



Australian Laboratory Services Pty. Ltd.

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ALS Perth is a NATA Accredited Testing Laboratory. Corporate Accreditation
No: 825, Corporate Site No: 23001.

CERTIFICATE AD17255501

Project: SC17-06

This report is for 273 Soil samples submitted to our lab in Adelaide, SA, Australia on
21-NOV-2017.

The following have access to data associated with this certificate:

KIM GREY

GAVIN OTTO

CATH WETHERBY

To: TODD RIVER METALS
ATTN: CATH WETHERBY
LEVEL 1
282 ROKEBY ROAD
SUBIACO WA 6008

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: Total sample weighed in some instances as indicated in Wt. Sample column.

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Plus Appendix Pages

Finalized Date: 22-DEC-2017

Account: TODRIV

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
LEV-01	Waste Disposal Levy
PUL-31	Pulverize split to 85% <75 um
PUL-QC	Pulverizing QC Test

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-MS91	ICP-MS Analysis - Sodium Peroxide Fusion	ICP-MS
Au-ICP22	Au 50g FA ICP-AES finish	ICP-AES
ME-ICP89	Peroxide Fusion by ICP-AES	ICP-AES

Signature:

Cameron Brosnan, Laboratory Manager, Perth



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CERTIFICATE OF ANALYSIS AD17255501

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	PUL-QC Pass75um %	Au-ICP22 Au ppm	Au-ICP22 WT. SAMP g	ME-ICP89 Al2O3 %	ME-ICP89 As %	ME-ICP89 CaO %	ME-ICP89 Co %	ME-ICP89 Cr2O3 %	ME-ICP89 Cu %	ME-ICP89 Fe2O3 %	ME-ICP89 K2O %	ME-ICP89 Li %	ME-ICP89 MgO %	ME-ICP89 MnO %
		0.02	0.01	0.001	0.01	0.02	0.01	0.01	0.005	0.01	0.01	0.01	0.01	0.001	0.01	0.01
SC17036		0.16		<0.001	48.88	6.85	0.02	0.11	<0.005	0.02	<0.01	2.07	3.07	0.007	0.33	0.02
SC17037		0.13		0.001	50.11	5.69	0.01	0.06	<0.005	0.02	<0.01	2.13	2.63	0.004	0.20	0.02
SC17038		0.11		0.001	47.99	6.29	0.01	0.13	<0.005	0.01	<0.01	2.07	2.70	0.007	0.33	0.02
SC17039		0.08		0.001	48.23	7.77	0.03	0.07	<0.005	0.02	<0.01	3.50	2.63	0.008	0.53	0.03
SC17040		0.12		0.001	51.49	7.71	0.01	0.07	<0.005	0.01	<0.01	1.92	2.75	0.006	0.36	0.02
SC17041		0.12		0.001	47.13	6.70	0.01	0.10	<0.005	0.01	<0.01	1.37	3.13	0.003	0.20	0.01
SC17042		0.23	98.0	<0.001	50.66	8.82	<0.01	0.04	<0.005	0.01	<0.01	1.36	5.05	0.003	0.13	0.01
SC17043		0.23		0.001	49.27	10.95	0.01	0.03	<0.005	0.02	<0.01	1.42	5.81	0.007	0.20	0.01
SC17044		0.19		<0.001	49.31	11.15	0.01	0.01	<0.005	0.01	<0.01	1.54	5.22	0.005	0.27	0.01
SC17045		0.19		0.001	49.91	12.05	0.02	0.06	<0.005	0.02	<0.01	1.80	5.85	0.008	0.27	0.01
SC17046		0.13		<0.001	48.29	13.35	<0.01	0.04	<0.005	0.01	<0.01	2.13	5.71	0.013	0.36	0.02
SC17047		0.18		0.001	47.88	13.15	0.01	0.07	<0.005	0.01	<0.01	2.26	4.59	0.008	0.46	0.01
SC17048		0.22		0.001	51.28	11.15	0.01	0.07	<0.005	0.02	<0.01	1.66	5.26	0.007	0.32	0.01
SC17049		0.19		0.001	49.21	10.45	<0.01	0.07	<0.005	0.02	<0.01	1.82	4.97	0.006	0.35	0.01
SC17050		0.23	97.0	0.001	47.40	10.20	0.02	0.07	<0.005	0.02	<0.01	2.29	4.29	0.006	0.40	0.01
SC17050A		0.07		0.002	49.08	35.7	0.02	0.03	<0.005	0.04	<0.01	22.4	0.20	0.003	0.03	0.04
SC17051		0.16		0.001	49.93	15.25	<0.01	0.11	<0.005	0.02	<0.01	3.45	5.93	0.005	0.65	0.02
SC17052		0.15		0.001	47.71	12.95	0.02	0.08	<0.005	0.02	<0.01	1.80	6.82	0.005	0.27	0.01
SC17053		0.16		<0.001	49.55	12.20	0.01	0.07	<0.005	0.02	<0.01	1.59	6.78	0.004	0.18	0.01
SC17054		0.17		<0.001	47.84	11.45	0.01	0.06	<0.005	0.01	<0.01	1.59	6.52	0.004	0.18	0.01
SC17055		0.15		0.001	49.53	12.25	0.04	0.07	<0.005	0.02	<0.01	1.92	6.05	0.005	0.20	0.01
SC17056		0.15		0.001	49.16	9.18	0.01	0.08	<0.005	0.02	<0.01	1.42	5.11	0.004	0.12	0.02
SC17057		0.17		0.001	51.08	6.80	0.01	0.08	<0.005	0.01	<0.01	1.29	3.45	0.004	0.10	0.02
SC17058		0.15		<0.001	49.12	7.16	0.02	0.11	<0.005	0.01	<0.01	1.37	3.37	0.004	0.10	0.02
SC17059		0.15		0.002	47.73	6.30	0.01	0.21	<0.005	0.02	<0.01	1.79	3.01	0.006	0.13	0.03
SC17060		0.14		0.002	47.95	5.46	0.02	0.11	<0.005	0.01	<0.01	1.49	1.82	0.005	0.12	0.01
SC17061		0.18		0.001	49.43	7.21	0.01	0.06	<0.005	0.02	<0.01	1.59	3.43	0.005	0.12	0.01
SC17062		0.15		<0.001	49.73	9.03	0.01	0.04	<0.005	0.01	<0.01	1.17	5.16	0.003	0.10	0.01
SC17063		0.21		<0.001	50.65	10.05	0.01	0.06	<0.005	0.02	<0.01	1.12	5.84	0.003	0.10	<0.01
SC17064		0.15		<0.001	48.77	9.11	0.01	0.04	<0.005	0.01	<0.01	0.90	5.76	0.003	0.08	<0.01
SC17065		0.13		0.003	47.31	10.95	0.01	0.08	<0.005	0.02	<0.01	1.37	6.38	0.004	0.17	0.01
SC17066		0.17		0.001	50.45	10.00	0.02	0.03	<0.005	0.02	<0.01	1.27	5.51	0.005	0.15	<0.01
SC17067		0.17		<0.001	52.21	11.25	0.02	0.06	<0.005	0.02	<0.01	1.19	6.79	0.004	0.12	0.01
SC17068		0.16		<0.001	48.19	12.00	0.02	0.06	<0.005	0.01	<0.01	1.50	6.63	0.005	0.23	0.01
SC17069		0.20		<0.001	51.51	11.45	0.01	0.03	<0.005	0.01	<0.01	1.69	5.66	0.004	0.25	0.01
SC17070		0.16		0.001	47.97	10.90	0.01	0.08	<0.005	0.01	<0.01	2.57	3.54	0.004	0.36	0.01
SC17071		0.16		0.001	49.51	9.94	0.01	0.11	<0.005	0.01	<0.01	2.44	2.90	0.004	0.30	0.01
SC17072		0.12		0.001	49.58	11.30	0.02	0.17	<0.005	0.01	<0.01	2.62	2.98	0.004	0.23	0.01
SC17073		0.12		0.001	49.55	7.61	0.01	0.10	<0.005	0.01	<0.01	1.86	2.20	0.005	0.18	0.01
SC17074		0.13		0.001	50.53	7.22	0.02	0.14	<0.005	0.01	<0.01	2.07	2.79	0.005	0.17	0.02

Comments: Total sample weighed in some instances as indicated in Wt. Sample column.

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CERTIFICATE OF ANALYSIS AD17255501

Sample Description	Method Analyte Units LOR	ME-ICP89	ME-ICP89	ME-ICP89	ME-ICP89	ME-ICP89	ME-ICP89	ME-MS91	ME-MS91	ME-MS91	ME-MS91	ME-MS91	ME-MS91
		Ni	Pb	S	SiO2	TiO2	Zn	Cs	Nb	Rb	Sn	Ta	Th
		%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.005	0.01	0.01	0.2	0.02	0.01	0.2	5	0.5	5	0.5	0.5
SC17036		<0.005	<0.01	<0.01	83.4	0.32	<0.01	16.2	20	197.0	774	16.2	20.8
SC17037		<0.005	<0.01	0.01	85.1	0.32	<0.01	15.5	15	152.5	472	10.6	14.6
SC17038		<0.005	0.01	<0.01	84.1	0.27	<0.01	48.3	21	202	414	13.8	18.4
SC17039		<0.005	0.01	0.01	80.4	0.36	0.01	62.1	29	277	673	27.8	24.3
SC17040		<0.005	0.01	0.01	82.8	0.27	0.01	55.4	18	245	571	26.0	21.9
SC17041		<0.005	0.01	0.01	84.7	0.19	0.01	16.8	5	173.5	137	4.0	15.2
SC17042		<0.005	0.01	0.01	81.5	0.19	0.01	19.6	8	274	119	4.9	17.3
SC17043		<0.005	0.01	0.01	77.9	0.18	<0.01	98.7	17	416	117	9.0	18.8
SC17044		<0.005	0.01	0.01	72.7	0.20	<0.01	31.2	16	339	118	8.0	24.9
SC17045		<0.005	0.02	<0.01	76.6	0.25	<0.01	55.2	24	399	156	22.0	34.3
SC17046		<0.005	0.01	<0.01	74.7	0.29	<0.01	114.5	37	470	493	42.3	34.4
SC17047		<0.005	<0.01	0.01	74.7	0.31	<0.01	64.6	39	390	576	41.2	25.9
SC17048		<0.005	0.01	0.02	77.9	0.21	0.01	44.6	21	319	200	8.2	35.3
SC17049		<0.005	0.01	0.02	82.4	0.20	<0.01	39.4	11	301	212	12.0	22.4
SC17050		<0.005	0.01	0.01	81.5	0.28	<0.01	31.4	13	265	180	5.4	23.9
SC17050A		<0.005	<0.01	0.06	22.5	1.59	<0.01	2.6	24	18.9	8	2.6	89.1
SC17051		<0.005	0.01	0.01	71.4	0.42	<0.01	26.8	25	331	329	9.3	44.9
SC17052		<0.005	0.01	0.01	74.4	0.34	<0.01	26.6	24	397	236	6.4	50.1
SC17053		<0.005	0.01	<0.01	78.3	0.26	<0.01	22.2	13	363	43	2.8	25.0
SC17054		<0.005	0.01	0.30	79.4	0.27	<0.01	19.6	14	352	37	2.7	29.8
SC17055		<0.005	0.01	<0.01	76.4	0.33	<0.01	28.4	22	377	140	5.6	39.6
SC17056		<0.005	0.01	0.01	81.1	0.33	<0.01	15.7	15	282	150	4.9	38.8
SC17057		<0.005	0.01	0.01	83.6	0.29	<0.01	11.6	14	190.0	108	5.5	30.3
SC17058		<0.005	0.01	0.01	82.4	0.30	<0.01	9.5	12	186.5	49	2.2	26.9
SC17059		<0.005	0.01	0.01	82.6	0.29	<0.01	9.6	16	184.5	41	2.3	25.7
SC17060		<0.005	0.01	0.02	86.2	0.29	<0.01	7.7	13	120.5	63	2.4	33.6
SC17061		<0.005	0.01	0.01	86.9	0.22	<0.01	14.2	13	200	188	6.1	42.7
SC17062		<0.005	0.01	0.01	84.5	0.19	<0.01	10.6	8	249	50	2.0	33.5
SC17063		<0.005	0.01	0.01	83.9	0.18	0.01	9.8	8	288	17	1.6	25.5
SC17064		<0.005	0.01	0.01	83.9	0.16	<0.01	9.9	9	282	39	1.7	23.5
SC17065		<0.005	0.01	<0.01	78.7	0.16	<0.01	23.8	13	365	66	3.2	19.8
SC17066		<0.005	0.01	<0.01	80.2	0.22	<0.01	23.4	17	346	81	4.1	28.8
SC17067		<0.005	0.01	0.01	78.5	0.13	<0.01	31.5	9	375	57	3.3	17.5
SC17068		<0.005	<0.01	<0.01	80.4	0.19	<0.01	23.0	13	338	52	3.8	21.5
SC17069		<0.005	<0.01	0.01	81.9	0.25	<0.01	13.8	13	274	25	2.8	26.7
SC17070		<0.005	<0.01	0.02	80.6	0.48	<0.01	19.6	24	197.0	38	7.7	46.5
SC17071		<0.005	<0.01	0.01	80.4	0.32	<0.01	7.2	17	171.0	22	2.0	22.9
SC17072		<0.005	0.01	0.01	76.6	0.41	<0.01	11.5	24	192.0	75	4.9	27.2
SC17073		<0.005	<0.01	0.01	85.4	0.33	<0.01	10.6	20	146.5	250	6.7	22.0
SC17074		<0.005	<0.01	0.01	84.5	0.32	<0.01	13.4	18	178.0	144	5.0	26.9

