



# ALS Chemex

**EXCELLENCE IN ANALYTICAL CHEMISTRY**

ALS Canada Ltd.

212 Brooksbank Avenue  
North Vancouver BC V7J 2C1

Phone: 604 984 0221 Fax: 604 984 0218 www.alschemex.com

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

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Finalized Date: 2-OCT-2008  
Account: RCM

## CERTIFICATE VA08129713

Project: Hartless Joe

P.O. No.: HJ-08-03

This report is for 43 Drill Core samples submitted to our lab in Vancouver, BC, Canada on 12-SEP-2008.

The following have access to data associated with this certificate:

AL ARCHER  
BILL WENGZYNOWSKI

DOUG EATON

JOAN MARIACHER

## SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-31	Pulverize split to 85% <75 um

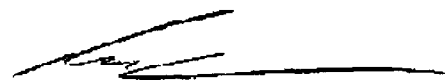
## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-ICP41	35 Element Aqua Regia ICP-AES	ICP-AES
Au-AA26	Ore Grade Au 50g FA AA finish	AAS

To: ATAC RESOURCES LTD.  
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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.

Signature:

  
Colin Ramshaw, Vancouver Laboratory Manager



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## CERTIFICATE OF ANALYSIS VA08129713

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-AA26 Au ppm	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 %
		0.02	0.01	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
G087311		1.44	0.01	<0.2	2.17	39	<10	520	<0.5	<2	4.87	<0.5	19	48	39	4.59
G087312		1.34	0.01	<0.2	0.78	27	<10	310	<0.5	2	3.29	<0.5	3	7	7	1.22
G087313		4.04	0.01	<0.2	0.71	58	<10	220	<0.5	<2	1.71	<0.5	3	5	25	1.13
G087314		4.41	0.02	<0.2	0.92	195	<10	450	<0.5	<2	1.64	<0.5	2	3	36	0.87
G087315		2.71	<0.01	<0.2	0.81	7	<10	260	<0.5	<2	1.60	<0.5	4	5	85	1.23
G087316		1.41	<0.01	<0.2	3.24	25	<10	100	<0.5	<2	6.19	0.5	20	85	82	4.79
G087317		1.04	<0.01	<0.2	0.09	<2	<10	20	<0.5	<2	19.6	<0.5	1	1	2	0.37
G087318		2.63	<0.01	<0.2	3.15	7	<10	40	<0.5	<2	8.94	<0.5	27	182	50	5.36
G087319		2.93	<0.01	<0.2	2.22	44	<10	80	<0.5	<2	8.53	<0.5	26	145	45	5.42
G087320		1.05	<0.01	<0.2	2.69	55	<10	130	<0.5	<2	6.97	<0.5	35	189	65	5.96
