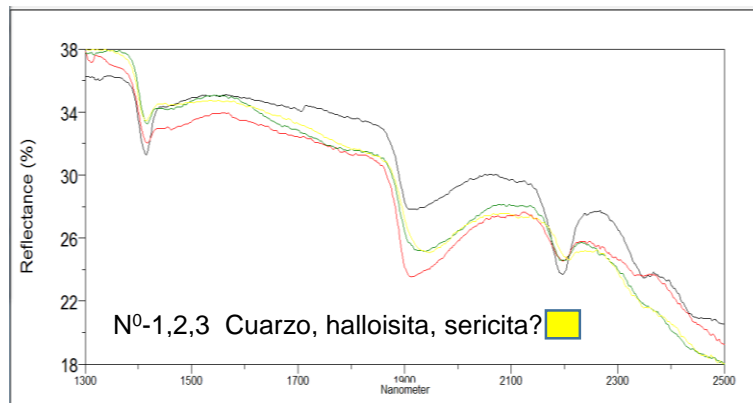
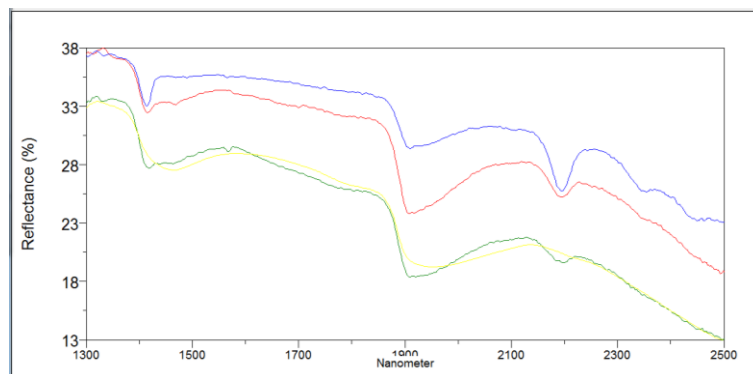


ANEXO 1

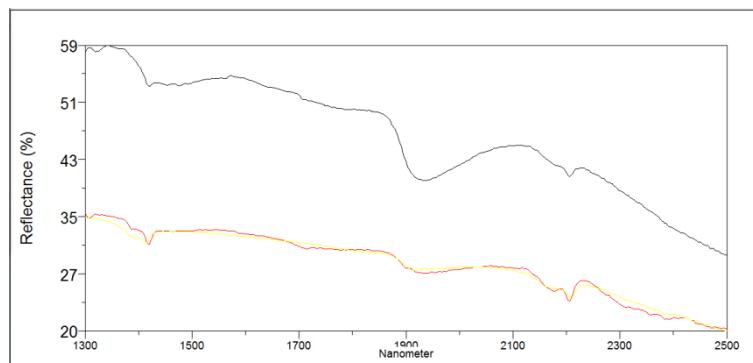
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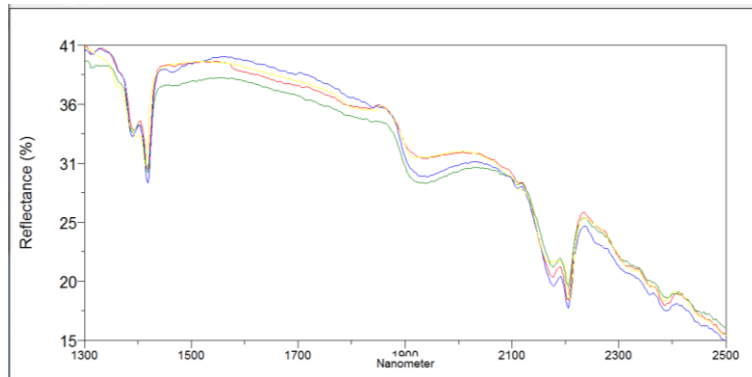
- N° 1 muscovita- nontronita-cuarzo
- N° 2 cuarzo, halloisita
- N° 3 anhidrita?, muscovita-cuarzo



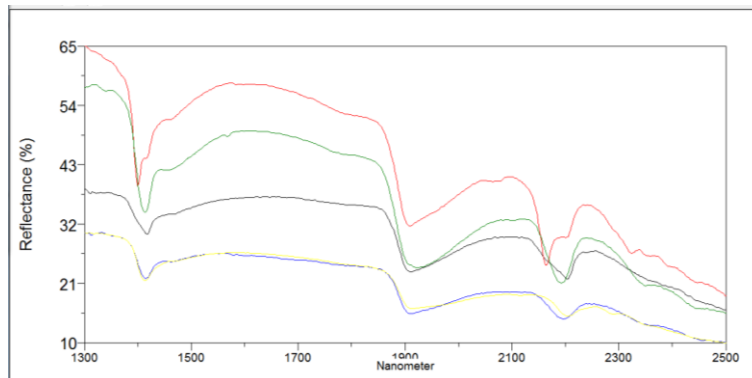
- N° 4 Anhidrita?-cuarzo-halloisita
- N° 5 muscovita nontronita-cuarzo
- N° 6 Cuarzo, halloisita, nontronita



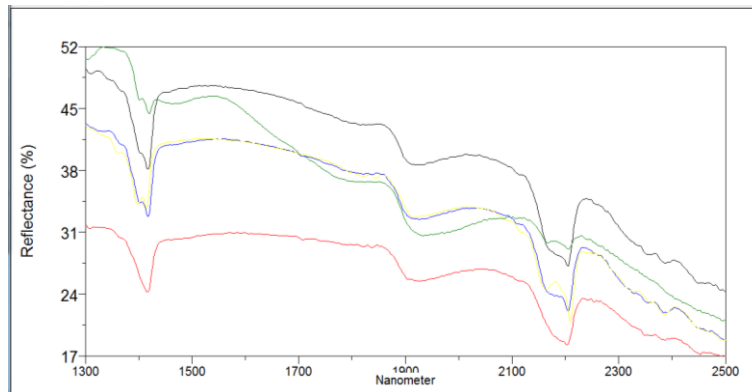
- N° 1 Anhidrita-cuarzo-halloisita
- N° 2 Halloisita-kaolinita-dickita?



- Nº 1 halloisita-gibbsita?
- Nº 2 kaolinita-dickita
- Nº 3 Kaolinita-dickita-halloisita

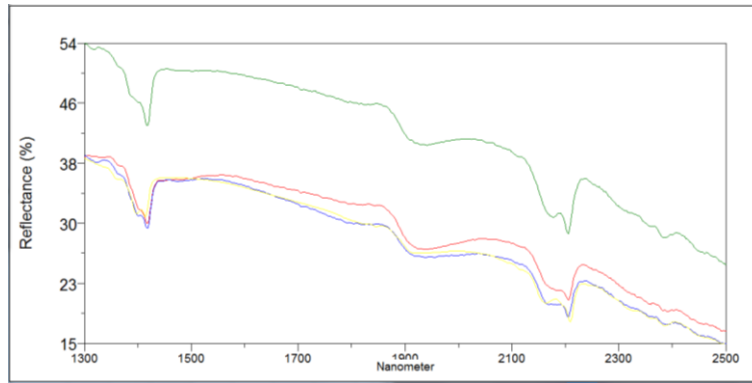


- Nº 1 halloisita-cuarzo-muscovita
- Nº 2 cuarzo-kaolinita-pirofilita (?)
- Nº 3 cuarzo-muscovita (?)
- Nº 4 cuarzo-muscovita-nontronita (?)

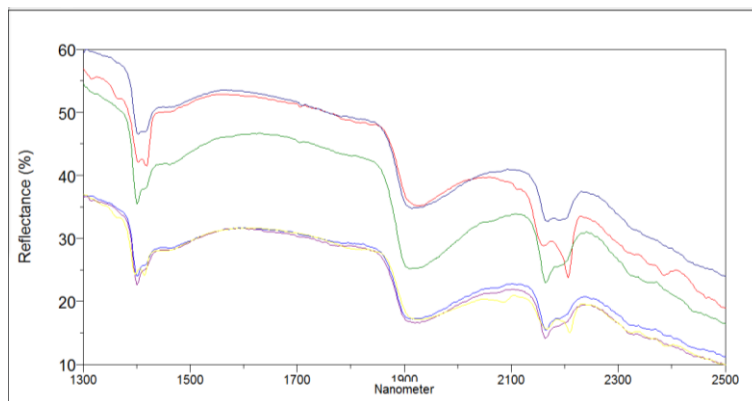


- Nº 1 kaolinita-muscovita-dickita
- Nº 2 kaolinita-muscovita
- Nº 3 cuarzo-diaspora-kaolinita
- Nº 4 Kaolinita-dickita

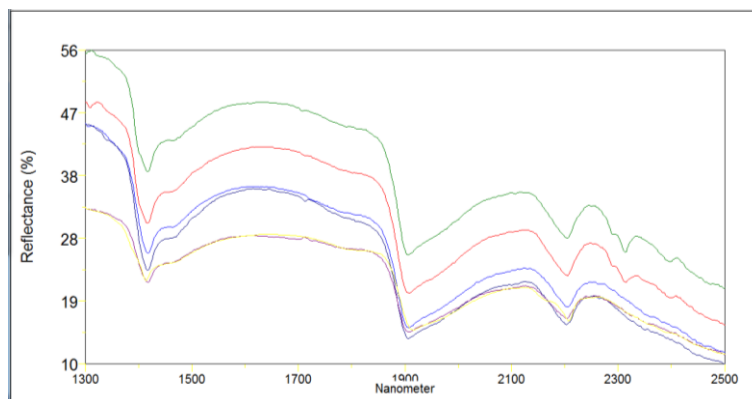




- N° 5 kaolinita-cuarzo-dickita
- N° 6 kaolinita-halloisita-dickita
- N° 7 kaolinita

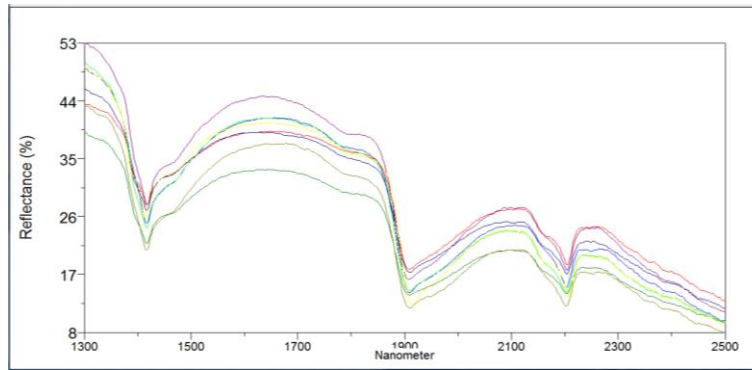


- N° 1 kaolinita-cuarzo
- N° 2 cuarzo-kaolinita-pirofilita
- N° 3 cuarzo-kaolinita-pirofilita
- N° 4 cuarzo-kaolinita ?
- N° 5 cuarzo-kaolinita-pirofilita

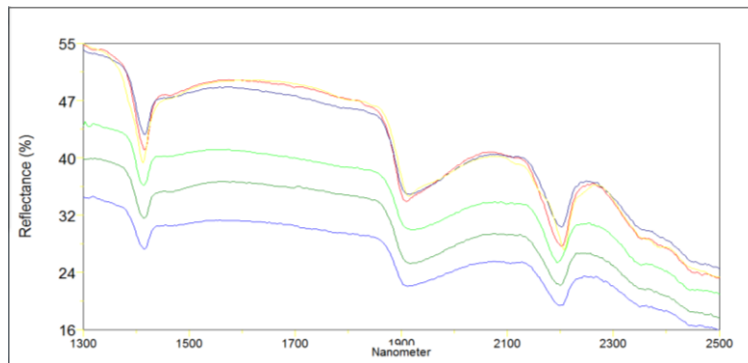


- N° 1 montmorillonita-muscovita-cuarzo
- N° 2 montmorillonita-kaolinita-tremolita
- N° 3 montmorillonita-cuarzo-muscovita
- N° 4 montmorillonita-cuarzo-muscovita
- N° 5 cuarzo-halloisita-muscovita

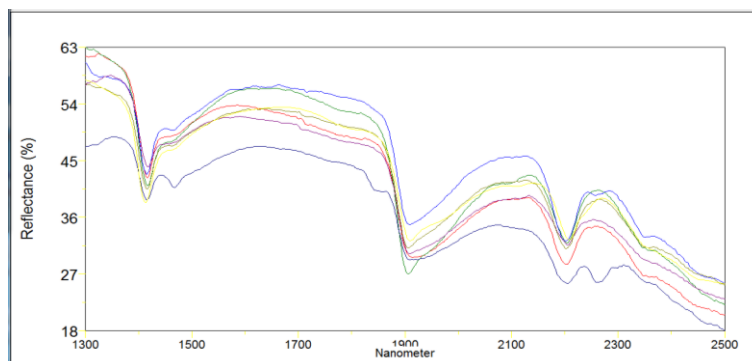




- Nº 1 halloisita-cuarzo
- Nº 2 halloisita-montmorillonita-cuarzo
- Nº 3 cuarzo-halloisita-muscovita
- Nº 4 halloisita-montmorillonita-cuarzo
- Nº 5 cuarzo-halloisita
- Nº 6 cuarzo-halloisita-muscovita
- Nº 7 halloisita-cuarzo

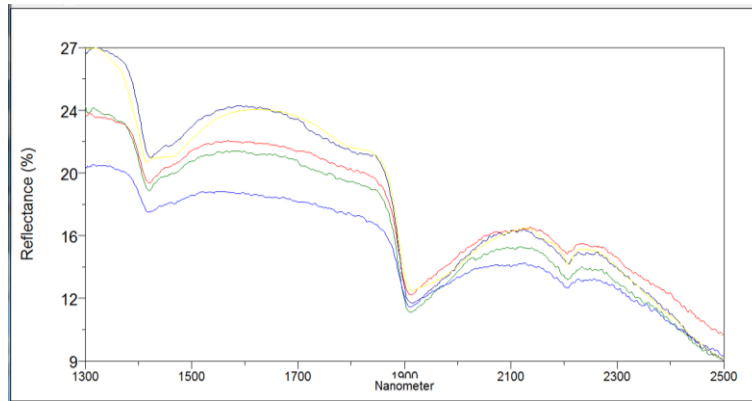


- Nº 1 cuarzo-halloisita-muscovita
- Nº 2 cuarzo-halloisita-muscovita
- Nº 3 halloisita-cuarzo-muscovita
- Nº 4 halloisita-cuarzo-muscovita
- Nº 5 cuarzo-muscovita

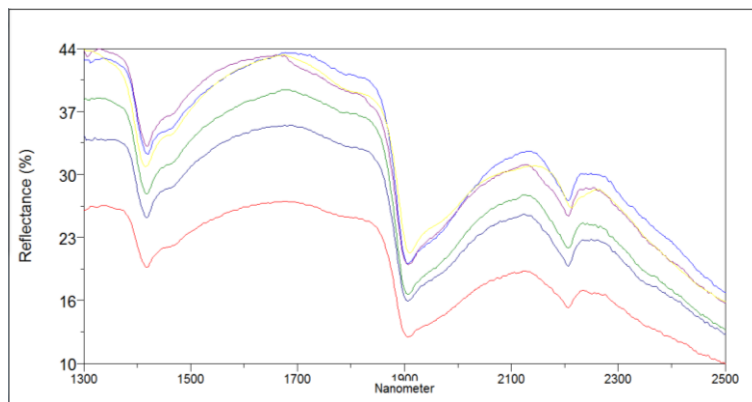


- Nº 1 cuarzo-muscovita
- Nº 2 nontronita-muscovita-cuarzo
- Nº 3 cuarzo-muscovita
- Nº 4 nontronita-muscovita-cuarzo
- Nº 5 halloisita-muscovita

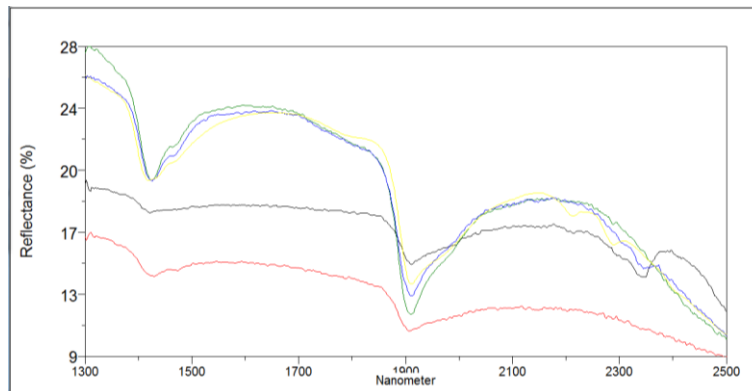




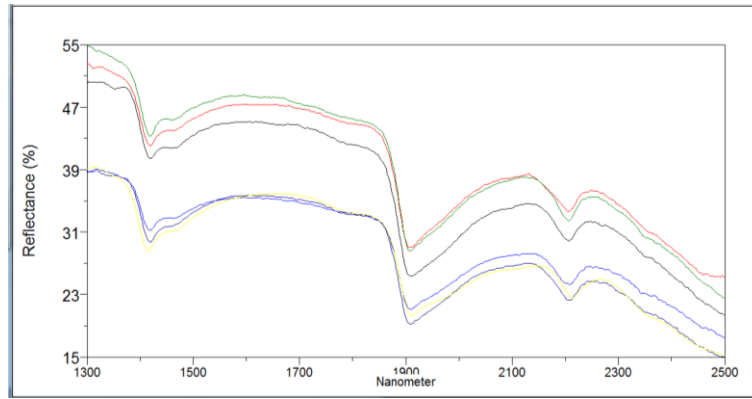
- Nº 1 montmorillonita-cuarzo ■
- Nº 2 montmorillonita-cuarzo ■
- Nº 3 cuarzo-montmorillonita-haloisita ■
- Nº 4 cuarzo-haloisita-nontronita ■



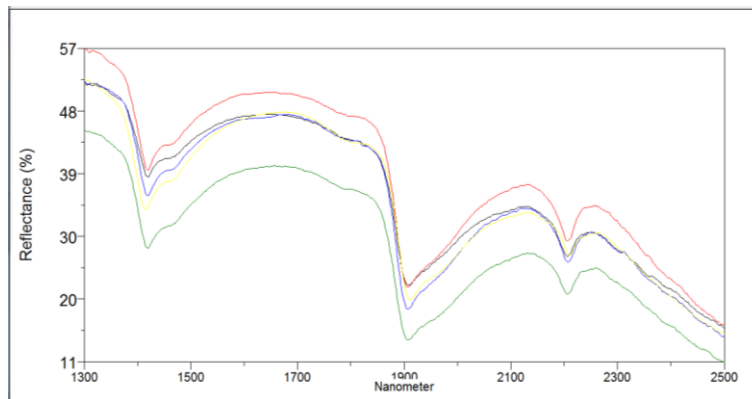
- Nº 1 montmorillonita-cuarzo-kaolinita ■
- Nº 2 montmorillonita-cuarzo ■
- Nº 3 montmorillonita-cuarzo ■
- Nº 4 montmorillonita-cuarzo-kaolinita ■
- Nº 5 montmorillonita ■