Comments: Total sample weighed in some instances as indicated in Wt. Sample column.

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Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	PUL-QC Pass75um % 0.01	Au-ICP22 Au ppm 0.001	Au-ICP22 WT. SAMP g 0.01	ME-ICP89 Al2O3 % 0.02	ME-ICP89 As % 0.01	ME-ICP89 CaO % 0.01	ME-ICP89 Co % 0.005	ME-ICP89 Cr2O3 % 0.01	ME-ICP89 Cu % 0.01	ME-ICP89 Fe2O3 % 0.01	ME-ICP89 K2O % 0.01	ME-ICP89 Li % 0.001	ME-ICP89 MgO % 0.01	ME-ICP89 MnO % 0.01
SC17075		0.13		<0.001	50.72	9.71	0.01	0.08	<0.005	0.01	<0.01	2.29	4.60	0.004	0.20	0.01
SC17075A		0.02				16.55	0.01	0.39	<0.005	0.01	<0.01	0.77	2.69	0.350	0.05	0.12
SC17076		0.15		<0.001	50.61	11.30	0.01	0.10	<0.005	0.01	<0.01	2.13	5.91	0.003	0.27	0.01
SC17077		0.15		<0.001	47.33	6.67	0.01	0.10	<0.005	0.01	<0.01	1.84	2.07	0.006	0.20	0.01
SC17078		0.13		<0.001	51.21	8.96	0.01	0.08	<0.005	0.01	<0.01	2.09	2.95	0.005	0.35	0.01
SC17079		0.17		0.001	50.45	7.54	<0.01	0.06	<0.005	0.01	<0.01	1.56	3.23	0.004	0.22	0.01
SC17080		0.17		0.001	50.55	7.33	0.01	0.04	<0.005	0.02	<0.01	1.57	3.49	0.003	0.17	0.01
SC17087		0.23	97.0	<0.001	52.34	11.15	0.01	0.06	<0.005	0.01	<0.01	2.43	2.90	0.005	0.23	0.01
SC17088		0.16		<0.001	50.96	9.73	0.01	0.06	<0.005	0.01	<0.01	1.29	5.55	0.003	0.17	0.01
SC17089		0.15		<0.001	51.36	10.40	0.01	0.04	<0.005	0.01	<0.01	1.50	5.29	0.003	0.22	0.01
SC17090		0.17		0.001	47.52	10.35	0.01	0.04	<0.005	0.01	<0.01	1.37	5.35	0.004	0.23	0.01
SC17091		0.18		0.001	47.69	10.60	0.01	0.04	<0.005	0.01	<0.01	1.67	5.65	0.002	0.23	0.01
SC17092		0.16		0.001	50.93	10.90	0.01	0.11	<0.005	0.01	<0.01	1.96	5.76	0.003	0.27	0.01
SC17093		0.12		0.001	49.93	10.25	0.01	0.07	<0.005	0.01	<0.01	1.73	5.38	0.004	0.22	0.01
SC17094		0.14		0.001	48.24	9.58	0.01	0.08	<0.005	0.01	<0.01	1.96	3.61	0.004	0.30	0.01
SC17095		0.14		0.001	50.26	10.70	0.01	0.08	<0.005	0.01	<0.01	2.09	2.95	0.005	0.22	0.01
SC17096		0.17		0.007	49.67	11.60	0.02	0.06	<0.005	0.01	<0.01	2.14	3.22	0.004	0.23	0.01
SC17097		0.19		0.015	50.91	11.00	0.02	0.04	<0.005	0.02	<0.01	2.07	4.96	0.004	0.28	0.01
SC17098		0.14		0.038	47.85	10.50	0.01	0.07	<0.005	0.01	<0.01	2.33	4.37	0.004	0.27	0.01
SC17099		0.17		0.019	50.26	10.00	0.01	0.07	<0.005	0.01	<0.01	2.50	3.02	0.004	0.38	0.01
SC17100		0.13		0.016	49.89	6.07	0.01	0.10	<0.005	0.01	<0.01	2.32	1.63	0.005	0.23	0.02
SC17100A		0.02				17.10	0.01	0.53	<0.005	0.01	<0.01	0.73	3.11	0.193	0.03	0.09
SC17101		0.12		0.005	50.24	4.91	0.01	0.20	<0.005	0.01	<0.01	2.00	1.53	0.004	0.17	0.02
SC17102		0.14		0.003	48.86	4.91	0.01	0.32	<0.005	0.01	<0.01	1.69	1.54	0.004	0.18	0.02
SC17103		0.13		0.010	50.12	8.26	0.01	0.01	<0.005	0.01	<0.01	1.94	3.38	0.004	0.18	0.01
SC17104		0.18		0.003	47.70	11.30	0.01	<0.01	<0.005	0.01	<0.01	2.02	5.22	0.003	0.22	0.01
SC17105		0.18		0.001	50.85	9.20	<0.01	0.04	<0.005	<0.01	<0.01	1.57	4.97	0.003	0.17	0.01
SC17106		0.14		0.002	49.11	9.26	<0.01	<0.01	<0.005	<0.01	<0.01	1.53	4.72	0.003	0.17	0.01
SC17107		0.15		0.001	49.93	10.15	0.01	0.03	<0.005	0.01	<0.01	1.70	4.82	0.003	0.17	0.01
SC17108		0.13		0.001	49.46	9.40	<0.01	0.03	<0.005	0.01	<0.01	1.52	5.16	0.003	0.13	0.01
SC17109		0.17		0.001	50.53	9.25	<0.01	0.03	<0.005	<0.01	<0.01	1.34	5.18	0.003	0.12	0.01
SC17110		0.13		0.001	48.59	9.91	<0.01	0.03	<0.005	0.01	<0.01	1.47	5.00	0.003	0.12	0.01
SC17111		0.21		0.001	48.64	9.34	0.01	0.04	<0.005	<0.01	<0.01	1.44	5.25	0.003	0.13	0.01
SC17112		0.18		0.001	48.85	9.91	0.02	0.06	<0.005	0.02	<0.01	1.56	5.19	0.004	0.15	0.01
SC17113		0.12		0.001	49.42	15.50	0.03	0.06	<0.005	0.02	<0.01	3.49	6.32	0.009	0.57	0.02
SC17114		0.12		<0.001	51.22	16.15	0.03	0.13	<0.005	0.01	<0.01	3.36	7.01	0.006	0.67	0.01
SC17115		0.18		<0.001	48.29	13.85	0.01	0.04	<0.005	0.01	<0.01	2.67	6.41	0.004	0.48	0.01
SC17116		0.18		<0.001	49.32	12.05	0.01	0.03	<0.005	0.01	<0.01	1.99	5.52	0.003	0.34	0.01
SC17117		0.14		0.001	50.01	11.65	0.01	0.06	<0.005	0.01	<0.01	2.12	5.43	0.003	0.40	0.01
SC17118		0.19		0.002	25.57	12.05	0.03	0.03	<0.005	0.01	<0.01	2.34	5.20	0.004	0.44	0.01

Comments: Total sample weighed in some instances as indicated in Wt. Sample column.

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



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Project: SC17-06

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Finalized Date: 22-DEC-2017
Account: TODRIV