G087321		0.62	0.01	<0.2	1.01	141	<10	200	0.5	<2	8.23	<0.5	25	56	57	4.62
G087322		0.92	<0.01	<0.2	0.96	39	<10	140	<0.5	<2	7.21	<0.5	11	37	32	3.24
G087323		0.47	0.01	<0.2	0.86	50	<10	70	<0.5	<2	7.85	<0.5	12	52	43	3.66
G087324		0.49	<0.01	<0.2	1.48	31	<10	100	<0.5	<2	6.69	<0.5	14	60	58	4.46
G087325		0.76	0.01	1.0	1.62	82	<10	890	<0.5	<2	8.76	<0.5	16	61	55	3.85
G087326		0.81	0.01	<0.2	1.90	17	<10	60	<0.5	<2	6.61	<0.5	24	56	66	5.25
G087327		1.09	<0.01	<0.2	2.83	16	<10	40	<0.5	<2	4.91	<0.5	19	79	77	4.78
G087328		0.84	<0.01	0.4	0.77	80	<10	40	<0.5	2	8.64	1.8	13	56	68	4.04
G087329		2.97	0.01	0.3	1.35	69	<10	110	<0.5	<2	8.53	2.9	13	69	58	3.98
G087330		1.34	<0.01	0.4	1.30	98	<10	40	<0.5	<2	7.16	1.2	24	76	138	4.53
G087331		1.22	<0.01	<0.2	1.49	94	<10	80	<0.5	<2	6.83	0.7	21	71	69	4.17
G087332		1.60	<0.01	0.2	1.01	60	<10	110	<0.5	<2	8.92	<0.5	13	50	44	3.88
G087333		2.65	<0.01	<0.2	2.95	32	<10	50	<0.5	2	6.89	<0.5	22	176	71	4.70
G087334		2.77	<0.01	0.2	3.19	15	<10	110	<0.5	<2	4.91	<0.5	23	181	67	4.79
G087335		1.94	<0.01	<0.2	1.30	17	<10	250	<0.5	<2	2.81	<0.5	7	28	8	1.57
G087336		3.90	<0.01	<0.2	0.76	5	<10	230	<0.5	<2	1.74	<0.5	2	3	1	0.87
G087337		3.20	<0.01	<0.2	0.93	4	<10	290	<0.5	<2	1.97	<0.5	2	6	3	1.03
G087338		5.19	<0.01	<0.2	1.28	30	<10	240	<0.5	<2	2.90	<0.5	12	20	11	2.12
G087339		3.17	<0.01	<0.2	1.25	9	<10	230	<0.5	<2	1.92	<0.5	3	4	7	1.17
G087340		1.23	<0.01	<0.2	0.09	<2	<10	20	<0.5	<2	19.0	<0.5	1	1	1	0.37
G087341		1.27	<0.01	<0.2	0.98	28	<10	200	<0.5	<2	3.29	<0.5	7	7	15	1.97
G087342		3.26	<0.01	<0.2	1.23	135	<10	110	0.6	<2	7.11	<0.5	34	50	49	5.97
G087343		2.01	0.01	<0.2	2.88	166	<10	70	<0.5	<2	6.66	<0.5	30	115	50	6.88
G087344		1.41	<0.01	<0.2	2.84	44	<10	170	<0.5	2	5.74	<0.5	34	123	54	6.85
G087345		1.27	0.01	<0.2	1.68	43	<10	60	<0.5	<2	6.61	<0.5	20	99	44	5.82
G087346		1.30	0.01	0.2	1.45	108	<10	70	<0.5	2	5.42	<0.5	26	91	51	6.43
G087347		3.80	0.01	<0.2	1.28	87	<10	250	0.5	2	5.76	<0.5	32	82	54	6.10
G087348		5.47	<0.01	0.4	3.28	25	<10	40	<0.5	2	5.48	1.8	33	146	143	6.86
G087349		6.15	<0.01	<0.2	4.57	3	<10	160	<0.5	2	3.83	<0.5	31	201	94	7.75
G087350		2.63	0.01	<0.2	4.32	5	<10	810	<0.5	<2	6.78	<0.5	28	180	64	6.18