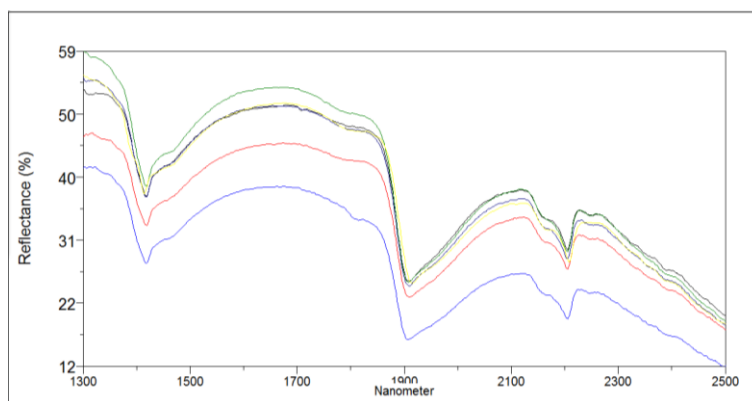
- Nº 1 montmorillonita-calcita ■
- Nº 2 montmorillonita-cuarzo ■
- Nº 3 montmorillonita-cuarzo ■
- Nº 4 montmorillonita-cuarzo-kaolinita ■



- Nº 1 montmorillonita-cuarzo
- Nº 2 montmorillonita-cuarzo
- Nº 3 montmorillonita-cuarzo-halloisita
- Nº 4 montmorillonita-cuarzo-illita
- Nº 5 montmorillonita-cuarzo-illita

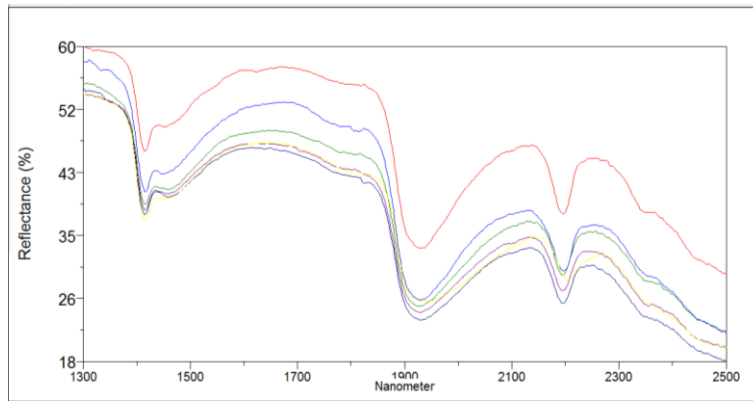


- Nº 1 montmorillonita-cuarzo-halloisita
- Nº 2 montmorillonita-cuarzo-halloisita
- Nº 3 montmorillonita-cuarzo
- Nº 4 montmorillonita-cuarzo-halloisita

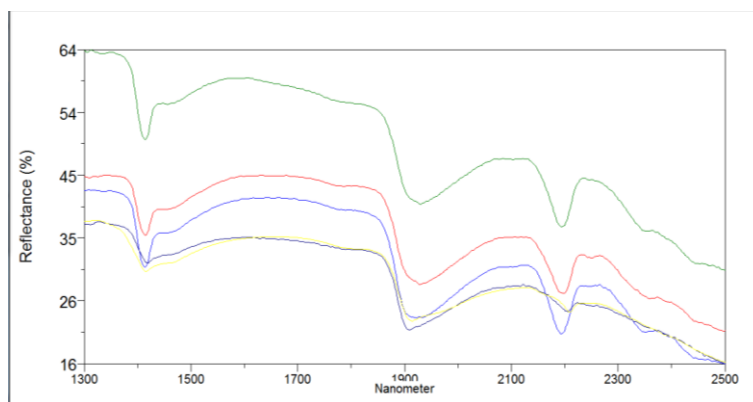


- Nº 1 cuarzo-halloisita
- Nº 2 cuarzo-halloisita
- Nº 3 cuarzo-halloisita
- Nº 4 cuarzo-halloisita-kaolinita
- Nº 5 cuarzo-halloisita

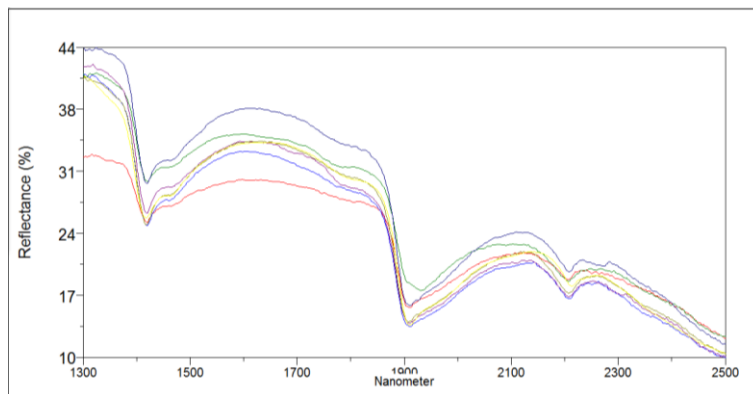




- Nº 1 cuarzo-muscovita
- Nº 2 cuarzo-muscovita
- Nº 3 cuarzo-muscovita
- Nº 4 cuarzo-muscovita

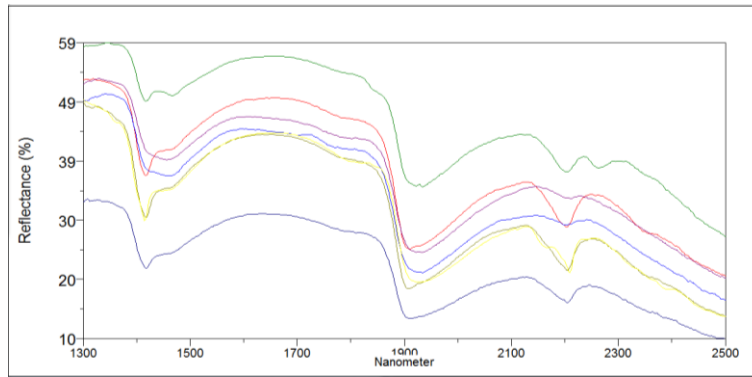


- Nº 1 cuarzo-halloisita-muscovita
- Nº 2 cuarzo-muscovita
- Nº 3 cuarzo-muscovita
- Nº 4 cuarzo-montmorillonita-halloisita

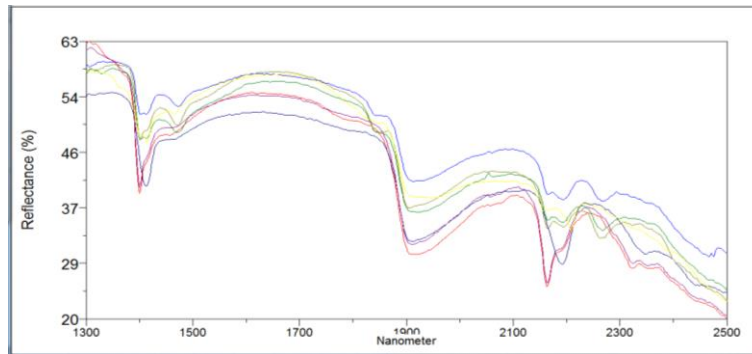


- Nº 1 montmorillonita-cuarzo
- Nº 2 montmorillonita-cuarzo-illita
- Nº 3 montmorillonita-cuarzo
- Nº 4 montmorillonita-cuarzo
- Nº 5 montmorillonita-cuarzo

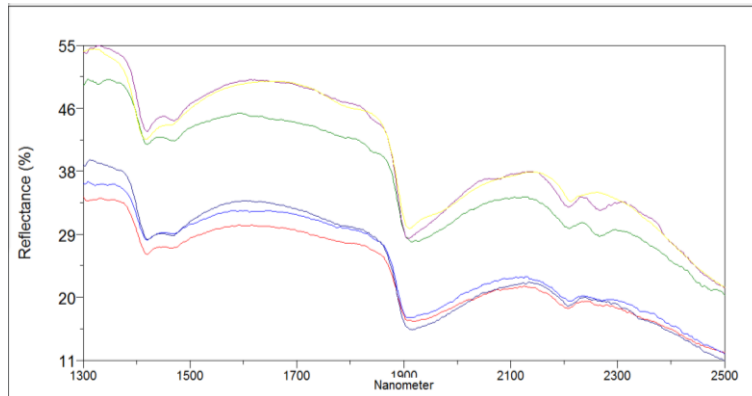




- N⁰1 cuarzo-muscovita
- N⁰2 cuarzo-halloisita
- N⁰3 cuarzo
- N⁰4 cuarzo-kaolinita-muscovita
- N⁰5 cuarzo
- N⁰6 cuarzo-kaolinita-muscovita

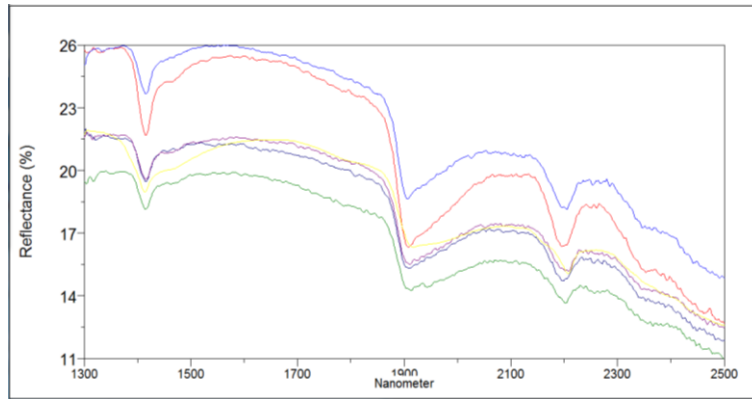


- N⁰ 1 cuarzo-kaolinita-pirofilita
- N⁰ 2 cuarzo-kaolinita
- N⁰ 3 cuarzo-kaolinita
- N⁰ 4 cuarzo-muscovita
- N⁰ 5 cuarzo-kaolinita-pirofilita
- N⁰ 6 cuarzo-kaolinita

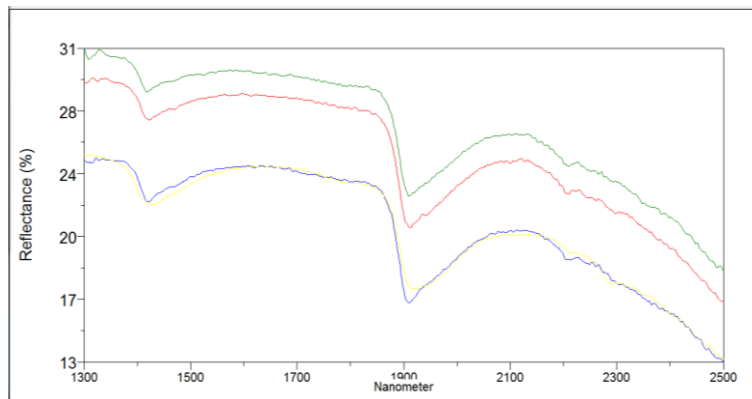


- N⁰1 cuarzo-haloesita-illita
- N⁰2 cuarzo-illita
- N⁰3 montmorillonita-cuarzo
- N⁰4 cuarzo-illita
- N⁰5 montmorillonita-cuarzo

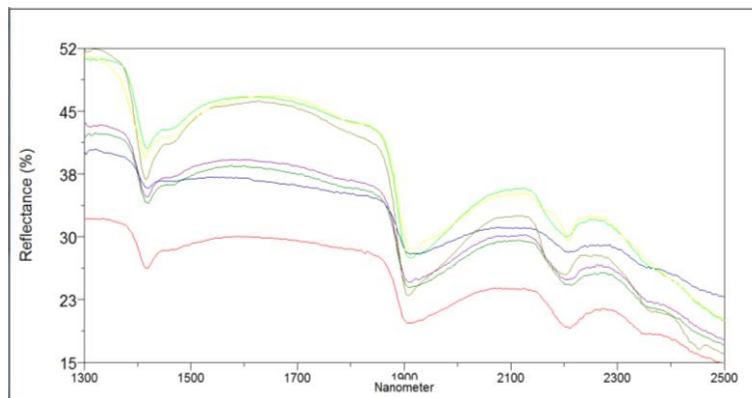




- N⁰¹ cuarzo-halloisita-muscovita
- N⁰² cuarzo-halloisita-muscovita
- N⁰³ cuarzo-halloisita-muscovita
- N⁰⁴ nontronita-muscovita-cuarzo
- N⁰⁵ cuarzo-halloisita-muscovi

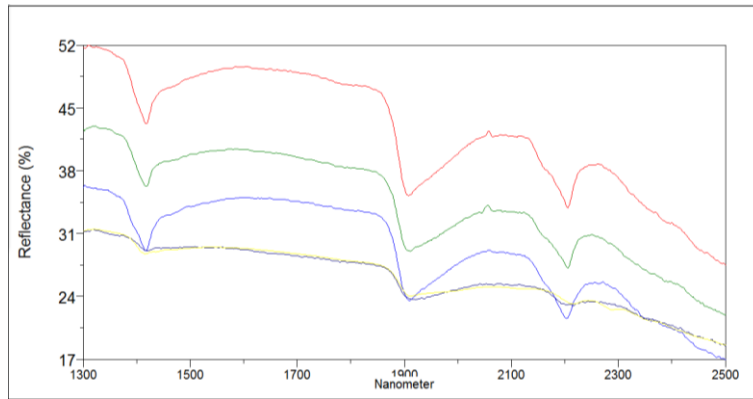


- N⁰¹ anhidrita-nontronita-montmorillonita
- N⁰² anhidrita-montmorillonita-nontronita
- N⁰³ anhidrita-nontronita-montmorillonita

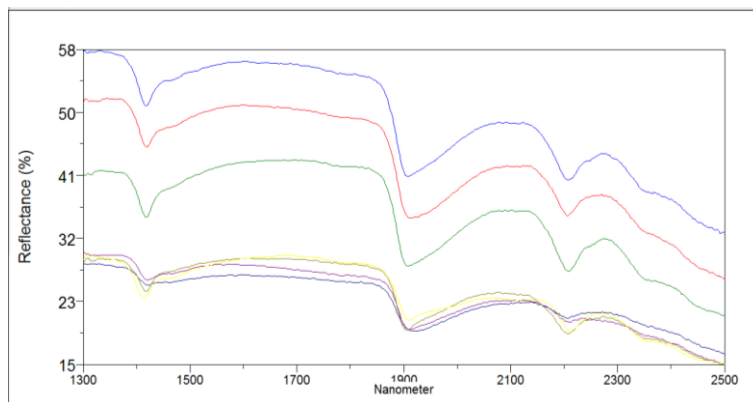


- N⁰¹ montmorillonita
- N⁰² montmorillonita-cuarzo-muscovita
- N⁰³ cuarzo-montmorillonita-halloisita
- N⁰⁴ montmorillonita-cuarzo-illita
- N⁰⁵ montmorillonita-cuarzo-muscovita
- N⁰⁶ cuarzo-halloisita-muscovita
- N⁰⁷ cuarzo-montmorillonita-halloisita



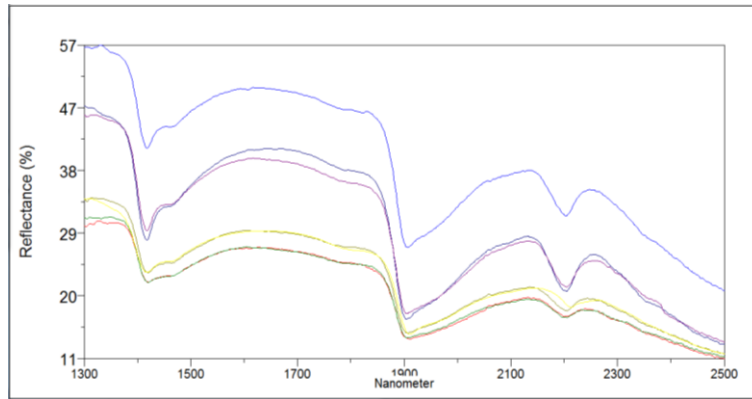


- N⁰1 halloisita-cuarzo-muscovita
- N⁰2 halloisita-cuarzo-muscovita
- N⁰3 halloisita-cuarzo-muscovita
- N⁰4 nontronita-illita-cuarzo (?)

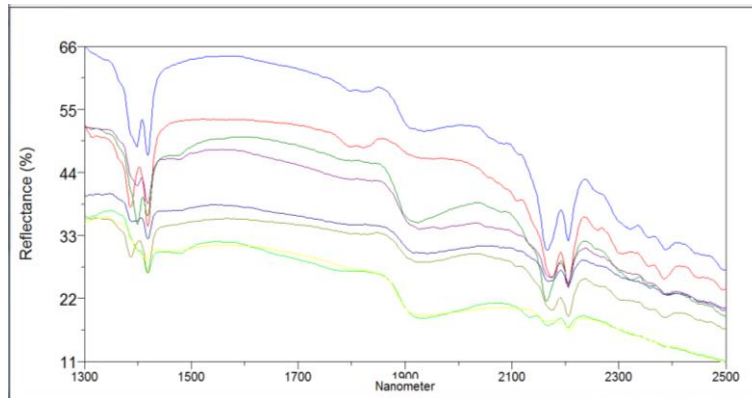


- N⁰ 1 cuarzo-illita-halloisita?
- N⁰ 2 cuarzo-illita-halloisita?
- N⁰ 3 montmorillonita??
- N⁰ 4 cuarzo-illita-halloisita?
- N⁰ 5 montmorillonita-cuarzo?
- N⁰6 montmorillonita-illita?