CERTIFICATE OF ANALYSIS AD17255501

Sample Description	Method Analyte Units LOR	ME-ICP89 Ni %	ME-ICP89 Pb %	ME-ICP89 S %	ME-ICP89 SiO2 %	ME-ICP89 TiO2 %	ME-ICP89 Zn %	ME-MS91 Cs ppm	ME-MS91 Nb ppm	ME-MS91 Rb ppm	ME-MS91 Sn ppm	ME-MS91 Ta ppm	ME-MS91 Th ppm	ME-MS91 U ppm
		0.005	0.01	0.01	0.2	0.02	0.01	0.2	5	0.5	5	0.5	0.5	0.5
SC17075		<0.005	0.01	<0.01	81.9	0.37	<0.01	19.9	22	267	121	8.5	39.8	7.2
SC17075A		<0.005	<0.01	<0.01	74.9	<0.02	0.01	147.5	45	3850	488	435	4.5	5.4
SC17076		<0.005	<0.01	0.01	77.7	0.36	<0.01	19.0	20	332	48	4.9	38.9	7.5
SC17077		<0.005	<0.01	<0.01	86.6	0.30	<0.01	17.9	15	142.5	19	2.6	22.5	4.4
SC17078		<0.005	<0.01	<0.01	84.3	0.27	<0.01	29.8	14	174.5	29	2.2	20.1	4.4
SC17079		<0.005	<0.01	<0.01	88.3	0.26	<0.01	20.8	13	171.0	51	4.7	27.1	5.9
SC17080		<0.005	0.01	0.01	87.5	0.24	<0.01	17.4	11	172.0	24	2.0	26.6	5.9
SC17087		<0.005	<0.01	<0.01	83.2	0.40	<0.01	11.8	26	206	323	11.4	26.7	4.6
SC17088		<0.005	0.01	<0.01	84.3	0.19	<0.01	14.4	9	244	12	1.2	13.7	3.5
SC17089		<0.005	<0.01	<0.01	82.4	0.25	<0.01	13.5	12	239	47	1.8	20.2	5.0
SC17090		<0.005	<0.01	0.01	82.1	0.21	<0.01	16.2	10	255	23	1.6	16.9	4.0
SC17091		<0.005	<0.01	<0.01	78.3	0.23	<0.01	14.8	11	271	11	1.1	20.3	4.8
SC17092		<0.005	<0.01	<0.01	80.0	0.20	<0.01	15.1	11	274	11	1.2	18.2	3.9
SC17093		<0.005	<0.01	<0.01	81.7	0.23	<0.01	13.5	12	263	14	1.3	22.6	5.1
SC17094		<0.005	<0.01	<0.01	78.3	0.28	<0.01	10.1	16	197.0	19	1.7	28.6	6.3
SC17095		<0.005	<0.01	0.01	81.5	0.27	<0.01	7.5	17	172.0	16	1.7	20.1	4.1
SC17096		<0.005	<0.01	<0.01	79.4	0.32	<0.01	8.9	19	181.5	10	2.7	25.2	4.3
SC17097		<0.005	0.01	<0.01	77.0	0.27	<0.01	17.8	16	282	15	1.5	25.8	5.6
SC17098		<0.005	<0.01	<0.01	77.7	0.31	<0.01	14.1	18	263	10	1.9	29.0	6.1
SC17099		<0.005	0.01	<0.01	79.6	0.31	<0.01	12.0	21	220	10	1.8	24.4	5.3
SC17100		<0.005	<0.01	0.01	90.9	0.26	<0.01	9.1	18	116.0	11	1.9	17.3	3.9
SC17100A		<0.005	<0.01	0.01	74.9	<0.02	<0.01	177.0	62	4200	424	782	3.6	5.8
SC17101		<0.005	<0.01	<0.01	82.8	0.25	<0.01	8.4	15	116.5	22	5.5	18.6	4.2
SC17102		<0.005	<0.01	0.01	83.2	0.22	<0.01	10.7	13	116.5	20	2.3	15.0	3.8
SC17103		<0.005	<0.01	0.01	85.8	0.29	<0.01	15.1	16	206	52	2.5	27.9	6.0
SC17104		<0.005	0.01	<0.01	76.2	0.27	<0.01	19.9	20	326	37	4.1	33.1	6.8
SC17105		<0.005	0.01	<0.01	77.0	0.20	<0.01	19.2	19	282	51	2.8	24.8	5.7
SC17106		<0.005	0.01	<0.01	75.9	0.21	<0.01	15.6	16	281	48	2.8	34.6	7.7
SC17107		<0.005	<0.01	0.02	82.6	0.26	<0.01	14.8	15	269	93	4.3	28.7	6.4
SC17108		<0.005	0.01	<0.01	84.3	0.20	<0.01	13.0	17	273	31	1.9	19.2	4.6
SC17109		<0.005	0.01	0.01	85.4	0.18	<0.01	13.5	12	265	54	2.4	20.2	5.2
SC17110		<0.005	<0.01	<0.01	84.7	0.19	<0.01	14.5	11	266	104	3.1	16.8	4.4
SC17111		<0.005	0.01	<0.01	78.9	0.22	<0.01	16.7	17	282	229	6.4	21.2	5.6
SC17112		<0.005	<0.01	<0.01	81.1	0.27	<0.01	17.0	21	287	284	10.0	30.1	8.1
SC17113		<0.005	0.01	<0.01	71.2	0.41	<0.01	53.2	42	432	414	13.0	63.2	13.7
SC17114		<0.005	0.01	<0.01	68.2	0.31	0.01	44.5	27	430	96	4.2	41.7	9.2
SC17115		<0.005	<0.01	0.03	75.5	0.27	<0.01	20.2	20	357	26	1.9	31.2	7.4
SC17116		<0.005	<0.01	<0.01	81.3	0.28	0.01	13.1	18	298	124	2.9	56.9	12.9
SC17117		<0.005	<0.01	0.01	79.6	0.25	<0.01	13.8	15	303	44	2.3	32.0	7.9
SC17118		<0.005	<0.01	0.01	80.6	0.29	0.01	16.7	20	296	27	2.5	36.0	9.1

Comments: Total sample weighed in some instances as indicated in Wt. Sample column.

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



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Project: SC17-06

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Account: TODRIV

CERTIFICATE OF ANALYSIS AD17255501

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	PUL-QC Pass75um % 0.01	Au-ICP22 Au ppm 0.001	Au-ICP22 WT. SAMP g 0.01	ME-ICP89 Al2O3 % 0.02	ME-ICP89 As % 0.01	ME-ICP89 CaO % 0.01	ME-ICP89 Co % 0.005	ME-ICP89 Cr2O3 % 0.01	ME-ICP89 Cu % 0.01	ME-ICP89 Fe2O3 % 0.01	ME-ICP89 K2O % 0.01	ME-ICP89 Li % 0.001	ME-ICP89 MgO % 0.01	ME-ICP89 MnO % 0.01
SC171119		0.18		0.001	47.90	11.10	0.01	0.01	<0.005	0.02	<0.01	2.42	5.61	0.003	0.29	0.01
SC171120		0.14		0.001	49.47	13.35	0.02	0.01	<0.005	0.02	<0.01	2.59	6.28	0.004	0.39	0.01
SC171121		0.20		0.001	48.55	13.55	0.02	0.01	<0.005	0.02	<0.01	2.64	6.12	0.004	0.40	0.01
SC171122		0.18		0.001	49.30	11.90	<0.01	0.01	<0.005	0.01	<0.01	1.99	5.93	0.005	0.32	<0.01
SC171123		0.16		0.001	47.90	10.30	<0.01	<0.01	<0.005	<0.01	<0.01	1.47	5.41	0.004	0.23	<0.01
SC171124		0.10		0.002	25.28	10.65	0.01	0.03	<0.005	0.02	<0.01	1.90	5.46	0.003	0.22	0.01
SC171125		0.17		0.001	47.43	10.20	0.02	0.03	<0.005	0.01	<0.01	1.54	5.36	0.003	0.19	0.01
SC171125A		0.07		NSS	<0.01	34.6	0.03	<0.01	<0.005	0.04	<0.01	23.1	0.23	0.003	0.05	0.04
SC171126		0.23	99.0	0.001	49.37	9.72	0.01	<0.01	<0.005	0.01	<0.01	1.53	5.48	0.003	0.14	0.01
SC171127		0.19		0.001	51.49	9.22	0.02	<0.01	<0.005	0.01	<0.01	1.37	5.06	0.003	0.16	0.01
SC171128		0.20		0.001	50.51	8.46	0.01	<0.01	<0.005	0.01	<0.01	1.29	4.84	0.003	0.14	0.01
SC171129		0.15		0.001	47.61	10.70	0.01	0.03	<0.005	0.02	<0.01	2.27	4.35	0.005	0.47	0.01
SC171130		0.14		0.002	49.17	12.45	0.02	0.08	<0.005	0.02	<0.01	3.67	4.05	0.007	0.65	0.02
SC171131		0.20		0.001	49.18	10.20	0.02	0.03	<0.005	0.02	<0.01	2.43	3.84	0.005	0.44	0.02
SC171132		0.17		0.001	48.32	13.30	<0.01	0.06	<0.005	0.02	<0.01	3.30	4.41	0.006	0.74	0.02
SC171133		0.22		0.001	48.31	10.45	0.02	0.06	<0.005	0.02	<0.01	2.32	4.00	0.005	0.49	0.02
SC171134		0.18		0.001	49.29	8.63	0.01	<0.01	<0.005	0.01	<0.01	2.19	3.34	0.006	0.46	0.01
SC171135		0.17		0.001	50.96	8.94	0.01	0.01	<0.005	0.02	<0.01	1.99	3.51	0.004	0.38	0.02
SC171136		0.29		0.001	52.11	9.36	0.01	<0.01	<0.005	0.01	<0.01	1.97	3.60	0.004	0.41	0.02
SC171143		0.14		0.001	49.17	6.79	<0.01	0.17	<0.005	0.01	<0.01	2.56	2.47	0.005	0.23	0.03
SC171144		0.16		0.002	47.69	5.31	0.01	0.10	<0.005	0.02	<0.01	2.06	2.35	0.003	0.17	0.02
SC171145		0.19		0.001	25.88	6.04	<0.01	0.03	<0.005	0.01	<0.01	1.92	1.95	0.003	0.18	0.01
SC171146		0.15		0.001	25.30	8.11	<0.01	0.03	<0.005	0.01	<0.01	2.13	2.43	0.004	0.33	0.01
SC171147		0.12		0.001	47.14	8.28	0.01	0.03	<0.005	0.01	<0.01	2.30	2.58	0.005	0.32	0.01
SC171148		0.12		NSS	<0.01	7.19	<0.01	0.08	<0.005	0.01	<0.01	2.02	2.61	0.002	0.27	0.02
SC171149		0.16		0.001	25.79	8.18	<0.01	0.07	<0.005	0.01	<0.01	1.72	3.52	0.004	0.27	0.01
SC171150		0.20		0.001	50.27	7.98	0.01	0.04	<0.005	0.01	<0.01	1.53	3.98	0.004	0.18	0.01
SC171150A		<0.02				16.25	0.01	0.36	<0.005	0.03	<0.01	0.81	2.55	0.339	0.07	0.12
SC171151		0.17		0.001	47.40	9.63	<0.01	0.04	<0.005	0.01	<0.01	1.63	4.20	0.005	0.27	0.01
SC171152		0.06		NSS	<0.01	17.05	0.01	0.04	<0.005	0.02	<0.01	2.86	4.85	0.024	0.51	0.03
SC171153		0.10		0.001	50.32	15.35	<0.01	0.03	<0.005	0.01	<0.01	2.67	6.11	0.012	0.46	0.01
SC171154		0.12		0.001	49.31	14.50	0.01	0.03	<0.005	0.01	<0.01	2.75	6.18	0.014	0.41	0.02
SC171155		0.09		0.002	25.75	14.70	0.01	0.28	<0.005	0.02	<0.01	2.66	6.20	0.006	0.36	0.01
SC171156		0.11		0.001	47.25	13.50	<0.01	0.03	<0.005	0.02	<0.01	2.56	5.81	0.010	0.50	0.02
SC171157		0.09		0.001	25.35	15.75	0.02	0.07	<0.005	0.01	<0.01	3.10	5.08	0.021	0.65	0.02
SC171158		0.13		0.001	48.04	14.80	0.01	0.06	<0.005	0.01	<0.01	2.63	5.60	0.007	0.61	0.02
SC171159		0.11		NSS	<0.01	12.20	<0.01	0.04	<0.005	0.01	<0.01	2.29	4.59	0.007	0.43	0.01
SC171160		0.14		0.001	51.78	16.60	<0.01	0.04	<0.005	0.01	<0.01	2.64	4.73	0.004	0.56	0.01
SC171161		0.17		0.001	48.09	13.45	0.02	0.08	<0.005	0.01	<0.01	2.53	3.82	0.008	0.33	0.02
SC171162		0.13		0.001	51.97	13.75	0.01	0.14	<0.005	0.01	<0.01	2.54	4.19	0.009	0.36	0.02

Comments: Total sample weighed in some instances as indicated in Wt. Sample column.

