



ALS Canada Ltd.  
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North Vancouver BC V7H 0A7  
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To: **NORTHERN TIGER RESOURCES**  
**220 - 17010 103RD AVE.**  
**EDMONTON AB T5S 1K7**

Page: 1  
Finalized Date: 3-SEP-2011  
Account: NOTIRE

**CERTIFICATE WH11146303**

Project: Sonora

P.O. No.: Batch 10

This report is for 129 Drill Core samples submitted to our lab in Whitehorse, YT, Canada on 29-JUL-2011.

The following have access to data associated with this certificate:

G. HAYES

DENNIS OUELLETTE

BONNIE POLLRIES

**SAMPLE PREPARATION**

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

**ANALYTICAL PROCEDURES**

ALS CODE	DESCRIPTION	INSTRUMENT
Au-ICP22	Au 50g FA ICP-AES finish	ICP-AES
ME-MS61	48 element four acid ICP-MS	

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**ATTN: G. HAYES**  
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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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Page: 2 - A  
Total # Pages: 5 (A - D)  
Plus Appendix Pages  
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**CERTIFICATE OF ANALYSIS WH11146303**

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP22 Au ppm	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
K520684		3.33	0.085	0.65	5.71	675	540	1.50	4.32	2.91	0.92	64.6	10.9	65	5.06	21.9
K520685		4.89	0.028	0.49	6.64	262	850	1.59	3.63	3.09	0.48	58.9	7.3	37	7.64	10.3
K520686		3.36	0.034	0.24	7.06	16.3	1310	1.75	2.14	2.46	0.44	44.4	5.1	38	6.73	9.1
K520687		4.04	0.060	0.32	6.21	165.5	1250	1.41	3.32	2.68	0.42	58.5	6.0	40	7.36	10.4
K520688		4.05	0.044	0.17	6.14	13.1	1230	1.45	3.92	2.72	0.24	47.2	6.1	41	4.62	6.1
K520689		3.78	0.042	0.21	6.70	9.4	750	1.66	4.28	2.55	0.40	47.4	7.7	24	3.48	11.7
K520690		4.85	0.020	0.18	6.82	9.6	1400	1.77	4.51	3.66	0.44	48.5	4.1	34	4.18	14.3
K520691		2.29	0.050	0.35	7.21	478	1190	1.82	3.57	1.97	0.81	48.6	6.8	16	7.62	35.2
K520692		3.69	0.030	0.25	6.08	26.8	990	1.24	1.25	3.01	0.52	41.8	4.7	7	6.82	8.9
K520693		3.33	0.037	0.18	7.49	23.5	1390	1.74	1.57	2.57	0.41	47.4	8.1	15	7.68	8.0
K520694		4.40	0.022	0.17	7.46	10.7	1260	1.84	1.66	2.82	0.49	49.1	7.4	14	6.28	9.9
K520695		3.68	0.031	0.69	7.30	57.3	1150	1.57	4.35	2.69	0.62	48.3	8.0	17	5.64	18.7
K520696		4.41	0.024	0.31	6.98	125.5	1180	1.80	0.66	2.58	0.76	41.3	6.0	13	6.48	13.6
K520697		2.18	0.043	0.66	8.44	776	1310	1.73	1.20	3.26	1.52	49.3	5.1	20	8.12	38.3
K520698		2.26	0.045	0.47	8.25	696	1270	1.64	0.81	3.03	1.11	47.3	5.0	13	7.80	33.4
K520699		2.23	0.002	0.04	0.10	<5	20	0.07	0.03	20.7	0.05	1.38	0.6	<1	0.55	2.2
K520700		4.71	0.020	0.21	8.23	38.2	1560	1.52	0.83	2.74	2.30	53.2	5.6	11	6.45	8.8
K520701		4.93	0.033	0.89	8.31	487	1190	1.55	1.20	2.64	2.01	48.6	8.5	16	7.43	21.0
K520702		4.07	0.013	0.17	8.43	199.5	1410	1.69	0.48	3.22	0.40	50.7	6.4	37	7.51	23.3
K520703		3.31	0.018	0.24	8.26	238	1590	1.68	0.56	2.47	1.21	48.7	7.2	15	7.21	21.6
K520704		4.01	0.005	0.25	7.81	44.7	600	1.30	0.45	2.62	0.61	45.6	6.1	19	4.45	17.8
K520705		3.81	0.010	0.69	7.79	183.5	780	1.59	0.50	2.83	0.83	41.6	5.2	15	4.64	21.2
K520706		3.49	0.006	0.28	7.56	30.0	1500	1.76	0.56	2.17	0.80	38.6	8.8	23	4.97	16.2
K520707		3.91	0.008	0.31	7.20	79.5	1500	1.71	0.54	2.33	1.20	37.5	5.9	15	9.24	18.9
K520708		4.19	0.010	0.38	6.91	160.5	680	1.77	0.85	2.81	1.20	35.9	8.2	17	8.31	29.0
K520709		3.49	0.015	0.64	7.13	140.5	1320	1.76	0.68	2.81	1.16	37.0	8.4	16	8.02	28.6
K520710		3.53	0.035	0.41	7.23	683	1180	1.85	0.50	2.59	1.46	38.5	4.5	24	5.34	17.2
K520711		4.06	0.032	1.67	7.15	849	900	1.71	0.77	2.68	3.97	37.8	6.7	15	4.96	39.7
K520712		3.17	0.033	0.56	7.29	610	1250	1.84	0.70	2.84	1.42	37.4	3.5	25	5.94	29.3
K520713		4.70	0.029	0.96	7.49	915	920	1.82	1.43	2.90	1.67	43.8	10.9	19	4.36	51.0
K520714		3.28	0.024	0.91	7.13	512	900	1.81	1.15	2.79	1.22	40.7	5.9	15	3.89	44.1
K520715		4.25	0.043	0.84	7.08	863	950	1.72	1.21	3.08	1.15	39.5	5.5	14	3.66	42.2
K520716		3.06	0.026	1.07	6.81	353	840	1.68	1.61	3.06	2.01	36.1	6.9	19	4.63	30.3
K520717		4.08	0.018	1.70	7.37	456	1040	1.86	1.41	2.74	3.53	42.0	8.2	17	6.02	101.0
K520718		3.84	0.033	1.28	7.51	241	1140	1.84	6.01	2.57	1.22	45.4	6.4	20	6.85	85.1
K520719		3.77	0.066	1.87	7.55	612	800	1.81	4.10	2.39	1.23	44.1	7.7	15	7.15	68.3
K520720		3.56	0.015	0.75	7.02	100.5	1180	1.77	1.72	2.49	0.42	36.9	6.6	17	6.40	57.2
K520721		4.40	0.028	1.14	7.44	369	1120	1.83	1.28	2.43	2.25	42.0	6.7	15	6.78	106.5
K520722		3.91	0.062	1.76	7.16	1305	1020	1.87	1.29	2.59	2.98	38.9	7.2	21	8.96	90.5
K520723		4.36	0.042	1.07	7.10	665	1060	1.82	1.37	2.52	1.17	40.2	6.1	15	5.55	92.0