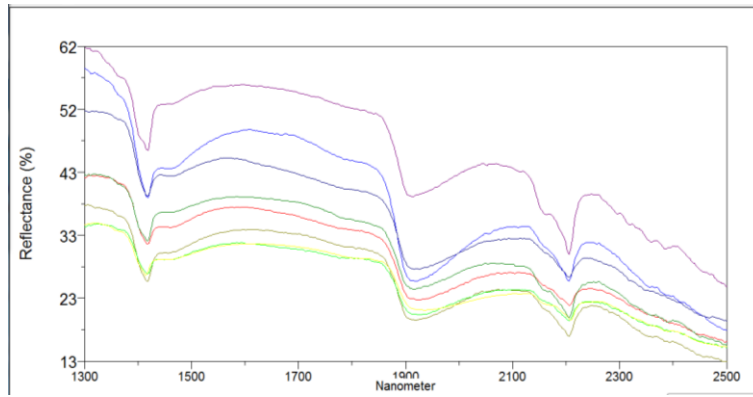




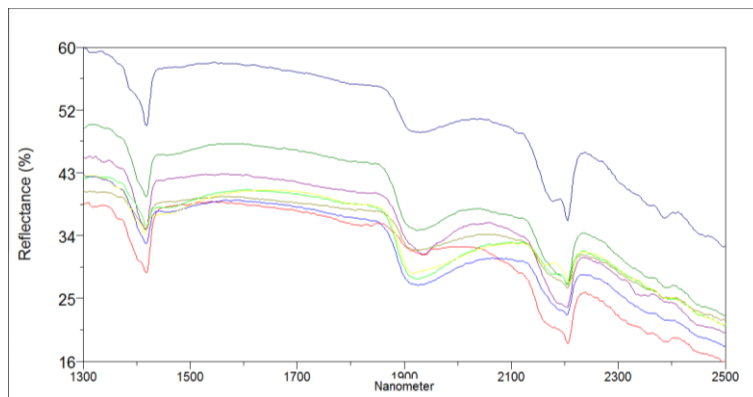
- Nº 1 cuarzo-illita ■
- Nº 2 montmorillonita-cuarzo ■
- Nº 3 cuarzo-muscovita ■
- Nº 4 cuarzo-muscovita ■
- Nº 5 montmorillonita-cuarzo-muscovita ■
- Nº6 montmorillonita-cuarzo ■



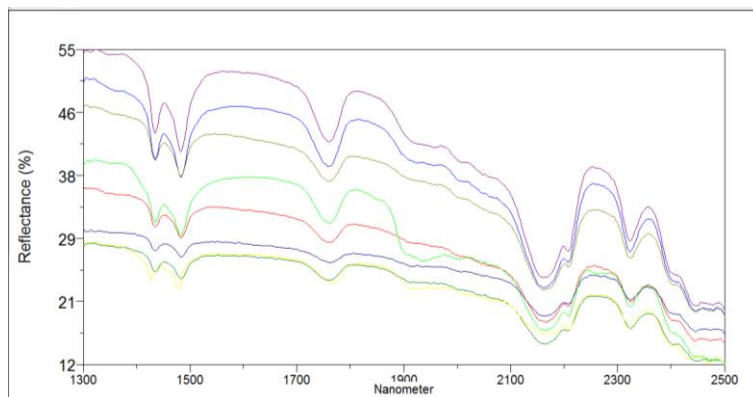
- Nº 1 dickita ■
- Nº 2 Kaolinita-montmorillonita-pirofilita ■
- Nº 3 dickita-halloisita-pirofilita ■
- Nº 4 halloisita-dickita ■
- Nº 5 halloisita-pirofilita-dikita ■
- Nº6 dikita-halloisita ■
- Nº7 cuarzo-kaolinita?? ■



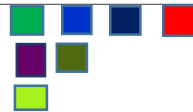
- Nº 1,2,3 cuarzo-kaolinita-muscovita
- Nº 4,5,6 cuarzo-Kaolinita-muscovita
- Nº 7 cuarzo-Kaolinita-muscovita

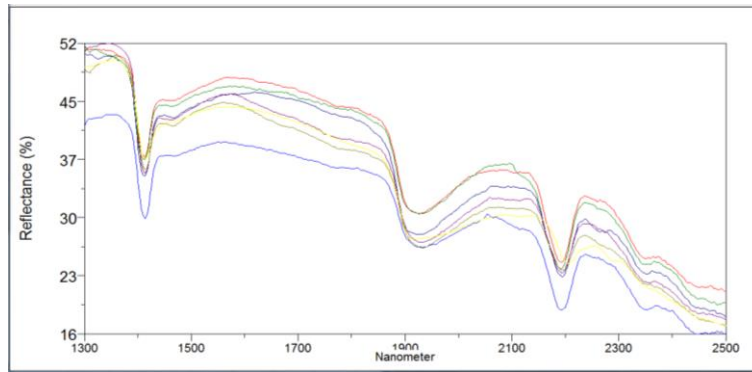


- Nº 1 kaolinita-dikita-muscovita
- Nº 2, 3 cuarzo-kaolinita-muscovita
- Nº 4 kaolinita-halloisita-dickita
- Nº 5 kaolinita-cuarzo-muscovita
- Nº 6 halloisita-kaolinita-muscovita
- Nº7 cuarzo-kaolinita-halloisita

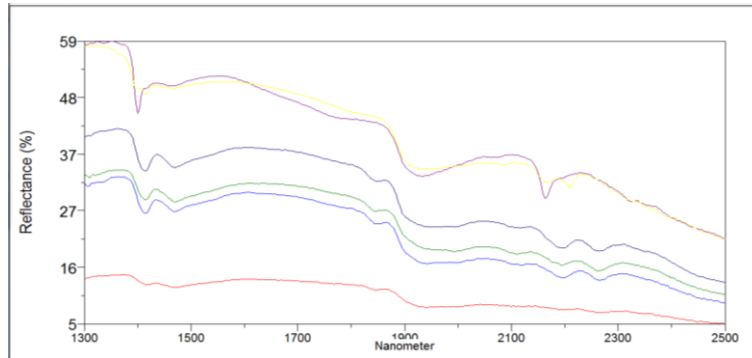


- Nº 1, 2, 3, 4 alunita
- Nº 5,6 alunita
- Nº 7 alunita, yeso

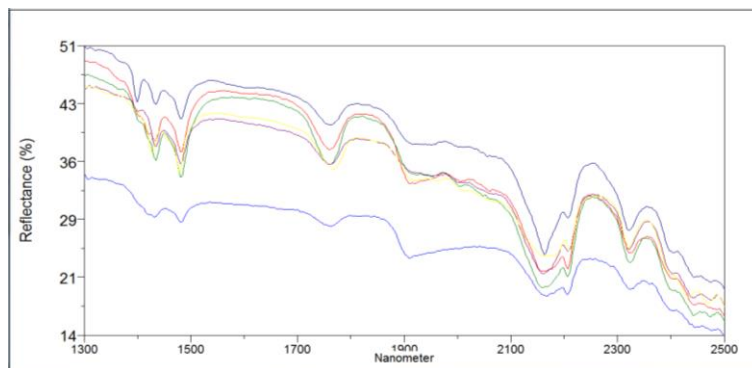




- Nº 1 cuarzo-muscovita
- Nº 2 cuarzo-kaolinita-muscovita
- Nº 3 cuarzo-muscovita-dickita
- Nº 4 cuarzo-muscovita
- Nº 5 cuarzo-muscovita
- Nº 6 cuarzo-muscovita-nontronita

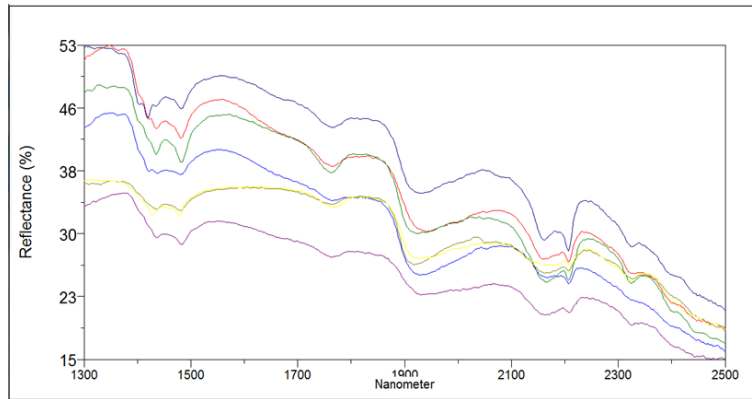


- Nº 7 cuarzo-buddingtonita
- Nº 8 cuarzo-buddingtonita
- Nº 9 cuarzo-magnesita-muscovita
- Nº 10 cuarzo-muscovita-magnesita
- Nº 11 cuarzo-kaolinita-pirofilia

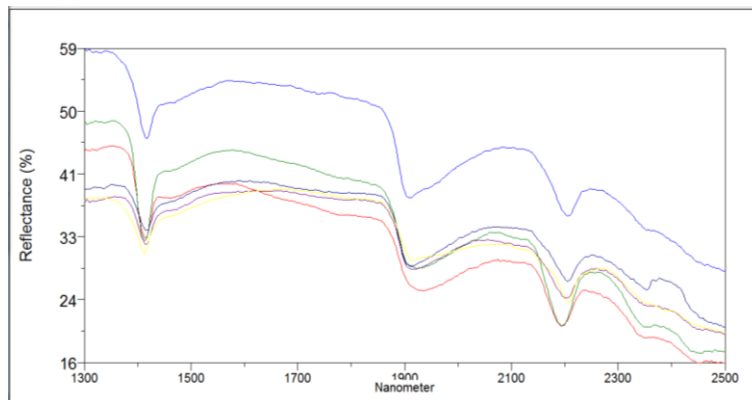


- Nº 1 alunita-kaolinita
- Nº 2 alunita-kaolinita
- Nº 3 alunita-halloisita
- Nº 4 alunita-pirofilita-kaolinita
- Nº 5 alunita

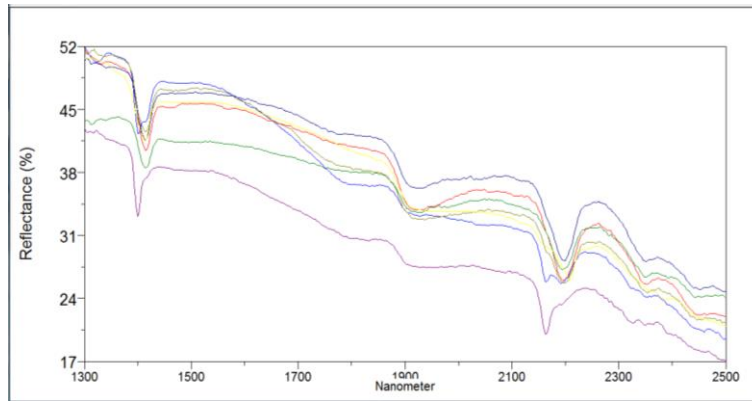




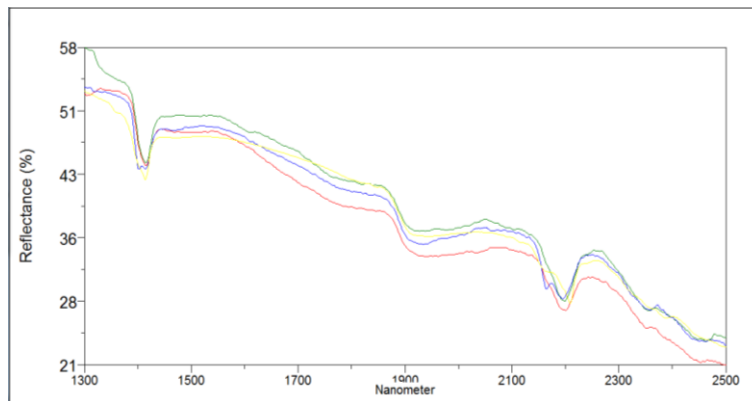
- N⁰¹ alunita-kaolinita-cuarzo ■
- N⁰² alunita-kaolinita ■
- N⁰³ cuarzo-kaolinita-alunita ■
- N⁰⁴ kaolinita-alunita ■
- N⁰⁵ alunita-anhidrita ■
- N⁰⁶ alunita-anhidrita-nontronita ■



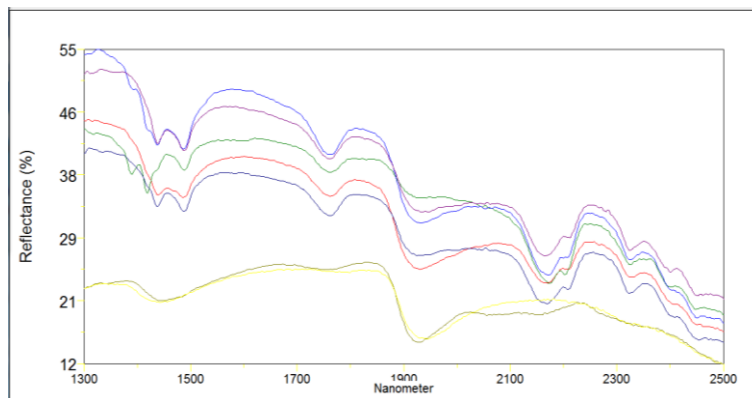
- N⁰ 1 cuarzo-muscovita ■
- N⁰ 2 muscovita-cuarzo ■
- N⁰ 3 cuarzo-muscovita ■
- N⁰ 4 cuarzo-halloisita ■
- N⁰ 5 halloisita, cuarzo-muscovita ■



- Nº 1 moscovita-cuarzo
- Nº 2 muscovita-cuarzo-dikita
- Nº 3 diaspora-muscovita-pirofilita
- Nº 4 muscovita-cuarzo
- Nº 5 kaolinita-pirofilita
- Nº 6 cuarzo-kaolinita-muscovita



- Nº 7 cuarzo-muscovita
- Nº 8 cuarzo --muscovita-kaolinita
- Nº 9 kaolinita-cuarzo-muscovita



- Nº 1 cuarzo-alunita-yeso
- Nº 2 alunita-dickita-haloisita
- Nº 3 alunita-yeso-kaolinita
- Nº 4 alunita-yeso-kaolinita
- Nº 5 alunita-yeso
- Nº 6 anhidrita-cuarzo



ANEXO 2



ALS Peru S.A.
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LINCEN LIMA 14
Page: 1
Finalized Date: 3- JUN- 2013
This copy reported on 11- JUN- 2013
Account: MINASAC

CERTIFICATE LI13096477	
Project: VICUÑA TAYRONA P.O. No.: This report is for 150 Rock samples submitted to our lab in Lima, Peru on 28- MAY- 2013. The following have access to data associated with this certificate: MIGUEL BARRIONUEVO JULIO VELANDIA	

SAMPLE PREPARATION	
ALS CODE	DESCRIPTION
WEI- 21	Received Sample Weight
LOG- 22	Sample login - Rcd w/o BarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% <2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% <75 um
LOG- 24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES
Ag- AA46	Ore grade Ag - aqua regia/AA	AAS
Cu- AA46	Ore grade Cu - aqua regia/AA	AAS
Au- AA23	Au 30g FA- AA finish	AAS
Au- GRA21	Au 30g FA- GRAV finish	WST- SIM

To: MINERA APOGEO S.A.C.
ATTN: MIGUEL BARRIONUEVO
CALLE LAS ORQUÍDEAS NO 2750 DPTO. 601 - LINCEN
LINCEN LIMA 14

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: 
Rene Mamani, Laboratory Manager, Peru



ALS Peru S.A.
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LINCEN LIMA 14
Page: 2 - A
Total # Pages: 5 (A - C)
Plus Appendix Pages
Finalized Date: 3- JUN- 2013
Account: MINASAC

		CERTIFICATE OF ANALYSIS LI13096477															
Sample Description	Method Analyte Units LOR	WB- 21	Au- AA23	Au- GRA21	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Revised Wt. kg	Au ppm	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	
354		1.70	<0.005	0.05	0.3	0.72	2	<10	30	<0.5	<2	3.49	<0.5	4	5	42	
355		0.97	<0.005	0.2	2.46	136		<10	70	<0.5	<2	22.2	<0.5	6	1	13	
356		1.53	<0.005	<0.2	2.54	83		<10	20	0.6	<2	3.43	<0.5	19	8	44	
357		1.29	<0.005	<0.2	1.46	40		<10	10	<0.5	<2	>25.0	0.7	7	3	13	
358		0.83	<0.005	0.2	1.27	109		<10	10	<0.5	<2	>25.0	<0.5	4	1	9	
359		0.76	<0.005	<0.2	0.98	100		<10	10	<0.5	<2	>25.0	<0.5	3	1	8	
360		1.78	<0.005	<0.2	1.84	5		<10	70	0.5	<2	2.72	<0.5	12	14	31	
361		1.89	<0.005	<0.2	0.65	5		<10	90	<0.5	<2	0.15	<0.5	4	5	3	
362		2.03	<0.005	<0.2	0.51	22		<10	50	<0.5	<2	0.15	<0.5	2	3	1	
363		1.55	<0.005	<0.2	0.72	3		<10	30	<0.5	2	0.23	<0.5	1	2	1	
364		1.39	<0.005	<0.2	0.81	<2		<10	60	<0.5	<2	0.35	<0.5	2	2	3	
365		0.05	<0.005	<0.2	1.30	<2		<10	40	0.7	<2	0.59	<0.5	18	42	27	
366		1.57	0.007	<0.2	2.95	52		10	100	<0.5	<2	0.93	<0.5	7	3	187	
367		1.58	0.006	<0.2	0.60	6		10	40	<0.5	2	0.86	<0.5	7	1	17	
368		1.99	0.006	0.2	3.37	58		<10	150	<0.5	<2	1.45	<0.5	15	7	299	
369		1.80	0.007	0.2	2.75	67		<10	210	<0.5	<2	0.94	<0.5	9	6	27	
370		2.05	<0.005	<0.2	3.47	64		20	120	<0.5	<2	0.91	<0.5	9	19	16	
371		2.14	<0.005	<0.2	2.73	13		10	20	<0.5	<2	0.24	<0.5	20	11	24	
372		0.06	0.076	<0.2	1.34	<2		<10	40	0.7	<2	0.53	<0.5	18	44	22	
373		1.73	<0.005	<0.2	0.64	3		<10	40	<0.5	<2	0.23	<0.5	4	2	7	
374		1.54	<0.005	<0.2	0.53	<2		<10	50	<0.5	<2	0.67	<0.5	4	2	6	
375		1.89	<0.005	<0.2	0.36	93		<10	60	<0.5	<2	0.03	<0.5	1	2	3	
376		1.85	<0.005	<0.2	0.51	10		<10	380	0.6	<2	0.29	<0.5	8	2	17	
377		1.63	<0.005	<0.2	0.36	24		<10	60	<0.5	<2	0.12	<0.5	1	<1	1	
378		1.43	<0.005	0.2	2.98	12		<10	200	0.7	<2	1.96	<0.5	11	6	39	
379		2.01	<0.005	<0.2	5.78	23		<10	20	0.7	<2	4.36	<0.5	5	3	16	
380		1.56	<0.005	<0.2	2.77	6		<10	330	0.9	<2	1.61	<0.5	9	4	26	
381		1.26	<0.005	<0.2	3.03	37		<10	20	0.6	<2	2.33	<0.5	5	4	9	
382		1.27	<0.005	<0.2	3.58	15		<10	380	1.0	<2	2.78	<0.5	6	4	11	
383		1.46	<0.005	<0.2	3.20	87		<10	40	1.2	<2	2.43	<0.5	3	2	76	
384		0.58	<0.005	<0.2	5.05	48		<10	70	0.5	<2	3.89	<0.5	12	6	9	
385		0.05	<0.005	<0.2	4.40	56		<10	170	0.6	<2	2.98	<0.5	18	10	11	
386		1.85	<0.005	<0.2	2.22	356		<10	70	0.7	2	0.26	<0.5	18	1	14	
387		2.52	<0.005	<0.2	1.80	349		<10	60	<0.5	2	0.35	<0.5	19	7	25	
388		1.67	<0.005	0.2	2.23	190		<10	70	<0.5	3	0.44	<0.5	12	11	221	
389		1.43	<0.005	0.8	3.01	106		<10	30	0.5	<2	4.22	<0.5	16	7	867	
390		1.91	<0.005	<0.2	1.34	102		<10	20	0.7	2	2.22	<0.5	9	6	11	
391		0.05	<0.005	<0.2	1.32	<2		<10	40	0.7	<2	0.56	<0.5	18	41	28	
392		1.90	<0.005	<0.2	2.76	61		<10	20	0.6	<2	5.84	<0.5	19	8	32	
393		0.80	<0.005	0.2	1.34	89		<10	40	0.5	2	4.84	<0.5	11	4	31	