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CERTIFICATE OF ANALYSIS AD17255501

Sample Description	Method Analyte Units LOR	ME-ICP89	ME-ICP89	ME-ICP89	ME-ICP89	ME-ICP89	ME-ICP89	ME-MS91	ME-MS91	ME-MS91	ME-MS91	ME-MS91	ME-MS91
		Ni	Pb	S	SiO2	TiO2	Zn	Cs	Nb	Rb	Sn	Ta	Th
		%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.005	0.01	0.01	0.2	0.02	0.01	0.2	5	0.5	5	0.5	0.5
SC17119		<0.005	0.01	<0.01	76.8	0.24	<0.01	17.3	17	306	42	2.5	28.1
SC17120		<0.005	0.01	<0.01	78.3	0.34	<0.01	17.1	23	344	41	3.0	49.1
SC17121		<0.005	<0.01	<0.01	77.7	0.41	<0.01	18.5	26	342	56	3.9	55.1
SC17122		<0.005	0.01	0.02	80.9	0.27	<0.01	14.4	17	305	55	2.2	28.2
SC17123		<0.005	0.01	<0.01	75.1	0.25	<0.01	13.6	18	286	44	2.4	32.5
SC17124		0.005	<0.01	<0.01	75.5	0.25	<0.01	12.3	14	282	23	1.9	31.7
SC17125		<0.005	0.01	0.02	81.7	0.26	<0.01	13.2	14	271	37	3.5	28.2
SC17125A		0.005	<0.01	0.04	22.0	1.58	<0.01	2.6	27	13.9	6	2.7	81.5
SC17126		0.005	<0.01	<0.01	82.1	0.19	<0.01	14.0	12	293	20	1.9	16.5
SC17127		<0.005	<0.01	<0.01	79.8	0.30	<0.01	15.0	21	275	282	13.5	32.2
SC17128		<0.005	<0.01	<0.01	80.4	0.24	<0.01	12.7	20	255	862	15.5	25.7
SC17129		0.005	<0.01	<0.01	83.4	0.27	<0.01	20.8	17	255	463	9.0	27.9
SC17130		<0.005	<0.01	<0.01	74.4	0.38	<0.01	25.1	17	271	98	3.9	18.1
SC17131		<0.005	<0.01	<0.01	84.1	0.30	<0.01	17.5	13	228	160	4.9	18.5
SC17132		<0.005	0.01	0.10	77.7	0.39	0.01	19.6	20	272	91	5.0	35.0
SC17133		<0.005	<0.01	<0.01	83.6	0.30	<0.01	17.1	17	239	79	4.1	33.4
SC17134		<0.005	0.01	0.01	75.5	0.27	<0.01	19.8	15	226	86	3.5	26.0
SC17135		<0.005	<0.01	<0.01	81.7	0.30	<0.01	15.6	18	213	429	10.3	28.9
SC17136		<0.005	<0.01	<0.01	84.1	0.23	<0.01	14.7	9	200	95	2.1	16.7
SC17143		<0.005	<0.01	0.01	84.5	0.31	<0.01	12.0	19	186.0	230	11.3	18.7
SC17144		<0.005	<0.01	<0.01	82.8	0.29	<0.01	12.2	18	168.0	382	8.2	17.5
SC17145		<0.005	<0.01	<0.01	90.5	0.25	<0.01	12.1	13	145.5	275	5.6	13.3
SC17146		<0.005	<0.01	<0.01	85.6	0.29	<0.01	17.6	18	185.5	331	7.3	15.9
SC17147		<0.005	<0.01	<0.01	85.1	0.31	<0.01	18.1	21	194.0	320	7.0	16.9
SC17148		<0.005	<0.01	0.02	82.1	0.31	<0.01	10.4	18	180.5	554	10.6	17.2
SC17149		<0.005	<0.01	0.02	86.4	0.27	<0.01	12.4	18	232	304	5.5	18.1
SC17150		<0.005	<0.01	0.01	85.4	0.23	<0.01	19.5	20	254	346	8.8	20.0
SC17150A		<0.005	<0.01	0.03	74.2	<0.02	0.01	158.0	56	3960	400	410	3.5
SC17151		<0.005	<0.01	0.04	82.8	0.25	<0.01	21.9	20	285	363	9.2	22.0
SC17152		<0.005	<0.01	0.03	67.6	0.28	0.01	86.5	40	687	621	18.0	27.5
SC17153		<0.005	<0.01	0.01	73.8	0.31	<0.01	42.4	32	507	600	12.2	32.6
SC17154		<0.005	<0.01	<0.01	72.3	0.25	<0.01	56.1	29	534	271	7.6	28.3
SC17155		<0.005	0.01	<0.01	73.6	0.22	0.01	29.7	20	455	21	1.8	20.2
SC17156		<0.005	<0.01	0.01	74.7	0.24	<0.01	70.0	27	493	408	11.2	22.7
SC17157		<0.005	<0.01	<0.01	68.0	0.33	<0.01	129.5	40	568	709	17.1	30.0
SC17158		<0.005	0.01	<0.01	70.4	0.35	<0.01	28.9	36	424	733	12.6	34.3
SC17159		<0.005	<0.01	<0.01	77.4	0.31	<0.01	31.1	30	359	375	8.1	28.6
SC17160		0.006	<0.01	<0.01	70.6	0.38	<0.01	18.2	33	329	242	7.5	29.9
SC17161		<0.005	<0.01	<0.01	75.5	0.29	<0.01	69.7	32	429	423	11.4	24.2
SC17162		<0.005	<0.01	0.01	75.1	0.28	<0.01	43.4	51	404	2110	42.9	26.4

Comments: Total sample weighed in some instances as indicated in Wt. Sample column.

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



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Project: SC17-06

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Plus Appendix Pages
Finalized Date: 22-DEC-2017
Account: TODRIV

CERTIFICATE OF ANALYSIS AD17255501

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	PUL-QC Pass75um % 0.01	Au-ICP22 Au ppm 0.001	Au-ICP22 WT. SAMP g 0.01	ME-ICP89 Al2O3 % 0.02	ME-ICP89 As % 0.01	ME-ICP89 CaO % 0.01	ME-ICP89 Co % 0.005	ME-ICP89 Cr2O3 % 0.01	ME-ICP89 Cu % 0.01	ME-ICP89 Fe2O3 % 0.01	ME-ICP89 K2O % 0.01	ME-ICP89 Li % 0.001	ME-ICP89 MgO % 0.01	ME-ICP89 MnO % 0.01
SC17163		0.09		0.003	25.80	14.60	<0.01	0.13	<0.005	<0.01	<0.01	3.33	5.75	0.008	0.58	0.03
SC17164		0.15		0.001	49.86	14.85	0.02	0.06	<0.005	0.01	<0.01	2.85	6.36	0.006	0.58	0.03
SC17165		0.10		<0.001	25.17	17.25	0.03	0.08	<0.005	0.01	<0.01	4.49	6.42	0.007	0.85	0.02
SC17166		0.14		0.002	50.99	12.35	<0.01	0.06	<0.005	0.01	<0.01	2.97	4.25	0.005	0.58	0.01
SC17167		0.19		0.001	47.27	10.85	<0.01	0.06	<0.005	0.01	<0.01	2.60	3.36	0.004	0.50	0.01
SC17168		0.14		0.001	48.73	11.85	0.01	0.08	<0.005	0.02	<0.01	3.13	3.88	0.003	0.60	0.01
SC17169		0.12		0.001	48.21	10.65	<0.01	0.11	<0.005	0.02	<0.01	2.90	3.35	0.004	0.46	0.01
SC17170		0.14		0.001	48.54	9.46	<0.01	0.11	<0.005	0.01	<0.01	2.83	2.78	0.003	0.35	0.01
SC17171		0.15		0.001	50.46	9.31	0.01	0.11	<0.005	0.02	<0.01	3.09	2.77	0.004	0.40	0.01
SC17172		0.15		0.001	49.99	8.78	0.02	0.07	<0.005	0.02	<0.01	3.12	2.99	0.004	0.53	0.02
SC17173		0.14		0.002	25.32	8.28	0.02	0.04	<0.005	0.02	<0.01	2.50	2.94	0.005	0.65	0.02
SC17174		0.11		0.002	25.04	12.55	0.01	0.08	<0.005	0.01	<0.01	3.02	4.57	0.005	0.71	0.03
SC17175		0.02				16.90	<0.01	0.49	<0.005	<0.01	<0.01	0.79	3.00	0.186	0.03	0.10
SC17176		0.14		0.001	47.22	12.35	0.01	0.07	<0.005	<0.01	<0.01	3.07	4.41	0.004	0.54	0.02
SC17177		0.09		0.002	24.89	12.55	<0.01	0.08	<0.005	<0.01	<0.01	3.73	4.43	0.004	0.55	0.02
SC17178		0.08		0.003	21.50	14.60	0.02	0.08	<0.005	<0.01	<0.01	3.86	5.20	0.004	0.49	0.02
SC17179		0.11		0.001	25.26	14.35	0.01	0.06	<0.005	<0.01	<0.01	3.63	5.26	0.009	0.60	0.02
SC17180		0.13		0.001	51.22	14.15	0.02	0.06	<0.005	<0.01	<0.01	2.85	6.73	0.005	0.58	0.02
SC17181		0.11		0.001	48.16	8.69	0.02	0.11	<0.005	<0.01	<0.01	3.40	2.92	0.004	0.37	0.01
SC17182		0.11		NSS	<0.01	11.45	0.02	0.06	<0.005	<0.01	<0.01	2.93	4.37	0.008	0.57	0.02
SC17183		0.18		0.002	25.57	15.55	0.02	0.06	<0.005	<0.01	<0.01	3.02	6.05	0.007	0.58	0.01
SC17184		0.14		0.002	25.83	13.80	0.02	0.06	<0.005	<0.01	<0.01	2.16	6.50	0.005	0.42	0.01
SC17185		0.16		0.001	25.28	12.25	0.03	0.04	<0.005	<0.01	<0.01	2.12	5.57	0.006	0.29	0.01
SC17186		0.12		NSS	<0.01	9.81	0.03	0.06	<0.005	<0.01	<0.01	2.03	4.60	0.005	0.30	0.01
SC17187		0.11		0.001	47.46	7.89	0.02	0.10	<0.005	<0.01	<0.01	2.16	3.72	0.005	0.27	0.03
SC17188		0.17		0.001	51.07	10.15	0.04	0.03	<0.005	<0.01	<0.01	2.54	4.89	0.007	0.30	0.01
SC17189		0.17		0.001	49.12	8.90	0.03	0.04	<0.005	<0.01	<0.01	1.82	5.30	0.004	0.14	0.01
SC17190		0.17		0.001	49.91	10.50	0.02	0.03	<0.005	<0.01	<0.01	2.24	5.25	0.006	0.28	0.01
SC17191		0.13		0.001	50.39	13.30	0.01	0.17	<0.005	<0.01	<0.01	3.10	5.37	0.008	0.57	0.03
SC17192		0.16		NSS	<0.01	9.17	0.01	0.08	<0.005	<0.01	<0.01	2.76	3.12	0.006	0.49	0.02
SC17193		0.15		0.001	48.38	9.22	0.03	0.08	<0.005	<0.01	<0.01	2.90	3.31	0.006	0.51	0.02
SC17194		0.15		0.001	49.98	9.68	0.02	0.07	<0.005	<0.01	<0.01	3.10	3.01	0.004	0.54	0.02
SC17195		0.15		0.003	25.38	9.93	0.02	0.08	<0.005	<0.01	0.01	3.39	2.99	0.005	0.62	0.02
SC17196		0.20	97.0	0.001	48.31	11.20	0.02	0.07	<0.005	<0.01	<0.01	2.67	3.57	0.004	0.48	0.01
SC17197		0.18		0.002	25.17	10.90	0.01	0.06	<0.005	<0.01	<0.01	2.33	3.95	0.004	0.37	0.01
SC17198		0.13		0.001	50.58	11.40	0.01	0.07	<0.005	<0.01	<0.01	2.29	4.48	0.004	0.36	0.01
SC17199		0.14		0.002	25.59	9.75	0.02	0.03	<0.005	0.02	<0.01	2.00	4.64	0.004	0.25	0.01
SC17200		0.08		NSS	<0.01	33.7	0.02	0.04	<0.005	0.03	<0.01	22.6	0.19	0.002	0.05	0.04
SC17201		0.11		0.001	50.18	10.65	0.02	0.06	<0.005	<0.01	<0.01	2.16	4.65	0.005	0.30	0.02
SC17202		0.15		0.001	50.96	11.40	0.03	0.06	<0.005	<0.01	<0.01	2.52	4.71	0.006	0.36	0.01

