



ALS Canada Ltd.  
2103 Dollarton Hwy  
North Vancouver BC V7H 0A7  
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
www.alsglobal.com

To: ANGLOGOLD ASHANTI MINNESOTA INC.  
6300 S. SYRACUSE WAY #500  
CENTENNIAL CO 80111  
USA

Page: 1  
Total # Pages: 2 (A - E)  
Plus Appendix Pages  
Finalized Date: 1-SEP-2016  
Account: AAMICLSR

**CERTIFICATE TB16134955**

This report is for 25 Rock samples submitted to our lab in Thunder Bay, ON, Canada on 16-AUG-2016.

The following have access to data associated with this certificate:

PHIL LARSON

**SAMPLE PREPARATION**

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU-31	Fine crushing - 70% <2mm
SPL-21	Split sample - riffle splitter
PUL-32	Pulverize 1000g to 85% < 75 um
CRU-QC	Crushing QC Test
PUL-QC	Pulverizing QC Test

**ANALYTICAL PROCEDURES**

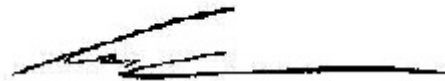
ALS CODE	DESCRIPTION	INSTRUMENT
PGM-MS24	Pt, Pd and Au 50g FA ICP-MS	ICP-MS
ME-ICP06	Whole Rock Package - ICP-AES	ICP-AES
C-IR07	Total Carbon (Leco)	LECO
S-IR08	Total Sulphur (Leco)	LECO
ME-MS81	Lithium Borate Fusion ICP-MS	ICP-MS
ME-MS42	Up to 34 elements by ICP-MS	ICP-MS
OA-GRA05	Loss on Ignition at 1000C	WST-SEQ
TOT-ICP06	Total Calculation for ICP06	ICP-AES
ME-4ACD81	Base Metals by 4-acid dig.	ICP-AES

To: ANGLOGOLD ASHANTI MINNESOTA INC.  
ATTN: PHIL LARSON  
6300 S. SYRACUSE WAY #500  
CENTENNIAL CO 80111  
USA

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



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com

To: ANGLOGOLD ASHANTI MINNESOTA INC.  
 6300 S. SYRACUSE WAY #500  
 CENTENNIAL CO 80111  
 USA

Page: 2 - A  
 Total # Pages: 2 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 1-SEP-2016  
 Account: AAMICLSR