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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
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
G087311		<10	<1	0.16	<10	2.23	792	<1	0.04	32	530	2	0.03	<2	15
G087312		<10	<1	0.36	10	1.37	346	<1	0.05	1	270	22	0.15	2	1
G087313		<10	<1	0.34	20	0.39	252	3	0.05	1	310	19	0.02	3	1
G087314		<10	<1	0.46	20	0.24	223	1	0.08	<1	310	12	0.04	<2	1
G087315		<10	<1	0.34	20	0.41	263	12	0.08	1	300	17	0.04	4	2
G087316		<10	<1	0.25	<10	2.78	891	<1	0.04	37	370	2	0.26	<2	19
G087317		<10	<1	0.04	<10	11.95	170	<1	0.02	<1	360	<2	<0.01	2	<1
G087318		10	1	0.05	<10	2.77	1875	<1	0.07	77	580	<2	0.24	<2	18
G087319		<10	<1	0.08	<10	3.06	1520	<1	0.04	72	560	<2	0.13	<2	18
G087320		10	<1	0.09	<10	2.77	1410	<1	0.06	90	830	<2	0.19	<2	24
G087321		<10	<1	0.29	<10	3.56	1565	<1	0.04	59	490	<2	0.09	2	18
G087322		<10	<1	0.22	<10	2.91	943	<1	0.03	29	240	<2	0.09	3	9
G087323		<10	<1	0.21	<10	3.14	1175	1	0.03	27	380	<2	0.05	<2	11
G087324		<10	<1	0.21	<10	2.95	1260	<1	0.04	30	200	<2	0.02	<2	20
G087325		<10	<1	0.30	<10	2.58	1225	<1	0.05	40	390	2	0.09	3	15
G087326		<10	<1	0.22	<10	3.22	1250	<1	0.03	38	180	<2	0.01	2	27
G087327		<10	<1	0.20	<10	2.99	986	<1	0.05	35	180	<2	0.10	<2	26
G087328		<10	<1	0.17	<10	3.59	1385	4	0.02	42	800	9	0.15	<2	14
G087329		<10	<1	0.30	<10	3.51	1440	3	0.03	55	900	8	0.36	2	15
G087330		<10	<1	0.20	<10	2.65	1160	4	0.03	61	590	4	0.46	2	18
G087331		<10	<1	0.29	<10	2.21	889	2	0.04	62	430	<2	0.20	2	19
G087332		<10	<1	0.21	<10	3.40	1170	1	0.03	37	340	<2	0.08	2	14
G087333		10	<1	0.16	<10	3.00	1010	1	0.04	70	290	<2	0.15	2	22
G087334		10	<1	0.10	<10	3.28	955	2	0.05	69	310	2	0.29	<2	22
G087335		<10	<1	0.48	30	0.62	403	1	0.10	15	370	14	0.03	<2	4
G087336		<10	<1	0.39	30	0.27	226	<1	0.10	1	400	15	0.04	<2	1
G087337		<10	<1	0.46	40	0.32	267	<1	0.11	1	450	12	0.06	<2	1
G087338		<10	<1	0.49	30	1.00	446	<1	0.09	26	570	12	0.09	<2	5
G087339		<10	<1	0.49	40	0.61	308	<1	0.06	2	460	15	0.08	<2	1
G087340		<10	<1	0.05	<10	11.65	176	<1	0.02	<1	350	<2	<0.01	2	<1
G087341		<10	<1	0.45	30	1.08	477	<1	0.07	12	540	30	0.16	2	3
G087342		<10	<1	0.45	<10	3.07	1165	1	0.03	88	1010	3	0.20	7	22
G087343		10	<1	0.18	<10	3.69	1165	<1	0.03	77	810	2	0.13	3	21
G087344		10	<1	0.16	<10	3.68	1175	<1	0.03	84	1020	<2	0.10	<2	18
G087345		<10	<1	0.18	<10	2.96	1500	<1	0.03	63	620	<2	0.16	2	18
G087346		<10	<1	0.28	<10	3.06	1050	<1	0.02	73	610	<2	0.13	2	20
G087347		<10	<1	0.25	<10	3.13	1125	<1	0.03	82	600	2	0.06	2	19
G087348		10	<1	0.21	<10	3.85	1055	<1	0.03	88	520	26	0.10	<2	16
G087349		10	<1	0.15	<10	4.50	984	<1	0.04	94	500	3	0.10	3	20
G087350		10	<1	0.12	<10	3.80	1075	<1	0.03	88	480	<2	0.34	3	19



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## CERTIFICATE OF ANALYSIS VA08129713