Comments: Total sample weighed in some instances as indicated in Wt. Sample column.

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



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CERTIFICATE OF ANALYSIS AD17255501

Sample Description	Method Analyte Units LOR	ME-ICP89	ME-ICP89	ME-ICP89	ME-ICP89	ME-ICP89	ME-ICP89	ME-MS91	ME-MS91	ME-MS91	ME-MS91	ME-MS91	ME-MS91
		Ni	Pb	S	SiO2	TiO2	Zn	Cs	Nb	Rb	Sn	Ta	Th
		%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.005	0.01	0.01	0.2	0.02	0.01	0.2	5	0.5	5	0.5	0.5
SC17163		<0.005	0.01	0.03	62.7	0.40	<0.01	31.1	26	411	51	4.1	49.0
SC17164		<0.005	<0.01	<0.01	72.1	0.40	<0.01	26.3	34	451	186	10.6	64.5
SC17165		<0.005	<0.01	0.18	66.3	0.47	<0.01	54.3	42	458	273	16.9	53.2
SC17166		<0.005	<0.01	<0.01	76.2	0.39	<0.01	24.1	25	279	165	7.0	29.8
SC17167		<0.005	<0.01	<0.01	79.8	0.39	<0.01	17.8	24	204	105	5.2	26.8
SC17168		<0.005	<0.01	0.01	77.7	0.43	<0.01	16.5	25	244	159	4.9	29.8
SC17169		<0.005	<0.01	<0.01	79.2	0.42	<0.01	17.7	26	211	154	5.6	25.0
SC17170		<0.005	<0.01	<0.01	83.9	0.43	<0.01	11.6	20	180.5	65	2.9	15.8
SC17171		<0.005	0.01	0.01	78.9	0.46	<0.01	13.3	20	211	72	3.3	15.2
SC17172		<0.005	<0.01	0.02	81.5	0.39	<0.01	13.4	22	196.0	282	16.0	18.6
SC17173		<0.005	<0.01	0.01	83.4	0.35	<0.01	26.3	20	211	310	10.6	22.2
SC17174		<0.005	<0.01	<0.01	75.7	0.39	<0.01	31.2	21	280	49	4.2	22.9
SC17175		<0.005	<0.01	0.03	71.4	<0.02	<0.01	177.5	58	3860	398	742	3.8
SC17176		<0.005	<0.01	0.02	75.3	0.38	<0.01	34.9	19	279	152	13.1	32.5
SC17177		<0.005	<0.01	0.02	74.4	0.31	<0.01	24.3	17	220	46	3.4	17.5
SC17178		<0.005	<0.01	0.02	69.5	0.36	<0.01	36.8	19	282	186	6.7	31.0
SC17179		<0.005	0.01	0.02	71.4	0.40	<0.01	96.6	39	446	639	22.4	41.2
SC17180		<0.005	<0.01	0.02	70.6	0.34	<0.01	36.0	83	405	4990	94.9	75.8
SC17181		<0.005	<0.01	0.02	80.4	0.40	<0.01	21.0	27	248	408	11.2	32.0
SC17182		<0.005	<0.01	0.02	74.2	0.39	<0.01	78.2	36	407	636	24.2	45.0
SC17183		<0.005	<0.01	0.02	70.0	0.42	<0.01	42.7	36	409	292	11.6	49.0
SC17184		<0.005	0.01	0.02	72.1	0.31	<0.01	31.4	33	409	247	9.4	35.6
SC17185		<0.005	<0.01	0.02	75.9	0.30	<0.01	27.8	40	390	1140	31.7	42.7
SC17186		<0.005	0.01	0.02	79.8	0.27	<0.01	26.3	33	333	203	8.5	27.9
SC17187		<0.005	<0.01	0.02	80.6	0.32	<0.01	18.8	20	215	204	6.3	20.3
SC17188		<0.005	<0.01	0.02	77.7	0.20	<0.01	48.3	31	339	779	22.1	17.6
SC17189		<0.005	<0.01	0.02	80.2	0.15	<0.01	30.3	16	330	229	9.8	17.6
SC17190		<0.005	0.01	0.01	78.1	0.27	<0.01	33.8	24	366	449	13.3	26.2
SC17191		<0.005	<0.01	0.03	68.2	0.32	<0.01	32.0	29	390	93	4.8	27.0
SC17192		<0.005	0.01	0.03	78.7	0.29	<0.01	24.9	20	236	612	9.2	19.2
SC17193		<0.005	<0.01	0.02	78.7	0.29	<0.01	34.4	19	262	157	4.0	18.3
SC17194		<0.005	0.01	0.02	78.1	0.34	<0.01	22.1	19	227	109	5.1	21.5
SC17195		<0.005	0.03	0.03	77.7	0.40	<0.01	30.1	25	232	25	3.5	22.5
SC17196		<0.005	<0.01	0.20	77.4	0.34	<0.01	21.1	18	235	31	2.3	19.7
SC17197		<0.005	0.01	0.02	78.7	0.35	<0.01	27.2	23	268	67	4.2	29.6
SC17198		<0.005	<0.01	0.03	75.9	0.34	<0.01	30.8	21	296	51	3.2	26.3
SC17199		<0.005	<0.01	<0.01	77.7	0.26	<0.01	33.0	27	322	129	5.7	26.6
SC17200		<0.005	<0.01	0.08	21.6	1.50	<0.01	2.0	37	16.1	9	3.5	86.3
SC17201		<0.005	<0.01	0.02	72.5	0.35	<0.01	40.5	25	315	111	8.7	31.5
SC17202		<0.005	<0.01	0.02	76.6	0.31	<0.01	46.4	26	333	285	9.8	26.7

Comments: Total sample weighed in some instances as indicated in Wt. Sample column.

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CERTIFICATE OF ANALYSIS AD17255501

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	PUL-QC Pass75um % 0.01	Au-ICP22 Au ppm 0.001	Au-ICP22 WT. SAMP g 0.01	ME-ICP89 Al2O3 % 0.02	ME-ICP89 As % 0.01	ME-ICP89 CaO % 0.01	ME-ICP89 Co % 0.005	ME-ICP89 Cr2O3 % 0.01	ME-ICP89 Cu % 0.01	ME-ICP89 Fe2O3 % 0.01	ME-ICP89 K2O % 0.01	ME-ICP89 Li % 0.001	ME-ICP89 MgO % 0.01	ME-ICP89 MnO % 0.01
SC17203		0.11		0.005	49.16	11.90	0.02	0.06	<0.005	<0.01	<0.01	2.64	4.94	0.007	0.38	0.01
SC17204		0.14		0.001	49.33	14.45	0.02	0.04	<0.005	<0.01	<0.01	2.76	6.46	0.007	0.52	0.01
SC17205		0.14		0.002	49.27	13.00	0.01	0.07	<0.005	<0.01	<0.01	2.62	5.88	0.006	0.46	0.01
SC17206		0.13		0.005	48.19	15.30	0.01	0.06	<0.005	<0.01	<0.01	3.03	6.11	0.006	0.59	0.01
SC17207		0.14		0.001	47.53	12.10	0.02	0.07	<0.005	<0.01	<0.01	2.54	5.40	0.007	0.42	0.02
SC17208		0.17		0.001	47.29	11.65	<0.01	0.04	<0.005	0.01	<0.01	2.17	4.96	0.005	0.41	0.01
SC17209		0.22	95.0	0.001	52.65	11.30	<0.01	0.01	<0.005	0.01	<0.01	2.24	4.73	0.002	0.40	0.01
SC17210		0.16		0.001	50.72	11.90	0.01	0.03	<0.005	0.01	<0.01	2.09	5.22	0.003	0.41	0.01
SC17211		0.19		0.001	50.11	13.00	0.01	<0.01	<0.005	0.01	<0.01	1.93	6.16	<0.001	0.38	0.01
SC17212		0.12		0.001	25.17	14.40	0.01	0.03	<0.005	0.01	<0.01	2.72	6.57	0.001	0.46	0.01
SC17213		0.11		0.001	25.26	11.70	<0.01	0.08	<0.005	0.01	<0.01	2.12	5.72	<0.001	0.25	0.01
SC17214		0.17		0.001	50.93	10.90	<0.01	0.03	<0.005	0.01	<0.01	1.72	5.75	<0.001	0.18	<0.01
SC17215		0.17		0.001	51.24	10.95	0.01	0.01	<0.005	0.01	<0.01	1.79	5.71	<0.001	0.22	0.01
SC17216		0.10		<0.001	49.18	11.65	<0.01	0.08	<0.005	0.01	<0.01	2.17	5.48	<0.001	0.27	0.01
SC17217		0.10		0.001	49.23	12.15	<0.01	0.03	<0.005	0.01	<0.01	2.29	5.42	<0.001	0.30	0.01
SC17218		0.12		0.001	48.28	11.70	<0.01	0.04	<0.005	0.01	<0.01	2.14	5.51	<0.001	0.28	0.01
SC17219		0.18		0.001	50.32	12.25	0.01	0.03	<0.005	0.01	<0.01	2.32	5.38	<0.001	0.33	0.01
SC17220		0.19		0.001	49.24	12.15	<0.01	0.01	<0.005	0.01	<0.01	2.60	5.02	0.001	0.38	0.01
SC17221		0.12		<0.001	49.82	11.15	<0.01	0.06	<0.005	0.01	<0.01	2.72	4.48	0.004	0.38	0.01
SC17222		0.13		0.001	50.31	9.13	<0.01	0.06	<0.005	0.01	<0.01	2.16	3.20	0.002	0.23	0.03
SC17223		0.10		0.001	49.00	8.22	0.01	<0.01	<0.005	0.01	<0.01	2.07	1.52	0.001	0.15	0.01
SC17224		0.10		<0.001	48.22	12.45	0.01	0.03	<0.005	0.01	<0.01	2.44	5.85	<0.001	0.25	0.01
SC17225		0.02				16.30	0.01	0.34	<0.005	0.01	<0.01	0.77	2.59	0.347	0.03	0.12
SC17226		0.18		0.001	49.46	12.90	0.01	<0.01	<0.005	0.01	<0.01	2.16	6.32	<0.001	0.27	<0.01
SC17227		0.14		<0.001	49.09	12.15	<0.01	0.01	<0.005	0.01	<0.01	1.79	6.47	<0.001	0.23	<0.01
SC17228		0.13		0.001	47.53	11.35	<0.01	0.06	<0.005	0.01	<0.01	1.73	6.38	<0.001	0.18	0.01
SC17229		0.16		<0.001	49.12	10.50	0.02	0.01	<0.005	0.01	<0.01	1.12	6.18	<0.001	0.13	<0.01
SC17230		0.18		0.001	49.63	10.75	0.01	0.01	<0.005	0.01	<0.01	1.50	6.36	<0.001	0.10	<0.01
SC17231		0.16		0.001	48.62	11.40	0.02	0.15	<0.005	0.01	<0.01	1.43	6.89	<0.001	0.13	<0.01
SC17232		0.11		0.001	25.60	11.60	0.01	0.04	<0.005	0.01	<0.01	1.90	6.13	<0.001	0.17	0.01
SC17233		0.14		0.001	25.59	11.05	0.03	0.01	<0.005	0.01	<0.01	1.34	6.44	<0.001	0.15	<0.01
SC17234		0.15		0.001	52.70	10.65	0.01	0.04	<0.005	0.01	<0.01	0.99	6.43	<0.001	0.13	<0.01
SC17235		0.18		0.001	51.98	9.82	<0.01	0.03	<0.005	0.02	<0.01	1.32	5.91	0.003	0.13	0.01
SC17236		0.14		0.001	48.99	11.65	<0.01	0.04	<0.005	0.01	<0.01	1.82	5.70	<0.001	0.28	0.01
SC17237		0.16		0.001	50.02	11.60	0.02	0.06	<0.005	0.02	<0.01	1.94	5.60	<0.001	0.32	0.01
SC17238		0.11		0.001	25.54	9.35	0.02	0.24	<0.005	0.01	<0.01	1.74	4.01	<0.001	0.32	0.01
SC17239		0.10		0.003	25.70	7.29	<0.01	0.08	<0.005	<0.01	<0.01	1.69	2.22	0.005	0.20	0.01
SC17240		0.09		0.002	25.62	8.39	<0.01	0.10	<0.005	0.01	<0.01	1.93	2.29	<0.001	0.25	0.01
SC17241		0.14		0.001	25.51	10.25	<0.01	0.07	<0.005	<0.01	<0.01	2.03	2.95	0.006	0.25	0.01
SC17247		0.16		0.001	48.68	9.83	0.01	0.03	<0.005	<0.01	<0.01	1.27	5.32	0.003	0.15	0.01