# CERTIFICATE OF ANALYSIS TB16134955

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	PGM-MS24 Au ppm	PGM-MS24 Pt ppm	PGM-MS24 Pd ppm	ME-ICP06 SiO2 %	ME-ICP06 Al2O3 %	ME-ICP06 Fe2O3 %	ME-ICP06 CaO %	ME-ICP06 MgO %	ME-ICP06 Na2O %	ME-ICP06 K2O %	ME-ICP06 Cr2O3 %	ME-ICP06 TiO2 %	ME-ICP06 MnO %	ME-ICP06 P2O5 %
AGAR3521		0.29	0.001	<0.0005	<0.001	47.3	12.10	18.00	6.43	5.35	3.36	1.19	0.01	2.15	0.28	0.17
AGAR3522		0.22	0.001	<0.0005	<0.001	46.7	12.55	15.75	6.29	6.65	3.90	0.54	0.01	1.95	0.21	0.17
AGAR3523		1.76	0.001	0.0068	0.004	53.9	13.90	12.00	8.94	5.00	3.78	0.22	0.01	1.07	0.27	0.11
AGAR3524		2.08	0.002	<0.0005	<0.001	48.4	13.20	17.85	7.80	3.58	3.04	0.71	<0.01	1.96	0.23	0.23
AGAR3525		0.95	0.002	0.0024	0.002	49.1	13.60	14.75	10.55	6.38	2.18	0.39	0.01	1.17	0.22	0.10
AGAR3527		0.74	0.001	0.0045	0.004	48.8	11.20	14.55	7.34	10.10	2.46	0.41	0.09	1.54	0.28	0.10
AGAR3529		0.94	0.001	0.0008	<0.001	49.2	13.30	16.70	5.72	6.32	3.52	0.91	0.01	1.88	0.25	0.16
AGAR3530		2.18	0.001	0.0009	0.001	50.1	13.25	15.60	7.57	6.19	3.10	0.93	0.02	1.70	0.27	0.16
AGAR3531		1.64	0.001	0.0006	<0.001	48.7	13.25	18.40	5.65	5.63	2.31	0.10	0.01	1.97	0.21	0.17
AGAR3533		1.08	0.001	<0.0005	<0.001	52.6	13.00	16.10	7.21	6.21	2.95	0.40	0.01	1.79	0.26	0.15
AGAR3535		0.99	0.002	0.0127	0.011	45.5	13.95	19.10	8.20	5.10	3.00	0.23	<0.01	1.61	0.36	0.14
AGAR3536		1.62	0.002	0.0137	0.013	50.8	13.10	15.35	9.83	5.01	1.96	0.26	<0.01	1.30	0.22	0.12
AGAR3538		0.77	0.001	0.0024	0.002	43.9	13.75	15.15	6.06	6.70	4.35	0.29	0.02	1.47	0.18	0.12
AGAR3539		1.04	0.002	0.0022	0.002	49.4	14.05	14.90	9.61	6.31	1.98	0.96	0.02	1.44	0.22	0.12
AGAR3540		0.61	0.001	<0.0005	<0.001	48.4	12.35	16.45	8.01	4.27	2.05	1.99	<0.01	2.64	0.20	0.37
AGAR3541		1.69	0.002	0.0113	0.014	50.2	13.80	15.80	6.66	6.09	3.40	0.54	<0.01	1.61	0.26	0.12
AGAR3542		0.89	0.001	0.0078	0.006	47.2	13.20	13.55	5.84	5.26	2.26	0.85	0.01	1.14	0.18	0.11
AGAR3543		1.95	0.002	0.0077	0.008	50.7	14.35	13.60	9.78	6.22	2.78	0.20	0.01	1.12	0.21	0.10
AGAR3544		2.12	0.001	<0.0005	<0.001	49.9	13.40	17.35	6.96	4.84	3.11	0.18	<0.01	1.70	0.24	0.15
AGAR3545		0.92	0.003	0.0105	0.011	46.9	14.50	14.05	10.05	7.76	1.54	0.96	0.04	1.28	0.20	0.05
AGAR3546		1.48	0.001	<0.0005	<0.001	49.7	12.45	16.80	7.31	4.26	2.76	1.75	<0.01	2.71	0.24	0.37
AGAR3547		1.16	0.001	0.0022	0.002	48.5	13.95	14.85	9.42	6.54	2.14	0.78	0.02	1.40	0.22	0.12
AGAR3549		1.13	0.001	0.0013	0.001	49.1	14.35	14.15	8.74	6.30	3.74	0.49	0.01	1.15	0.22	0.10
AGAR3550		1.15	0.001	<0.0005	<0.001	69.3	11.65	7.00	4.74	1.48	3.77	0.22	<0.01	0.59	0.13	0.11
AGAR3551		1.63	0.002	0.0015	0.001	49.6	13.70	16.20	10.40	5.71	2.22	0.18	0.01	1.42	0.23	0.12



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com

To: ANGLOGOLD ASHANTI MINNESOTA INC.  
 6300 S. SYRACUSE WAY #500  
 CENTENNIAL CO 80111  
 USA

Page: 2 - B  
 Total # Pages: 2 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 1-SEP-2016  
 Account: AAMICLSR