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Th	Ti	Tl	U	V	W	Zn
		ppm	%	ppm	ppm	ppm	ppm	ppm
		20	0.01	10	10	1	10	2
G087311		<20	<0.01	<10	<10	120	<10	73
G087312		<20	<0.01	<10	<10	5	<10	54
G087313		<20	<0.01	<10	<10	6	<10	30
G087314		<20	<0.01	<10	<10	3	<10	24
G087315		<20	<0.01	<10	<10	15	<10	30
G087316		<20	0.02	<10	<10	158	<10	92
G087317		<20	<0.01	<10	<10	2	<10	13
G087318		<20	0.18	<10	<10	168	<10	65
G087319		<20	0.01	<10	<10	150	<10	62
G087320		<20	0.01	<10	<10	184	<10	74
G087321		<20	<0.01	<10	<10	82	<10	82
G087322		<20	<0.01	<10	<10	43	<10	53
G087323		<20	<0.01	<10	<10	58	<10	65
G087324		<20	<0.01	<10	<10	94	<10	62
G087325		<20	<0.01	<10	<10	83	10	67
G087326		<20	<0.01	<10	<10	120	<10	93
G087327		<20	<0.01	<10	<10	132	<10	102
G087328		<20	<0.01	<10	<10	134	<10	166
G087329		<20	<0.01	<10	<10	156	<10	141
G087330		<20	<0.01	<10	<10	132	<10	135
G087331		<20	<0.01	<10	<10	108	<10	117
G087332		<20	<0.01	<10	<10	79	<10	80
G087333		<20	<0.01	<10	<10	162	<10	86
G087334		<20	0.01	<10	<10	195	<10	122
G087335		<20	<0.01	<10	<10	34	<10	42
G087336		<20	<0.01	<10	<10	4	<10	23
G087337		20	<0.01	<10	<10	6	<10	22
G087338		<20	<0.01	<10	<10	41	<10	38
G087339		20	<0.01	<10	<10	6	<10	24
G087340		<20	<0.01	<10	<10	3	<10	13
G087341		<20	<0.01	<10	<10	14	<10	35
G087342		<20	<0.01	<10	<10	89	<10	90
G087343		<20	0.01	<10	<10	170	<10	87
G087344		<20	<0.01	<10	<10	208	<10	105
G087345		<20	<0.01	<10	<10	129	<10	80
G087346		<20	<0.01	<10	<10	137	<10	71
G087347		<20	<0.01	<10	<10	126	<10	82
G087348		<20	<0.01	<10	<10	162	<10	133
G087349		<20	0.01	<10	<10	181	<10	103
G087350		<20	0.26	<10	<10	180	<10	70



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Sample Description	Method Analyte Units LOR	WEI-21	Au-AA26	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.	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%
		0.02	0.01	0.2	0.01	2	10	10	0.5	2	0.01	0.5	1	1	1	0.01
C107910		1.56	<0.01	<0.2	3.22	11	<10	10	<0.5	<2	7.07	<0.5	29	184	51	4.91
C107911		0.72	<0.01	0.2	2.81	9	<10	20	<0.5	<2	4.61	<0.5	25	180	95	4.29
C107912		0.55	<0.01	<0.2	4.53	20	<10	10	<0.5	<2	6.34	<0.5	31	219	61	6.31



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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
		Ga	Hg	K	La	Mg	Mn	Mo	Na	Ni	P	Pb	S	Sb	Sc
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	ppm	%	ppm	ppm
		10	1	0.01	10	0.01	5	1	0.01	1	10	2	0.01	2	1
C107910		10	<1	0.06	<10	2.89	1135	<1	0.05	94	500	<2	0.10	4	13
C107911		10	<1	0.04	<10	2.61	699	<1	0.06	84	470	<2	0.10	2	15
C107912		10	<1	0.02	<10	4.11	1075	<1	0.03	92	600	<2	0.03	2	24



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Project: Hartless Joe

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Finalized Date: 2-OCT-2008

Account: RCM

## CERTIFICATE OF ANALYSIS VA08129713

Sample Description	Method	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
	Analyte	Th	Ti	Tl	U	V	W	Zn
	Units	ppm	%	ppm	ppm	ppm	ppm	ppm
	LOR	20	0.01	10	10	1	10	2
C107910		<20	0.33	<10	<10	177	<10	65
C107911		<20	0.44	<10	<10	180	<10	58
C107912		<20	0.32	<10	<10	251	<10	73