	3.51	30	0.5
ZZ109267		0.103	0.06	0.32	61	0.22	2.79	34	<0.5
ZZ109268		0.080	0.06	0.48	56	0.17	2.41	30	<0.5
ZZ109269		0.119	0.07	0.38	55	0.29	3.81	25	<0.5
ZZ109270		0.080	0.05	0.57	48	0.23	2.98	30	<0.5

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CERTIFICATE WH17127776

Project: Rosy

This report is for 33 Rock samples submitted to our lab in Whitehorse, YT, Canada on 24-JUN- 2017.

The following have access to data associated with this certificate:

ANDREW CARNE	JULIA LANE	JOAN MARIACHER
--------------	------------	----------------

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
BAG- 06	Double Bagging Coarse Rejects
LOG- 21	Sample logging - ClientBarCode
CRU- 31	Fine crushing - 70% < 2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	
ME- MS61	48 element four acid ICP- MS	
Hg- MS42	Trace Hg by ICPMS	ICP- MS
Au- AA24	Au 50g FA AA finish	AAS

To: **ATAC RESOURCES LTD.**
ATTN: JULIA LANE
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This is the Final Report and supersedes any preliminary report with this certificate number. Results apply to samples as submitted. All pages of this report have been checked and approved for release.

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Signature: 
 Colin Ramshaw, Vancouver Laboratory Manager



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Sample Description	Method Analyte Units LOR	WEI- 21	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61
		Recvd Wt. kg	Ag ppm	Al %	As ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Ce ppm	Co ppm	Cr ppm	Cs ppm	Cu ppm	Fe %
		0.02	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2	0.01
S053259		1.17	0.17	4.12	19.7	20	0.20	0.02	11.10	0.08	0.73	49.1	329	28.0	172.5	3.61
S053265		0.94	0.07	3.02	2.7	840	0.24	0.06	0.45	0.20	13.55	2.0	12	0.65	2.3	1.00
S053266		1.23	0.58	2.24	480	320	0.79	0.03	18.85	0.11	6.40	27.9	80	32.0	27.1	6.05
S053267		1.45	0.06	4.89	1.0	430	0.60	0.03	8.89	0.13	9.26	68.2	56	0.22	141.0	11.75
S053268		1.74	0.15	4.19	2.7	270	0.26	0.03	9.51	0.12	6.08	111.0	88	0.18	766	14.55
S053269		1.36	0.04	0.53	4.8	60	0.27	0.02	19.95	0.08	0.95	35.0	50	3.29	24.5	6.30