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Project: VICUÑA TAYRONA

CERTIFICATE OF ANALYSIS LI1 3096477

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Fe %	Ca ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	
354		0.49	<10	<1	0.04	10	0.29	613	<1	0.02	<1	60	2	0.02	<2	<1	
355		1.76	10	1	0.11	10	0.48	1030	<1	0.08	2	450	4	0.01	<2	3	
356		4.14	10	1	0.08	20	1.99	837	<1	0.08	10	1180	5	0.01	5	15	
357		1.64	10	<1	0.02	10	0.50	1910	<1	0.04	3	440	<2	0.01	2	5	
358		0.81	10	1	0.02	10	0.22	951	<1	0.03	<1	210	<2	<0.01	<2	2	
359		0.64	<10	1	0.03	10	0.21	987	<1	0.03	<1	200	<2	0.01	<2	2	
360		3.12	10	<1	0.10	20	1.06	1190	<1	0.06	7	780	9	0.01	<2	10	
361		1.32	<10	<1	0.19	30	0.17	224	<1	0.07	<1	300	9	0.01	2	1	
362		0.83	<10	<1	0.17	10	0.06	287	<1	0.07	<1	110	5	0.01	<2	1	
363		0.25	<10	<1	0.13	10	0.03	34	<1	0.04	<1	50	2	0.01	<2	1	
364		1.11	<10	<1	0.14	30	0.20	360	<1	0.06	<1	230	6	0.01	<2	1	
365		2.58	<10	<1	0.31	10	1.34	355	1	0.49	69	650	10	0.02	<2	1	
366		3.82	10	1	0.13	10	1.87	487	3	0.17	1	950	10	1.40	<2	8	
367		1.78	<10	<1	0.20	20	0.07	41	9	0.05	2	120	7	2.50	<2	1	
368		3.15	10	<1	0.08	10	1.79	890	3	0.15	7	940	11	2.44	<2	8	
369		3.08	10	<1	0.09	20	0.76	552	4	0.72	4	580	35	2.52	<2	3	
370		5.60	10	1	0.03	10	2.28	1370	2	0.12	8	780	4	0.58	<2	17	
371		5.32	10	<1	0.09	10	3.15	584	2	0.07	6	550	12	5.19	<2	8	
372		2.67	10	<1	0.31	20	1.30	376	1	0.49	70	900	5	0.02	<2	1	
373		1.45	<10	<1	0.10	20	0.31	477	<1	0.07	<1	340	8	0.01	<2	3	
374		1.43	<10	<1	0.11	20	0.35	674	<1	0.07	<1	310	4	0.01	<2	2	
375		1.87	<10	<1	0.12	20	0.01	153	1	0.07	<1	270	9	0.03	4	1	
376		2.09	<10	<1	0.18	30	0.04	974	1	0.08	2	570	7	0.04	2	3	
377		0.69	<10	<1	0.14	20	0.02	163	1	0.04	<1	170	12	0.01	<2	<1	
378		2.69	10	1	0.21	20	0.76	863	<1	0.12	7	670	13	0.01	<2	5	
379		1.53	10	1	0.15	20	0.11	203	<1	0.10	1	510	10	0.01	<2	2	
380		2.57	10	1	0.33	20	0.66	746	<1	0.16	4	620	11	0.01	<2	5	
381		2.40	10	<1	0.14	30	0.21	333	<1	0.09	2	690	12	0.01	5	4	
382		2.08	10	1	0.19	20	0.37	482	<1	0.10	3	550	11	0.01	<2	3	
383		1.22	10	<1	0.17	20	0.17	387	<1	0.05	<1	340	16	0.01	<2	2	
384		2.86	10	<1	0.20	10	0.79	447	<1	0.10	9	630	4	0.01	<2	6	
385		3.91	10	1	0.18	20	1.34	645	<1	0.12	19	780	6	0.01	2	8	
386		4.10	10	<1	0.09	20	1.10	477	<1	0.04	<1	1140	12	0.01	4	3	
387		5.17	<10	1	0.20	10	0.95	451	<1	0.02	12	1120	5	0.01	4	4	
388		4.65	10	1	0.16	10	1.13	319	<1	0.03	12	1170	9	0.03	4	5	
389		3.33	10	<1	0.07	20	1.56	783	<1	0.05	9	800	5	0.01	5	11	
390		1.77	<10	<1	0.09	10	0.81	902	<1	0.01	4	510	<2	0.01	<2	3	
391		2.56	<10	1	0.30	10	1.30	350	1	0.50	68	850	9	0.02	<2	1	
392		3.83	10	1	0.05	20	1.87	1040	<1	0.04	10	1080	3	0.01	3	9	
393		2.64	<10	1	0.12	20	0.79	764	<1	0.03	4	740	5	0.01	2	4	

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Project: VICUÑA TAYRONA

CERTIFICATE OF ANALYSIS LI1 3096477

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Ag-AA46	Cu-AA46
		Sr ppm	Th ppm	Ti %	U ppm	V ppm	W ppm	Zn ppm	Ag ppm	Cu %	
354		27	<20	0.01	<10	<10	9	<10	40		
355		190	<20	0.14	<10	<10	23	<10	43		
356		70	<20	0.42	<10	<10	56	<10	78		
357		108	<20	0.16	<10	<10	34	<10	32		
358		72	<20	0.07	<10	<10	22	<10	20		
359		64	<20	0.06	<10	<10	13	<10	26		
360		87	<20	0.03	<10	<10	87	<10	49		
361		11	<20	0.03	<10	<10	23	<10	32		
362		10	<20	0.02	<10	<10	9	<10	18		
363		19	<20	<0.01	<10	<10	1	<10	5		
364		14	<20	0.03	<10	<10	13	<10	37		
365		142	<20	0.34	<10	<10	44	<10	34		
366		151	<20	0.12	<10	<10	103	<10	53		
367		31	<20	<0.01	<10	<10	9	<10	12		
368		125	<20	0.04	<10	<10	95	<10	51		
369		395	<20	0.12	<10	<10	36	<10	72		
370		165	<20	0.17	<10	<10	189	<10	82		
371		11	<20	0.07	<10	<10	194	<10	56		
372		161	<20	0.34	<10	<10	44	<10	36		
373		13	<20	0.11	<10	<10	23	<10	42		
374		14	<20	0.02	<10	<10	21	<10	41		
375		6	<20	<0.01	<10	<10	3	<10	29		
376		21	<20	<0.01	<10	<10	24	<10	51		
377		15	<20	<0.01	<10	<10	1	<10	18		
378		219	<20	0.18	<10	<10	64	<10	64		
379		19	<20	0.03	<10	<10	38	<10	28		
380		287	<20	0.17	<10	<10	71	<10	82		
381		24	<20	0.17	<10	<10	68	<10	43		
382		421	<20	0.07	<10	<10	55	<10	41		
383		48	<20	0.05	<10	<10	21	<10	29		
384		459	<20	0.19	<10	<10	57	<10	44		
385		1110	<20	0.29	<10	<10	89	<10	61		
386		23	<20	0.01	<10	<10	89	<10	78		
387		21	<20	<0.01	<10	<10	29	<10	80		
388		27	<20	<0.01	<10	<10	21	<10	42		
389		208	<20	0.27	<10	<10	100	<10	75		
390		27	<20	0.02	<10	<10	19	<10	35		
391		144	<20	0.34	<10	<10	44	<10	33		
392		146	<20	0.10	<10	<10	48	<10	75		
393		60	<20	0.04	<10	<10	54	<10	49		

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Project: VICUÑA TAYRONA

CERTIFICATE OF ANALYSIS L113096477

Sample Description	Method Analyte Units LOR	WB-21	Au-AA23	Au-GRA21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recid Wt. kg	Au ppm	Au ppm	Ag ppm	Al %	As ppm	B ppm	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe ppm
394		2.13	<0.005		<0.2	0.44	56	<10	10	<0.5	2	7.19	<0.5	4	4	8	
395		1.94	0.008		0.2	1.86	40	<10	80	<0.5	3	0.44	<0.5	14	4	24	
396		1.82	<0.005		<0.2	3.80	103	<10	20	0.8	<2	2.70	<0.5	17	7	14	
397		1.98	<0.005		0.2	3.30	19	<10	20	0.5	<2	4.81	<0.5	13	1	37	
398		0.05	0.078		<0.2	1.37	<2	<10	40	0.7	<2	0.51	<0.5	18	43	22	
399		2.11	<0.005		<0.2	5.82	72	<10	10	1.0	<2	4.31	<0.5	12	<1	30	
400		1.88	0.124		0.8	6.63	109	<10	80	0.6	<2	3.68	<0.5	13	12	1410	
401		2.80	<0.005		<0.2	1.77	10	<10	40	<0.5	<2	1.25	<0.5	13	14	43	
402		2.20	0.050		12.1	0.77	13	<10	10	<0.5	<2	0.97	<0.5	7	6	>10000	
403		2.42	0.064		12.5	1.32	47	<10	10	<0.5	<2	0.61	<0.5	11	8	>10000	
404		2.06	<0.005		3.2	2.77	47	<10	40	0.5	<2	2.30	<0.5	21	13	>10000	
405		2.82	0.088		0.4	0.73	36	<10	30	<0.5	2	9.8	<0.5	6	2	152	
406		1.32	<0.005		0.2	3.16	618	<10	60	0.7	3	1.07	<0.5	30	8	117	
407		2.07	<0.005		0.3	1.28	33	<10	280	0.6	2	10.1	<0.5	14	1	229	
408		2.23	<0.005		0.3	0.50	38	<10	1500	<0.5	2	0.21	<0.5	3	1	12	
409		1.04	0.005		0.5	1.82	64	<10	250	<0.5	2	6.81	<0.5	15	7	37	
410		1.11	0.005		0.6	1.73	65	<10	210	<0.5	3	6.88	<0.5	13	7	31	
411		2.37	0.045		0.2	0.11	164	<10	10	<0.5	3	0.01	<0.5	1	6	14	
412		2.30	<0.005		<0.2	0.11	52	<10	30	<0.5	2	0.02	<0.5	2	7	25	
413		1.88	<0.005		<0.2	0.05	2	<10	<10	<0.5	3	0.01	<0.5	1	5	5	
414		1.52	<0.005		0.2	0.12	17	<10	10	<0.5	3	0.01	<0.5	1	12	16	
415		2.08	<0.005		<0.2	0.45	19	<10	40	<0.5	4	0.02	<0.5	1	4	14	
416		2.89	<0.005		<0.2	0.53	18	<10	190	0.7	3	0.03	<0.5	3	1	4	
417		0.05	<0.005		<0.2	1.30	<2	<10	40	0.7	<2	0.54	<0.5	17	40	25	
418		1.81	<0.005		<0.2	1.16	19	<10	90	<0.5	<2	0.15	<0.5	2	4	9	
419		1.91	<0.005		<0.2	0.88	20	<10	100	<0.5	<2	0.15	<0.5	1	3	5	
420		1.47	<0.005		<0.2	1.33	38	<10	70	0.8	4	0.29	<0.5	1	2	18	
421		1.75	<0.005		<0.2	0.50	44	<10	150	1.2	3	0.07	<0.5	6	1	13	
422		1.88	<0.005		<0.2	1.21	10	<10	180	<0.5	<2	0.09	<0.5	1	2	6	
423		0.05	0.078		<0.2	1.32	<2	<10	40	0.7	<2	0.52	<0.5	17	44	21	
424		2.10	<0.005		0.2	0.47	40	<10	260	<0.5	3	0.01	<0.5	<1	3	12	
425		2.10	<0.005		0.2	0.70	48	<10	70	<0.5	3	0.01	<0.5	<1	3	22	
426		1.45	<0.005		<0.2	0.51	40	<10	250	<0.5	4	0.02	<0.5	<1	3	15	
427		1.51	<0.005		0.2	0.51	50	<10	130	<0.5	5	0.02	<0.5	<1	2	11	
428		1.87	<0.005		0.2	0.31	142	<10	150	<0.5	5	0.02	<0.5	<1	3	23	
429		1.98	<0.005		0.2	0.83	82	<10	270	1.1	6	0.10	<0.5	8	2	14	
430		1.88	<0.005		0.2	0.52	86	<10	90	<0.5	4	0.06	<0.5	<1	3	17	
431		1.76	<0.005		<0.2	0.38	34	<10	70	<0.5	4	0.01	<0.5	<1	2	6	
432		2.46	<0.005		0.5	1.43	168	<10	60	<0.5	5	0.10	<0.5	<1	8	54	
433		1.26	<0.005		0.2	2.22	41	<10	160	<0.5	3	0.13	<0.5	<1	10	81	

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To: MINERA APOGEO S.A.C.
CALLE LAS ORQUÍDEAS NO 2750 DPTO. 601 -
LINCE
LINCE LIMA 14

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Account: MINASAC

Project: VICUÑA TAYRONA

CERTIFICATE OF ANALYSIS L113096477

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Fe %	Ca ppm	Hg ppm	K %	La ppm	Mg %	Mn ppm	Mo ppm	Na ppm	Ni ppm	P ppm	Sb ppm	Se ppm	Sc ppm	Si ppm	Ti ppm	V ppm
394		0.94	<10	1	0.04	10	0.22	710	<1	0.02	1	210	2	0.01	<2	2		
395		2.83	10	1	0.10	10	0.85	320	<1	0.02	8	610	3	0.01	<2	3		
396		3.63	10	<1	0.07	20	1.70	595	<1	0.08	10	1070	5	0.01	5	12		
397		3.76	10	1	0.06	20	1.22	864	<1	0.09	1	1070	3	0.01	<2	9		
398		2.86	<10	1	0.31	20	1.28	368	1	0.50	88	880	4	0.02	<2	1		
399		3.88	20	1	0.06	20	0.86	582	<1	0.06	<1	1530	15	<0.01	<2	13		
400		3.28	20	1	0.08	10	0.78	377	<1	0.42	10	820	15	0.06	<2	5		
401		3.70	10	<1	0.22	10	0.56	211	<1	0.25	11	1240	<2	0.01	<2	5		
402		1.66	<10	1	0.11	10	0.33	211	<1	0.02	5	540	<2	0.05	8	2		
403		2.41	10	1	0.09	10	0.61	283	<1	0.03	8	820	5	0.06	22	3		
404		4.62	10	1	0.08	20	1.88	852	<1	0.11	18	1280	5	0.01	<2	10		
405		1.57	<10	<1	0.09	10	0.43	1030	<1	0.01	2	390	2	0.01	<2	2		
406		6.80	10	1	0.08	20	2.10	1300	<1	0.01	14	1260	23	0.01	16	7		
407		2.32	<10	<1	0.17	20	0.54	2110	<1	0.02	5	560	5	0.01	3	3		
408		1.32	<10	<1	0.18	20	0.69	183	2	<0.01	<1	390	31	0.18	3	1		
409		3.45	10	1	0.13	10	1.26	2440	<1	0.03	5	540	30	0.03	<2	8		
410		3.38	10	1	0.13	10	1.22	2240	<1	0.03	4	520	29	0.02	<2	7		
411		2.72	<10	<1	0.05	10	0.01	29	<1	0.01	<1	430	4	0.03	<2	<1		
412		1.24	<10	<1	0.01	10	0.01	39	3	0.01	1	290	<2	0.02	<2	<1		
413		0.22	<10	<1	<0.01	10	<0.01	20	2	0.01	<1	30	<2	0.01	<2	<1		
414		3.15	<10	<1	0.01	10	<0.01	14	81	0.01	<1	380	3	0.04	<2	<1		
415		4.07	<10	1	0.03	10	<0.01	17	2	0.01	<1	900	<2	0.06	<2	2		
416		0.94	<10	<1	0.19	30	0.04	373	<1	0.04	<1	270	7	0.02	<2	<1		
417		2.50	<10	<1	0.30	10	1.26	339	1	0.48	86	820	8	0.02	<2	1		
418		1.57	10	1	0.18	20	0.37	261	<1	0.08	<1	500	8	0.08	<2	3		
419		1.25	<10	<1	0.20	20	0.28	278	1	0.08	<1	400	4	0.15	<2	3		
420		2.89	<10	1	0.12	30	0.10	21	4	0.02	1	570	7	0.01	<2	4		
421		2.58	<10	<1	0.13	20	0.02	302	1	0.02	<1	450	4	0.03	<2	1		
422		1.25	<10	<1	0.18	20	0.12	79	2	0.03	<1	110	4	0.01	2	2		
423		2.62	<10	<1	0.29	10	1.25	362	1	0.47	86	880	5	0.01	<2	1		
424		5.82	<10	<1	0.02	20	<0.01	15	4	0.01	<1	1680	5	0.06	3	2		
425		8.15	<10	<1	0.02	10	<0.01	35	3	0.01	<1	360	11	0.09	3	1		
426		6.53	<10	<1	0.02	10	<0.01	21	2	0.01	<1	360	9	0.08	2	1		
427		4.20	<10	<1	0.07	10	<0.01	11	3	0.02	<1	1540	4	0.08	2	1		
428		6.25	<10	<1	0.09	10	0											



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Project: VICUÑA TAYRONA

CERTIFICATE OF ANALYSIS L113096477

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Ag-AA46	Cu-AA46
		Sr ppm 1	Th ppm 20	Ti % 0.01	Ti ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 2	Ag ppm 1	Cu % 0.001
394		139	<20	0.02	<10	<10	10	<10	14		
395		25	<20	<0.01	<10	<10	62	<10	45		
396		62	<20	0.31	<10	<10	56	<10	70		
397		92	<20	0.15	<10	<10	154	<10	84		
398		162	<20	0.34	<10	<10	44	<10	35		
399		163	<20	0.27	<10	<10	89	<10	75		
400		293	<20	0.21	<10	<10	264	<10	72		
401		98	<20	0.22	<10	<10	64	<10	34		
402		15	<20	0.02	<10	<10	38	<10	26	1.517	
403		23	<20	0.02	<10	<10	57	<10	54	1.402	
404		116	<20	0.33	<10	<10	148	<10	68	1.962	
405		256	<20	0.02	<10	<10	22	<10	26		
406		41	<20	<0.01	<10	<10	111	<10	107		
407		117	<20	<0.01	<10	<10	29	<10	45		
408		29	<20	<0.01	<10	<10	4	<10	57		
409		297	<20	<0.01	<10	<10	81	<10	42		
410		293	<20	<0.01	<10	<10	60	<10	39		
411		3	<20	<0.01	<10	<10	3	<10	18		
412		5	<20	<0.01	<10	<10	2	<10	11		
413		5	<20	<0.01	<10	<10	1	<10	2		
414		5	<20	<0.01	<10	<10	12	<10	9		
415		10	<20	<0.01	<10	<10	50	<10	8		
416		11	<20	<0.01	<10	<10	4	<10	21		
417		142	<20	0.33	<10	<10	43	<10	32		
418		85	<20	0.12	<10	<10	38	<10	32		
419		66	<20	0.07	<10	<10	21	<10	24		
420		64	<20	<0.01	<10	<10	41	<10	34		
421		71	<20	<0.01	<10	<10	7	<10	14		
422		16	<20	0.02	<10	<10	13	<10	9		
423		158	<20	0.34	<10	<10	43	<10	36		
424		86	<20	<0.01	<10	<10	43	<10	11		
425		101	<20	<0.01	<10	<10	41	<10	12		
426		88	<20	<0.01	<10	<10	38	<10	5		
427		65	<20	<0.01	<10	<10	16	<10	7		
428		21	<20	<0.01	<10	<10	30	<10	5		
429		18	<20	<0.01	<10	<10	14	<10	22		
430		11	<20	<0.01	<10	<10	20	<10	9		
431		60	<20	<0.01	<10	<10	14	<10	5		
432		16	<20	<0.01	<10	<10	44	<10	11		
433		52	<20	<0.01	<10	<10	133	<10	6		