# CERTIFICATE OF ANALYSIS TB16134955

Sample Description	Method Analyte Units LOR	ME-ICP06 SrO %	ME-ICP06 BaO %	OA-GRA05 LOI %	TOT-ICP06 Total %	C-IR07 C %	S-IR08 S %	ME-MS81 Ba ppm	ME-MS81 Ce ppm	ME-MS81 Cr ppm	ME-MS81 Cs ppm	ME-MS81 Dy ppm	ME-MS81 Er ppm	ME-MS81 Eu ppm	ME-MS81 Ga ppm	ME-MS81 Gd ppm
AGAR3521		0.02	0.02	2.11	98.49	0.03	0.18	147.5	19.1	60	2.65	6.73	4.18	1.65	20.2	6.30
AGAR3522		0.02	0.01	3.26	98.01	0.02	0.10	126.5	16.0	90	2.12	5.91	3.59	1.35	19.4	5.47
AGAR3523		0.02	<0.01	0.59	99.81	<0.01	<0.01	36.2	18.0	100	0.08	6.00	3.83	1.16	16.0	5.49
AGAR3524		0.03	0.01	1.75	98.79	0.01	0.17	114.5	24.2	30	0.27	7.17	4.24	1.73	23.5	6.56
AGAR3525		0.02	0.01	0.89	99.37	0.02	0.11	84.0	10.2	80	0.50	3.99	2.35	0.96	18.0	3.92
AGAR3527		0.01	0.04	2.53	99.45	0.05	0.06	402	17.5	620	0.35	3.72	2.00	1.16	14.5	3.64
AGAR3529		0.01	0.02	1.88	99.88	0.06	0.03	192.0	10.5	40	1.06	5.95	3.57	1.09	22.2	4.77
AGAR3530		0.01	0.02	0.77	99.69	0.04	0.13	159.0	16.6	120	1.27	6.56	3.93	1.40	19.8	5.72
AGAR3531		<0.01	<0.01	2.37	98.77	0.01	0.21	14.3	17.4	40	<0.01	6.42	4.16	1.25	17.9	5.41
AGAR3533		0.01	0.01	1.20	101.90	0.02	0.04	98.9	15.2	60	0.13	5.98	3.83	1.31	21.4	5.43
AGAR3535		0.01	0.01	1.20	98.41	0.03	0.30	91.7	9.8	20	0.04	5.83	3.90	0.99	19.9	4.76
AGAR3536		0.01	0.01	1.18	99.15	0.04	0.04	61.0	13.0	10	0.06	5.49	3.53	1.11	18.6	4.51
AGAR3538		0.02	0.01	6.66	98.68	0.95	0.19	88.3	9.7	150	0.73	4.60	2.99	0.80	18.2	3.71
AGAR3539		0.02	0.02	1.49	100.54	0.06	0.08	149.5	11.9	150	0.44	5.08	3.34	1.06	19.1	4.30
AGAR3540		0.03	0.08	1.89	98.73	0.07	0.13	713	74.9	30	1.20	7.10	4.36	2.26	21.7	8.02
AGAR3541		0.01	0.03	1.70	100.22	0.03	0.02	240	13.8	10	0.69	5.09	3.44	1.10	18.6	4.91
AGAR3542		0.01	0.01	9.64	99.26	1.82	0.06	124.5	9.4	40	0.50	3.93	2.56	0.84	16.5	3.51
AGAR3543		0.01	0.01	1.05	100.14	0.10	0.05	48.8	10.0	60	0.09	4.47	2.80	0.81	18.0	3.71
AGAR3544		<0.01	<0.01	1.14	98.97	0.01	0.06	29.6	16.1	10	<0.01	6.26	3.82	1.30	21.0	5.58
AGAR3545		0.02	0.01	2.07	99.43	0.04	0.17	126.5	3.2	310	0.39	2.53	1.54	0.56	16.1	2.04
AGAR3546		0.03	0.07	1.75	100.20	0.05	0.17	647	78.1	30	1.28	7.44	4.24	2.44	22.0	8.06
AGAR3547		0.01	0.01	1.48	99.44	0.02	0.07	93.9	11.2	150	0.28	4.82	3.26	0.98	17.9	4.15
AGAR3549		0.04	0.01	1.44	99.84	0.03	0.10	132.5	13.4	90	0.18	5.23	3.67	1.08	18.8	4.54
AGAR3550		0.03	0.01	1.30	100.33	0.11	0.08	58.0	29.5	20	0.53	4.46	2.97	1.11	14.5	4.35
AGAR3551		0.01	<0.01	0.95	100.75	0.01	0.12	34.2	12.5	70	0.43	4.86	2.81	1.12	19.3	4.36