Comments: Total sample weighed in some instances as indicated in Wt. Sample column.

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



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No: 825, Corporate Site No: 23001.

Project: SC17-06

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Finalized Date: 22-DEC-2017
Account: TODRIV

CERTIFICATE OF ANALYSIS AD17255501

Sample Description	Method Analyte Units LOR	ME-ICP89	ME-ICP89	ME-ICP89	ME-ICP89	ME-ICP89	ME-ICP89	ME-MS91	ME-MS91	ME-MS91	ME-MS91	ME-MS91	ME-MS91
		Ni	Pb	S	SiO2	TiO2	Zn	Cs	Nb	Rb	Sn	Ta	Th
		%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.005	0.01	0.01	0.2	0.02	0.01	0.2	5	0.5	5	0.5	0.5
SC17203		<0.005	<0.01	0.01	74.0	0.35	<0.01	73.2	32	385	161	12.9	34.4
SC17204		<0.005	0.01	0.01	69.3	0.34	<0.01	57.1	27	451	176	9.9	41.1
SC17205		<0.005	0.01	0.01	71.2	0.35	<0.01	46.6	35	422	377	17.3	37.8
SC17206		<0.005	<0.01	0.01	69.3	0.36	<0.01	41.2	35	441	420	21.6	51.0
SC17207		<0.005	<0.01	0.03	73.8	0.28	<0.01	75.0	34	429	442	32.3	37.8
SC17208		<0.005	<0.01	0.01	79.2	0.30	<0.01	58.4	37	369	1270	67.9	31.1
SC17209		<0.005	<0.01	<0.01	80.6	0.30	<0.01	48.1	24	351	446	21.4	29.7
SC17210		<0.005	<0.01	0.01	77.2	0.27	<0.01	58.5	32	450	1240	32.2	31.1
SC17211		<0.005	<0.01	0.01	73.2	0.33	<0.01	29.2	22	371	262	6.4	40.5
SC17212		<0.005	<0.01	<0.01	71.2	0.47	<0.01	44.4	39	411	1190	27.0	57.8
SC17213		<0.005	0.01	0.01	70.0	0.38	<0.01	25.3	27	334	729	18.0	42.4
SC17214		<0.005	<0.01	<0.01	78.1	0.25	<0.01	18.4	17	297	64	4.2	29.5
SC17215		<0.005	0.01	<0.01	78.1	0.37	<0.01	20.6	19	304	55	3.2	37.4
SC17216		<0.005	<0.01	<0.01	78.7	0.33	<0.01	25.7	19	303	89	5.8	32.9
SC17217		<0.005	<0.01	<0.01	78.5	0.45	<0.01	22.5	23	306	93	4.5	37.7
SC17218		<0.005	<0.01	<0.01	75.9	0.38	<0.01	37.8	21	325	119	6.6	37.0
SC17219		<0.005	<0.01	<0.01	78.5	0.42	<0.01	46.5	23	332	89	5.2	34.1
SC17220		<0.005	<0.01	<0.01	77.7	0.48	<0.01	55.4	29	331	119	7.6	49.6
SC17221		<0.005	<0.01	0.02	79.4	0.45	<0.01	135.0	27	340	185	14.6	41.6
SC17222		<0.005	<0.01	0.03	82.4	0.40	<0.01	37.9	23	216	41	3.1	32.8
SC17223		<0.005	<0.01	<0.01	84.3	0.45	<0.01	11.4	25	119.0	39	4.6	47.3
SC17224		<0.005	0.01	<0.01	75.5	0.43	<0.01	19.0	23	373	65	4.3	74.9
SC17225		<0.005	<0.01	0.01	74.2	<0.02	<0.01	169.0	49	3970	452	400	3.5
SC17226		<0.005	<0.01	<0.01	75.1	0.35	<0.01	17.8	22	361	33	4.5	53.7
SC17227		<0.005	<0.01	0.01	78.1	0.30	<0.01	15.7	19	341	51	2.6	43.7
SC17228		<0.005	<0.01	<0.01	76.6	0.32	<0.01	13.6	23	326	42	2.4	40.3
SC17229		<0.005	<0.01	<0.01	79.8	0.22	<0.01	12.3	16	296	20	1.3	26.7
SC17230		<0.005	<0.01	0.01	81.3	0.23	<0.01	10.4	11	300	18	1.1	18.9
SC17231		<0.005	<0.01	<0.01	80.2	0.25	<0.01	13.7	14	331	18	1.3	17.1
SC17232		<0.005	<0.01	<0.01	76.4	0.35	<0.01	15.1	19	312	9	1.5	21.0
SC17233		<0.005	<0.01	<0.01	76.8	0.20	<0.01	16.9	14	325	11	1.2	16.0
SC17234		<0.005	<0.01	<0.01	81.9	0.22	<0.01	15.3	19	319	26	1.7	20.3
SC17235		<0.005	0.01	0.01	80.9	0.17	<0.01	9.8	11	299	7	1.6	23.7
SC17236		<0.005	<0.01	0.02	77.9	0.30	<0.01	20.7	18	312	12	1.7	53.3
SC17237		0.023	<0.01	0.02	78.5	0.30	<0.01	27.9	21	311	20	1.8	43.7
SC17238		<0.005	<0.01	0.01	77.0	0.27	<0.01	20.7	15	222	16	1.4	29.7
SC17239		<0.005	<0.01	0.01	83.6	0.28	<0.01	12.5	17	139.0	10	1.6	22.5
SC17240		<0.005	<0.01	<0.01	80.6	0.28	<0.01	8.4	15	144.0	5	1.1	22.8
SC17241		<0.005	<0.01	0.01	75.7	0.32	<0.01	9.2	18	180.5	13	2.7	23.0
SC17247		<0.005	<0.01	<0.01	80.6	0.23	<0.01	15.0	12	246	15	1.5	19.3

Comments: Total sample weighed in some instances as indicated in Wt. Sample column.

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Project: SC17-06

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Finalized Date: 22-DEC-2017
Account: TODRIV