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Page: 2 - B  
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Sample Description	Method Analyte Units LOR	ME-MS61 Fe %	ME-MS61 Ga ppm	ME-MS61 Ge ppm	ME-MS61 Hf ppm	ME-MS61 In ppm	ME-MS61 K %	ME-MS61 La ppm	ME-MS61 Li ppm	ME-MS61 Mg %	ME-MS61 Mn ppm	ME-MS61 Mo ppm	ME-MS61 Na %	ME-MS61 Nb ppm	ME-MS61 Ni ppm	ME-MS61 P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
K520684		3.49	15.85	0.14	0.6	0.174	1.92	31.6	12.4	1.14	310	1.60	0.67	8.8	29.0	630
K520685		2.87	16.65	0.12	0.9	0.108	2.68	30.3	12.5	0.97	264	1.37	0.90	8.1	14.6	650
K520686		2.25	17.20	0.11	1.5	0.104	2.77	22.0	14.3	0.97	208	4.09	1.52	6.9	11.1	620
K520687		2.57	16.20	0.14	0.9	0.149	3.00	29.6	11.5	0.90	245	4.42	0.95	7.7	14.9	610
K520688		2.86	15.90	0.12	0.9	0.215	2.62	22.8	13.5	1.06	333	3.33	1.13	8.2	17.4	620
K520689		3.47	17.15	0.15	1.2	0.217	2.80	22.7	12.5	1.13	390	3.21	1.86	7.3	16.1	580
K520690		2.30	16.45	0.14	1.1	0.274	2.23	23.0	12.4	0.92	399	3.35	1.98	7.5	13.4	670
K520691		2.64	17.15	0.14	1.2	0.082	2.57	24.0	12.7	0.84	174	0.98	2.05	7.2	6.1	570
K520692		2.00	14.15	0.13	1.0	0.107	2.07	21.3	14.7	0.74	255	0.41	1.23	5.3	3.1	470
K520693		2.56	18.10	0.16	1.4	0.150	2.54	23.1	19.2	0.81	345	1.19	2.27	6.9	4.4	600
K520694		2.64	18.15	0.17	1.4	0.170	2.21	24.0	18.7	0.78	389	1.01	2.43	6.7	4.3	600
K520695		3.44	17.15	0.15	1.2	0.175	2.46	24.3	19.2	0.71	355	1.33	2.05	6.4	4.5	560
K520696		2.20	17.65	0.16	1.2	0.111	2.17	19.0	21.8	0.71	387	1.39	2.20	6.5	4.0	540
K520697		2.76	20.6	0.20	1.5	0.124	2.68	24.2	17.5	0.85	332	1.16	2.35	7.3	4.7	660
K520698		2.52	18.95	0.18	1.5	0.109	2.69	24.6	15.3	0.82	305	0.70	2.21	6.8	3.9	630
K520699		0.47	0.30	0.13	<0.1	0.005	0.04	0.7	1.5	12.85	204	0.15	0.01	0.2	1.3	210
K520700		2.63	19.25	0.22	1.4	0.105	2.63	29.8	17.9	0.82	385	0.98	2.76	6.9	3.8	610
K520701		2.85	18.95	0.22	1.5	0.055	2.76	25.6	15.1	0.85	275	3.20	2.46	6.7	4.0	620
K520702		2.60	20.1	0.22	1.4	0.083	2.37	27.3	21.7	1.03	373	1.31	2.62	7.5	16.2	650
K520703		2.66	18.30	0.20	1.3	0.069	2.62	27.6	14.7	0.82	257	0.92	2.81	6.6	4.3	620
K520704		2.58	17.95	0.17	1.1	0.066	2.05	24.0	13.4	0.80	231	1.10	2.60	6.5	4.3	600
K520705		2.41	19.00	0.16	1.2	0.060	2.29	21.4	13.3	0.78	214	0.91	2.63	6.7	4.7	630
K520706		2.37	17.75	0.15	1.1	0.066	2.59	18.5	16.6	0.78	245	1.54	2.70	7.6	4.7	610
K520707		2.41	17.90	0.15	1.1	0.075	2.59	17.1	20.4	0.68	270	0.80	2.23	7.3	4.6	580
K520708		2.74	17.75	0.17	1.0	0.038	2.36	16.5	23.7	0.72	221	0.84	0.93	7.0	4.8	570
K520709		2.46	18.10	0.16	1.2	0.054	2.59	17.3	35.8	0.58	270	0.89	1.46	7.5	4.6	590
K520710		2.14	18.30	0.16	1.1	0.076	2.57	18.2	21.0	0.75	299	1.44	2.38	7.5	4.7	600
K520711		2.24	18.15	0.17	1.0	0.066	2.51	17.9	16.4	0.75	264	0.84	2.12	7.2	4.7	590
K520712		2.52	18.85	0.18	1.0	0.089	2.78	17.7	18.0	0.84	285	0.76	2.14	7.5	8.4	600
K520713		2.59	18.55	0.18	1.0	0.026	2.79	21.3	11.1	0.75	206	0.95	1.58	6.9	4.8	590
K520714		2.29	17.30	0.16	1.0	0.021	2.66	19.9	10.5	0.69	185	0.72	1.54	6.4	5.1	570
K520715		2.19	17.45	0.17	1.0	0.021	2.86	18.9	10.6	0.69	213	0.72	1.27	6.2	4.8	580
K520716		2.33	17.30	0.15	1.1	0.021	2.82	16.9	11.3	0.68	192	1.03	1.40	6.2	4.6	580
K520717		2.50	17.85	0.17	1.2	0.031	2.93	20.4	12.1	0.73	175	1.00	1.49	6.0	5.0	600
K520718		2.54	19.10	0.17	1.3	0.027	3.07	22.5	13.2	0.79	146	1.16	1.56	5.9	5.5	590
K520719		3.06	18.95	0.18	1.3	0.025	3.36	21.9	14.3	0.80	155	0.99	1.41	5.6	4.8	590
K520720		2.45	18.10	0.16	1.2	0.015	2.91	17.6	13.3	0.73	153	1.16	1.72	6.0	5.0	570
K520721		2.56	18.40	0.17	1.2	0.029	2.96	20.5	15.0	0.80	154	1.09	1.73	6.2	5.1	580
K520722		2.63	17.70	0.16	1.2	0.033	3.12	18.6	13.5	0.75	175	1.57	1.46	5.9	5.0	590
K520723		2.45	18.15	0.16	1.2	0.025	2.82	19.2	15.4	0.78	175	1.04	1.66	5.8	4.9	590



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Page: 2 - C  
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Sample Description	Method Analyte Units LOR	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1
K520684		26.7	126.0	0.002	2.72	13.10	10.2	1	5.0	169.5	0.67	0.36	11.0	0.286	1.32	5.4
K520685		26.5	145.5	<0.002	2.36	15.40	8.6	1	3.6	252	0.62	0.35	9.8	0.263	1.63	3.9
K520686		21.3	110.5	<0.002	1.54	6.15	7.7	1	3.1	396	0.53	0.23	7.8	0.242	1.38	4.0
K520687		19.6	134.0	0.002	1.66	12.75	8.1	1	4.0	268	0.57	0.58	8.9	0.260	1.64	4.2
K520688		14.5	98.7	0.002	1.72	3.53	7.9	1	3.5	325	0.61	0.51	8.2	0.268	1.12	3.5
K520689		20.1	95.4	0.002	2.23	2.07	7.4	<1	3.4	487	0.55	0.27	7.1	0.253	1.12	3.5
K520690		23.3	74.8	0.002	0.68	1.77	8.4	<1	2.9	679	0.62	0.30	7.7	0.265	1.03	4.1
K520691		34.4	106.5	<0.002	1.85	2.25	6.7	1	4.6	512	0.58	0.47	9.2	0.229	1.20	5.3
K520692		34.2	86.8	<0.002	1.11	2.09	5.0	1	2.0	451	0.43	0.10	7.0	0.180	0.97	3.5
K520693		34.4	99.5	<0.002	1.07	1.48	6.4	1	2.9	712	0.56	0.08	8.3	0.229	1.25	3.9
K520694		32.0	86.9	<0.002	0.85	1.56	6.4	<1	2.8	793	0.55	0.20	8.7	0.219	1.22	4.7
K520695		47.4	104.0	<0.002	2.05	2.36	6.1	1	2.7	599	0.53	0.21	8.7	0.221	1.39	3.5
K520696		35.2	77.7	<0.002	0.56	2.44	6.8	<1	3.2	674	0.52	<0.05	7.3	0.216	1.21	3.7
K520697		44.6	110.0	<0.002	1.08	4.60	6.8	1	3.5	659	0.61	0.13	8.4	0.261	1.68	4.4
K520698		35.2	119.5	<0.002	0.94	4.27	6.4	1	3.4	623	0.58	0.07	8.5	0.251	1.70	4.0
K520699		1.6	2.6	<0.002	<0.01	<0.05	0.2	<1	0.2	45.9	<0.05	<0.05	<0.2	<0.005	0.02	0.3
K520700		26.5	103.5	<0.002	1.03	2.26	6.8	1	2.6	836	0.56	0.10	9.0	0.247	1.19	4.4
K520701		130.5	137.0	<0.002	1.72	32.7	6.5	2	2.6	606	0.55	0.16	9.0	0.249	1.54	4.8
K520702		20.3	99.6	<0.002	0.78	9.04	7.8	1	2.2	672	0.60	0.06	8.5	0.263	1.21	4.4
K520703		26.7	100.5	<0.002	1.24	3.81	6.5	1	2.2	671	0.58	0.05	8.8	0.243	1.12	4.4
K520704		22.8	94.4	<0.002	1.58	6.01	6.1	1	1.8	355	0.54	0.07	8.4	0.235	1.08	3.8
K520705		56.2	95.9	<0.002	1.69	3.04	6.1	1	1.9	431	0.56	0.07	7.6	0.238	1.13	3.8
K520706		31.9	88.3	<0.002	1.40	2.81	6.1	1	1.7	576	0.52	0.05	7.5	0.230	1.10	3.7
K520707		35.2	98.3	<0.002	1.37	4.48	5.9	1	2.1	560	0.52	0.05	7.1	0.221	1.31	3.4
K520708		32.5	101.0	<0.002	1.95	7.81	5.8	1	1.9	255	0.50	0.05	6.7	0.215	1.38	3.3
K520709		83.6	94.4	<0.002	1.32	8.54	5.9	1	2.1	405	0.53	0.05	6.9	0.231	1.39	3.9
K520710		88.7	92.3	<0.002	1.03	19.35	6.0	1	2.3	547	0.53	<0.05	7.1	0.226	1.18	3.5
K520711		150.5	100.0	<0.002	1.49	5.11	5.9	1	2.2	430	0.51	0.06	6.9	0.223	1.20	3.2
K520712		43.6	101.5	<0.002	1.53	4.67	6.3	1	2.9	574	0.51	0.05	6.7	0.232	1.32	3.4
K520713		44.4	122.5	<0.002	2.33	3.68	6.2	2	2.5	287	0.49	0.05	8.0	0.214	1.29	3.4
K520714		25.0	114.5	<0.002	2.11	2.72	5.9	2	1.9	262	0.45	0.09	7.2	0.196	1.17	3.0
K520715		31.1	117.0	<0.002	1.97	2.80	5.7	2	2.1	201	0.44	0.18	7.0	0.188	1.24	3.1
K520716		52.1	112.5	<0.002	2.20	2.91	5.5	1	2.3	285	0.45	0.21	6.4	0.192	1.21	2.8
K520717		86.3	130.0	<0.002	2.38	5.05	5.9	2	2.2	346	0.43	0.14	7.7	0.189	1.24	3.4
K520718		25.8	138.0	<0.002	2.28	2.63	6.1	2	2.2	386	0.43	1.39	8.0	0.187	1.37	3.8
K520719		126.0	157.5	<0.002	2.91	3.26	6.1	2	2.7	356	0.41	0.94	7.8	0.178	1.44	3.9
K520720		12.0	118.0	<0.002	2.00	2.06	5.6	1	2.0	391	0.42	0.27	6.9	0.187	1.21	3.3
K520721		25.1	131.0	<0.002	2.01	3.24	6.0	2	2.0	395	0.44	0.18	7.8	0.198	1.31	3.6
K520722		135.0	135.5	<0.002	2.16	4.59	5.7	2	2.2	370	0.43	0.18	6.9	0.188	1.40	3.4
K520723		35.8	117.5	<0.002	1.93	3.18	5.9	2	2.0	402	0.43	0.17	7.1	0.184	1.20	3.3