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Project: VICUÑA TAYRONA

CERTIFICATE OF ANALYSIS L113096477

Sample Description	Method Analyte Units LOR	WB-21	Au-AA23	Au-GRA21	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Recvd Wt. kg 0.02	Au ppm 0.005	Au ppm 0.05	Ag ppm 0.2	Al % 0.01	As ppm 2	B ppm 10	Be ppm 10	Bi ppm 0.5	Ca ppm 2	Cd % 0.01	Cd ppm 0.5	Co ppm 1	Cr ppm 1	Cu ppm 1			
434		0.36	0.067		8.8	4.14	20	<10	20	<0.5	3	11.5	1.5	13	1	6340			
435		0.47	0.081		4.5	3.96	21	<10	20	0.6	<2	6.84	0.5	16	2	2340			
436		1.53	0.184		32.4	3.76	26	10	20	0.5	3	24.3	<0.5	24	20	>10000			
437		1.11	<0.005		0.3	4.87	267	<10	10	<0.5	<2	3.32	<0.5	3	10	46			
438		1.74	<0.005		0.2	0.62	12	<10	50	<0.5	<2	0.07	<0.5	1	2	10			
439		2.12	<0.005		0.2	0.37	11	<10	50	<0.5	<2	0.07	<0.5	1	2	35			
440		2.25	<0.005		<0.2	0.39	15	<10	40	<0.5	<2	0.13	<0.5	<1	2	3			
441		1.24	<0.005		<0.2	0.58	25	<10	120	<0.5	<2	0.04	<0.5	1	3	5			
442		1.98	1.655		43.1	2.80	45	<10	30	<0.5	<2	14.1	2.4	10	5	>10000			
443		0.05	<0.005		<0.2	1.34	2	<10	40	0.7	<2	0.59	<0.5	18	43	41			
444		2.42	<0.005		0.2	2.04	10	<10	30	<0.5	<2	2.88	<0.5	2	2	21			
445		1.91	<0.005		<0.2	0.33	11	<10	40	<0.5	<2	0.17	<0.5	1	8	11			
446		1.89	0.005		0.2	0.61	16	<10	40	<0.5	2	0.20	<0.5	5	5	47			
447		1.70	2.71		7.5	0.39	17	<10	10	0.8	<2	12.8	<0.5	4	3	128			
448		1.58	0.008		0.3	1.71	219	<10	40	<0.5	<2	0.43	<0.5	3	8	29			
449		0.05	0.091		<0.2	1.34	<2	<10	40	0.7	<2	0.55	<0.5	18	47	22			
450		1.62	<0.005		<0.2	0.79	26	<10	70	<0.5	2	0.09	<0.5	1	10	115			
601		1.78	0.005		0.2	0.73	26	<10	70	<0.5	2	0.09	<0.5	1	10	115			
602		1.85	<0.005		<0.2	1.01	16	<10	60	<0.5	3	0.06	<0.5	5	3	38			
603		1.64	0.055		21.1	3.77	73	<10	30	<0.5	<2	2.97	1.5	22	9	>10000			
604		1.85	<0.005		0.2	3.01	68	<10	90	<0.5	<2	0.15	<0.5	2	5	60			
605		2.32	<0.005		0.2	3.45	64	<10	90	0.6	<2	1.39	<0.5	15	13	18			
606		3.06	<0.005		0.3	2.05	12	<10	60	<0.5	2	0.48	<0.5	20	2	95			
607		2.37	<0.005		0.9	0.41	222	<10	30	0.5	<2	0.08	<0.5	6	5	5			
608		1.34	<0.005		<0.2	1.12	27	<10	130	1.9	2	0.08	<0.5	13	1	17			
609		1.96	<0.005		0.2	0.54	36	<10	40	<0.5	<2	0.02	<0.5	1	2	3			
610		0.92	0.007		<0.2	0.86	9	<10	240	1.3	<2	0.20	<0.5	29	1	6			
611		1.29	0.006		<0.2	0.79	8	<10	280	1.2	<2	0.18	<0.5	34	1	8			
612		1.79	<0.005		<0.2	0.45	28	<10	50	0.5	<2	0.21	<0.5	1	2	2			
613		2.58	0.906		52.1	5.32	1210	<10	20	0.6	<2	5.08	0.7	12	2	>10000			
614		2.07	2.40		30.0	3.33	20	<10	10	0.5	<2	9.5	1.0	3	1	>10000			
615		2.45	>10.0	16.45	>100	3.96	12	<10	<10	<0.5	2	5.16	19.3	4	1	>10000			
616		1.94	0.519		1.1	2.70	1500	<10	10	<0.5	<2	13.6	1.7	6	2	1250			
617		1.96	<0.005		0.2	3.95	8	<10	410	1.5	<2	2.35	<0.5	1	1	41			
618		1.17	0.005		0.4	3.62	12	<10	110	0.5	<2	13.2	<0.5	4	4	58			
619		0.05	<0.005		<0.2	1.28	<2	<10	40	0.6	<2	0.55	<0.5	17	42	27			
620		2.10	<0.005		<0.2	1.17	72	<10	10	1.1	<2	3.40	<0.5	2	6	26			
621		1.71	<0.005		<0.2	0.29	10	<10	20	<0.5	2	0.27	<0.5	3	1	11			
622		1.68	<0.005		0.2	3.67	22	<10	20	0.5	<2	2.57	<0.5	25	35	16			
623		2.26	<0.005		0.3	4.10	23	<10	50	<0.5	<2	2.03	5.5	17	24	51			

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CERTIFICATE OF ANALYSIS LIT 3096477

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Fe % 0.01	Ca ppm 10	Hg ppm 1	K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 2	Sc ppm 1
434		3.45	10	<1	0.13	10	1.15	882	<1	0.07	3	670	9	0.25	<2	5
435		4.20	10	1	0.12	10	1.53	903	<1	0.07	4	910	6	0.07	<2	7
436		5.32	20	1	0.08	20	2.28	993	<1	0.08	21	1150	4	0.55	2	17
437		4.26	20	<1	0.08	10	1.15	343	<1	0.05	7	1000	15	0.09	4	12
438		0.76	<10	<1	0.12	20	0.08	128	1	0.04	<1	90	4	0.01	<2	2
439		0.53	<10	<1	0.11	20	0.02	49	2	0.05	<1	40	6	0.01	<2	<1
440		0.45	<10	<1	0.15	20	0.05	21	5	0.03	<1	50	2	0.01	<2	<1
441		0.44	<10	<1	0.14	20	0.04	74	<1	0.05	<1	50	3	0.02	2	1
442		2.28	10	1	0.12	10	0.58	1020	<1	0.10	7	570	5	0.63	13	7
443		2.86	<10	<1	0.30	10	1.36	357	1	0.49	70	880	10	0.01	<2	1
444		0.88	<10	<1	0.16	10	0.15	362	<1	0.02	<1	290	4	0.01	<2	1
445		0.88	<10	<1	0.13	10	0.01	319	1	0.06	<1	40	6	0.01	4	<1
446		1.33	<10	<1	0.12	10	0.14	350	<1	0.05	2	300	13	0.02	<2	1
447		0.99	<10	<1	0.08	10	0.25	589	<1	0.02	1	220	7	0.02	7	1
448		5.33	10	<1	0.10	10	0.88	331	<1	0.04	3	1030	15	0.10	5	12
449		2.73	<10	<1	0.31	10	1.32	380	1	0.48	70	920	5	0.01	<2	1
450		3.97	<10	<1	0.25	10	0.07	50	3	0.03	1	740	4	0.02	2	3
601		6.29	<10	<1	0.23	10	0.05	87	131	0.03	<1	1050	6	0.03	2	9
602		7.59	<10	<1	0.28	10	0.14	120	9	0.02	<1	1440	4	0.11	<2	2
603		4.78	10	<1	0.14	10	1.80	904	<1	0.10	17	1020	12	0.31	4	15
604		4.98	10	<1	0.08	10	0.26	475	4	0.01	<1	940	21	0.03	<2	7
605		4.75	10	1	0.24	10	1.08	930	4	0.15	15	1350	4	3.80	3	8
606		5.42	10	<1	0.12	10	1.25	531	1	0.17	4	600	9	5.19	<2	6
607		1.36	<10	<1	0.08	10	0.23	247	1	0.01	1	140	19	0.04	4	<1
608		1.42	<10	<1	0.13	30	0.08	767	<1	0.02	4	130	10	0.02	2	1
609		0.56	<10	<1	0.12	10	0.03	24	1	0.02	<1	30	7	0.01	<2	1
610		0.87	<10	<1	0.16	10	0.12	899	2	0.01	1	90	33	0.01	<2	1
611		1.06	<10	<1	0.15	10	0.12	1350	2	0.01	<1	100	59	0.01	2	<1
612		0.57	<10	<1	0.16	10	0.03	103	<1	0.01	<1	40	11	0.01	<2	1
613		3.27	20	3	0.07	10	0.92	579	<1	0.11	4	710	28	1.05	3	4
614		1.34	10	2	0.10	10	0.22	962	<1	0.04	1	220	8	0.35	<2	1
615		1.99	10	1	0.04	<10	0.52	331	<1	0.04	<1	90	111	0.82	<2	1
616		2.01	10	<1	0.07	10	0.23	476	<1	0.05	3	370	15	<0.01	9	4
617		0.34	<10	<1	0.32	10	0.14	217	<1	0.36	<1	60	7	0.01	<2	1
618		1.71	<10	<1	0.14	10	0.14	390	<1	0.21	3	420	7	<0.01	<2	2
619		2.53	<10	<1	0.38	10	1.28	342	1	0.46	88	840	9	0.01	<2	1
620		1.50	<10	<1	0.07	30	0.48	536	<1	0.02	5	380	15	0.44	<2	2
621		1.20	<10	<1	0.17	20	0.03	33	1	0.01	1	100	5	1.13	<2	<1
622		6.22	10	<1	0.11	10	3.88	980	<1	0.01	30	1000	5	2.74	<2	6
623		3.36	10	<1	0.04	20	1.63	472	<1	0.26	21	1240	39	0.03	<2	2

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



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Project: VICUÑA TAYRONA

CERTIFICATE OF ANALYSIS LIT 3096477

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Ag-AA46	Cu-AA46
		Sr ppm 1	Th ppm 20	Ti % 0.01	Tl ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 2	Ag ppm 1	Cu % 0.001
434		123	<20	0.13	<10	<10	87	<10	53		
435		93	<20	0.22	<10	<10	114	<10	77		
436		127	<20	0.42	<10	<10	811	<10	86	4.070	
437		132	<20	0.28	<10	<10	23	<10	44		
438		10	<20	0.03	<10	<10	12	<10	14		
439		8	<20	<0.01	<10	<10	1	<10	8		
440		15	<20	<0.01	<10	<10	1	<10	10		
441		6	<20	0.01	<10	<10	1	<10	7		
442		213	<20	0.22	<10	<10	213	<10	30	5.194	
443		146	<20	0.35	<10	<10	44	<10	35		
444		67	<20	0.02	<10	<10	19	<10	20		
445		5	<20	0.01	<10	<10	12	<10	17		
446		7	<20	<0.01	<10	<10	12	<10	22		
447		91	<20	0.01	<10	<10	21	<10	28		
448		86	<20	0.26	<10	<10	82	<10	42		
449		163	<20	0.35	<10	<10	46	<10	38		
450		9	<20	<0.01	<10	<10	18	<10	19		
601		15	<20	<0.01	<10	<10	40	<10	10		
602		13	<20	<0.01	<10	<10	26	<10	6		
603		144	<20	0.45	<10	<10	129	<10	65	1.203	
604		26	<20	0.05	<10	<10	60	<10	47		
605		284	<20	0.20	<10	<10	43	<10	47		
606		420	<20	0.01	<10	<10	102	<10	53		
607		4	<20	<0.01	<10	<10	4	<10	103		
608		48	<20	<0.01	<10	<10	6	<10	36		
609		3	<20	<0.01	<10	<10	1	<10	7		
610		22	<20	<0.01	<10	<10	5	<10	51		
611		21	<20	<0.01	<10	<10	5	<10	50		
612		34	<20	<0.01	<10	<10	2	<10	7		
613		86	<20	0.05	<10	<10	175	<10	51	5.710	
614		55	<20	0.01	<10	<10	76	<10	22	3.324	
615		36	<20	0.01	<10	<10	147	<10	41	335	4.779
616		51	<20	0.12	<10	<10	181	<10	25		
617		335	<20	0.01	<10	<10	4	<10	15		
618		541	<20	0.03	<10	<10	28	<10	23		
619		137	<20	0.33	<10	<10	43	<10	34		
620		48	<20	<0.01	<10	<10	20	<10	28		
621		17	<20	<0.01	<10	<10	2	<10	13		
622		75	<20	0.01	<10	<10	87	<10	64		
623		848	<20	0.10	<10	<10	115	<10	1025		

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Project: VICUÑA TAYRONA

CERTIFICATE OF ANALYSIS LI13096477

Sample Description	Method Analyte Units LOR	WB-21 Recvd Wt. kg	Au-AA23 Au ppm	Au-CRA21 Au ppm	ME-ICP41 Ag ppm	ME-ICP41 Al %	ME-ICP41 As ppm	ME-ICP41 B ppm	ME-ICP41 Ba ppm	ME-ICP41 Be ppm	ME-ICP41 Bi ppm	ME-ICP41 Ca %	ME-ICP41 Cd ppm	ME-ICP41 Co ppm	ME-ICP41 Cr ppm	ME-ICP41 Cu ppm
624		1.96	<0.005		<0.2	3.43	81	<10	20	<0.5	<2	0.45	<0.5	26	15	26
625		0.05	0.078		<0.2	1.51	2	<10	40	0.8	2	0.58	<0.5	18	47	22
626		1.54	<0.005		<0.2	1.78	4	<10	230	0.7	<2	8.41	<0.5	13	20	139
627		1.93	<0.005		<0.2	0.30	19	<10	30	<0.5	<2	0.06	<0.5	1	2	8
628		1.99	<0.005		<0.2	0.40	8	<10	30	0.8	<2	0.12	<0.5	1	1	3
629		1.98	<0.005		<0.2	0.63	13	<10	40	0.7	<2	0.20	<0.5	1	1	1
630		1.87	<0.005		<0.2	0.61	14	<10	30	<0.5	<2	0.13	<0.5	1	2	11
631		1.53	<0.005		<0.2	2.72	218	<10	70	0.7	<2	0.60	<0.5	49	11	7
632		1.56	<0.005		<0.2	0.60	26	<10	80	<0.5	<2	0.01	<0.5	1	1	7
633		2.02	<0.005		<0.2	0.58	8	<10	20	<0.5	4	0.01	<0.5	<1	1	164
634		1.51	<0.005		<0.2	1.46	83	<10	60	<0.5	<2	0.05	<0.5	14	12	26
635		1.37	<0.005		<0.2	1.37	89	<10	50	<0.5	2	0.05	<0.5	4	12	26
636		1.46	<0.005		<0.2	0.42	7	<10	40	<0.5	<2	0.02	<0.5	1	1	7
637		1.76	<0.005		<0.2	3.21	49	<10	40	<0.5	2	0.42	<0.5	1	10	39
638		1.42	<0.005		0.2	0.66	74	<10	60	<0.5	8	0.01	<0.5	11	8	82
639		1.91	0.005		<0.2	0.30	104	<10	40	<0.5	34	0.10	<0.5	3	1	7
640		1.87	<0.005		<0.2	0.52	20	<10	90	<0.5	3	0.02	<0.5	2	1	9
641		0.05	<0.005		<0.2	1.28	2	<10	40	0.6	<2	0.58	<0.5	17	42	25
642		2.02	<0.005		<0.2	0.31	15	<10	50	<0.5	7	0.08	<0.5	<1	2	2
643		1.11	0.008		<0.2	0.87	33	<10	40	0.7	5	0.02	<0.5	5	1	22
644		2.15	<0.005		0.2	0.24	36	20	30	<0.5	9	0.02	<0.5	1	2	3
645		1.43	<0.005		<0.2	1.63	8	<10	80	0.6	2	0.18	<0.5	2	4	34
646		1.43	<0.005		<0.2	2.21	7	<10	80	<0.5	2	0.51	<0.5	2	7	81
647		0.05	0.078		0.2	1.32	2	<10	40	0.7	<2	0.52	<0.5	18	44	21
648		1.83	<0.005		<0.2	2.06	37	<10	40	<0.5	5	2.64	<0.5	20	8	13
649		1.50	<0.005		0.2	0.50	64	<10	30	0.6	74	0.02	<0.5	9	2	14
650		2.19	<0.005		<0.2	0.71	190	<10	70	<0.5	2	0.08	<0.5	7	3	7
651		1.94	<0.005		<0.2	0.30	61	<10	260	<0.5	2	0.05	<0.5	2	2	4
652		1.80	<0.005		0.3	2.63	43	<10	30	<0.5	4	0.10	<0.5	6	2	26
653		1.70	<0.005		0.2	1.49	108	<10	30	<0.5	2	0.31	<0.5	19	1	18

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Project: VICUÑA TAYRONA

CERTIFICATE OF ANALYSIS LI13096477

Sample Description	Method Analyte Units LOR	ME-ICP41 Fe %	ME-ICP41 Ca ppm	ME-ICP41 Mg ppm	ME-ICP41 K %	ME-ICP41 La ppm	ME-ICP41 Mn %	ME-ICP41 Mo ppm	ME-ICP41 Ni ppm	ME-ICP41 Na %	ME-ICP41 Ni ppm	ME-ICP41 P ppm	ME-ICP41 Pb ppm	ME-ICP41 S %	ME-ICP41 Se ppm	ME-ICP41 Sb ppm
624		4.94	10	<1	0.10	10	3.27	204	1	0.02	16	570	3	3.96	<2	7
625		2.78	<10	<1	0.36	10	1.37	389	1	0.51	73	970	7	0.02	<2	1
626		3.30	<10	<1	0.26	10	0.73	928	<1	0.16	15	820	5	0.01	<2	9
627		0.47	<10	<1	0.16	20	0.02	29	1	0.02	<1	40	5	0.01	<2	<1
628		0.52	<10	<1	0.13	20	0.04	53	<1	0.05	1	30	5	<0.01	<2	<1
629		0.38	<10	<1	0.18	20	0.08	89	<1	0.04	<1	60	7	<0.01	<2	<1
630		1.31	<10	<1	0.19	20	0.10	25	<1	0.03	<1	290	4	0.01	<2	2
631		7.05	10	<1	0.07	20	1.40	1290	<1	0.03	6	980	19	0.01	3	8
632		1.50	<10	<1	0.22	20	0.04	33	2	0.05	<1	400	9	0.18	<2	1
633		39.9	<10	<1	0.06	<10	0.01	<5	<1	0.02	<1	2390	<2	0.29	<2	1
634		7.68	10	<1	0.23	10	0.23	492	<1	0.01	1	1410	5	0.04	<2	5
635		8.08	10	<1	0.22	10	0.16	41	<1	0.01	<1	1540	6	0.04	<2	4
636		1.38	<10	<1	0.16	10	0.03	13	5	0.01	<1	520	4	0.01	<2	1
637		4.41	10	<1	0.02	10	1.15	200	<1	0.01	4	990	4	0.02	<2	9
638		23.6	<10	<1	0.10	10	0.02	112	2	0.01	<1	3310	5	0.19	<2	3
639		4.05	<10	<1	0.23	10	0.01	27	34	0.02	2	750	6	0.31	<2	1
640		1.29	<10	<1	0.24	10	0.05	57	3	0.01	<1	390	3	0.04	<2	<1
641		2.56	<10	<1	0.29	10	1.31	347	1	0.48	88	860	10	0.01	<2	1
642		1.14	<10	<1	0.27	20	0.04	6	1	0.01	<1	700	2	0.21	<2	1
643		4.80	<10	<1	0.19	10	0.05	368	3	0.01	<1	1330	11	0.02	<2	1
644		1.29	<10	<1	0.14	10	0.01	8	1	0.01	<1	140	2	0.16	<2	<1
645		2.34	<10	<1	0.26	20	0.71	288	1	0.02	1	400	4	0.01	<2	1
646		19.5	10	<1	0.02	10	0.85	340	<1	0.01	<1	1700	8	0.03	2	7
647		2.67	<10	<1	0.29	10	1.29	367	1	0.47	88	900	5	<0.01	<2	1
648		6.90	<10	<1	0.22	20	1.30	189	1	0.04	9	1020	5	5.34	<2	8
649		5.33	<10	<1	0.10	10	0.02	39	1	0.01	7	560	13	0.04	<2	1
650		2.04	<10	<1	0.14	20	0.31	57	1	0.01	1	250	3	1.43	2	1
651		1.48	<10	<1	0.04	10	0.02	12	5	0.02	<1	1660	3	1.05	2	<1
652		4.02	10	<1	0.05	10	1.83	418	1	0.05	4	550	8	1.01	<2	5
653		3.95	<10	<1	0.15	10	0.62	457	4	0.01	1	1210	9	2.32	2	2