CERTIFICATE OF ANALYSIS AD17255501

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg 0.02	PUL-QC Pass75um % 0.01	Au-ICP22 Au ppm 0.001	Au-ICP22 WT. SAMP g 0.01	ME-ICP89 Al2O3 % 0.02	ME-ICP89 As % 0.01	ME-ICP89 CaO % 0.01	ME-ICP89 Co % 0.005	ME-ICP89 Cr2O3 % 0.01	ME-ICP89 Cu % 0.01	ME-ICP89 Fe2O3 % 0.01	ME-ICP89 K2O % 0.01	ME-ICP89 Li % 0.001	ME-ICP89 MgO % 0.01	ME-ICP89 MnO % 0.01
SC17248		0.06		NSS	<0.01	10.65	<0.01	0.07	<0.005	<0.01	<0.01	1.29	4.54	0.003	0.22	0.01
SC17249		0.13		0.001	48.72	9.52	0.01	0.06	<0.005	<0.01	<0.01	1.34	4.97	0.003	0.17	0.01
SC17250		<0.02				16.80	0.01	0.38	<0.005	<0.01	<0.01	0.71	2.61	0.353	0.07	0.12
SC17251		0.17		0.001	50.84	10.45	0.01	0.03	<0.005	<0.01	<0.01	1.47	4.28	0.003	0.28	0.01
SC17252		0.14		0.001	47.80	9.66	0.01	0.07	<0.005	<0.01	<0.01	2.36	2.79	0.004	0.40	0.01
SC17253		0.09		0.001	49.96	7.67	0.01	0.20	<0.005	<0.01	<0.01	1.64	2.65	0.005	0.28	0.01
SC17259		0.10		0.002	49.62	8.37	<0.01	0.06	<0.005	<0.01	<0.01	1.70	3.01	0.006	0.27	0.01
SC17260		0.14		0.001	48.81	12.30	0.01	0.06	<0.005	<0.01	<0.01	2.43	5.08	0.005	0.32	0.01
SC17261		0.14		<0.001	47.73	13.65	<0.01	0.07	<0.005	<0.01	<0.01	2.39	6.02	0.004	0.36	0.01
SC17262		0.13		0.001	48.29	14.70	<0.01	0.07	<0.005	<0.01	<0.01	2.79	6.48	0.005	0.41	0.01
SC17263		0.12		0.001	47.60	15.95	0.01	0.06	<0.005	<0.01	<0.01	3.13	7.10	0.005	0.50	0.01
SC17264		0.11		0.001	25.64	16.10	<0.01	0.10	<0.005	<0.01	<0.01	2.85	6.67	0.004	0.48	0.01
SC17265		0.19	95.0	0.001	51.74	14.55	<0.01	0.06	<0.005	<0.01	<0.01	2.34	6.69	0.003	0.38	0.01
SC17266		0.15		0.001	52.37	12.20	0.02	0.07	<0.005	<0.01	<0.01	1.77	6.89	0.003	0.20	0.01
SC17267		0.10		0.001	47.42	14.75	<0.01	0.01	<0.005	<0.01	<0.01	2.85	6.17	0.005	0.33	0.01
SC17268		0.14		0.001	48.50	11.95	<0.01	0.04	<0.005	<0.01	<0.01	2.09	5.76	0.004	0.22	0.01
SC17269		0.10		0.001	25.92	7.18	<0.01	0.29	<0.005	0.03	<0.01	2.14	2.96	0.005	0.18	0.03
SC17270		0.12		0.001	49.68	5.14	0.01	0.03	<0.005	<0.01	<0.01	1.47	0.94	0.007	0.12	0.01
SC17271		0.13		0.001	50.83	7.97	0.02	0.06	<0.005	<0.01	<0.01	1.54	3.51	0.005	0.13	0.01
SC17272		0.15		0.001	50.02	9.86	0.01	0.06	<0.005	<0.01	<0.01	1.54	4.99	0.004	0.13	0.01
SC17273		0.15		0.001	52.76	11.50	0.02	0.06	<0.005	0.01	<0.01	1.83	5.99	0.004	0.15	<0.01
SC17274		0.13		0.001	49.37	10.65	0.01	0.06	<0.005	<0.01	<0.01	1.66	5.77	0.005	0.15	0.01
SC17275		0.07		0.001	49.12	35.6	0.01	0.03	<0.005	0.03	<0.01	23.4	0.20	0.002	0.07	0.04
SC17338		0.13		0.002	47.40	10.35	0.01	0.10	<0.005	<0.01	<0.01	2.26	4.12	0.005	0.33	0.01
SC17339		0.17		0.001	50.77	10.05	0.01	0.06	<0.005	<0.01	<0.01	2.34	3.10	0.005	0.35	0.01
SC17340		0.09		0.001	50.08	10.25	0.01	0.08	<0.005	<0.01	<0.01	2.59	3.26	0.005	0.38	0.01
SC17341		0.15		0.001	47.76	9.90	0.01	0.04	<0.005	<0.01	<0.01	2.30	3.13	0.004	0.35	0.01
SC17342		0.14		0.001	47.56	11.75	<0.01	0.03	<0.005	<0.01	<0.01	2.49	3.84	0.004	0.38	0.01
SC17343		0.16		0.001	50.93	12.35	0.02	0.04	<0.005	0.01	<0.01	2.66	4.35	0.004	0.43	0.01
SC17344		0.18		0.001	50.09	13.45	0.01	0.03	<0.005	0.01	<0.01	2.69	4.95	0.004	0.43	0.01
SC17345		0.18		0.001	52.63	12.30	0.03	0.04	<0.005	0.01	<0.01	2.50	4.52	0.005	0.41	0.01
SC17346		0.14		0.001	51.01	9.80	<0.01	0.03	<0.005	0.01	<0.01	1.72	4.20	0.004	0.25	0.01
SC17347		0.19		0.001	50.18	10.30	<0.01	0.03	<0.005	0.01	<0.01	1.46	4.94	0.003	0.20	0.01
SC17348		0.15		0.001	52.10	9.69	<0.01	0.01	<0.005	0.01	<0.01	1.54	4.46	0.003	0.18	0.01
SC17349		0.17		0.001	48.64	8.61	<0.01	0.01	<0.005	0.01	<0.01	1.30	4.52	0.003	0.13	0.01
SC17350		0.02				16.95	<0.01	0.34	<0.005	0.01	<0.01	0.74	2.64	0.350	0.05	0.12
SC17351		0.13		0.001	47.26	9.57	<0.01	0.04	<0.005	0.01	<0.01	1.63	5.10	0.002	0.13	0.02
SC17352		0.11		0.001	48.88	8.93	<0.01	0.04	<0.005	0.01	<0.01	1.53	5.18	0.002	0.10	0.01
SC17353		0.16		0.001	51.62	9.71	<0.01	0.06	<0.005	0.01	<0.01	1.34	5.77	0.010	0.10	0.01
SC17354		0.10		0.001	48.52	15.30	<0.01	0.03	<0.005	0.02	<0.01	3.46	5.41	0.004	0.61	0.01

Comments: Total sample weighed in some instances as indicated in Wt. Sample column.

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CERTIFICATE OF ANALYSIS AD17255501

Sample Description	Method Analyte Units LOR	ME-ICP89	ME-ICP89	ME-ICP89	ME-ICP89	ME-ICP89	ME-ICP89	ME-MS91	ME-MS91	ME-MS91	ME-MS91	ME-MS91	ME-MS91
		Ni	Pb	S	SiO2	TiO2	Zn	Cs	Nb	Rb	Sn	Ta	Th
		%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.005	0.01	0.01	0.2	0.02	0.01	0.2	5	0.5	5	0.5	0.5
SC17248		<0.005	0.01	<0.01	78.1	0.37	<0.01	16.4	17	246	17	1.8	20.7
SC17249		<0.005	<0.01	<0.01	84.1	0.22	<0.01	18.9	12	242	9	1.1	26.1
SC17250		<0.005	<0.01	0.01	75.3	<0.02	<0.01	162.5	48	3770	435	417	4.1
SC17251		<0.005	<0.01	<0.01	82.4	0.23	0.01	22.2	40	241	17	2.8	30.3
SC17252		<0.005	<0.01	<0.01	83.4	0.35	0.01	15.7	18	153.5	17	1.8	32.3
SC17253		<0.005	<0.01	<0.01	85.8	0.28	<0.01	14.7	16	149.0	71	4.1	24.4
SC17259		<0.005	<0.01	<0.01	87.5	0.37	0.01	19.3	21	181.5	139	4.7	29.2
SC17260		<0.005	<0.01	<0.01	77.4	0.45	<0.01	16.7	26	313	78	3.8	52.3
SC17261		<0.005	<0.01	<0.01	76.2	0.42	<0.01	20.8	25	355	59	3.8	53.3
SC17262		<0.005	<0.01	<0.01	68.9	0.45	0.02	20.3	27	398	80	4.7	65.7
SC17263		<0.005	<0.01	0.01	70.0	0.45	0.02	21.0	30	418	16	3.1	68.7
SC17264		<0.005	<0.01	0.01	67.2	0.40	0.01	20.8	24	407	52	2.6	65.5
SC17265		<0.005	<0.01	0.03	73.2	0.40	<0.01	14.7	23	368	12	2.1	62.7
SC17266		<0.005	<0.01	<0.01	70.2	0.32	<0.01	10.6	19	347	17	1.7	40.1
SC17267		<0.005	<0.01	<0.01	72.9	0.45	0.01	14.8	30	348	18	2.4	82.8
SC17268		<0.005	0.01	<0.01	78.3	0.42	0.01	11.5	23	300	17	2.3	63.1
SC17269		<0.005	0.01	0.01	72.5	0.37	<0.01	8.8	18	176.0	17	2.1	44.0
SC17270		<0.005	<0.01	<0.01	90.3	0.33	<0.01	20.9	16	73.6	30	3.7	26.3
SC17271		<0.005	<0.01	<0.01	83.9	0.27	0.01	14.0	16	185.5	20	4.3	25.7
SC17272		<0.005	<0.01	<0.01	81.9	0.28	0.01	14.1	16	262	16	11.5	32.8
SC17273		<0.005	<0.01	0.01	80.2	0.27	<0.01	25.1	22	311	28	2.5	31.4
SC17274		<0.005	<0.01	<0.01	74.9	0.27	<0.01	25.2	17	307	35	4.2	30.8
SC17275		<0.005	<0.01	0.05	22.2	1.60	<0.01	1.8	26	12.4	6	2.5	83.8
SC17338		<0.005	<0.01	<0.01	78.7	0.38	<0.01	24.8	22	234	57	3.1	31.6
SC17339		<0.005	<0.01	<0.01	83.4	0.43	0.01	14.9	29	163.5	33	2.9	33.9
SC17340		<0.005	<0.01	<0.01	80.0	0.40	0.01	20.1	22	177.5	20	2.5	31.7
SC17341		<0.005	<0.01	<0.01	82.4	0.37	<0.01	13.7	18	162.0	14	1.9	28.2
SC17342		<0.005	<0.01	<0.01	79.4	0.43	0.01	17.1	23	206	62	3.1	36.2
SC17343		<0.005	<0.01	0.01	78.1	0.40	<0.01	18.1	25	236	23	2.6	33.1
SC17344		<0.005	<0.01	<0.01	76.6	0.37	<0.01	18.2	20	259	10	2.3	31.4
SC17345		<0.005	<0.01	<0.01	77.4	0.38	<0.01	17.3	24	236	34	2.8	33.4
SC17346		<0.005	<0.01	<0.01	81.9	0.30	<0.01	17.5	13	209	45	2.2	29.9
SC17347		<0.005	0.01	0.08	80.6	0.28	<0.01	15.1	13	234	70	2.6	30.5
SC17348		<0.005	0.01	<0.01	82.6	0.28	<0.01	13.2	12	207	71	2.4	30.2
SC17349		<0.005	0.01	0.01	83.4	0.25	<0.01	12.5	13	214	37	2.4	27.0
SC17350		<0.005	0.01	0.01	73.4	<0.02	0.01	152.5	41	3630	418	420	4.5
SC17351		<0.005	0.01	0.01	78.9	0.26	<0.01	12.2	15	287	140	8.5	26.5
SC17352		<0.005	0.01	<0.01	78.7	0.21	<0.01	10.3	9	250	80	4.0	25.3
SC17353		<0.005	0.01	<0.01	79.2	0.18	<0.01	14.7	9	296	110	5.1	28.8
SC17354		<0.005	0.04	0.01	69.5	0.41	0.01	20.3	31	318	1160	21.4	56.7

Comments: Total sample weighed in some instances as indicated in Wt. Sample column.