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
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 220 - 17010 103RD AVE.  
 EDMONTON AB T5S 1K7

Page: 2 - D  
 Total # Pages: 5 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 3-SEP-2011  
 Account: NOTIRE

Project: Sonora

**CERTIFICATE OF ANALYSIS WH11146303**

Sample Description	Method Analyte Units LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
K520684		92	4.3	15.7	74	17.8
K520685		75	4.0	13.0	44	25.9
K520686		66	4.6	11.5	45	43.9
K520687		75	6.2	14.2	46	26.3
K520688		73	5.6	13.4	38	24.0
K520689		65	5.0	10.7	55	34.5
K520690		74	3.5	15.0	62	29.5
K520691		53	3.4	12.1	74	33.7
K520692		41	2.5	10.3	53	29.0
K520693		52	3.5	10.9	58	36.9
K520694		51	3.0	11.4	64	36.4
K520695		52	4.3	10.8	73	33.0
K520696		49	2.3	11.7	94	32.6
K520697		60	2.3	11.8	129	39.6
K520698		57	2.2	11.0	102	37.8
K520699		3	0.1	0.9	16	<0.5
K520700		55	1.8	11.8	173	39.0
K520701		57	2.4	11.3	165	39.4
K520702		62	2.6	12.1	64	36.1
K520703		56	1.5	11.0	152	31.1
K520704		55	1.3	10.3	67	27.5
K520705		55	2.3	10.6	77	30.6
K520706		53	2.2	9.4	85	32.8
K520707		52	2.9	8.8	115	29.6
K520708		52	4.2	8.5	111	28.4
K520709		54	2.6	8.8	106	31.8
K520710		53	2.2	8.6	120	29.4
K520711		54	2.5	7.9	265	26.9
K520712		58	2.6	8.2	115	28.3
K520713		53	3.6	8.4	116	26.6
K520714		51	4.8	8.2	82	27.9
K520715		51	6.4	8.3	74	28.5
K520716		50	5.2	7.6	135	30.8
K520717		52	4.8	8.1	210	32.4
K520718		51	4.2	8.2	91	35.8
K520719		51	4.4	8.3	90	35.7
K520720		49	3.6	7.4	37	34.1
K520721		52	4.8	7.9	142	34.2
K520722		51	5.2	7.4	195	34.2
K520723		51	5.0	7.3	78	32.5



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2103 Dollarton Hwy  
North Vancouver BC V7H 0A7  
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220 - 17010 103RD AVE.  
EDMONTON AB T5S 1K7

Page: 3 - A  
Total # Pages: 5 (A - D)  
Plus Appendix Pages  
Finalized Date: 3-SEP-2011  
Account: NOTIRE

Project: Sonora

**CERTIFICATE OF ANALYSIS WH11146303**

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP22 Au ppm	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
K520724		3.95	0.017	1.16	7.02	289	970	1.81	1.87	2.92	0.78	39.3	5.0	17	4.03	127.5
K520725		4.60	0.045	4.50	7.57	327	940	1.69	20.3	2.38	3.07	47.2	7.4	16	5.60	196.0
K520726		4.28	0.025	0.91	7.51	615	1420	1.71	1.52	2.33	1.13	45.9	7.0	17	6.96	99.2
K520727		4.23	0.021	1.92	7.57	513	1620	1.65	1.05	2.49	3.64	45.5	6.0	16	7.29	115.0
K520728		4.18	0.039	1.29	7.13	613	1180	1.70	1.96	2.52	0.69	38.3	6.9	20	5.42	102.0
K520729		4.12	0.028	1.05	7.54	306	1130	1.72	1.48	2.70	0.59	43.3	5.8	18	6.74	122.0
K520730		4.04	0.024	1.49	7.52	271	1240	1.52	4.00	3.00	1.15	44.6	7.5	21	5.80	58.4
K520731		3.92	0.014	1.11	7.45	96.4	1100	1.66	4.15	2.61	0.52	45.2	5.6	14	5.26	75.6
K520732		2.28	0.046	3.40	7.46	909	1170	1.72	2.72	2.55	2.32	43.7	7.5	18	8.51	41.8
K520733		1.97	0.103	28.1	7.05	1540	1100	1.63	2.64	2.46	7.96	34.3	7.5	18	8.24	200
K520734		1.84	0.001	0.05	0.13	<5	30	0.11	0.03	20.7	0.06	1.31	1.4	<1	0.86	2.2
K520735		3.84	0.007	0.67	7.36	152.0	1160	1.66	1.02	2.69	0.63	40.2	6.8	16	5.34	72.0
K520736		4.36	0.010	1.85	7.22	417	1090	1.68	1.12	2.40	1.53	38.9	6.3	22	5.04	53.7
K520737		4.19	0.013	0.62	7.49	502	960	1.65	0.61	2.43	0.61	45.5	6.0	17	7.73	69.5
K520738		3.81	0.032	1.77	7.35	788	1320	1.75	1.34	2.34	2.36	45.9	5.9	26	9.93	109.0
K520739		4.36	0.060	1.06	7.11	1175	850	1.62	8.71	2.36	1.13	37.5	6.5	18	9.33	85.5
K520740		4.15	0.012	0.46	7.15	151.0	1550	1.69	1.02	2.19	0.61	37.5	5.8	32	5.52	72.7
K520741		4.60	0.026	1.51	7.41	930	1220	1.77	0.96	2.32	1.43	40.3	7.0	17	8.01	65.6
K520742		4.17	0.015	0.58	7.57	399	950	1.63	1.06	2.88	0.58	48.9	6.6	17	6.89	52.2
K520743		3.99	0.022	0.82	7.70	403	820	1.62	1.12	3.04	0.87	50.7	6.5	26	6.60	83.6
K520744		4.38	0.017	0.69	7.68	151.5	880	1.58	1.51	2.87	1.56	40.6	6.8	26	9.06	15.5
K520745		4.39	0.011	1.43	7.93	351	970	1.55	0.91	2.83	0.67	44.5	4.6	31	8.62	103.5
K520746		4.08	0.019	0.70	7.63	389	1210	1.50	1.72	2.91	0.66	42.8	5.8	18	7.39	60.2
K520747		4.24	0.033	0.92	7.94	192.0	1430	1.44	4.20	2.69	0.60	40.7	7.5	19	7.51	80.7
K520748		4.46	0.044	2.84	7.97	785	1250	1.43	2.18	2.68	3.06	40.7	5.1	28	8.90	126.5
K520749		4.82	0.050	1.66	7.55	345	1250	1.55	3.29	2.73	3.46	43.8	6.1	24	10.55	96.5
K520750		4.18	0.031	0.99	7.50	58.4	1200	1.51	4.85	3.06	0.50	39.3	5.8	23	7.65	97.8
K520751		5.03	0.196	3.13	7.65	605	1690	1.36	10.10	2.69	2.67	42.8	6.5	15	7.62	408
K520752		3.62	0.067	2.71	7.44	335	1970	1.29	12.10	2.86	1.94	52.4	6.9	16	7.33	226
K520753		4.22	0.255	3.64	7.62	1070	2060	1.60	17.50	2.90	4.84	39.6	6.3	16	8.88	323
K520754		4.39	0.076	1.55	7.62	157.5	1650	1.46	4.82	2.51	0.97	38.5	6.1	17	7.45	185.5
K520755		4.44	0.051	1.07	7.58	229	1290	1.40	3.02	2.88	0.83	40.0	6.8	15	4.18	71.8
K520756		4.35	0.311	5.83	7.78	722	1770	1.54	5.90	2.68	3.92	45.9	6.2	19	5.42	976
K520757		4.06	0.090	1.71	7.56	203	1110	1.59	2.54	2.72	1.12	39.5	11.0	20	6.84	252
K520758		4.09	0.045	1.77	7.97	261	1280	1.51	1.61	2.59	1.04	49.5	6.1	17	7.46	302
K520759		4.14	0.157	13.45	7.67	2160	1410	1.51	3.06	2.34	47.5	44.6	6.6	22	9.61	108.5
K520760		4.34	0.142	1.35	7.43	852	1330	1.56	3.88	2.58	2.34	39.1	6.7	14	9.58	23.9
K520761		4.32	0.030	0.98	7.74	181.0	1530	1.52	3.37	2.38	2.07	40.1	6.4	17	7.34	109.0
K520762		4.23	0.038	1.63	7.27	405	1870	1.32	3.60	2.11	1.20	40.4	5.8	14	9.32	91.6
K520763		4.35	0.049	5.17	7.66	740	1580	1.45	2.54	2.65	5.10	51.8	6.1	17	6.49	301