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com

To: ANGLOGOLD ASHANTI MINNESOTA INC.  
 6300 S. SYRACUSE WAY #500  
 CENTENNIAL CO 80111  
 USA

Page: 2 - C  
 Total # Pages: 2 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 1-SEP-2016  
 Account: AAMICLSR

# CERTIFICATE OF ANALYSIS TB16134955

Sample Description	Method Analyte Units LOR	ME-MS81 Ge ppm 5	ME-MS81 Hf ppm 0.2	ME-MS81 Ho ppm 0.01	ME-MS81 La ppm 0.5	ME-MS81 Lu ppm 0.01	ME-MS81 Nb ppm 0.2	ME-MS81 Nd ppm 0.1	ME-MS81 Pr ppm 0.03	ME-MS81 Rb ppm 0.2	ME-MS81 Sm ppm 0.03	ME-MS81 Sn ppm 1	ME-MS81 Sr ppm 0.1	ME-MS81 Ta ppm 0.1	ME-MS81 Tb ppm 0.01	ME-MS81 Th ppm 0.05
AGAR3521		<5	3.6	1.43	7.6	0.48	6.6	15.6	3.02	54.2	4.56	1	161.0	0.6	1.04	0.69
AGAR3522		<5	3.0	1.26	6.3	0.46	5.7	13.7	2.88	22.0	4.31	1	194.0	0.5	0.97	0.59
AGAR3523		<5	3.0	1.25	7.0	0.46	4.6	13.6	2.89	2.5	4.08	1	136.5	0.4	0.96	0.65
AGAR3524		<5	4.0	1.42	9.2	0.52	8.9	18.8	3.85	25.7	5.61	1	209	0.7	1.17	0.93
AGAR3525		<5	1.8	0.82	3.8	0.28	3.4	8.1	1.71	13.4	2.75	1	133.0	0.3	0.63	0.39
AGAR3527		<5	2.1	0.75	6.8	0.25	7.0	12.0	2.79	10.6	3.20	2	98.2	0.6	0.65	0.71
AGAR3529		<5	3.4	1.23	3.9	0.48	7.4	8.7	1.71	38.4	3.16	1	79.9	0.5	0.85	0.58
AGAR3530		<5	3.1	1.40	5.8	0.52	5.8	13.8	2.72	30.2	4.42	1	57.2	0.5	1.04	0.54
AGAR3531		<5	3.5	1.28	6.4	0.49	6.3	12.9	2.63	1.5	4.04	1	22.5	0.5	0.97	0.67
AGAR3533		<5	3.4	1.22	5.6	0.47	5.5	12.5	2.45	10.9	4.04	1	108.5	0.5	0.92	0.52
AGAR3535		<5	2.9	1.27	3.3	0.48	4.4	8.2	1.61	2.9	3.18	1	62.6	0.4	0.89	0.48
AGAR3536		<5	2.5	1.15	4.9	0.42	3.8	10.7	2.16	6.9	3.73	1	103.0	0.4	0.90	0.46
AGAR3538		<5	2.0	0.95	3.4	0.35	3.3	8.6	1.67	7.8	2.97	1	138.5	0.3	0.65	0.32
AGAR3539		<5	2.4	1.11	4.2	0.36	3.7	9.7	1.98	44.7	3.79	<1	123.0	0.4	0.79	0.39
AGAR3540		<5	6.3	1.45	35.7	0.49	24.2	39.2	9.96	50.3	8.38	2	193.0	1.6	1.24	4.43
AGAR3541		<5	2.8	1.09	5.1	0.41	4.0	11.1	2.31	15.2	3.56	2	107.0	0.4	0.80	0.46
AGAR3542		<5	1.8	0.84	3.2	0.31	2.8	7.6	1.57	37.3	2.33	<1	77.9	0.3	0.61	0.35
AGAR3543		<5	2.2	0.83	3.6	0.35	2.9	8.8	1.69	4.7	2.69	<1	95.7	0.3	0.65	0.39
AGAR3544		<5	3.3	1.33	5.7	0.53	5.2	13.4	2.79	3.8	4.22	1	44.4	0.5	0.91	0.61
AGAR3545		<5	0.9	0.53	1.0	0.20	0.9	3.4	0.56	46.5	1.28	<1	122.5	0.2	0.36	0.06
AGAR3546		<5	6.2	1.55	37.6	0.55	25.2	40.5	10.15	56.0	8.76	2	242	1.6	1.27	4.47
AGAR3547		<5	2.6	1.10	3.9	0.45	3.4	10.2	1.93	33.2	3.33	<1	112.5	0.4	0.71	0.37
AGAR3549		<5	2.4	1.18	5.2	0.48	3.5	10.8	2.15	10.8	3.47	1	345	0.3	0.85	0.45
AGAR3550		<5	5.2	0.94	13.3	0.39	6.3	16.6	4.05	15.7	3.99	1	281	0.6	0.66	1.98
AGAR3551		<5	2.3	0.99	4.6	0.36	4.7	10.2	1.98	6.5	3.56	<1	122.0	0.4	0.77	0.49