S053270		1.67	0.04	1.10	1.5	100	0.44	0.02	15.65	0.08	2.55	33.8	13	24.6	13.7	6.12
S053271		0.82	0.09	0.17	1.5	120	0.26	0.02	14.60	0.26	1.23	0.9	14	0.53	2.6	1.18
S053272		1.75	0.08	0.11	0.9	110	0.08	0.02	13.85	0.15	1.26	0.6	13	0.31	2.5	0.25
S053273		2.15	0.11	0.75	1.3	270	0.61	0.03	22.1	0.34	7.65	1.4	4	3.64	3.8	1.95
S053274		1.12	0.06	1.13	23.7	50	0.52	0.02	22.7	0.08	4.31	15.0	53	28.7	3.6	5.17
S053275		1.46	30.0	1.79	67.7	90	0.62	0.04	14.80	0.21	6.93	24.4	43	77.7	10.7	6.39
S053276		1.35	0.59	1.17	0.2	6210	0.11	0.42	0.85	0.10	18.85	0.9	30	0.61	106.5	0.62
S053277		1.91	0.19	8.59	5.9	780	1.79	0.19	10.50	0.21	82.7	16.8	83	1.19	55.6	4.93
S053278		1.84	0.04	0.09	0.8	290	<0.05	0.03	7.70	0.21	0.76	0.4	21	0.11	3.0	0.38
S053279		1.47	0.12	3.22	27.4	190	0.58	0.03	17.55	0.04	8.15	5.1	14	2.68	11.1	4.98
S053280		1.13	1.56	1.53	6.3	390	0.53	1.39	0.87	0.22	15.80	0.4	285	0.80	13.3	5.73
S053281		1.34	0.25	0.13	53.9	100	<0.05	0.29	18.75	2.30	16.75	1.7	9	0.22	6.0	1.36
S053282		0.63	21.4	3.53	1095	1200	0.50	1.13	0.07	26.7	14.15	6.1	35	7.06	65.6	8.88
S053283		1.57	0.09	0.39	2.6	40	0.07	0.03	3.20	0.20	1.55	0.7	26	0.35	2.2	0.59
S053284		1.44	0.09	0.27	3.8	20	<0.05	0.03	6.67	0.20	0.74	0.4	31	0.25	1.7	0.49
S053285		1.37	0.03	0.23	0.5	10	<0.05	0.02	21.6	0.72	2.42	0.7	2	0.24	0.8	0.29
S053286		2.97	0.09	7.43	53.1	1300	2.49	0.10	0.56	0.17	51.8	1.2	7	4.44	2.1	1.31
S053287		1.19	0.02	8.04	1.1	1260	2.14	0.07	0.40	0.28	52.4	1.3	3	6.35	0.8	1.37
S053288		1.55	0.05	7.90	15.0	900	2.03	0.08	0.07	0.06	47.7	2.4	8	9.57	1.8	1.32
S053289		1.35	0.06	9.35	27.0	1490	3.00	0.14	0.64	0.88	47.5	16.0	95	37.9	26.3	4.69
S053290		1.55	0.13	0.53	9.5	60	0.13	0.04	0.05	0.07	3.13	0.5	40	3.05	5.9	0.60
S053291		2.81	0.02	7.32	34.4	690	1.26	0.12	0.13	0.36	55.5	2.8	20	36.4	14.3	1.95
S053292		1.92	1.49	3.72	29.9	1740	1.25	0.17	0.33	0.15	19.50	4.0	140	14.40	20.4	2.13
S053293		0.90	0.07	6.29	43.8	3240	3.36	0.51	1.49	0.21	33.4	0.3	4	389	1.6	1.07
S053294		4.42	0.09	8.14	83.2	2040	2.14	0.31	0.22	0.57	72.0	2.8	14	14.80	15.8	2.28
S053295		1.37	0.07	0.28	1.7	50	0.07	0.02	0.07	<0.02	0.84	0.6	40	0.68	6.0	0.58
S053296		1.11	83.9	1.57	4110	140	0.37	0.03	0.06	1.43	5.27	1.1	28	4.37	59.8	1.48