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2103 Dollarton Hwy  
North Vancouver BC V7H 0A7  
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To: NORTHERN TIGER RESOURCES  
220 - 17010 103RD AVE.  
EDMONTON AB T5S 1K7

Page: 3 - B  
Total # Pages: 5 (A - D)  
Plus Appendix Pages  
Finalized Date: 3-SEP-2011  
Account: NOTIRE

Project: Sonora

**CERTIFICATE OF ANALYSIS WH11146303**

Sample Description	Method Analyte Units LOR	ME-MS61 Fe %	ME-MS61 Ga ppm	ME-MS61 Ge ppm	ME-MS61 Hf ppm	ME-MS61 In ppm	ME-MS61 K %	ME-MS61 La ppm	ME-MS61 Li ppm	ME-MS61 Mg %	ME-MS61 Mn ppm	ME-MS61 Mo ppm	ME-MS61 Na %	ME-MS61 Nb ppm	ME-MS61 Ni ppm	ME-MS61 P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
K520724		2.17	17.90	0.16	1.2	0.030	2.78	18.8	14.3	0.76	171	1.23	1.45	5.8	5.3	580
K520725		2.79	17.90	0.18	1.3	0.047	3.87	23.1	15.8	0.75	141	1.39	1.26	5.2	5.0	590
K520726		2.47	18.70	0.17	1.3	0.026	3.94	22.2	14.7	0.79	144	1.18	1.36	5.1	5.2	590
K520727		2.37	18.40	0.17	1.3	0.048	3.73	22.4	14.0	0.78	149	1.00	1.52	5.5	5.3	590
K520728		2.50	18.45	0.15	1.3	0.021	3.15	18.1	15.4	0.75	153	1.47	1.66	6.0	4.9	590
K520729		2.62	19.00	0.17	1.3	0.020	3.16	21.4	16.0	0.84	153	1.14	1.52	5.9	5.7	600
K520730		2.68	18.55	0.18	1.3	0.017	3.91	22.3	15.1	0.85	185	1.19	0.75	5.7	5.5	590
K520731		2.62	18.50	0.18	1.3	0.017	3.19	22.0	15.4	0.81	152	0.96	1.37	5.6	4.8	590
K520732		2.76	18.60	0.19	1.2	0.019	3.78	21.4	14.3	0.82	168	1.14	1.14	6.4	4.9	600
K520733		2.69	18.85	0.16	1.2	0.044	3.68	16.5	15.0	0.80	166	1.09	1.04	6.0	4.8	580
K520734		0.46	0.48	0.16	<0.1	<0.005	0.07	0.6	1.9	13.05	224	0.08	<0.01	0.4	2.7	210
K520735		2.63	19.65	0.18	1.3	0.011	3.01	18.9	13.2	0.77	154	1.19	1.86	6.2	5.0	610
K520736		2.65	18.55	0.19	1.1	0.026	2.74	18.7	16.4	0.83	150	1.64	1.99	6.4	5.6	590
K520737		2.63	19.15	0.20	1.1	0.016	2.91	22.4	15.9	0.81	139	1.28	1.73	5.7	5.4	590
K520738		3.00	19.10	0.16	1.2	0.028	3.27	22.5	17.9	0.89	157	1.45	1.31	5.8	9.0	590
K520739		2.80	17.40	0.17	1.2	0.028	4.09	17.8	18.0	0.76	145	1.30	0.80	5.7	7.3	580
K520740		2.77	18.65	0.16	1.3	0.017	4.07	17.9	20.5	1.00	142	1.10	1.28	6.1	11.5	620
K520741		2.30	19.10	0.17	1.2	0.021	3.41	19.4	17.3	0.81	149	1.25	1.56	6.6	5.1	600
K520742		2.59	18.30	0.10	1.2	0.013	3.00	25.2	12.3	0.82	159	1.29	1.39	6.1	6.2	590
K520743		3.01	19.35	0.12	1.2	0.016	2.81	26.6	11.9	0.86	162	1.13	1.27	6.0	11.7	590
K520744		2.57	18.75	0.11	1.2	0.019	3.01	20.2	12.5	0.89	152	0.99	1.43	6.2	9.7	590
K520745		2.73	19.05	0.11	1.1	0.013	3.21	23.4	13.3	0.94	156	1.46	1.53	5.9	10.3	590
K520746		2.65	18.40	0.13	1.3	0.011	3.44	23.2	11.6	0.84	138	0.99	1.34	5.9	7.2	590
K520747		3.25	19.05	0.13	1.4	0.012	3.99	20.8	12.9	0.88	131	1.29	1.05	5.3	8.5	610
K520748		3.13	18.60	0.12	1.4	0.022	3.87	21.7	12.6	1.00	161	1.11	1.05	5.7	12.7	630
K520749		2.78	18.15	0.13	1.3	0.024	3.85	22.9	11.4	0.90	142	1.57	0.94	6.1	8.5	570
K520750		2.55	17.40	0.11	1.3	0.021	3.83	20.0	10.2	0.81	151	1.55	0.72	5.4	6.7	570
K520751		2.59	17.55	0.12	1.3	0.057	4.53	22.3	9.9	0.82	168	1.11	0.64	5.5	6.3	570
K520752		2.45	16.30	0.13	1.2	0.047	4.85	28.3	8.9	0.76	170	1.32	0.71	5.8	5.3	570
K520753		2.76	16.70	0.13	1.2	0.053	4.96	19.4	8.0	0.72	173	1.38	0.64	5.5	5.9	580
K520754		2.73	17.05	0.12	1.2	0.032	4.78	19.8	10.1	0.93	150	1.05	0.47	4.9	7.0	600
K520755		2.28	16.05	0.11	1.1	0.020	3.75	20.4	11.6	0.90	150	0.98	0.87	5.4	5.9	580
K520756		2.50	17.55	0.13	1.1	0.087	4.47	24.2	10.3	0.91	156	1.22	0.94	5.5	6.7	600
K520757		2.62	17.35	0.11	1.0	0.043	3.57	20.4	9.9	0.79	157	1.14	1.15	5.7	7.3	600
K520758		2.52	17.95	0.12	1.1	0.051	3.62	26.4	11.3	0.87	156	0.85	1.58	5.9	6.7	610
K520759		3.16	17.90	0.14	1.1	0.377	4.72	22.7	9.8	0.83	183	1.16	0.60	5.6	7.3	590
K520760		2.63	16.70	0.12	1.0	0.027	3.91	18.9	10.5	0.79	160	0.96	1.01	5.2	6.1	560
K520761		2.56	16.10	0.11	1.1	0.031	3.80	21.0	10.8	0.84	152	1.24	1.72	5.6	6.6	590
K520762		2.55	15.75	0.12	1.1	0.024	4.63	21.0	8.1	0.71	143	1.17	0.89	5.6	5.7	560
K520763		2.66	16.60	0.12	1.1	0.066	4.24	27.5	8.7	0.89	161	1.08	0.90	6.1	6.3	590





ALS Canada Ltd.  
2103 Dollarton Hwy  
North Vancouver BC V7H 0A7  
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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Page: 3 - C  
Total # Pages: 5 (A - D)  
Plus Appendix Pages  
Finalized Date: 3-SEP-2011  
Account: NOTIRE