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com

To: ANGLOGOLD ASHANTI MINNESOTA INC.  
 6300 S. SYRACUSE WAY #500  
 CENTENNIAL CO 80111  
 USA

Page: 2 - D  
 Total # Pages: 2 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 1-SEP-2016  
 Account: AAMICLSR

## CERTIFICATE OF ANALYSIS TB16134955

Sample Description	Method Analyte Units LOR	ME-MS81 Tm ppm 0.01	ME-MS81 U ppm 0.05	ME-MS81 V ppm 5	ME-MS81 W ppm 1	ME-MS81 Y ppm 0.5	ME-MS81 Yb ppm 0.03	ME-MS81 Zr ppm 2	ME-MS42 As ppm 0.1	ME-MS42 Bi ppm 0.01	ME-MS42 Hg ppm 0.005	ME-MS42 In ppm 0.005	ME-MS42 Re ppm 0.001	ME-MS42 Sb ppm 0.05	ME-MS42 Se ppm 0.2	ME-MS42 Te ppm 0.01
AGAR3521		0.60	0.18	535	1	36.0	3.78	123	0.8	0.23	0.008	0.026	0.002	0.10	0.5	0.02
AGAR3522		0.54	0.16	552	<1	33.0	3.55	108	0.5	0.02	0.009	0.033	0.002	0.09	0.4	0.01
AGAR3523		0.56	0.18	269	1	33.4	3.67	103	0.2	0.03	<0.005	0.012	0.001	<0.05	<0.2	0.02
AGAR3524		0.60	0.27	321	<1	37.3	3.70	145	0.2	0.01	0.005	0.016	0.002	<0.05	0.4	0.03
AGAR3525		0.38	0.12	327	<1	22.5	2.23	67	0.3	0.01	0.007	0.010	0.001	0.06	0.3	0.02
AGAR3527		0.29	0.16	255	<1	19.7	1.96	80	1.3	0.01	0.006	0.020	<0.001	0.05	<0.2	0.02
AGAR3529		0.55	0.15	373	1	32.4	3.36	118	0.4	0.01	0.009	0.022	0.002	0.06	0.3	0.01
AGAR3530		0.59	0.13	391	<1	36.1	4.18	117	0.5	0.01	<0.005	0.024	0.002	0.05	0.6	0.02
AGAR3531		0.58	0.17	421	<1	33.2	3.86	126	1.7	0.01	0.008	0.023	0.001	<0.05	0.6	0.03
AGAR3533		0.54	0.14	416	1	33.6	3.81	115	0.3	0.01	0.006	0.015	0.001	<0.05	0.3	0.01
AGAR3535		0.56	0.14	384	1	32.4	3.66	102	1.5	0.02	0.008	0.022	0.001	0.09	0.7	0.03