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Project: VICUÑA TAYRONA

CERTIFICATE OF ANALYSIS L113096477

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Ag-AA46	Cu-AA46
		Sr ppm 1	Th ppm 26	Ti % 0.01	Ti ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 2	Ag ppm 1	Cu % 0.001	
E24		25	<20	0.01	<10	<10	73	<10	16			
E25		168	<20	0.35	<10	<10	45	<10	39			
E26		494	<20	0.26	<10	<10	161	<10	57			
E27		4	20	<0.01	<10	<10	1	<10	6			
E28		11	<20	<0.01	<10	<10	2	<10	18			
E29		18	<20	<0.01	<10	<10	1	<10	13			
E30		12	<20	<0.01	<10	<10	10	<10	5			
E31		33	<20	0.01	<10	<10	92	<10	70			
E32		11	<20	<0.01	<10	<10	6	<10	22			
E33		2	<20	<0.01	<10	<10	16	<10	6			
E34		8	<20	<0.01	<10	<10	52	<10	18			
E35		6	<20	<0.01	<10	<10	54	<10	12			
E36		3	<20	<0.01	<10	<10	6	<10	9			
E37		30	<20	<0.01	<10	<10	107	<10	21			
E38		7	<20	<0.01	<10	<10	126	<10	92			
E39		55	<20	<0.01	<10	<10	5	<10	8			
E40		7	<20	<0.01	<10	<10	3	<10	<2			
E41		139	<20	0.34	<10	<10	43	<10	34			
E42		13	<20	<0.01	<10	<10	10	<10	<2			
E43		3	<20	<0.01	<10	<10	4	<10	3			
E44		24	<20	<0.01	<10	<10	10	<10	2			
E45		16	<20	<0.01	<10	<10	13	<10	36			
E46		88	<20	0.09	<10	<10	140	<10	58			
E47		158	<20	0.24	<10	<10	43	<10	38			
E48		65	<20	<0.01	<10	<10	58	<10	33			
E49		9	<20	<0.01	<10	<10	23	<10	84			
E50		5	<20	<0.01	<10	<10	14	<10	7			
E51		21	<20	<0.01	<10	<10	1	<10	3			
E52		12	<20	0.02	<10	<10	94	<10	42			
E53		8	<20	<0.01	<10	<10	20	<10	51			

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Project: VICUÑA TAYRONA

CERTIFICATE OF ANALYSIS L113096477

CERTIFICATE COMMENTS																	
Applies to Method:	<p>LABORATORY ADDRESSES</p> <p>Processed at ALS Lima located at Calle 1 LT- 1A Mz- D, esq. Calle A, Urb. Industrial Bocanegra Callao 01, Lima, Peru.</p> <table border="0"> <tr> <td>Ag- AA46</td> <td>Au- AA23</td> <td>Au- GRA21</td> <td>CRU- 31</td> </tr> <tr> <td>CRU- QC</td> <td>Cu- AA46</td> <td>LOG- 22</td> <td>LOG- 24</td> </tr> <tr> <td>ME- ICP41</td> <td>PUL- 31</td> <td>PUL- QC</td> <td>SPL- 21</td> </tr> <tr> <td>WEI- Z1</td> <td></td> <td></td> <td></td> </tr> </table>	Ag- AA46	Au- AA23	Au- GRA21	CRU- 31	CRU- QC	Cu- AA46	LOG- 22	LOG- 24	ME- ICP41	PUL- 31	PUL- QC	SPL- 21	WEI- Z1			
Ag- AA46	Au- AA23	Au- GRA21	CRU- 31														
CRU- QC	Cu- AA46	LOG- 22	LOG- 24														
ME- ICP41	PUL- 31	PUL- QC	SPL- 21														
WEI- Z1																	



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 This copy reported on 13-JUN-2013
 Account: MINASAC

CERTIFICATE LI13100705

Project: VICUÑA TAYRONA
 P.O. No.:
 This report is for 81 Rock samples submitted to our lab in Lima, Peru on 4-JUN-2013.
 The following have access to data associated with this certificate:
 MIGUEL BARRIONUEVO JULIO VELANDIA

SAMPLE PREPARATION

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample login - Rcd w/o BarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% <2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um
LOG-24	Pulp Login - Rcd w/o Barcode

ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME- ICP41	35 Element Aqua Regia ICP-AES	ICP-AES
Ag-AA46	Ore grade Ag - aqua regia/AA	AAS
Pb-AA46	Ore grade Pb - aqua regia/AA	AAS
Au-AA23	Au 30g FA- AA finish	AAS

To: MINERA APOGEO S.A.C.
 ATTN: MIGUEL BARRIONUEVO
 CALLE LAS ORQUÍDEAS NO 2750 DPTO. 601 - LINC LINC LIMA 14

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:

Rene Mamani, Laboratory Manager, Peru



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CERTIFICATE OF ANALYSIS LI13100705

Sample Description	Method Analyte Units LOR	WB-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Revd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B %	Ba ppm	Be ppm	B ppm	Ca ppm	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe ppm	K %	Mn ppm
656		1.69	0.005	<0.2	4.50	133	<10	80	0.5	<2	0.59	<0.5	1	27	49	5.09		
657		1.98	<0.005	<0.2	0.73	78	<10	50	<0.5	<2	0.05	<0.5	<1	<1	3	1.87		
658		2.31	<0.005	<0.2	1.18	27	<10	50	<0.5	<2	0.64	<0.5	6	1	16	2.86		
659		1.42	<0.005	<0.2	0.81	21	<10	30	<0.5	<2	2.42	<0.5	13	1	32	1.86		
660		1.77	<0.005	<0.2	0.31	34	<10	20	<0.5	<2	1.66	<0.5	22	2	28	2.70		
661		2.53	<0.005	<0.2	0.72	44	<10	50	<0.5	<2	0.21	<0.5	5	<1	10	3.30		
662		1.94	<0.005	<0.2	1.03	27	<10	50	<0.5	<2	0.02	<0.5	1	<1	4	1.18		
663		1.53	<0.005	<0.2	0.29	59	<10	20	<0.5	<2	0.02	<0.5	<1	<1	1	1.52		
664		2.11	<0.005	<0.2	1.06	104	<10	220	<0.5	<2	0.09	<0.5	1	<1	5	2.83		
665		2.70	<0.005	<0.2	1.51	26	<10	50	0.8	<2	2.22	<0.5	7	<1	9	3.81		
666		1.81	<0.005	<0.2	0.02	62	<10	10	<0.5	<2	0.02	<0.5	<1	2	1	0.99		
667		0.11	0.006	<0.2	1.29	<2	<10	40	0.7	<2	0.59	<0.5	17	42	24	2.59		
668		1.92	<0.005	<0.2	2.84	80	<10	40	<0.5	<2	0.81	<0.5	9	15	53	5.29		
669		1.43	<0.005	<0.2	3.71	19	<10	210	0.5	<2	0.88	<0.5	27	13	80	5.51		
670		1.33	<0.005	0.2	0.92	151	<10	140	<0.5	<2	0.24	<0.5	2	3	16	4.03		
671		1.64	<0.005	<0.2	2.80	26	<10	70	<0.5	<2	0.81	<0.5	10	<1	33	4.37		
672		1.42	0.005	0.2	1.21	11	<10	30	0.9	<2	2.75	0.5	12	<1	13	10.05		
673		0.11	0.060	<0.2	1.34	<2	<10	40	0.7	<2	0.53	<0.5	18	44	23	2.74		
674		1.45	<0.005	<0.2	2.11	16	<10	80	<0.5	<2	0.65	<0.5	30	<1	34	6.83		
675		1.70	<0.005	0.2	2.15	402	<10	80	<0.5	<2	0.25	<0.5	<1	<1	247	21.7		
676		1.87	<0.005	<0.2	1.08	15	<10	550	<0.5	<2	0.03	<0.5	<1	<1	7	2.04		
677		1.64	<0.005	<0.2	2.23	103	<10	150	<0.5	<2	0.07	<0.5	4	<1	26	4.74		
678		2.41	<0.005	<0.2	1.59	14	<10	50	<0.5	<2	0.28	<0.5	1	<1	12	2.66		
679		2.12	<0.005	<0.2	2.17	38	<10	60	0.5	<2	2.06	<0.5	17	<1	56	5.39		
680		1.58	0.005	<0.2	2.03	25	<10	100	<0.5	<2	0.28	<0.5	15	1	49	6.14		
681		1.51	<0.005	<0.2	1.43	13	<10	700	<0.5	<2	0.35	<0.5	7	2	45	5.88		
682		1.78	<0.005	<0.2	3.76	11	<10	210	0.7	<2	0.80	<0.5	21	4	65	4.86		
683		1.88	<0.005	<0.2	1.00	16	<10	80	<0.5	<2	0.27	<0.5	2	<1	14	2.88		
684		0.92	0.009	<0.2	2.71	89	<10	130	<0.5	<2	0.32	<0.5	<1	12	77	9.34		
685		0.94	0.007	<0.2	2.67	95	<10	110	<0.5	<2	0.31	<0.5	<1	12	86	7.80		
686		1.84	0.006	<0.2	1.46	44	<10	80	<0.5	<2	0.10	<0.5	4	2	41	5.08		
687		2.43	<0.005	<0.2	0.39	28	<10	50	<0.5	<2	0.07	<0.5	<1	<1	36	2.39		
688		1.93	<0.005	<0.2	0.93	100	<10	30	<0.5	3	0.24	<0.5	3	<1	16	5.34		
689		2.08	0.024	30.1	0.67	114	<10	60	0.5	<2	0.03	0.9	2	3	41	1.73		
690		1.94	<0.005	<0.2	0.42	16	<10	80	<0.5	<2	0.01	<0.5	<1	<1	4	1.01		
691		0.11	<0.005	<0.2	1.28	<2	<10	40	0.6	<2	0.57	<0.5	17	41	27	2.57		
692		2.70	<0.005	<0.2	0.38	66	<10	50	<0.5	<2	0.02	<0.5	1	<1	12	2.56		
693		1.41	<0.005	0.3	1.54	15	<10	710	2.6	<2	1.54	<0.5	1	<1	4	0.51		
694		2.16	0.008	<0.2	0.38	39	<10	30	<0.5	<2	0.07	<0.5	<1	<1	2	0.88		
695		2.61	<0.005	<0.2	0.45	12	<10	80	<0.5	<2	0.06	<0.5	1	<1	10	1.28		

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 LINC LIMA 14

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Project: VICUNA TAYRONA

CERTIFICATE OF ANALYSIS LI13100705

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ca ppm 10	Hg ppm 1	K % 0.01	La ppm 10	Mg % 0.01	Mn ppm 5	Mo ppm 1	Na % 0.01	Ni ppm 1	P ppm 10	Pb ppm 2	S % 0.01	Sb ppm 2	Sc ppm 1	Se ppm 1	Si ppm 1	Sn ppm 1
656	<10	<1	0.14	20	2.29	198	4	<0.01	5	1140	18	0.04	2	12	55			
657	<10	<1	0.23	10	0.04	20	2	0.02	<1	1160	11	0.19	2	1	24			
658	<10	<1	0.21	20	0.42	171	1	0.02	<1	990	11	1.49	-2	1	27			
659	<10	<1	0.19	10	0.12	401	3	0.01	<1	190	16	1.62	-2	1	25			
660	<10	<1	0.15	10	0.04	267	4	0.01	2	770	21	3.04	2	<1	19			
661	<10	<1	0.21	10	0.07	78	1	0.01	<1	750	19	2.25	2	1	14			
662	<10	<1	0.19	10	0.39	207	1	0.01	<1	310	30	0.60	2	1	7			
663	<10	<1	0.16	10	0.02	11	<1	0.02	<1	700	8	0.26	-2	1	71			
664	<10	<1	0.20	10	0.17	29	<1	0.03	<1	570	14	0.78	-2	3	51			
665	<10	<1	0.22	20	0.51	576	4	0.01	<1	950	17	2.23	-2	1	29			
666	<10	<1	0.01	<10	<0.01	13	2	0.03	<1	250	<2	0.23	-2	<1	16			
667	<10	<1	0.30	10	1.34	349	<1	0.46	67	660	11	0.01	-2	1	145			
668	10	<1	0.03	10	1.54	840	<1	0.08	4	1070	2	0.44	2	17	29			
669	10	1	0.04	10	1.20	1120	<1	0.02	4	890	4	0.01	-2	13	93			
670	<10	<1	0.18	10	0.03	36	2	0.04	<1	950	3	0.33	-2	4	858			
671	10	<1	0.04	10	0.26	1795	1	0.06	2	880	7	0.01	-2	6	73			
672	10	<1	0.03	<10	0.52	8940	6	0.01	1	510	11	0.01	-2	4	37			
673	<10	<1	0.30	10	1.33	394	1	0.46	71	910	6	0.01	-2	1	166			
674	10	1	0.04	<10	0.18	1835	1	0.05	2	1010	8	0.03	-2	7	53			
675	10	10	0.05	10	0.09	23	81	0.01	<1	1450	24	0.08	-2	3	60			
676	<10	1	0.22	<10	0.02	23	3	<0.01	<1	370	19	0.04	-2	2	50			
677	10	<1	0.10	10	0.51	498	<1	0.01	<1	960	5	0.11	-2	6	11			
678	<10	<1	0.07	10	0.10	41	1	0.06	<1	1060	6	0.01	-2	7	29			
679	10	2	0.06	10	0.55	314	<1	0.02	9	1040	7	3.95	-2	7	33			
680	10	<1	0.14	<10	0.37	1750	<1	0.10	1	640	5	0.41	-2	8	100			
681	<10	<1	0.18	<10	0.29	243	<1	0.04	4	1290	5	0.38	-2	5	118			
682	10	3	0.15	10	1.27	467	<1	0.10	7	1000	4	0.11	2	12	1415			
683	<10	3	0.09	10	0.19	96	1	0.11	<1	940	2	0.63	-2	8	180			
684	10	<1	0.13	20	0.55	97	<1	0.02	<1	1490	10	0.03	-2	6	92			
685	10	<1	0.12	10	0.49	88	<1	0.02	<1	1190	9	0.02	-2	6	81			
686	10	<1	0.17	10	0.38	252	1	0.01	2	890	46	0.02	-2	4	22			
687	<10	<1	0.14	10	0.02	13	3	0.03	1	900	2	0.02	-2	2	15			
688	<10	<1	0.19	10	0.25	145	<1	0.01	<1	1090	15	0.02	-2	2	32			
689	10	30	0.13	10	0.16	475	1	<0.01	1	690	2400	0.01	20	2	6			
690	<10	<1	0.21	10	0.02	13	2	0.01	<1	70	6	0.05	-2	2	6			
691	<10	<1	0.30	10	1.32	356	1	0.48	89	850	11	0.01	-2	1	144			
692	<10	<1	0.10	10	0.02	27	8	0.01	<1	740	6	0.01	-2	2	21			
693	<10	1	0.10	10	0.23	270	<1	0.02	1	70	33	0.41	-2	2	208			
694	<10	<1	0.15	10	0.03	29	25	0.01	<1	70	7	<0.01	-2	2	9			
695	<10	<1	0.21	10	0.05	23	1	0.01	<1	190	7	0.01	-2	2	12			

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



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Project: VICUNA TAYRONA

CERTIFICATE OF ANALYSIS LI13100705

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Ag-AA46	Pb-AA46
		Th ppm 20	Ti ppm 0.01	Tl ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 10	Ag ppm 1	Pb ppm 0.001
656	<20	0.22	<10	<10	116	<10	40			
657	<20	<0.01	<10	<10	5	<10	11			
658	<20	<0.01	<10	<10	16	<10	48			
659	<20	<0.01	<10	<10	6	<10	22			
660	<20	<0.01	<10	<10	2	<10	35			
661	<20	<0.01	<10	<10	5	<10	45			
662	<20	<0.01	<10	<10	17	<10	29			
663	<20	<0.01	<10	<10	6	<10	4			
664	<20	0.19	<10	<10	15	<10	20			
665	<20	<0.01	<10	<10	14	<10	72			
666	<20	<0.01	<10	<10	11	<10	4			
667	<20	0.33	<10	<10	44	<10	34			
668	<20	0.34	<10	<10	223	<10	35			
669	<20	0.16	<10	<10	184	<10	68			
670	<20	0.02	<10	<10	112	<10	6			
671	<20	<0.01	<10	<10	71	<10	83			
672	<20	0.02	<10	<10	113	10	95			
673	<20	0.35	<10	<10	45	<10	39			
674	<20	0.01	<10	<10	41	<10	108			
675	<20	<0.01	<10	<10	17	<10	23			
676	<20	<0.01	<10	<10	5	<10	9			
677	<20	<0.01	<10	<10	49	<10	37			
678	<20	0.03	<10	<10	37	<10	47			
679	<20	<0.01	<10	<10	33	<10	43			
680	<20	0.07	<10	<10	101	<10	51			
681	<20	0.05	<10	<10	113	<10	17			
682	<20	0.05	<10	<10	139	<10	103			
683	<20	0.04	<10	<10	69	<10	16			
684	<20	<0.01	<10	<10	121	<10	15			
685	<20	<0.01	<10	<10	114	<10	14			
686	<20	<0.01	<10	<10	37	<10	57			
687	<20	<0.01	<10	<10	5	<10	4			
688	<20	<0.01	<10	<10	13	<10	17			
689	<20	0.01	<10	10	29	<10	1085			
690	<20	<0.01	<10	<10	4	<10	5			
691	<20	0.34	<10	<10	44	<10	37			
692	<20	<0.01	<10	<10	12	<10	8			
693	<20	<0.01	<10	<10	4	<10	15			
694	<20	<0.01	<10	<10	2	<10	6			
695	<20	<0.01	<10	<10	6	<10	7			

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CERTIFICATE OF ANALYSIS LI13100705