Project: Sonora

**CERTIFICATE OF ANALYSIS WH11146303**

Sample Description	Method Analyte Units LOR	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1
K520724		19.2	108.0	<0.002	1.80	4.32	5.6	2	2.3	309	0.43	0.05	6.8	0.188	1.13	3.0
K520725		175.5	161.0	<0.002	2.55	5.60	6.1	2	2.6	333	0.38	0.99	7.9	0.178	1.44	3.6
K520726		36.2	168.5	<0.002	1.94	4.90	6.0	2	1.8	420	0.37	0.11	8.0	0.165	1.60	3.9
K520727		121.5	165.5	<0.002	1.73	7.57	6.0	2	1.9	406	0.40	0.07	8.1	0.177	1.50	3.8
K520728		69.2	135.5	<0.002	1.91	4.46	5.7	2	2.1	361	0.43	0.28	7.0	0.185	1.32	3.3
K520729		21.8	154.0	<0.002	2.08	7.97	6.1	2	2.0	313	0.44	0.12	7.9	0.189	1.53	3.7
K520730		42.8	184.0	<0.002	2.35	4.33	6.1	2	2.1	250	0.41	0.19	8.1	0.185	1.63	4.0
K520731		37.5	154.0	<0.002	2.03	4.97	5.8	2	2.0	290	0.41	0.33	7.8	0.181	1.41	3.7
K520732		122.0	181.5	<0.002	2.48	29.9	6.1	2	2.3	304	0.45	0.20	7.5	0.201	1.57	3.2
K520733		1495	171.0	<0.002	2.44	500	5.9	2	2.5	282	0.44	0.23	7.1	0.196	1.62	3.1
K520734		2.6	4.2	<0.002	0.01	1.05	0.5	1	<0.2	46.2	<0.05	<0.05	0.4	<0.005	0.03	0.7
K520735		26.9	121.5	<0.002	1.60	5.76	5.8	1	1.9	402	0.45	0.07	7.1	0.197	1.19	3.5
K520736		264	121.0	<0.002	1.59	9.41	5.9	1	1.9	341	0.45	0.08	7.0	0.201	1.17	3.4
K520737		42.8	152.0	<0.002	1.60	5.83	6.2	2	1.8	297	0.42	0.07	7.9	0.181	1.35	4.0
K520738		192.0	156.5	<0.002	1.90	8.55	6.7	2	1.5	272	0.42	0.17	7.8	0.184	1.68	3.7
K520739		67.7	166.0	<0.002	2.12	7.37	5.8	2	1.6	266	0.42	0.25	6.7	0.183	1.78	3.6
K520740		20.5	135.5	<0.002	1.84	7.52	6.8	1	1.6	373	0.44	0.09	6.4	0.206	1.40	3.6
K520741		103.0	155.0	<0.002	1.59	8.96	6.0	1	1.8	354	0.48	0.07	7.2	0.202	1.52	3.6
K520742		32.6	162.0	<0.002	1.80	4.51	6.3	1	1.7	317	0.51	0.09	8.9	0.190	1.38	4.4
K520743		59.9	147.5	<0.002	2.27	11.40	7.3	1	1.7	265	0.50	0.08	9.3	0.199	1.35	4.7
K520744		61.3	156.5	<0.002	2.13	3.27	6.9	1	1.6	320	0.49	0.10	7.9	0.201	1.35	3.9
K520745		124.5	155.5	<0.002	1.84	3.90	6.7	1	1.7	342	0.48	0.05	8.4	0.199	1.34	4.1
K520746		34.2	161.0	<0.002	1.91	4.29	6.5	1	1.7	337	0.48	0.11	8.1	0.187	1.36	4.2
K520747		36.8	168.5	<0.002	2.48	6.28	6.4	1	1.5	308	0.42	0.29	8.1	0.175	1.68	4.5
K520748		276	177.0	<0.002	2.09	8.53	6.9	1	1.7	305	0.46	0.22	7.7	0.193	1.71	4.1
K520749		92.0	193.0	<0.002	2.26	4.95	6.8	2	1.7	301	0.49	0.41	8.6	0.189	1.68	4.2
K520750		19.4	165.0	<0.002	2.20	2.68	6.1	1	1.6	250	0.43	0.49	7.4	0.174	1.57	4.5
K520751		58.7	179.5	<0.002	2.17	5.34	6.1	1	2.0	290	0.45	0.30	8.2	0.176	1.78	4.6
K520752		78.3	187.0	<0.002	2.08	4.12	6.3	1	2.0	363	0.47	0.28	8.3	0.183	1.81	4.0
K520753		223	187.0	<0.002	2.37	7.77	6.1	2	2.1	408	0.45	0.27	7.0	0.181	1.83	4.9
K520754		46.1	193.5	<0.002	2.24	3.37	6.6	2	2.0	293	0.39	0.39	8.4	0.168	1.73	7.5
K520755		68.8	130.5	<0.002	1.93	1.39	5.7	1	2.3	263	0.42	0.26	6.8	0.181	1.23	4.7
K520756		166.0	174.0	<0.002	2.07	4.18	6.4	2	2.8	343	0.43	0.30	7.7	0.182	1.46	5.9
K520757		38.6	152.0	<0.002	2.21	2.23	6.1	1	2.2	311	0.46	0.11	7.0	0.192	1.47	4.2
K520758		34.1	164.0	<0.002	1.93	2.58	6.6	1	2.0	428	0.48	0.11	8.1	0.197	1.45	4.3
K520759		2220	234	<0.002	2.88	16.40	6.7	2	2.5	299	0.45	0.49	8.7	0.189	1.85	5.3
K520760		147.0	183.5	<0.002	2.39	2.64	6.2	1	2.4	353	0.42	0.75	7.6	0.169	1.62	4.2
K520761		45.1	159.0	<0.002	2.23	1.59	6.3	1	2.2	462	0.44	0.15	7.5	0.185	1.46	4.0
K520762		74.6	192.0	<0.002	2.27	2.25	6.1	1	2.1	377	0.44	0.77	8.2	0.179	1.71	4.6
K520763		378	177.5	<0.002	2.29	4.87	6.1	2	2.3	311	0.46	0.46	7.6	0.194	1.65	4.0





ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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Page: 3 - D  
 Total # Pages: 5 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 3-SEP-2011  
 Account: NOTIRE

Project: Sonora

**CERTIFICATE OF ANALYSIS WH11146303**

Sample Description	Method Analyte Units LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
K520724		51	5.6	7.3	53	34.3
K520725		54	6.9	7.8	189	37.0
K520726		51	3.6	8.4	86	37.6
K520727		50	3.9	8.7	215	35.9
K520728		51	3.6	8.0	54	37.2
K520729		52	4.2	8.5	46	37.7
K520730		53	6.6	8.7	81	36.4
K520731		51	5.1	8.7	45	34.7
K520732		53	4.5	8.3	152	35.0
K520733		53	4.4	7.7	479	33.7
K520734		3	0.1	1.0	15	<0.5
K520735		54	3.4	8.0	51	36.2
K520736		53	2.0	8.3	106	32.0
K520737		51	3.4	9.2	50	31.4
K520738		53	5.4	9.3	145	36.4
K520739		51	6.1	8.8	81	33.7
K520740		59	4.4	8.4	59	39.3
K520741		52	3.5	8.7	98	31.6
K520742		50	3.0	10.3	42	31.2
K520743		54	3.9	9.9	64	32.0
K520744		55	3.3	9.3	103	33.1
K520745		55	3.0	9.2	51	30.4
K520746		50	5.2	9.3	50	33.7
K520747		54	4.6	10.4	54	36.0
K520748		57	5.5	9.4	191	37.3
K520749		52	6.4	10.5	201	35.2
K520750		49	9.3	9.4	41	34.7
K520751		49	9.9	9.0	167	33.2
K520752		48	9.1	8.9	104	32.4
K520753		50	8.4	8.5	334	32.5
K520754		51	12.9	8.6	89	32.7
K520755		50	7.6	7.6	55	28.6
K520756		52	12.0	8.3	237	29.3
K520757		52	6.8	8.1	74	26.8
K520758		53	5.5	8.4	70	28.4
K520759		54	6.4	9.1	2230	28.8
K520760		48	5.7	9.5	119	28.1
K520761		52	5.9	8.2	120	28.0
K520762		47	5.2	8.2	72	29.2
K520763		50	5.5	9.2	267	29.3



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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Page: 4 - A  
 Total # Pages: 5 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 3-SEP-2011  
 Account: NOTIRE