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CERTIFICATE OF ANALYSIS WH17127776

Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	Hg- MS42	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Ga	Ge	Hf	Hg	In	K	La	Li	Mg	Mn	Mo	Na	Nb	Ni	P
		ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm
S053259		5.27	<0.05	0.1	0.216	0.009	0.16	<0.5	81.3	5.56	816	0.10	0.02	0.1	255	20
S053265		5.84	0.14	0.4	0.005	0.012	1.00	6.1	7.8	0.03	148	0.23	1.87	2.1	2.5	170
S053266		6.44	0.05	0.5	0.033	0.029	0.54	2.8	69.1	4.71	1470	0.32	0.03	1.3	55.0	200
S053267		16.35	0.10	1.3	0.006	0.091	0.69	3.3	6.6	6.11	1420	0.13	1.89	2.3	61.1	180
S053268		15.60	0.10	1.2	0.010	0.103	0.57	2.1	9.2	6.92	1410	0.17	1.06	1.3	100.5	80
S053269		2.91	<0.05	0.2	0.029	0.020	0.04	<0.5	38.3	7.42	766	0.05	0.01	0.1	56.1	20
S053270		4.22	<0.05	0.3	0.011	0.021	0.22	1.0	36.0	5.50	1030	0.07	0.02	0.4	55.1	80
S053271		0.52	<0.05	<0.1	0.010	<0.005	0.06	2.6	12.3	5.77	227	0.07	0.01	0.1	1.9	100
S053272		0.43	<0.05	<0.1	0.007	<0.005	0.04	3.9	3.4	0.14	183	0.21	0.01	0.1	1.2	80
S053273		2.07	<0.05	0.5	0.011	0.006	0.26	4.3	68.6	9.68	321	0.18	0.01	1.0	0.7	90
S053274		3.87	0.05	0.3	0.069	0.020	0.30	2.4	62.0	7.77	1170	0.07	0.01	0.5	36.1	60
S053275		8.44	0.05	0.4	0.249	0.031	0.78	2.6	24.7	5.23	1370	5.81	0.01	0.7	19.3	1160
S053276		3.18	0.07	0.1	<0.005	<0.005	1.35	9.6	2.5	0.14	138	0.21	0.09	1.0	2.2	90
S053277		26.2	0.18	3.3	0.014	0.091	1.48	37.9	5.3	0.77	744	1.44	2.82	23.0	37.1	510
S053278		0.25	0.05	<0.1	<0.005	<0.005	0.02	1.2	0.9	3.93	70	0.22	0.01	0.1	3.1	290
S053279		5.97	0.05	0.3	0.077	0.019	0.51	4.1	35.8	5.55	1360	0.09	0.01	1.5	4.8	450
S053280		4.74	0.14	0.6	0.056	0.021	0.30	30.6	4.3	0.30	136	15.00	0.53	1.8	18.1	3400
S053281		0.42	<0.05	<0.1	0.010	0.056	0.04	10.1	3.4	0.12	3620	0.14	0.01	<0.1	0.8	130
S053282		7.40	0.07	0.7	0.260	0.225	1.05	8.5	41.5	0.12	1090	3.63	0.05	0.9	16.4	370
S053283		0.82	<0.05	0.1	0.006	0.005	0.14	1.0	3.5	1.59	123	0.21	0.02	0.2	3.7	240
S053284		0.56	0.05	0.1	0.006	<0.005	0.11	0.7	2.8	3.25	69	0.24	0.03	0.1	3.1	180
S053285		0.49	0.24	<0.1	0.012	0.007	0.04	1.7	3.4	14.05	266	<0.05	0.01	0.1	2.7	90
S053286		15.60	0.21	2.8	<0.005	0.029	3.86	25.2	32.2	0.14	286	3.11	2.28	17.1	1.1	230
S053287		17.20	0.15	2.7	<0.005	0.027	3.84	26.8	34.8	0.15	350	0.70	2.05	17.7	1.2	370
S053288		17.60	0.17	2.2	<0.005	0.008	3.52	27.3	14.2	0.18	168	0.63	2.04	13.8	4.5	290
S053289		21.7	0.13	4.6	0.007	0.051	3.53	22.4	32.1	0.37	1080	2.32	2.15	21.7	55.0	2240
S053290		0.96	0.08	0.1	<0.005	0.007	0.08	1.6	164.5	0.03	61	0.46	0.02	0.4	4.4	310
S053291		16.05	0.14	2.1	<0.005	0.016	2.66	33.3	103.5	0.17	86	1.71	0.05	21.7	22.1	390
S053292		9.61	0.10	2.0	0.070	0.018	1.18	18.4	174.0	0.43	184	3.72	0.18	3.8	13.9	360
S053293		15.50	0.15	3.8	<0.005	0.027	3.71	13.7	41.8	0.06	152	1.09	0.99	26.3	3.9	40
S053294		16.60	0.19	3.9	<0.005	0.024	3.58	40.4	60.5	0.22	203	2.41	2.41	18.2	11.1	440
S053295		0.78	0.08	0.1	<0.005	<0.005	0.09	<0.5	12.1	0.06	73	0.33	0.03	0.2	2.9	30
S053296		4.06	0.06	0.1	0.123	0.059	0.59	2.6	69.8	0.09	133	3.00	0.02	0.7	2.2	190