Sample Description	Method Analyte Units LOR	WB-21	Au-AA23	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Reclvd Wt. kg	Au ppm	Ag ppm	Al %	As ppm	B %	Ba ppm	Be ppm	Bi ppm	Ca %	Cd ppm	Co ppm	Cr ppm	Cu ppm	Fe %	Pb ppm	Zn ppm	Mo ppm	Si %
696		1.50	<0.005	<0.2	0.45	30	<10	50	<0.5	<2	0.04	<0.5	<1	<1	8	2.13				
697		2.43	<0.005	<0.2	1.43	25	<10	150	<0.5	<2	0.18	<0.5	2	2	15	1.98				
698		0.11	0.082	<0.2	1.32	<2	<10	40	0.6	<2	0.53	<0.5	17	44	22	2.69				
699		2.22	<0.005	<0.2	1.47	29	<10	100	<0.5	<2	0.14	<0.5	<1	3	24	3.86				
700		1.83	<0.005	<0.2	0.51	93	<10	30	<0.5	<2	0.02	<0.5	<1	<1	1	0.27				
701		2.35	<0.005	<0.2	0.49	53	<10	30	<0.5	<2	0.01	<0.5	<1	<1	1	0.41				
702		1.59	0.007	<0.2	0.47	20	<10	80	<0.5	<2	0.12	<0.5	<1	<1	6	0.43				
703		2.12	<0.005	1.2	0.26	43	<10	40	<0.5	<2	0.01	<0.5	<1	2	10	0.96				
704		2.98	0.383	>100	0.22	135	<10	20	<0.5	<2	0.01	2.2	<1	1	182	1.13				
705		2.18	0.073	96.7	0.86	211	<10	80	<0.5	<2	0.01	2.0	2	6	281	3.47				
706		1.77	<0.005	5.4	1.07	47	<10	100	<0.5	<2	0.02	1.6	3	6	29	2.83				
707		1.71	0.005	9.4	1.41	74	<10	30	<0.5	<2	0.01	<0.5	2	6	112	1.59				
708		1.18	0.008	2.9	0.65	89	<10	40	<0.5	<2	0.01	2.9	4	6	27	1.50				
709		1.08	<0.005	2.1	1.00	55	<10	40	<0.5	<2	0.01	2.1	5	4	34	1.87				
710		2.18	0.143	>100	0.82	199	<10	150	0.9	<2	0.05	3.4	4	4	270	1.40				
711		1.15	<0.005	4.8	0.54	91	<10	250	<0.5	<2	0.02	3.5	<1	1	33	1.52				
712		1.89	<0.005	0.2	1.03	57	<10	50	1.6	<2	0.18	<0.5	<1	1	12	17.7				
713		2.05	<0.005	<0.2	0.22	108	<10	280	<0.5	2	0.01	<0.5	<1	1	12	5.48				
714		2.00	<0.005	<0.2	0.71	37	<10	90	<0.5	5	0.06	<0.5	<1	3	111	8.45				
715		0.12	<0.005	<0.2	1.31	2	<10	40	0.7	<2	0.58	<0.5	17	42	27	2.81				
716		1.20	0.020	0.5	0.19	52	<10	30	<0.5	<2	0.01	<0.5	<1	3	6	1.15				
717		1.22	<0.005	<0.2	0.18	41	<10	250	<0.5	<2	0.02	<0.5	<1	18	11	1.02				
718		1.78	<0.005	<0.2	2.86	137	<10	100	0.9	<2	0.34	<0.5	15	6	41	3.89				
719		1.72	<0.005	<0.2	0.53	46	<10	60	<0.5	<2	0.01	<0.5	1	<1	15	2.48				
720		1.50	<0.005	<0.2	0.37	52	<10	280	0.7	11	0.03	<0.5	1	<1	7	1.87				
721		1.74	0.007	0.2	0.27	12	<10	450	<0.5	3	0.01	<0.5	<1	2	11	1.13				
722		0.11	0.078	<0.2	1.32	<2	<10	40	0.6	<2	0.52	<0.5	17	43	22	2.88				
723		1.45	<0.005	<0.2	0.38	72	<10	200	<0.5	3	0.01	<0.5	<1	<1	37	6.00				
724		1.15	<0.005	<0.2	0.43	16	<10	50	<0.5	<2	0.01	<0.5	<1	1	13	2.28				
725		1.28	<0.005	<0.2	0.56	21	<10	50	<0.5	<2	0.01	<0.5	<1	1	17	7.21				
726		1.14	<0.005	<0.2	0.85	27	<10	90	0.5	<2	0.07	<0.5	4	2	38	5.28				
727		1.81	<0.005	<0.2	0.49	50	<10	130	<0.5	<2	0.08	<0.5	<1	<1	3	0.59				
728		1.73	<0.005	<0.2	0.40	102	<10	90	<0.5	<2	0.02	<0.5	<1	2	176	9.80				
729		1.53	<0.005	0.2	0.41	19	<10	70	<0.5	<2	0.03	<0.5	<1	1	16	1.59				
730		1.77	<0.005	<0.2	0.45	37	<10	80	<0.5	<2	0.01	<0.5	<1	<1	18	2.24				
731		1.30	<0.005	<0.2	0.64	110	<10	50	<0.5	2	0.01	<0.5	<1	7	76	7.10				
732		1.16	<0.005	<0.2	0.30	67	<10	100	<0.5	3	0.01	<0.5	<1	1	21	3.35				
733		1.64	<0.005	<0.2	0.33	43	<10	120	<0.5	2	0.01	<0.5	<1	1	43	7.20				
734		1.66	<0.005	0.2	1.02	91	<10	20	<0.5	5	0.25	<0.5	10	<1	154	2.77				
654		2.06	<0.005	<0.2	0.82	112	<10	30	1.1	<2	1.98	<0.5	19	<1	66	5.69				

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Project: VICUÑA TAYRONA

CERTIFICATE OF ANALYSIS LI13100705

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ca ppm	Hg ppm	K %	Mg ppm	Mn %	Mo ppm	Ni %	P ppm	Se ppm	Ti ppm	V ppm	W ppm	Xe ppm	Y ppm	Zr ppm	As ppm	B %	Be ppm	Bi ppm
696		<10	<1	0.15	10	0.03	18	<1	0.01	<1	30	10	0.01	<2	1	4				
697		<10	<1	0.19	20	0.27	64	39	0.02	1	240	15	0.01	<2	3	37				
698		<10	<1	0.29	10	1.32	375	1	0.48	71	390	5	0.01	<2	1	169				
699		<10	<1	0.28	10	0.22	60	1	0.01	1	440	19	0.01	<2	4	19				
700		<10	<1	0.10	10	0.02	23	<1	0.03	<1	20	3	<0.01	2	2	3				
701		<10	<1	0.12	10	0.03	44	1	0.03	<1	20	7	0.05	<2	2	2				
702		<10	<1	0.14	10	0.06	27	4	0.03	<1	50	3	<0.01	<2	2	23				
703		<10	<1	0.16	10	0.01	53	13	<0.01	<1	250	93	0.02	3	1	6				
704		10	36	0.05	10	0.02	205	3	<0.01	<1	120	>10000	0.06	184	1	9				
705		10	2	0.17	10	0.18	645	13	0.01	2	490	2500	0.16	31	3	9				
706		10	<1	0.15	20	0.38	837	<1	0.01	2	730	924	0.02	<2	4	13				
707		10	1	0.19	20	0.36	786	<1	0.01	2	800	4650	0.03	4	3	4				
708		<10	1	0.14	20	0.23	1015	3	<0.01	3	330	782	0.01	6	2	5				
709		10	1	0.13	10	0.41	1800	1	<0.01	3	440	1075	0.01	2	3	5				
710		10	151	0.13	10	0.06	781	5	0.01	1	970	>10000	0.04	76	2	7				
711		<10	1	0.25	20	0.04	148	<1	0.01	1	350	1175	0.07	9	2	17				
712		<10	<1	0.10	10	0.12	6	1	0.05	<1	4340	39	0.01	<2	3	22				
713		<10	<1	0.19	<10	<0.01	56	11	0.01	<1	1000	10	0.01	<2	2	36				
714		<10	<1	0.19	<10	0.05	17	8	0.02	<1	590	14	0.07	3	5	11				
715		<10	<1	0.30	10	1.34	358	1	0.49	71	860	10	0.01	<2	1	148				
716		<10	<1	0.08	<10	<0.01	22	22	0.01	<1	40	8	0.01	2	1	2				
717		<10	1	0.07	<10	0.01	26	7	0.01	<1	40	16	0.02	4	1	5				
718		10	<1	0.84	10	1.70	914	49	0.02	8	590	23	3.68	2	7	15				
719		<10	<1	0.19	10	0.03	20	3	0.01	<1	200	5	0.37	5	2	3				
720		<10	<1	0.10	<10	0.01	116	4	0.01	<1	590	108	0.02	18	2	135				
721		<10	<1	0.07	<10	0.01	27	4	0.03	<1	120	35	0.25	2	2	52				
722		<10	<1	0.29	10	1.29	368	1	0.48	69	390	5	0.01	<2	2	169	</			



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Project: VICUÑA TAYRONA

CERTIFICATE OF ANALYSIS LI13100705

Sample Description	Method Analyte Units LOR	ME-ICP1	ME-ICP1	ME-ICP1	ME-ICP1	ME-ICP1	ME-ICP1	ME-ICP1	Ag-AA46	Pb-AA46
		Th ppm 20	Tl % 0.01	Tl ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 2	Ag ppm 1	Pb % 0.001
696		<20	<0.01	<10	<10	1	<10	9		
697		<20	<0.01	<10	<10	21	<10	39		
698		<20	0.34	<10	<10	44	<10	38		
699		<20	<0.01	<10	<10	40	<10	17		
700		<20	<0.01	<10	<10	1	<10	27		
701		<20	<0.01	<10	<10	1	<10	4		
702		<20	<0.01	<10	<10	1	<10	5		
703		<20	<0.01	<10	<10	3	<10	7		
704		<20	<0.01	<10	80	6	<10	364	624	>30.0
705		<20	<0.01	<10	<10	31	<10	740		
706		<20	0.01	<10	<10	44	<10	643		
707		<20	<0.01	<10	<10	33	<10	824		
708		<20	<0.01	<10	<10	15	<10	315		
709		<20	<0.01	<10	<10	22	<10	1105		
710		<20	<0.01	<10	20	17	<10	3040	292	1.000
711		<20	<0.01	<10	<10	10	<10	628		
712		<20	<0.01	<10	<10	28	<10	51		
713		<20	<0.01	<10	<10	18	<10	11		
714		<20	<0.01	<10	<10	38	<10	4		
715		<20	0.35	<10	<10	45	<10	37		
716		<20	<0.01	<10	<10	2	<10	2		
717		<20	<0.01	<10	<10	1	<10	6		
718		<20	0.02	<10	<10	60	<10	48		
719		<20	<0.01	<10	<10	4	<10	18		
720		<20	<0.01	<10	<10	6	<10	16		
721		<20	<0.01	<10	<10	3	<10	3		
722		<20	0.34	<10	<10	44	<10	37		
723		<20	<0.01	<10	<10	21	<10	3		
724		<20	<0.01	<10	<10	6	<10	3		
725		<20	<0.01	<10	<10	38	<10	3		
726		<20	<0.01	<10	<10	37	<10	6		
727		<20	<0.01	<10	<10	3	<10	10		
728		<20	<0.01	<10	<10	56	<10	3		
729		<20	<0.01	<10	<10	4	<10	2		
730		<20	<0.01	<10	<10	4	<10	2		
731		<20	<0.01	<10	<10	48	<10	3		
732		<20	<0.01	<10	<10	22	<10	6		
733		<20	<0.01	<10	<10	19	<10	6		
734		<20	<0.01	<10	<10	18	<10	42		
654		<20	<0.01	<10	<10	24	<10	37		

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CERTIFICATE OF ANALYSIS LI13100705

Sample Description	Method Analyte Units LOR	WB-21	As-AA23	ME-ICP1	ME-ICP1	ME-ICP1	ME-ICP1	ME-ICP1	ME-ICP1	ME-ICP1	ME-ICP1	ME-ICP1	ME-ICP1	ME-ICP1	ME-ICP1	ME-ICP1	ME-ICP1
		Reclvd Wt. kg 0.02	As ppm 0.005	Ag ppm 0.2	Al % 0.01	As ppm 2	Be ppm 10	Ba ppm 10	Bi ppm 0.5	B ppm 2	Ca % 0.01	Cd ppm 0.5	Ce ppm 1	Cl ppm 1	Cu ppm 1	Fe % 0.01	
655		1.32	<0.005	<0.2	3.12	142	<10	30	0.8	<2	1.01	<0.5	74	10	89	4.48	

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CERTIFICATE OF ANALYSIS LI13100705

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41
		Ca ppm	Hg ppm	K %	Li ppm	Mg %	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Se ppm	Sc ppm	3r ppm
655		10	<1	0.06	10	1.37	4160	3	0.02	40	580	10	0.04	4	8	68

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CERTIFICATE OF ANALYSIS LI13100705

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Ag-AA46	Pb-AA46
		Th ppm	Ti %	Tl ppm	U ppm	V ppm	W ppm	Zn ppm	Ag ppm	Pb %
655		<20	0.04	<10	<10	68	<10	53	1	0.001

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CERTIFICATE OF ANALYSIS LI13100705

CERTIFICATE COMMENTS													
Applies to Method:	<p>LABORATORY ADDRESSES</p> <p>Processed at ALS Lima located at Calle 1 LT- 1A Mz- D, esq. Calle A, Urb. Industrial Bocanegra Callao 01, Lima, Peru.</p> <table><tr><td>Ag- AA46</td><td>Au- AA23</td><td>CRU- 31</td><td>CRU- QC</td></tr><tr><td>LOG- 22</td><td>LOG- 24</td><td>ME- ICP41</td><td>Pb- AA46</td></tr><tr><td>PUL- 31</td><td>PUL- QC</td><td>SPL- 21</td><td>WEI- 21</td></tr></table>	Ag- AA46	Au- AA23	CRU- 31	CRU- QC	LOG- 22	LOG- 24	ME- ICP41	Pb- AA46	PUL- 31	PUL- QC	SPL- 21	WEI- 21
Ag- AA46	Au- AA23	CRU- 31	CRU- QC										
LOG- 22	LOG- 24	ME- ICP41	Pb- AA46										
PUL- 31	PUL- QC	SPL- 21	WEI- 21										



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 This copy reported on 19- MAR- 2013
 Account: MINASAC

CERTIFICATE LI13046557

Project: VICUÑA
 P.O. No.:
 This report is for 41 Rock samples submitted to our lab in Lima, Peru on 11- MAR- 2013.
 The following have access to data associated with this certificate:
 MIGUEL BARRIONUEVO JULIO VELANDIA

ALS CODE	DESCRIPTION
WEI-21	Received Sample Weight
LOG-22	Sample Login - Rcd w/o BarCode
CRU- QC	Crushing QC Test
PUL- QC	Pulverizing QC Test
CRU- 31	Fine crushing - 70% <2mm
SPL- 21	Split sample - riffle splitter
PUL- 31	Pulverize split to 85% < 75 um
LOG- 24	Pulp Login - Rcd w/o BarCode

ALS CODE	DESCRIPTION	INSTRUMENT
ME- ICP41	35 Element Aqua Regia ICP- AES	ICP- AES
Cu- AA46	Ore grade Cu - aqua regia/AA	AAS
Au- AA23	Au 30g FA- AA finish	AAS

To: MINERA APOGEO S.A.
 ATTN: MIGUEL BARRIONUEVO
 CALLE LAS ORQUÍDEAS NO 2750 DPTO. 601 - LINCEN
 LINCEN LIMA 14

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:

Rene Mamani, Laboratory Manager, Peru



ALS Peru S.A.
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Project: VICUÑA

CERTIFICATE OF ANALYSIS LI13046557

Sample Description	Method Analyte Units LOR	WB-21 Recvd Wt. kg	Au- AA23 Au ppm	ME- ICP41 Ag ppm	ME- ICP41 Al ppm	ME- ICP41 As ppm	ME- ICP41 B ppm	ME- ICP41 Ba ppm	ME- ICP41 Be ppm	ME- ICP41 Bi ppm	ME- ICP41 Ca ppm	ME- ICP41 Cd ppm	ME- ICP41 Co ppm	ME- ICP41 Cr ppm	ME- ICP41 Cu ppm	ME- ICP41 Fe ppm	ME- ICP41 Ni ppm	ME- ICP41 Pb ppm	ME- ICP41 Zn ppm
313		1.54	<0.005	<0.2	4.82	35	10	40	0.8	<2	3.47	<0.5	7	2	18	1.44			
314		1.84	0.007	<0.2	1.05	21	10	40	<0.5	4	0.19	<0.5	4	1	24	3.98			
315		1.26	0.005	<0.2	1.80	180	10	80	<0.5	<2	0.41	<0.5	4	2	13	4.47			
316		1.68	0.057	0.4	2.55	275	10	30	0.7	<2	1.43	0.5	12	<1	538	4.17			
317		2.02	0.580	59.8	7.78	44	10	10	0.8	<2	5.13	<0.5	11	5	>10000	3.17			
318		0.05	0.008	<0.2	1.27	<2	10	40	0.7	<2	0.55	<0.5	17	41	72	2.51			
319		1.78	<0.005	0.2	1.90	252	<10	30	0.8	<2	0.49	0.5	16	1	85	5.81			
320		1.70	0.281	85.1	3.28	23	10	10	<0.5	<2	10.9	1.0	7	3	>10000	2.23			
321		1.44	0.002	31.9	4.86	13	10	<10	0.5	<2	3.42	2.4	9	2	>10000	3.20			
322		1.33	0.009	4.5	2.56	15	10	<10	<0.5	<2	24.8	1.0	3	1	6490	0.91			
323		1.78	0.276	41.5	4.81	22	10	10	0.5	<2	3.19	0.8	12	5	>10000	2.98			
324		1.92	0.377	46.9	5.73	24	10	<10	0.5	<2	3.56	<0.5	15	6	>10000	3.47			
325		2.02	0.407	26.4	4.64	16	10	20	0.5	<2	4.29	0.7	14	3	>10000	3.41			
326		1.44	0.761	43.8	3.68	22	<10	10	0.5	<2	5.88	0.5	6	2	>10000	1.46			
327		1.48	0.044	0.3	3.48	27	10	20	0.6	<2	2.87	<0.5	5	2	205	1.50			
328		1.75	<0.005	<0.2	0.53	301	10	<10	<0.5	<2	>25.0	<0.5	1	<1	116	0.11			
329		2.19	0.006	<0.2	0.84	20	10	80	<0.5	6	0.15	<0.5	1	2	74	3.71			
330		0.06	0.080	<0.2	1.32	2	10	40	0.7	<2	0.52	<0.5	17	44	30	2.68			
331		1.82	<0.005	0.3	0.28	28	10	570	<0.5	<2	0.06	<0.5	2	1	88	4.28			
332		1.78	<0.005	<0.2	3.02	8	10	270	0.7	<2	1.78	<0.5	12	1	35	3.50			
333		1.06	<0.005	<0.2	0.37	2	10	40	<0.5	<2	0.13	<0.5	1	1	16	0.54			
334		1.78	<0.005	<0.2	0.27	15	10	70	<0.5	2	0.06	<0.5	1	1	12	0.40			
335		1.77	0.005	<0.2	0.33	5	10	40	<0.5	<2	0.04	<0.5	2	2	11	0.34			
336		2.09	0.007	<0.2	0.38	15	10	70	<0.5	<2	0.05	<0.5	1	1	11	0.54			
337		1.38	<0.005	<0.2	0.45	18	10	40	<0.5	<2	0.13	<0.5	1	1	6	0.42			
338		1.80	<0.005	0.2	0.46	38	10	120	<0.5	<2	0.02	<0.5	3	1	16	2.47			
339		1.68	<0.005	<0.2	3.31	23	<10	110	<0.5	<2	0.16	<0.5	6	7	36	3.47			
340		1.34	<0.005	0.3	0.64	43	10	590	<0.5	2	0.02	<0.5	1	1	19	4.29			
341		1.57	0.018	<0.2	2.06	201	20	100	<0.5	8	0.42	<0.5	31	4	49	13.80			
342		1.89	0.012	<0.2	0.40	50	10	40	<0.5	3	0.04	<0.5	9	3	81	3.25			
343		1.44	0.005	<0.2	1.44	148	10	30	<0.5	2	0.04	<0.5	3	1	18	2.88			
344		1.72	0.005	<0.2	0.68	215	10	40	<0.5	<2	0.17	<0.5	13	3	18	4.33			
345		2.30	<0.005	<0.2	2.88	47	10	30	0.5	<2	1.24	<0.5	17	2	30	5.23			
346		1.50	0.005	0.2	1.15	33	10	20	<0.5	<2	0.03	<0.5	10	5	23	2.65			
347		1.41	<0.005	<0.2	2.88	8	10	20	<0.5	2	0.02	<0.5	6	7	15	1.67			
348		1.98	<0.005	<0.2	0.88	50	10	30	<0.5	<2	0.03	<0.5	11	2	37	3.98			
349		1.64	0.005	<0.2	3.02	72	10	30	<0.5	5	0.07	<0.5	18	3	27	5.82			
350		2.29	<0.005	<0.2	0.36	5	10	40	<0.5	<2	0.12	<0.5	2	3	23	1.58			
351		2.12	0.008	<0.2	0.50	568	10	40	<0.5	<2	0.07	<0.5	2	4	13	4.23			
352		2.81	<0.005	<0.2	1.93	54	10	20	<0.5	<2	0.83	<0.5	21	4	54	4.65			