Project: Sonora

**CERTIFICATE OF ANALYSIS WH11146303**

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP22 Au ppm	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
K520764		4.43	0.086	4.85	7.33	275	1560	1.29	9.30	2.39	3.24	38.5	7.2	14	5.88	403
K520765		4.28	0.138	5.60	7.62	1095	1260	1.44	4.45	3.02	6.87	33.5	7.9	24	4.31	181.5
K520766		4.13	0.097	3.59	7.73	880	1390	1.43	1.97	2.37	11.00	39.2	6.6	24	4.90	195.0
K520767		4.37	0.026	1.23	6.93	174.0	1010	1.52	1.71	2.68	0.58	38.3	6.3	30	4.07	142.5
K520768		2.37	0.047	2.77	7.44	396	1320	1.45	2.30	2.69	3.44	39.4	7.6	22	5.71	283
K520769		2.50	0.037	3.28	7.41	357	1380	1.53	2.40	2.50	6.48	38.6	7.4	24	5.66	203
K520770		2.02	0.001	0.02	0.11	5	20	0.08	0.05	20.3	0.06	1.54	1.1	<1	0.19	3.1
K520771		4.05	0.155	8.18	7.07	1185	1140	1.46	4.65	2.45	8.92	33.5	9.1	18	5.26	33.3
K520772		4.55	0.274	5.91	7.19	2390	1410	1.35	3.68	2.19	10.70	38.4	7.3	21	5.60	97.8
K520773		4.63	0.126	4.41	7.59	953	1560	1.42	4.68	2.57	11.45	33.9	7.6	27	5.75	123.5
K520774		4.65	0.078	1.40	7.04	358	1380	1.37	4.18	3.18	0.70	35.5	6.1	23	4.61	117.5
K520775		4.13	0.206	1.81	7.31	1620	1210	1.62	2.13	3.02	3.61	44.9	5.9	26	6.10	177.5
K520776		4.15	0.075	1.35	7.63	427	1540	1.50	2.51	2.69	0.67	46.7	6.2	30	7.14	166.0
K520777		4.13	0.111	1.87	7.54	71.3	1240	1.44	3.94	2.76	0.72	59.9	4.2	34	5.41	392
K520778		4.29	0.116	2.07	8.10	144.5	1940	1.45	3.40	2.24	0.74	54.4	8.1	27	4.94	284
K520779		4.90	0.131	3.78	7.68	766	1470	1.53	3.10	2.34	9.66	44.0	8.3	36	5.02	120.0
K520780		3.90	0.069	2.26	7.69	265	1370	1.47	1.97	2.25	7.18	57.0	7.4	48	6.39	175.5
K520781		5.31	0.067	1.10	7.78	68.8	1420	1.56	5.49	2.23	0.59	48.1	7.2	34	6.15	201
K520782		3.84	0.037	1.22	7.71	210	990	1.59	1.83	2.46	0.52	44.9	4.6	38	6.65	205
K520783		4.42	0.038	1.25	7.94	244	1490	1.53	1.24	2.37	0.60	48.2	4.1	28	7.90	171.5
K520784		4.30	0.063	1.87	7.74	906	1580	1.50	1.88	2.41	0.88	50.2	3.7	27	7.33	210
K520785		4.87	0.587	31.3	7.77	3530	1400	1.58	4.28	2.45	14.15	40.9	3.7	40	7.03	327
K520786		4.15	0.047	1.41	7.63	136.5	1080	1.58	2.18	2.81	0.91	44.0	8.2	29	4.41	195.5
K520787		4.53	0.070	1.55	7.78	373	1270	1.67	2.52	2.55	1.41	44.7	6.8	30	4.99	246
K520788		4.22	0.053	1.39	7.62	257	1180	1.59	1.76	2.48	0.72	47.9	6.0	22	5.76	206
K520789		3.37	0.036	0.92	7.94	35.6	1110	1.57	2.44	2.32	0.44	47.6	8.0	31	7.95	144.5
K520790		5.57	0.036	1.27	7.97	84.3	1490	1.53	2.46	2.29	0.65	45.8	8.1	25	7.47	215
K520791		4.57	0.053	1.40	8.19	432	1180	1.71	3.11	3.08	0.75	49.4	8.4	32	10.30	124.5
K520792		4.78	0.019	1.11	7.59	33.5	820	1.41	2.01	2.96	0.75	31.6	7.4	25	7.08	141.0
K520793		3.70	0.089	2.25	7.90	1815	1270	1.62	3.23	2.84	3.23	45.7	8.4	24	12.10	59.0
K520794		4.57	0.025	1.10	8.13	124.5	1710	1.60	2.42	2.75	0.57	47.4	10.7	35	11.75	135.5
K520795		4.04	0.037	1.86	8.05	108.5	1280	1.72	4.27	3.25	0.91	44.4	7.4	26	12.20	205
K520796		4.39	0.020	0.99	7.24	89.2	620	1.54	3.29	3.12	0.53	29.2	9.2	27	7.81	126.0
K520797		4.17	0.053	0.95	7.28	108.0	1020	1.63	4.53	3.10	0.75	37.4	8.6	29	7.13	86.6
K520798		4.95	0.030	0.76	8.06	167.5	1350	1.79	3.97	2.72	0.64	49.9	9.8	22	9.86	29.5
K520799		3.74	0.038	0.96	7.53	92.1	750	1.59	3.18	3.33	0.60	39.5	8.8	28	8.28	116.0
K520800		4.66	0.029	0.44	7.31	41.7	920	1.65	2.76	3.13	0.47	36.8	8.4	25	9.75	27.2
K520801		4.31	0.019	0.75	8.29	139.0	1260	1.59	3.53	2.59	0.87	11.65	9.7	27	14.70	53.7
K520802		4.05	0.008	0.97	7.90	31.6	880	1.59	10.25	3.34	1.84	49.3	9.7	30	9.68	10.3
K520803		4.17	0.017	0.80	7.43	92.2	710	1.68	2.48	2.79	1.39	39.3	7.3	22	11.55	19.8



ALS Canada Ltd.  
2103 Dollarton Hwy  
North Vancouver BC V7H 0A7  
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Page: 4 - B  
Total # Pages: 5 (A - D)  
Plus Appendix Pages  
Finalized Date: 3-SEP-2011  
Account: NOTIRE

Project: Sonora

**CERTIFICATE OF ANALYSIS WH11146303**

Sample Description	Method Analyte Units LOR	ME-MS61 Fe %	ME-MS61 Ga ppm	ME-MS61 Ge ppm	ME-MS61 Hf ppm	ME-MS61 In ppm	ME-MS61 K %	ME-MS61 La ppm	ME-MS61 Li ppm	ME-MS61 Mg %	ME-MS61 Mn ppm	ME-MS61 Mo ppm	ME-MS61 Na %	ME-MS61 Nb ppm	ME-MS61 Ni ppm	ME-MS61 P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
K520764		3.79	17.90	0.14	1.2	0.080	4.54	18.5	9.0	0.81	152	1.34	0.59	3.8	6.0	550
K520765		3.51	17.10	0.13	1.2	0.067	3.85	16.0	9.3	0.85	164	2.06	1.03	4.4	9.5	600
K520766		3.03	17.65	0.11	1.3	0.114	3.71	19.4	14.9	0.92	150	0.85	1.43	5.0	11.4	600
K520767		2.48	16.15	0.12	1.2	0.035	2.97	19.4	16.1	0.86	159	0.91	1.48	4.9	12.7	570
K520768		2.72	16.35	0.11	1.3	0.086	3.80	19.8	7.9	0.78	186	1.22	1.03	5.1	10.1	580
K520769		2.57	16.15	0.12	1.3	0.090	3.76	19.2	8.1	0.79	182	1.59	0.98	5.4	9.9	580
K520770		0.47	0.30	0.05	<0.1	<0.005	0.04	0.7	1.1	12.50	188	0.12	0.01	0.4	1.7	180
K520771		3.14	15.65	0.12	1.2	0.065	3.92	15.7	8.9	0.84	195	1.09	0.59	4.5	8.6	540
K520772		3.05	16.50	0.13	1.1	0.094	4.57	19.0	8.7	0.96	199	1.24	0.38	4.7	8.8	560
K520773		3.00	16.50	0.12	1.2	0.101	4.90	16.0	8.4	0.88	191	1.10	0.19	4.5	11.2	590
K520774		2.84	15.75	0.11	1.1	0.031	3.89	17.5	10.6	0.89	181	1.15	0.49	4.3	10.6	550
K520775		3.03	16.10	0.13	1.1	0.049	3.74	23.0	8.9	0.95	178	1.15	0.67	5.0	10.7	560
K520776		3.24	16.95	0.13	1.1	0.033	4.49	23.4	12.8	1.05	139	1.24	0.62	5.1	13.8	600
K520777		2.68	18.45	0.15	1.1	0.074	3.39	32.9	15.5	1.14	139	1.03	1.25	5.6	14.7	600
K520778		2.65	18.10	0.18	1.0	0.057	4.48	28.8	14.8	1.01	134	1.02	1.36	5.8	11.7	630
K520779		2.88	18.50	0.19	1.1	0.079	3.94	23.4	15.6	1.01	138	0.93	0.97	5.4	14.3	600
K520780		3.14	18.05	0.19	1.3	0.065	4.22	31.2	19.2	1.18	126	1.33	0.85	5.9	17.1	620
K520781		3.13	18.05	0.18	1.2	0.027	3.55	26.1	17.9	1.06	124	0.88	1.35	6.0	15.8	610
K520782		3.01	19.55	0.19	1.2	0.031	2.76	23.8	17.7	1.07	147	1.00	1.74	6.5	15.5	620
K520783		2.67	19.70	0.17	1.2	0.032	3.58	25.3	15.0	0.97	161	0.92	1.55	6.4	12.0	610
K520784		2.53	18.55	0.18	1.1	0.041	4.38	26.7	13.3	0.99	177	0.80	0.93	6.1	9.7	590
K520785		3.15	18.45	0.17	1.2	0.086	4.34	21.1	12.0	1.05	196	1.20	0.96	5.7	13.7	600
K520786		3.49	17.75	0.19	1.1	0.041	3.30	23.7	13.9	0.93	175	0.70	1.28	5.7	14.7	600
K520787		3.38	19.20	0.18	1.3	0.078	3.77	24.1	13.1	0.95	186	1.07	0.91	6.0	11.1	600
K520788		3.30	18.55	0.19	1.2	0.036	3.83	25.5	12.1	0.84	176	0.96	1.12	5.9	8.1	570
K520789		3.31	19.45	0.19	1.4	0.031	4.32	25.1	14.0	0.85	134	1.54	1.40	6.2	10.5	640
K520790		3.22	19.70	0.20	1.4	0.045	4.30	24.3	13.2	0.90	138	1.53	1.46	6.5	10.7	620
K520791		3.36	20.6	0.21	1.4	0.038	4.28	26.8	12.0	0.86	224	1.26	0.84	6.5	10.7	640
K520792		2.65	18.30	0.16	1.4	0.043	4.70	15.1	10.9	0.80	185	0.98	0.87	6.4	8.0	620
K520793		3.40	19.30	0.19	1.3	0.034	4.85	23.4	10.4	0.84	233	1.76	0.32	5.9	8.7	610
K520794		2.99	19.45	0.18	1.4	0.038	5.04	25.1	10.6	0.84	145	1.21	0.64	6.2	12.2	630
K520795		3.21	19.95	0.20	1.3	0.042	3.96	23.2	10.7	0.80	158	1.23	0.69	6.1	9.5	620
K520796		3.00	18.90	0.17	1.3	0.025	3.41	14.5	12.5	0.78	141	1.37	1.26	5.8	9.8	620
K520797		2.63	19.35	0.18	1.3	0.019	2.86	19.1	16.5	0.88	133	1.28	1.40	6.1	10.5	590
K520798		3.08	20.5	0.21	1.4	0.013	3.71	25.7	21.3	0.97	134	1.20	1.04	6.1	8.8	630
K520799		2.73	19.30	0.19	1.4	0.026	3.65	19.8	15.0	0.85	145	1.04	1.27	6.6	9.0	610
K520800		2.62	19.80	0.17	1.4	0.013	3.38	18.1	16.0	0.88	129	1.00	1.52	6.4	10.2	620
K520801		3.46	20.1	0.17	1.4	0.017	4.52	5.5	12.7	0.80	134	1.11	0.61	4.6	9.2	640
K520802		2.72	19.80	0.19	1.3	0.014	3.12	25.4	12.3	0.82	142	0.78	1.39	6.3	8.8	620
K520803		2.64	20.3	0.17	1.3	0.015	3.61	20.2	13.5	0.84	140	0.77	1.49	6.7	8.5	620