AGAR3536		0.53	0.13	344	1	31.1	3.37	92	3.7	0.01	0.008	0.015	0.001	0.11	0.3	0.01
AGAR3538		0.41	0.12	364	2	25.0	2.64	74	0.6	0.07	0.006	0.058	<0.001	0.05	0.3	0.05
AGAR3539		0.50	0.10	366	1	29.1	3.32	87	0.4	0.01	0.005	0.009	0.001	0.07	0.4	0.03
AGAR3540		0.57	0.90	447	1	38.1	3.93	235	0.9	0.02	0.007	0.039	0.002	0.13	0.2	0.01
AGAR3541		0.45	0.13	491	<1	28.3	3.33	98	0.2	0.01	0.008	0.015	0.001	0.14	0.2	0.01
AGAR3542		0.36	0.09	302	1	22.5	2.62	66	11.2	0.02	0.006	0.057	0.001	0.14	0.5	0.01
AGAR3543		0.44	0.10	338	<1	24.5	2.58	71	1.6	0.01	0.005	0.011	0.001	0.09	0.3	0.01
AGAR3544		0.53	0.14	386	<1	33.7	3.53	116	0.5	0.01	0.005	0.016	0.001	0.30	0.2	0.01
AGAR3545		0.23	<0.05	335	1	13.9	1.54	30	0.6	0.02	0.005	0.005	0.001	0.05	0.4	0.07
AGAR3546		0.61	0.88	457	1	38.8	3.80	233	0.5	0.02	0.006	0.022	0.003	0.17	0.4	0.01
AGAR3547		0.47	0.12	355	<1	27.9	3.33	83	0.6	0.01	0.006	0.011	0.001	0.08	0.3	0.03
AGAR3549		0.47	0.14	320	1	30.8	3.28	85	0.3	0.03	0.006	0.014	<0.001	0.07	0.3	0.05
AGAR3550		0.45	0.51	66	1	25.8	2.80	190	0.6	0.03	<0.005	0.014	0.001	0.07	0.2	0.04
AGAR3551		0.45	0.14	367	<1	26.7	2.83	82	0.4	0.01	<0.005	0.014	0.002	<0.05	0.3	0.02



ALS Canada Ltd.  
 2103 Dollarton Hwy  
 North Vancouver BC V7H 0A7  
 Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
 www.alsglobal.com

To: ANGLOGOLD ASHANTI MINNESOTA INC.  
 6300 S. SYRACUSE WAY #500  
 CENTENNIAL CO 80111  
 USA

Page: 2 - E  
 Total # Pages: 2 (A - E)  
 Plus Appendix Pages  
 Finalized Date: 1-SEP-2016  
 Account: AAMICLSR