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Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	
		Pb ppm	Rb ppm	Re ppm	S %	Sb ppm	Sc ppm	Se ppm	Sn ppm	Sr ppm	Ta ppm	Te ppm	Th ppm	Ti %	Tl ppm	U ppm
		0.5	0.1	0.002	0.01	0.05	0.1	1	0.2	0.2	0.05	0.05	0.01	0.005	0.02	0.1
S053259		0.9	22.9	<0.002	0.02	107.5	19.4	1	<0.2	218	<0.05	<0.05	0.08	0.051	0.35	<0.1
S053265		9.8	23.4	<0.002	0.19	0.62	2.4	<1	0.4	65.5	0.15	<0.05	3.27	0.048	0.16	0.8
S053266		1.9	43.4	<0.002	0.32	24.6	26.2	1	0.4	210	0.10	<0.05	0.56	0.335	0.99	0.4
S053267		2.9	8.2	<0.002	<0.01	0.31	75.8	2	1.0	138.5	0.17	<0.05	1.07	1.025	0.07	0.4
S053268		1.3	6.3	<0.002	0.55	0.34	83.6	4	0.9	127.5	0.10	<0.05	0.30	1.155	0.06	0.2
S053269		2.2	3.5	<0.002	<0.01	10.35	20.9	1	0.2	635	<0.05	<0.05	0.03	0.288	0.10	0.2
S053270		0.9	27.5	<0.002	<0.01	16.70	22.2	<1	0.3	345	<0.05	<0.05	0.19	0.292	0.28	0.1
S053271		1.8	1.7	<0.002	<0.01	3.62	0.5	1	<0.2	373	<0.05	<0.05	0.06	0.012	0.02	0.3
S053272		0.8	1.2	<0.002	0.01	0.43	0.5	1	<0.2	111.0	<0.05	<0.05	0.05	0.008	<0.02	0.5
S053273		4.5	11.0	<0.002	<0.01	1.40	1.5	1	0.2	700	0.07	<0.05	1.09	0.039	0.10	0.5
S053274		2.7	39.7	<0.002	0.07	4.76	19.6	1	0.2	421	<0.05	<0.05	0.31	0.211	0.63	0.7
S053275		11.5	94.6	<0.002	0.15	13.45	14.0	2	0.4	185.0	<0.05	<0.05	0.27	0.296	1.32	0.2
S053276		404	20.1	<0.002	0.20	0.22	0.9	4	<0.2	711	0.06	0.18	2.83	0.055	0.15	0.3
S053277		10.0	23.4	<0.002	0.22	3.37	14.8	1	3.3	1075	1.52	0.07	14.35	0.539	0.18	5.0
S053278		3.8	0.6	<0.002	0.01	0.51	0.3	1	<0.2	54.2	<0.05	<0.05	0.08	0.005	<0.02	1.2
S053279		3.3	17.7	<0.002	0.12	9.56	4.1	<1	0.3	388	0.07	<0.05	0.94	0.138	0.25	0.5
S053280		136.0	11.3	0.004	0.14	1.06	4.3	28	1.0	357	0.10	0.14	1.41	0.065	0.21	3.5
S053281		15.3	1.9	<0.002	0.96	2.47	6.1	2	<0.2	205	<0.05	<0.05	0.05	<0.005	0.05	0.1
S053282		4720	50.9	<0.002	0.94	95.2	10.0	9	2.3	7.8	0.06	0.07	1.51	0.096	1.60	1.4
S053283		6.1	3.5	<0.002	0.01	0.33	0.7	<1	0.2	24.8	<0.05	<0.05	0.22	0.014	0.02	0.5
S053284		15.5	2.4	<0.002	<0.01	0.42	0.5	<1	<0.2	43.7	<0.05	<0.05	0.12	0.007	0.02	0.5
S053285		3.5	2.4	<0.002	<0.01	0.13	1.0	<1	<0.2	282	<0.05	<0.05	0.05	<0.005	<0.02	<0.1
S053286		36.5	156.5	<0.002	<0.01	1.00	2.0	<1	2.0	116.0	1.65	<0.05	21.3	0.106	1.24	4.4
S053287		17.1	164.5	<0.002	<0.01	0.24	2.5	1	1.5	118.5	1.68	<0.05	21.6	0.140	1.15	1.9
S053288		19.6	170.0	<0.002	<0.01	0.99	2.6	<1	1.2	93.0	1.29	<0.05	25.9	0.107	1.26	3.3
S053289		6.1	252	<0.002	0.01	13.90	15.5	1	1.5	171.5	1.19	<0.05	7.09	0.546	2.13	3.8
S053290		5.9	5.0	<0.002	0.02	2.30	1.5	<1	0.2	5.1	<0.05	<0.05	0.39	0.010	0.08	1.2
S053291		17.6	122.5	<0.002	0.01	4.19	3.5	1	1.5	17.1	1.72	<0.05	24.6	0.169	1.32	4.2
S053292		16.5	56.6	<0.002	0.13	8.43	7.5	4	1.0	51.7	0.26	0.10	2.99	0.149	1.16	4.7
S053293		22.5	147.0	<0.002	0.01	1.99	1.8	1	2.7	903	2.21	<0.05	19.10	0.038	1.51	7.4
S053294		14.4	131.5	<0.002	0.03	6.38	3.7	1	1.3	127.5	1.52	<0.05	18.90	0.194	1.11	5.8
S053295		0.7	2.6	<0.002	<0.01	0.24	0.5	<1	0.2	3.4	<0.05	<0.05	0.21	0.011	0.03	0.6
S053296		408	16.3	<0.002	0.69	102.0	2.0	4	0.4	12.5	0.05	1.13	0.51	0.047	0.25	0.3