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North Vancouver BC V7H 0A7  
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220 - 17010 103RD AVE.  
EDMONTON AB T5S 1K7

Page: 4 - C  
Total # Pages: 5 (A - D)  
Plus Appendix Pages  
Finalized Date: 3-SEP-2011  
Account: NOTIRE

Project: Sonora

**CERTIFICATE OF ANALYSIS WH11146303**

Sample Description	Method Analyte Units LOR	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1
K520764		231	171.0	<0.002	3.69	3.08	6.2	3	2.3	297	0.31	1.78	7.3	0.133	1.62	5.1
K520765		762	146.0	<0.002	3.31	6.28	6.3	2	2.0	324	0.35	0.66	7.0	0.158	1.29	3.9
K520766		421	147.5	<0.002	2.62	4.84	6.5	1	1.9	374	0.42	0.24	7.2	0.178	1.31	3.8
K520767		20.7	116.5	<0.002	2.21	1.91	6.6	2	2.2	305	0.39	0.26	6.6	0.172	1.07	3.9
K520768		156.5	142.0	<0.002	2.58	4.41	6.1	2	2.5	304	0.41	0.42	6.8	0.173	1.28	3.7
K520769		229	147.5	<0.002	2.43	4.92	6.4	1	2.6	292	0.43	0.44	7.6	0.179	1.37	3.9
K520770		2.3	2.1	<0.002	0.01	<0.05	0.3	1	<0.2	47.7	<0.05	<0.05	0.2	0.005	<0.02	1.0
K520771		1150	143.5	<0.002	3.13	9.98	5.6	2	2.8	240	0.38	0.76	6.5	0.154	1.32	4.0
K520772		837	181.5	<0.002	2.93	7.75	6.2	2	3.9	236	0.38	0.66	7.7	0.163	1.52	4.9
K520773		550	130.0	<0.002	2.95	6.24	6.2	1	2.5	240	0.38	0.79	6.7	0.165	1.61	4.8
K520774		32.1	139.0	<0.002	2.67	2.31	6.1	1	1.9	255	0.35	0.93	6.6	0.151	1.26	4.0
K520775		69.8	158.0	<0.002	2.65	3.85	6.3	2	1.8	284	0.39	0.27	7.6	0.175	1.32	4.8
K520776		21.0	149.5	<0.002	2.62	2.88	6.7	2	1.7	286	0.40	0.36	7.0	0.177	1.54	4.4
K520777		14.6	154.0	<0.002	1.98	2.49	7.7	2	2.4	324	0.44	0.68	8.1	0.193	1.30	3.8
K520778		34.8	176.0	<0.002	2.15	2.59	7.2	2	2.7	373	0.43	0.91	8.1	0.189	1.52	3.9
K520779		496	176.0	<0.002	2.51	4.48	7.7	2	2.8	273	0.40	0.56	8.0	0.183	1.46	5.7
K520780		168.0	190.5	<0.002	2.61	5.14	8.4	3	2.2	304	0.42	0.31	8.5	0.198	1.54	3.8
K520781		15.6	148.5	<0.002	2.15	4.08	7.8	2	2.2	351	0.44	3.36	8.3	0.194	1.30	4.1
K520782		18.3	126.5	<0.002	2.16	5.12	7.8	2	2.7	380	0.46	0.21	7.6	0.206	1.19	3.6
K520783		19.0	157.5	<0.002	1.98	7.78	7.4	2	2.9	430	0.46	0.12	8.1	0.208	1.54	5.0
K520784		55.6	163.5	<0.002	2.11	3.76	7.0	2	2.8	355	0.46	0.53	7.3	0.197	1.72	4.0
K520785		4340	166.0	<0.002	2.46	36.8	7.2	2	2.8	354	0.40	0.95	6.7	0.189	1.80	3.7
K520786		22.3	144.0	<0.002	3.06	2.91	7.2	2	2.7	301	0.42	0.39	7.8	0.185	1.22	3.9
K520787		23.5	161.0	<0.002	2.95	2.86	7.1	2	5.8	290	0.43	0.47	8.2	0.188	1.33	4.1
K520788		16.7	164.0	<0.002	3.12	2.50	6.6	2	2.2	340	0.42	0.25	7.6	0.182	1.47	3.4
K520789		13.7	165.0	<0.002	3.13	1.33	7.1	2	2.4	428	0.45	0.51	7.6	0.197	1.48	4.2
K520790		17.9	177.5	<0.002	2.97	2.13	7.6	2	2.4	430	0.47	0.53	8.6	0.205	1.43	4.5
K520791		29.0	204	<0.002	3.35	2.35	7.8	2	3.3	342	0.46	0.62	8.7	0.203	1.69	4.5
K520792		17.0	156.5	<0.002	2.56	2.32	6.4	2	3.3	324	0.47	0.45	6.6	0.203	1.67	3.4
K520793		218	227	<0.002	3.29	4.71	6.9	2	2.7	252	0.43	0.96	7.7	0.191	1.91	4.0
K520794		19.6	214	<0.002	2.70	2.64	7.4	2	2.1	350	0.45	0.38	8.2	0.197	1.89	4.0
K520795		35.0	191.5	<0.002	3.09	2.78	7.3	2	2.5	303	0.45	0.50	8.0	0.198	1.61	3.8
K520796		19.7	133.0	<0.002	2.94	1.97	6.3	2	2.2	358	0.43	0.88	6.4	0.190	1.32	3.3
K520797		31.1	129.0	<0.002	2.49	1.59	6.8	2	2.4	372	0.44	0.93	6.8	0.194	1.13	3.5
K520798		31.8	167.5	<0.002	3.01	1.67	7.7	3	2.5	338	0.45	1.41	8.8	0.189	1.26	4.6
K520799		26.1	146.5	<0.002	2.58	2.09	6.9	2	2.7	386	0.47	0.78	7.0	0.203	1.28	3.7
K520800		19.1	127.0	<0.002	2.49	1.40	6.6	2	2.6	422	0.47	0.73	6.5	0.197	1.27	3.7
K520801		63.2	224	<0.002	3.44	1.99	7.2	3	2.5	272	0.33	1.82	8.5	0.151	1.79	5.3
K520802		70.9	167.5	<0.002	2.64	2.93	7.0	3	3.5	343	0.45	5.44	7.7	0.201	1.38	4.1
K520803		85.7	139.5	<0.002	2.51	1.63	6.3	2	3.2	409	0.48	0.54	6.3	0.207	1.43	3.2



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 North Vancouver BC V7H 0A7  
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 220 - 17010 103RD AVE.  
 EDMONTON AB T5S 1K7

Page: 4 - D  
 Total # Pages: 5 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 3-SEP-2011  
 Account: NOTIRE

Project: Sonora

**CERTIFICATE OF ANALYSIS WH11146303**

Sample Description	Method Analyte Units LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
K520764		48	9.1	7.7	175	32.0
K520765		53	6.3	7.9	346	32.9
K520766		54	4.4	7.5	507	33.5
K520767		53	6.3	7.6	49	33.6
K520768		52	5.8	8.4	170	33.1
K520769		52	6.2	8.7	305	33.5
K520770		3	0.1	0.9	15	0.6
K520771		47	10.3	8.4	449	30.3
K520772		50	8.8	8.7	509	30.6
K520773		53	10.5	7.7	552	32.6
K520774		47	7.8	7.6	50	30.2
K520775		51	5.9	8.6	189	29.7
K520776		54	6.2	9.2	53	30.2
K520777		57	7.7	10.9	50	28.0
K520778		56	11.5	9.3	54	29.3
K520779		58	8.4	9.1	522	32.9
K520780		62	6.8	9.8	404	38.0
K520781		57	6.5	8.7	50	35.0
K520782		59	6.4	8.9	47	33.7
K520783		57	6.2	9.4	47	31.9
K520784		57	6.2	8.1	64	31.3
K520785		58	6.1	8.0	699	35.2
K520786		55	5.8	8.9	65	30.8
K520787		54	8.0	8.8	85	36.2
K520788		51	6.5	8.1	50	34.1
K520789		57	8.3	8.6	40	37.7
K520790		56	7.5	9.1	50	38.8
K520791		57	7.4	9.5	55	40.8
K520792		57	7.9	8.0	88	37.7
K520793		54	9.5	8.8	168	36.7
K520794		57	6.4	9.0	49	37.5
K520795		57	7.1	9.5	72	36.8
K520796		56	34.6	8.7	48	35.2
K520797		56	6.4	9.8	67	35.9
K520798		56	7.6	11.1	49	40.5
K520799		55	6.1	9.9	52	38.1
K520800		55	5.9	10.2	41	39.6
K520801		55	6.6	6.1	56	39.8
K520802		55	6.1	11.0	100	36.3
K520803		55	4.9	11.5	82	35.4