# CERTIFICATE OF ANALYSIS TB16134955

Sample Description	Method Analyte Units LOR	ME-MS42 TI ppm 0.02	ME-4ACD81 Ag ppm 0.5	ME-4ACD81 Cd ppm 0.5	ME-4ACD81 Co ppm 1	ME-4ACD81 Cu ppm 1	ME-4ACD81 Li ppm 10	ME-4ACD81 Mo ppm 1	ME-4ACD81 Ni ppm 1	ME-4ACD81 Pb ppm 2	ME-4ACD81 Sc ppm 1	ME-4ACD81 Zn ppm 2
AGAR3521		0.07	<0.5	<0.5	50	89	20	1	47	2	42	137
AGAR3522		0.08	<0.5	<0.5	50	65	30	1	63	2	40	150
AGAR3523		<0.02	<0.5	<0.5	42	55	<10	1	49	<2	38	92
AGAR3524		0.02	<0.5	<0.5	49	96	10	1	29	<2	34	133
AGAR3525		<0.02	<0.5	<0.5	50	121	10	1	64	<2	39	97
AGAR3527		<0.02	<0.5	<0.5	55	39	10	<1	362	2	26	98
AGAR3529		0.10	<0.5	<0.5	44	98	10	<1	43	<2	37	121
AGAR3530		0.19	<0.5	<0.5	45	109	10	1	58	4	42	153
AGAR3531		<0.02	<0.5	<0.5	49	121	20	1	43	<2	39	167
AGAR3533		<0.02	<0.5	<0.5	42	89	10	1	45	<2	38	155
AGAR3535		<0.02	<0.5	<0.5	50	132	<10	<1	31	<2	47	251
AGAR3536		<0.02	<0.5	<0.5	44	111	<10	1	31	<2	41	108
AGAR3538		0.02	<0.5	<0.5	43	28	30	<1	83	2	42	137
AGAR3539		0.03	<0.5	<0.5	50	114	10	1	84	2	44	109
AGAR3540		0.06	<0.5	<0.5	38	28	<10	1	25	9	33	147
AGAR3541		0.03	<0.5	<0.5	41	71	10	<1	23	4	42	131
AGAR3542		0.02	<0.5	<0.5	42	122	30	<1	43	<2	40	121
AGAR3543		<0.02	<0.5	<0.5	43	129	<10	1	50	<2	43	99
AGAR3544		<0.02	<0.5	<0.5	46	103	10	1	23	2	36	136
AGAR3545		0.04	<0.5	<0.5	52	169	10	1	123	<2	40	82
AGAR3546		0.06	<0.5	<0.5	41	31	10	1	25	2	33	163
AGAR3547		0.02	<0.5	<0.5	47	100	10	1	83	<2	42	113
AGAR3549		<0.02	<0.5	<0.5	43	87	10	<1	73	3	39	102
AGAR3550		0.04	<0.5	<0.5	10	35	<10	1	11	2	15	51
AGAR3551		0.02	<0.5	<0.5	53	130	10	<1	55	<2	42	101



ALS Canada Ltd.  
2103 Dollarton Hwy  
North Vancouver BC V7H 0A7  
Phone: +1 (604) 984 0221 Fax: +1 (604) 984 0218  
www.alsglobal.com

To: ANGLOGOLD ASHANTI MINNESOTA INC.  
6300 S. SYRACUSE WAY #500  
CENTENNIAL CO 80111  
USA

Page: Appendix 1  
Total # Appendix Pages: 1  
Finalized Date: 1-SEP-2016  
Account: AAMICLSR

**CERTIFICATE OF ANALYSIS TB16134955**

**CERTIFICATE COMMENTS**

**LABORATORY ADDRESSES**

Applies to Method:	Processed at ALS Thunder Bay located at 1160 Commerce Street, Thunder Bay, ON, Canada.	
	CRU-31	CRU-QC
	PUL-QC	SPL-21
		LOG-22
		WEI-21
		PUL-32
Applies to Method:	Processed at ALS Vancouver located at 2103 Dollarton Hwy, North Vancouver, BC, Canada.	
	C-IR07	ME-4ACD81
	ME-MS81	OA-GRA05
	TOT-ICP06	ME-ICP06
		PGM-MS24
		ME-MS42
		S-IR08