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



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Project: SC17-06

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CERTIFICATE OF ANALYSIS AD17255501

Sample Description	Method Analyte Units LOR	WEI-21 Recvd Wt. kg	PUL-QC Pass75um %	Au-ICP22 Au ppm	Au-ICP22 WT. SAMP g	ME-ICP89 Al2O3 %	ME-ICP89 As %	ME-ICP89 CaO %	ME-ICP89 Co %	ME-ICP89 Cr2O3 %	ME-ICP89 Cu %	ME-ICP89 Fe2O3 %	ME-ICP89 K2O %	ME-ICP89 Li %	ME-ICP89 MgO %	ME-ICP89 MnO %
		0.02	0.01	0.001	0.01	0.02	0.01	0.01	0.005	0.01	0.01	0.01	0.01	0.001	0.01	0.01
SC17355		0.12		<0.001	50.24	8.79	<0.01	0.03	<0.005	0.01	<0.01	2.03	4.07	0.003	0.30	0.02
SC17356		0.17		0.001	51.74	8.32	<0.01	<0.01	<0.005	0.01	<0.01	1.22	4.29	0.002	0.20	0.01
SC17357		0.16		<0.001	52.33	8.98	0.01	0.03	<0.005	0.01	<0.01	1.14	5.49	0.002	0.13	0.01
SC17358		0.20		0.001	50.58	9.42	0.01	0.03	<0.005	0.01	<0.01	1.07	6.12	0.003	0.08	0.01
SC17359		0.20		0.001	49.54	11.20	<0.01	0.03	<0.005	0.01	<0.01	1.17	6.57	0.002	0.13	0.01
SC17360		0.21	99.0	<0.001	47.30	12.35	<0.01	0.04	<0.005	0.01	<0.01	1.93	6.41	0.002	0.22	0.01
SC17361		0.16		<0.001	48.29	13.15	<0.01	0.01	<0.005	0.02	<0.01	1.97	5.83	0.003	0.32	0.01
SC17362		0.18		<0.001	52.28	10.65	0.01	0.01	<0.005	0.01	<0.01	1.76	5.10	0.003	0.23	0.01
SC17363		0.17		0.001	47.40	9.34	<0.01	<0.01	<0.005	0.01	<0.01	2.07	3.82	0.007	0.36	0.01
SC17364		0.15		0.001	47.68	10.15	<0.01	0.03	<0.005	0.02	<0.01	3.56	3.84	0.005	0.61	0.02
SC17365		0.16		<0.001	49.29	10.70	0.01	0.01	<0.005	0.02	<0.01	2.06	4.01	0.005	0.35	0.01
SC17366		0.23		0.001	49.85	11.20	0.01	0.04	<0.005	0.01	<0.01	1.99	5.26	0.004	0.32	0.01
SC17367		0.25		0.001	48.17	10.90	<0.01	0.03	<0.005	0.01	<0.01	1.66	5.75	0.003	0.22	0.01
SC17368		0.23		0.001	49.53	10.75	0.01	0.01	<0.005	0.01	<0.01	2.13	5.01	0.004	0.40	0.01
SC17369		0.18		0.001	49.95	9.75	0.01	0.01	<0.005	0.01	<0.01	1.87	4.59	0.003	0.28	0.01
SC17370		0.16		<0.001	48.08	8.36	0.01	0.01	<0.005	0.01	<0.01	1.62	3.99	0.003	0.23	0.01
SC17371		0.20		0.001	48.01	8.19	<0.01	0.01	<0.005	0.01	<0.01	1.27	4.44	0.003	0.17	0.01
SC17372		0.15		0.001	47.41	9.76	0.01	0.01	<0.005	0.02	<0.01	1.44	5.37	0.004	0.18	0.01
SC17373		0.16		0.005	50.11	8.26	0.01	0.03	<0.005	0.01	<0.01	1.34	4.52	0.003	0.17	0.01
SC17374		0.19		0.001	51.55	7.69	<0.01	0.01	<0.005	0.01	<0.01	1.23	4.12	0.003	0.13	0.01
SC17375		0.02		NSS	<0.01	16.85	<0.01	0.42	<0.005	0.01	<0.01	0.71	2.99	0.186	0.03	0.09
SC17376		0.21	99.0	0.001	51.84	7.43	0.01	<0.01	<0.005	0.01	<0.01	1.33	4.23	0.003	0.10	0.01
SC17081		0.17		<0.001	49.20	6.98	0.01	<0.01	<0.005	0.01	<0.01	1.02	4.05	0.002	0.07	0.01
SC17082		0.14		0.001	48.47	7.10	0.01	0.01	<0.005	0.01	<0.01	1.06	4.20	0.002	0.07	0.01
SC17083		0.17		<0.001	49.30	7.18	<0.01	<0.01	<0.005	<0.01	<0.01	1.16	4.26	0.002	0.09	0.01
SC17084		0.16		<0.001	49.95	7.39	<0.01	0.03	<0.005	<0.01	<0.01	0.93	4.64	0.002	0.07	0.01
SC17086		0.17		0.001	51.23	7.33	<0.01	<0.01	<0.005	<0.01	<0.01	0.97	4.64	0.002	0.07	0.01
SC17141		0.17		0.001	49.10	9.22	<0.01	0.20	<0.005	<0.01	<0.01	6.19	3.05	0.002	0.24	0.12
SC17142		0.22		0.001	48.02	7.12	<0.01	0.03	<0.005	<0.01	<0.01	1.94	2.69	0.003	0.26	0.01
SC17242		0.11		0.001	48.71	10.10	<0.01	0.15	<0.005	<0.01	<0.01	2.62	4.51	0.003	0.26	0.02
SC17243		0.11		0.001	51.41	12.55	<0.01	0.03	<0.005	<0.01	<0.01	2.36	6.18	0.003	0.28	0.01
SC17244		0.10		0.001	50.84	11.30	<0.01	0.06	<0.005	<0.01	<0.01	1.87	6.49	0.002	0.19	0.01
SC17246		0.22		<0.001	48.59	7.95	<0.01	0.01	<0.005	<0.01	<0.01	1.24	4.88	0.003	0.09	0.01

Comments: Total sample weighed in some instances as indicated in Wt. Sample column.

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CERTIFICATE OF ANALYSIS AD17255501

Sample Description	Method Analyte Units LOR	ME-ICP89	ME-ICP89	ME-ICP89	ME-ICP89	ME-ICP89	ME-ICP89	ME-MS91	ME-MS91	ME-MS91	ME-MS91	ME-MS91	ME-MS91
		Ni	Pb	S	SiO2	TiO2	Zn	Cs	Nb	Rb	Sn	Ta	Th
		%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm
		0.005	0.01	0.01	0.2	0.02	0.01	0.2	5	0.5	5	0.5	0.5
SC17355		<0.005	<0.01	<0.01	81.1	0.30	<0.01	11.2	10	210	113	3.7	34.5
SC17356		<0.005	<0.01	<0.01	86.0	0.24	<0.01	10.7	9	218	45	1.9	33.9
SC17357		<0.005	0.01	<0.01	83.4	0.14	<0.01	11.5	6	268	26	1.2	21.5
SC17358		<0.005	0.01	<0.01	82.8	0.14	<0.01	13.3	6	302	18	1.8	23.0
SC17359		<0.005	0.01	<0.01	79.8	0.23	<0.01	12.2	12	310	34	1.7	35.5
SC17360		<0.005	0.02	<0.01	77.2	0.23	<0.01	14.4	16	324	35	2.1	38.6
SC17361		<0.005	0.01	0.01	76.4	0.32	<0.01	15.0	16	320	45	2.4	35.9
SC17362		<0.005	0.01	0.01	77.9	0.29	<0.01	12.7	14	274	33	2.3	31.7
SC17363		<0.005	<0.01	<0.01	80.0	0.26	<0.01	22.8	10	227	51	10.0	23.2
SC17364		<0.005	<0.01	<0.01	77.4	0.32	<0.01	21.1	10	247	65	4.3	19.2
SC17365		<0.005	0.01	<0.01	78.5	0.25	<0.01	30.7	15	274	159	10.5	21.3
SC17366		<0.005	0.01	0.01	79.2	0.27	<0.01	18.8	12	280	55	4.0	33.3
SC17367		<0.005	0.01	<0.01	81.3	0.27	<0.01	13.2	11	293	85	3.5	39.2
SC17368		<0.005	0.01	<0.01	81.1	0.34	<0.01	18.4	13	276	102	4.7	39.1
SC17369		<0.005	<0.01	<0.01	83.4	0.29	<0.01	17.8	11	247	121	3.6	36.6
SC17370		<0.005	0.01	<0.01	84.7	0.25	<0.01	14.9	13	228	87	3.8	30.6
SC17371		<0.005	0.01	0.01	81.7	0.20	<0.01	12.7	18	255	85	3.3	28.3
SC17372		<0.005	0.01	0.01	83.6	0.24	<0.01	14.5	16	289	112	10.5	35.3
SC17373		<0.005	0.01	0.01	84.3	0.24	<0.01	14.4	19	250	213	8.0	35.9
SC17374		<0.005	<0.01	0.01	86.2	0.27	<0.01	15.2	12	222	135	6.6	30.8
SC17375		<0.005	0.01	0.01	71.0	<0.02	<0.01	193.0	52	4180	546	768	4.3
SC17376		<0.005	0.01	0.01	87.3	0.22	<0.01	13.5	10	214	261	8.6	25.7
SC17081		<0.005	0.01	0.01	88.3	0.17	<0.01	11.1	8	177.0	16	1.1	19.8
SC17082		<0.005	0.01	<0.01	86.9	0.19	<0.01	10.6	7	189.5	13	1.0	20.0
SC17083		<0.005	0.01	<0.01	87.5	0.23	<0.01	10.3	10	188.5	20	3.8	23.2
SC17084		<0.005	<0.01	<0.01	88.3	0.20	<0.01	9.5	7	193.5	15	0.9	19.3
SC17086		<0.005	0.01	<0.01	87.9	0.19	<0.01	9.9	7	191.0	17	1.2	20.0
SC17141		<0.005	<0.01	0.01	73.2	0.87	0.01	2.8	9	117.0	6	0.9	10.2
SC17142		<0.005	<0.01	0.01	86.6	0.27	<0.01	9.9	11	165.5	92	3.5	17.6
SC17242		<0.005	0.01	<0.01	79.2	0.43	<0.01	11.3	21	232	9	1.7	38.6
SC17243		<0.005	0.01	0.01	77.0	0.41	<0.01	13.1	23	331	19	1.9	65.0
SC17244		<0.005	0.01	<0.01	79.6	0.30	<0.01	11.7	16	316	9	1.4	52.3
SC17246		<0.005	0.01	<0.01	87.3	0.18	<0.01	10.3	9	213	5	1.0	16.3

Comments: Total sample weighed in some instances as indicated in Wt. Sample column.

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CERTIFICATE OF ANALYSIS AD17255501

	CERTIFICATE COMMENTS
	ANALYTICAL COMMENTS
Applies to Method:	NSS is non-sufficient sample. ALL METHODS
	ACCREDITATION COMMENTS
Applies to Method:	NATA Accredited. Corporate Accreditation No: 825, Corporate Site No: 23001. The Technical Signatory is Wendy Wong, Senior QC Chemist. Au-ICP22
	LABORATORY ADDRESSES
Applies to Method:	Processed at ALS Perth located at 31 Denninup Way, Malaga, Australia. NATA Accreditation does not cover the performance of ALS Perth Sample Preparation which is processed at 79 Distinction Road, Wangara, WA, Australia Au-ICP22 ME-ICP89 ME-MS91
Applies to Method:	Processed at ALS Adelaide located at Unit 1, 1 Burma Road, Pooraka, Adelaide, SA, Australia. LEV-01 LOG-22 PUL-31 PUL-QC WEI-21