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 North Vancouver BC V7H 0A7  
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Page: 5 - A  
 Total # Pages: 5 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 3-SEP-2011  
 Account: NOTIRE

Project: Sonora

**CERTIFICATE OF ANALYSIS WH11146303**

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	Au-ICP22 Au ppm	ME-MS61 Ag ppm	ME-MS61 Al %	ME-MS61 As ppm	ME-MS61 Ba ppm	ME-MS61 Be ppm	ME-MS61 Bi ppm	ME-MS61 Ca %	ME-MS61 Cd ppm	ME-MS61 Ce ppm	ME-MS61 Co ppm	ME-MS61 Cr ppm	ME-MS61 Cs ppm	ME-MS61 Cu ppm
		0.02	0.001	0.01	0.01	0.2	10	0.05	0.01	0.01	0.02	0.01	0.1	1	0.05	0.2
K520804		2.15	0.009	0.65	8.41	102.0	1050	1.94	2.54	2.65	1.41	61.8	8.8	28	7.98	26.1
K520805		2.25	0.008	0.33	7.94	46.8	970	1.91	2.56	2.57	0.43	89.2	9.5	24	7.68	8.6
K520806		2.62	0.001	<0.01	0.07	<5	20	0.05	0.03	21.5	0.05	1.29	1.3	<1	0.13	1.5
K520807		4.58	0.015	0.29	7.94	53.5	450	1.73	3.57	2.35	0.48	6.96	9.3	31	8.85	36.8
K520808		4.74	0.042	0.76	7.85	36.1	1160	1.40	3.54	2.24	0.48	31.8	7.4	24	6.77	83.6
K520809		4.17	0.013	0.55	7.85	44.8	1120	1.59	3.38	2.55	0.51	29.3	8.2	23	9.37	33.5
K520810		4.13	0.028	0.83	7.94	92.7	680	1.58	3.12	2.34	1.22	33.2	9.2	26	9.72	61.2
K520811		4.03	0.078	0.66	7.97	36.6	1610	1.39	5.07	1.79	0.46	41.6	8.4	23	8.76	185.5
K520812		3.10	0.017	0.32	8.08	22.2	590	1.86	2.88	2.57	0.41	37.8	8.8	23	9.85	21.0



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 220 - 17010 103RD AVE.  
 EDMONTON AB T5S 1K7

Page: 5 - B  
 Total # Pages: 5 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 3-SEP-2011  
 Account: NOTIRE

Project: Sonora

**CERTIFICATE OF ANALYSIS WH11146303**

Sample Description	Method Analyte Units LOR	ME-MS61 Fe %	ME-MS61 Ga ppm	ME-MS61 Ge ppm	ME-MS61 Hf ppm	ME-MS61 In ppm	ME-MS61 K %	ME-MS61 La ppm	ME-MS61 Li ppm	ME-MS61 Mg %	ME-MS61 Mn ppm	ME-MS61 Mo ppm	ME-MS61 Na %	ME-MS61 Nb ppm	ME-MS61 Ni ppm	ME-MS61 P ppm
		0.01	0.05	0.05	0.1	0.005	0.01	0.5	0.2	0.01	5	0.05	0.01	0.1	0.2	10
K520804		2.62	21.0	0.18	1.5	0.014	3.04	30.9	19.5	1.00	137	1.03	2.21	6.3	9.6	680
K520805		2.61	20.7	0.20	1.4	0.008	2.80	45.4	19.2	0.91	128	1.00	2.15	5.9	9.9	630
K520806		0.46	0.31	0.16	<0.1	<0.005	0.03	0.6	0.9	13.20	202	0.08	0.01	0.3	3.1	190
K520807		3.44	20.2	0.16	1.5	0.011	3.26	2.9	21.5	0.92	118	0.86	1.66	4.5	11.1	640
K520808		3.70	18.60	0.20	1.4	0.015	3.99	15.5	14.8	0.81	102	0.80	1.14	5.0	10.1	620
K520809		2.97	19.45	0.18	1.4	0.010	3.54	14.6	13.6	0.91	113	0.87	1.45	5.0	9.9	620
K520810		3.57	19.50	0.18	1.4	0.015	4.21	15.4	16.1	0.95	128	1.01	1.25	5.3	10.0	660
K520811		3.67	18.45	0.21	1.4	0.026	4.90	20.9	20.7	0.96	105	0.95	1.30	5.1	9.0	620
K520812		3.19	21.2	0.17	1.5	0.011	3.49	19.0	19.2	0.96	130	1.25	1.66	6.3	8.9	640





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 220 - 17010 103RD AVE.  
 EDMONTON AB T5S 1K7

Page: 5 - C  
 Total # Pages: 5 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 3-SEP-2011  
 Account: NOTIRE

Project: Sonora

**CERTIFICATE OF ANALYSIS WH11146303**

Sample Description	Method Analyte Units LOR	ME-MS61 Pb ppm 0.5	ME-MS61 Rb ppm 0.1	ME-MS61 Re ppm 0.002	ME-MS61 S % 0.01	ME-MS61 Sb ppm 0.05	ME-MS61 Sc ppm 0.1	ME-MS61 Se ppm 1	ME-MS61 Sn ppm 0.2	ME-MS61 Sr ppm 0.2	ME-MS61 Ta ppm 0.05	ME-MS61 Te ppm 0.05	ME-MS61 Th ppm 0.2	ME-MS61 Ti % 0.005	ME-MS61 Tl ppm 0.02	ME-MS61 U ppm 0.1
K520804		79.5	113.0	<0.002	2.39	2.20	7.4	2	2.7	593	0.48	0.69	7.8	0.211	1.07	3.9
K520805		20.8	109.5	<0.002	2.48	1.01	7.3	2	2.4	576	0.43	0.71	7.9	0.184	1.00	3.9
K520806		1.5	1.1	<0.002	0.01	<0.05	0.3	1	<0.2	48.3	<0.05	<0.05	<0.2	<0.005	<0.02	0.4
K520807		19.6	117.5	<0.002	3.44	1.17	7.2	3	2.0	529	0.34	1.54	7.5	0.150	1.01	4.5
K520808		28.2	165.0	<0.002	3.76	1.23	6.8	3	2.6	370	0.37	1.19	7.8	0.163	1.25	4.4
K520809		20.4	161.5	<0.002	2.95	1.78	6.5	3	1.8	435	0.37	1.13	7.6	0.161	1.29	4.4
K520810		31.5	163.5	<0.002	3.48	4.56	7.2	3	2.1	423	0.38	1.16	7.1	0.176	1.45	3.8
K520811		19.7	148.5	<0.002	3.49	2.47	6.6	3	2.0	518	0.39	1.44	8.2	0.165	1.25	4.7
K520812		18.0	138.5	<0.002	3.05	0.87	7.1	3	2.5	512	0.47	1.01	7.5	0.197	1.19	3.9



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Page: 5 - D  
 Total # Pages: 5 (A - D)  
 Plus Appendix Pages  
 Finalized Date: 3-SEP-2011  
 Account: NOTIRE

Project: Sonora

**CERTIFICATE OF ANALYSIS WH11146303**

Sample Description	Method Analyte Units LOR	ME-MS61 V ppm 1	ME-MS61 W ppm 0.1	ME-MS61 Y ppm 0.1	ME-MS61 Zn ppm 2	ME-MS61 Zr ppm 0.5
K520804		63	7.5	11.8	92	39.9
K520805		57	6.1	12.7	42	38.9
K520806		2	0.1	0.8	17	<0.5
K520807		56	7.2	5.0	43	42.8
K520808		53	10.3	7.8	39	39.7
K520809		51	7.9	8.9	41	39.5
K520810		56	10.3	8.9	83	39.5
K520811		52	8.4	9.8	40	38.9
K520812		58	10.9	9.2	41	42.0



ALS Canada Ltd.  
2103 Dollarton Hwy  
North Vancouver BC V7H 0A7  
Phone: 604 984 0221 Fax: 604 984 0218 www.alsglobal.com

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Page: Appendix 1  
Total # Appendix Pages: 1  
Finalized Date: 3-SEP-2011  
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Method	CERTIFICATE COMMENTS
ME-MS61 ME-MS61	Interference: Ca>10% on ICP-MS As,ICP-AES results shown. REE's may not be totally soluble in this method.