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Sample Description	Method Analyte Units LOR	ME- MS61	ME- MS61	ME- MS61	ME- MS61	ME- MS61	Au- AA24
		V ppm 1	W ppm 0.1	Y ppm 0.1	Zn ppm 2	Zr ppm 0.5	Au ppm 0.005
S053259		55	1.9	3.6	29	1.6	<0.005
S053265		5	0.5	4.2	15	13.0	<0.005
S053266		204	3.5	12.0	62	11.5	0.133
S053267		625	0.1	20.3	91	29.9	<0.005
S053268		775	0.1	19.5	90	28.5	<0.005
S053269		217	3.4	4.0	59	4.5	<0.005
S053270		242	2.3	6.4	52	6.0	<0.005
S053271		8	0.2	2.2	40	2.1	<0.005
S053272		4	0.1	3.8	3	1.5	<0.005
S053273		11	0.5	5.1	98	16.5	<0.005
S053274		134	2.5	10.5	47	8.4	<0.005
S053275		185	8.9	20.0	44	9.8	1.735
S053276		8	0.6	2.8	4	3.6	0.009
S053277		99	1.0	31.1	111	93.9	0.007
S053278		3	0.2	2.4	13	1.7	<0.005
S053279		51	1.6	8.0	42	5.3	<0.005
S053280		619	0.6	65.2	147	39.6	<0.005
S053281		7	0.1	22.1	119	<0.5	<0.005
S053282		133	1.0	8.6	2090	25.8	0.053
S053283		10	0.1	1.9	12	3.6	<0.005
S053284		8	0.1	2.4	16	2.6	<0.005
S053285		3	0.1	5.2	16	0.9	<0.005
S053286		9	1.4	10.5	57	78.7	<0.005
S053287		11	1.1	11.2	45	71.7	<0.005
S053288		19	1.2	6.3	38	59.4	<0.005
S053289		144	2.7	13.5	165	202	<0.005
S053290		12	0.2	3.1	11	3.2	<0.005
S053291		34	1.3	8.2	102	66.8	<0.005
S053292		584	1.6	12.1	44	85.7	0.008
S053293		3	2.1	15.2	47	98.3	<0.005
S053294		33	2.0	14.7	108	141.5	<0.005
S053295		11	0.1	0.5	4	2.3	<0.005
S053296		30	0.3	2.0	230	1.9	4.57



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	CERTIFICATE COMMENTS								
Applies to Method:	<p style="text-align: center;">ANALYTICAL COMMENTS</p> <p>REE's may not be totally soluble in this method. ME- MS61</p>								
Applies to Method:	<p style="text-align: center;">LABORATORY ADDRESSES</p> <p>Processed at ALS Whitehorse located at 78 Mt. Sima Rd, Whitehorse, YT, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">BAG- 06</td> <td style="width: 33%;">CRU- 31</td> <td style="width: 33%;">CRU- QC</td> <td style="width: 15%;">LOG- 21</td> </tr> <tr> <td>PUL- 31</td> <td>PUL- QC</td> <td>SPL- 21</td> <td>WEI- 21</td> </tr> </table>	BAG- 06	CRU- 31	CRU- QC	LOG- 21	PUL- 31	PUL- QC	SPL- 21	WEI- 21
BAG- 06	CRU- 31	CRU- QC	LOG- 21						
PUL- 31	PUL- QC	SPL- 21	WEI- 21						
Applies to Method:	<p>Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 33%;">Au- AA24</td> <td style="width: 33%;">Hg- MS42</td> <td style="width: 33%;">ME- MS61</td> <td></td> </tr> </table>	Au- AA24	Hg- MS42	ME- MS61					
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