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Project: VICUNA

CERTIFICATE OF ANALYSIS L113046557

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	
		Ca ppm	Hg ppm	K %	La ppm	Mg ppm	Mn ppm	Mo ppm	Na %	Ni ppm	P ppm	Pb ppm	S %	Sb ppm	Sc ppm	Se ppm	Si ppm	Sr ppm	Th ppm
313		10	<1	0.23	30	0.20	368	<1	0.05	2	480	12	<0.01	3	2	214			
314		10	<1	0.28	20	0.14	162	11	0.03	<1	870	8	0.05	<2	1	50			
315		10	<1	0.19	10	0.50	238	1	0.05	1	1050	9	0.08	7	5	325			
316		10	1	0.28	20	0.75	460	<1	0.04	2	980	33	0.01	5	4	127			
317		30	5	0.14	20	0.53	441	<1	0.12	5	950	11	1.29	<2	1	37			
318		10	<1	0.31	10	1.26	344	1	0.42	66	850	11	0.02	<2	1	131			
319		10	<1	0.20	10	0.94	1530	<1	0.04	4	1360	154	0.02	3	3	15			
320		10	<1	0.09	10	0.31	449	<1	0.03	3	430	12	0.45	<2	3	46			
321		20	<1	0.11	10	0.41	277	<1	0.05	4	580	11	0.39	<2	5	22			
322		10	<1	0.05	10	0.12	341	<1	0.04	1	200	11	0.36	<2	1	27			
323		20	<1	0.18	10	0.55	419	<1	0.07	8	970	13	1.00	<2	6	28			
324		20	<1	0.16	10	0.63	442	<1	0.09	9	960	17	0.97	<2	7	16			
325		20	<1	0.15	20	0.62	574	<1	0.09	5	850	8	0.39	<2	7	59			
326		10	1	0.12	10	0.36	407	<1	0.05	3	430	17	0.32	<2	3	42			
327		10	<1	0.13	20	0.38	460	<1	0.04	2	420	8	0.01	<2	1	37			
328		<10	<1	<0.01	10	0.03	532	<1	0.02	<1	30	<2	0.04	<2	<1	43			
329		10	<1	0.11	10	0.01	27	4	0.01	<1	180	2	0.22	<2	2	128			
330		10	<1	0.19	10	0.01	124	359	1	0.44	66	890	5	0.01	<2	1	154		
331		<10	1	0.09	10	0.03	12	5	0.01	<1	620	10	0.44	<2	1	26			
332		10	<1	0.17	20	1.46	910	<1	0.14	1	1070	8	0.01	<2	11	435			
333		<10	<1	0.19	20	0.04	41	<1	0.01	<1	30	7	0.39	<2	<1	8			
334		<10	<1	0.22	20	0.01	21	<1	0.01	<1	30	5	0.20	<2	<1	6			
335		10	<1	0.19	10	0.01	13	1	0.01	<1	20	2	0.13	<2	<1	4			
336		<10	<1	0.21	20	0.02	19	2	0.01	2	40	9	0.01	<2	<1	5			
337		<10	<1	0.16	20	0.04	39	<1	0.03	1	50	5	0.01	<2	<1	11			
338		<10	<1	0.19	30	0.03	18	3	0.03	1	350	8	1.18	<2	1	9			
339		10	<1	0.04	20	1.57	390	1	0.01	2	800	3	0.02	<2	7	30			
340		10	<1	0.31	10	0.05	14	2	0.03	<1	220	2	0.33	<2	1	23			
341		10	<1	0.68	10	0.71	48	57	0.03	5	680	13	>10.00	<2	5	9			
342		10	<1	0.20	10	0.06	38	103	0.01	5	70	18	3.18	<2	1	7			
343		10	<1	0.15	10	0.68	152	4	0.01	<1	860	4	0.94	<2	3	8			
344		<10	<1	0.22	20	0.16	37	6	0.01	11	940	6	4.53	<2	2	6			
345		10	<1	0.05	10	1.57	885	8	0.07	6	1160	3	0.86	<2	9	42			
346		10	<1	0.21	10	0.66	207	5	0.01	9	190	21	2.54	2	2	3			
347		10	<1	0.13	10	1.75	142	3	0.01	5	480	12	1.00	<2	3	5			
348		<10	<1	0.19	10	0.47	118	4	0.01	6	160	6	3.67	4	1	2			
349		10	<1	0.05	10	1.74	119	<1	0.01	7	730	6	6.20	<2	5	10			
350		<10	<1	0.09	10	0.04	49	1	0.01	<1	260	2	0.22	<2	<1	14			
351		<10	<1	0.19	10	0.03	57	5	0.01	4	1030	11	0.13	<2	1	12			
352		10	<1	0.09	10	1.02	432	<1	0.03	14	680	7	4.40	<2	7	46			



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CERTIFICATE OF ANALYSIS L113046557

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu-AA46
		Th ppm	Ti %	Ti ppm	U ppm	V ppm	W ppm	Zn ppm	Cu %
313		<20	0.08	<10	<10	35	<10	40	
314		<20	0.01	<10	<10	17	<10	11	
315		<20	0.20	<10	<10	54	<10	35	
316		<20	0.19	<10	<10	32	<10	117	
317		<20	0.20	<10	10	230	<10	55	8.896
318		<20	0.34	<10	10	44	<10	35	
319		<20	0.01	<10	<10	53	<10	238	
320		<20	0.09	<10	<10	112	<10	31	3.541
321		<20	0.13	<10	10	162	<10	32	1.447
322		<20	0.05	<10	<10	58	<10	25	
323		<20	0.08	<10	10	197	<10	46	7.119
324		<20	0.10	<10	<10	222	<10	55	6.661
325		<20	0.24	<10	<10	373	<10	53	4.037
326		<20	0.12	<10	<10	73	<10	31	2.966
327		<20	0.02	<10	<10	46	<10	36	
328		<20	<0.01	<10	<10	6	<10	2	
329		<20	0.01	<10	<10	32	<10	4	
330		<20	0.34	<10	<10	43	<10	37	
331		<20	0.01	<10	10	12	<10	8	
332		<20	0.09	<10	<10	91	<10	72	
333		<20	<0.01	<10	<10	1	<10	11	
334		<20	<0.01	<10	<10	<1	<10	4	
335		<20	<0.01	<10	<10	1	<10	3	
336		20	<0.01	<10	<10	1	<10	22	
337		<20	<0.01	<10	<10	<1	<10	12	
338		<20	0.01	<10	<10	6	<10	9	
340		<20	0.01	<10	<10	5	<10	9	
341		<20	0.01	<10	<10	58	<10	11	
342		<20	0.01	<10	<10	12	<10	14	
343		<20	<0.01	<10	<10	33	<10	22	
344		<20	<0.01	<10	<10	11	<10	12	
345		<20	0.14	<10	<10	109	<10	55	
346		<20	0.05	<10	<10	17	<10	28	
347		<20	<0.01	<10	<10	26	<10	21	
348		<20	0.03	<10	<10	13	<10	21	
349		<20	0.01	<10	<10	67	<10	14	
350		<20	<0.01	<10	<10	4	<10	9	
351		<20	<0.01	<10	<10	27	<10	13	
352		<20	0.08	<10	<10	90	<10	55	



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CERTIFICATE OF ANALYSIS LI13046557

Sample Description	Method Analyte Units LOR	WB- 21	Au- AA23	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41
		Recvd Wt:	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	
		kg	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	
353		1.82	<0.005	<0.2	1.98	20	10	80	<0.5	<2	4.92	<0.5	31	10	50	5.24	



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CERTIFICATE OF ANALYSIS LI13046557

Sample Description	Method Analyte Units LOR	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	ME- ICP41	
		Ca	Hg	K	La	Mg	Mn	Mo	Ni	P	Pb	S	Sb	Sc	Sr	
		ppm	ppm	%	ppm	%	ppm	ppm	%	ppm	ppm	%	ppm	ppm	ppm	
353		10	<1	0.08	20	1.25	1140	1	0.02	23	890	10	4.82	<2	7	114



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CERTIFICATE OF ANALYSIS LI13046557

Sample Description	Method Analyte Units LOR	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	ME-ICP41	Cu AA46
		Th ppm 20	Ti % 0.01	Ti ppm 10	U ppm 10	V ppm 1	W ppm 10	Zn ppm 2	Cu %
353		<20	<0.01	<10	<10	50	<10	53	



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CERTIFICATE LI13019321	
Project: VICUÑA P.O. No.: 2 This report is for 24 Rock samples submitted to our lab in Lima, Peru on 29-JAN-2013. The following have access to data associated with this certificate: MIGUEL BARRIONUEVO JULIO VELANDIA	

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

ANALYTICAL PROCEDURES		
ALS CODE	DESCRIPTION	INSTRUMENT
Cu-OC62	Ore Grade Cu - Four Acid	VARIABLE
Fe-OC62	Ore Grade Elements - Four Acid	ICP-AES
Au-AA23	Au 30g FA-AA finish	AAS

To: **MINERA APOGEO S.A.C.**
ATTN: MIGUEL BARRIONUEVO
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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: 
 Rene Mamani, Laboratory Manager, Peru



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CERTIFICATE OF ANALYSIS LI13019321	

Sample Description	Method Analyte Units LOR	WB-21	Au-AA23	Cu-OC62
		Revd wt. kg	Au ppm	Cu %
A-479		1.41	<0.005	0.002
A-480		1.11	<0.005	0.004
A-481		1.13	<0.005	0.011
A-482		1.25	<0.005	0.001
A-483		1.40	<0.005	0.004
A-484		1.54	<0.005	0.003
A-485		1.92	<0.005	0.002
A-486		1.43	<0.005	0.002
A-487		1.13	<0.005	0.005
A-488		1.39	<0.005	0.003
A-489		1.15	<0.005	0.002
A-490		1.34	<0.005	0.005
A-491		1.59	<0.005	0.017
A-492		1.70	<0.005	0.003
A-493		2.49	<0.005	0.001
A-494		2.28	<0.005	0.027
A-495		2.65	<0.005	0.004
A-496		4.91	<0.005	0.004
A-497		2.19	<0.005	0.004
A-498		3.57	<0.005	0.015
A-499		1.89	0.232	6.99
A-500		1.19	0.085	1.480
A-501		2.20	<0.005	0.009
A-502		1.96	<0.005	0.004

COORDENADAS DE MUESTREO PROSPECTO VICUÑA-AYACUCHO


Sample_Id	Sample Type	Sample_SubType	QC_Ref	Dup Sample	Geologist	WIDTH	Project	Easting	Northing	Elevation	Datum
354	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	531337	8428113	4183	WGS 84
355	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	531174	8428095	4175	WGS 84
356	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	530884	8428137	4179	WGS 84
357	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	530883	8428033	4179	WGS 84
358	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	530824	8428008	4187	WGS 84
359	RO	DUPLICATED	DUPLICATED	358		2	TAYRONA				
360	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	529586	8428007	4159	WGS 84
361	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	529212	8428199	4166	WGS 84
362	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	528688	8428341	4182	WGS 84
363	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	528341	8428257	4039	WGS 84
364		CHIP ROCK			DMO&ECP	2	TAYRONA	528051	8428271	4079	WGS 84
365	RO	BLANK	BLANK			2	TAYRONA				
366	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	527447	8427381	3994	WGS 84
367	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	527376	8427340	3994	WGS 84
368	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	527379	8427343	3996	WGS 84
369	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	527378	8427341	3995	WGS 84
370		CHIP ROCK			DMO&ECP	2	TAYRONA	527389	8427339	3989	WGS 84
371	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	527389	8427334	3987	WGS 84
372	RO	STANDARD	STANDARD			2	TAYRONA				
373	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	528244	8427196	4131	WGS 84
374		CHIP ROCK			DMO&ECP	2	TAYRONA	528458	8427060	4207	WGS 84
375	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	529130	8427323	4143	WGS 84
376	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	529140	8427290	4137	WGS 84
377	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	529166	8427270	4140	WGS 84
378	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	531625	8427989	4154	WGS 84
379	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	531861	8427522	4142	WGS 84
380	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	531852	8427267	4136	WGS 84
381	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	531862	8427218	4133	WGS 84
382	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	531954	8426721	4126	WGS 84
383	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	531848	8426488	4075	WGS 84
384	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	531698	8426150	4036	WGS 84
385		DUPLICATED	DUPLICATED	384		2					
386	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	531086	8425767	4021	WGS 84
387	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	531088	8425770	4022	WGS 84
388	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	531097	8425767	4020	WGS 84
389	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	531067	8425883	4046	WGS 84
390	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	531067	8425889	4052	WGS 84
391		BLANK	BLANK			2					
392	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	531049	8425913	4057	WGS 84
393	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	531048	8425929	4063	WGS 84
394	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	531047	8425948	4071	WGS 84
395	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	531338	8425850	4039	WGS 84
396	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	530927	8427801	4208	WGS 84
397	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	530764	8427635	4253	WGS 84
398		STANDART	STANDART			2					
399	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	530748	8427626	4250	WGS 84
400	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	530758	8426758	4231	WGS 84
401	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	530791	8426748	4243	WGS 84
402	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	530903	8426337	4199	WGS 84
403	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	530905	8426337	4198	WGS 84
404	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	530827	8426050	4111	WGS 84
405	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	530818	8426086	4106	WGS 84
406	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	530577	8426065	4088	WGS 84
407	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	530497	8426086	4088	WGS 84
408	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	530488	8426070	4078	WGS 84
409	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	530393	8426124	4100	WGS 84
410	RO	DUPLICATED	DUPLICATED	409		2					
411	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	530394	8426032	4094	WGS 84
412	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	530394	8426004	4101	WGS 84
413	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	530401	8425980	4100	WGS 84
414	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	530407	8425967	4092	WGS 84
415	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	530423	8425941	4090	WGS 84
416	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	530429	8425983	4089	WGS 84
417		BLANK	BLANK			2					
418	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	529975	8426315	4165	WGS 84
419	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	529853	8426329	4176	WGS 84
420	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	529839	8426320	4180	WGS 84
421	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	529808	8426297	4184	WGS 84
422	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	529794	8426286	4187	WGS 84
423		STANDART	STANDART			2					
424	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	529756	8426264	4193	WGS 84
425	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	529751	8426261	4195	WGS 84
426	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	529746	8426249	4196	WGS 84
427	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	529748	8426210	4202	WGS 84
428	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	529768	8426181	4205	WGS 84
429	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	529769	8426206	4202	WGS 84
430	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	529711	8426218	4196	WGS 84
431	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	529730	8426264	4192	WGS 84
432	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	529874	8426143	4180	WGS 84
433	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	529899	8426148	4179	WGS 84
434	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	531038	8428674	4152	WGS 84
435	RO	DUPLICATED	DUPLICATED	434		2					
436	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	530866	8428700	4145	WGS 84
437	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	530745	8428749	4174	WGS 84
438	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	528723	8429634	4182	WGS 84
439	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	528670	8429627	4180	WGS 84
440	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	528636	8429613	4179	WGS 84
441	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	528602	8429653	4179	WGS 84
442	RO	CHIP ROCK			DMO&ECP	2	TAYRONA	530840	8428838	4192	WGS 84
443		BLANK	BLANK			2					
444	RO	CHIP ROCK			WPC	W1	TAYRONA				WGS 84

445	RO	CHIP ROCK			WPC	W2	TAYRONA					WGS 84
446	RO	CHIP ROCK			WPC	W3	TAYRONA					WGS 84
447	RO	CHIP ROCK			WPC	W4	TAYRONA					WGS 84
448	RO	CHIP ROCK			WPC	W5	TAYRONA					
449		STANDART	STANDART									
450	RO	CHIP ROCK			WPC	W6	TAYRONA					WGS 84
601	RO	CHIP ROCK			WPC	W7	TAYRONA					WGS 84
602	RO	CHIP ROCK			WPC	W8	TAYRONA					WGS 84
603	RO	CHIP ROCK			WPC	W9	TAYRONA					WGS 84
604	RO	CHIP ROCK			WPC	W10	TAYRONA					WGS 84
605	RO	CHIP ROCK			WPC	W11	TAYRONA					WGS 84
606	RO	CHIP ROCK			WPC	W12	TAYRONA					WGS 84
607	RO	CHIP ROCK			WPC	W13	TAYRONA					WGS 84
608	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	532699	8428652	4292		WGS 84
609	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	532743	8428614	4302		WGS 84
610	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	532900	8428590	4314		WGS 84
611	RO	DUPLICATED	DUPLICATED	610		2.0						
612	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	533363	8427931	4305		WGS 84
613	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	531057	8428358	4157		WGS 84
614	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	531094	8428355	4166		WGS 84
615	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	531096	8428332	4168		WGS 84
616	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	531040	8428292	4152		WGS 84
617	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	533816	8426935	4203		WGS 84
618	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	534485	8426627	4176		WGS 84
619	RO	BLANK	BLANK			2.0						
620	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	534814	8426600	4168		WGS 84
621	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	534962	8426494	4171		WGS 84
622	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	534974	8426497	4171		WGS 84
623	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	534727	8427054	4189		WGS 84
624	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	534931	8426912	4163		WGS 84
625	RO	STANDARD	STANDARD			2.0						
626	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	535441	8425030	4271		WGS 84
627	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	535223	8425132	4248		WGS 84
628	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	535168	8425150	4243		WGS 84
629	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	535220	8425210	4239		WGS 84
630	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	535126	8425268	4230		WGS 84
631	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	535148	8425301	4232		WGS 84
632	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	535121	8425312	4235		WGS 84
633	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	535090	8425331	4230		WGS 84
634	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	535159	8425370	4226		WGS 84
635	RO	DUPLICATED	DUPLICATED	634		2.0						
636	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	535110	8425417	4218		WGS 84
637	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	535052	8425469	4206		WGS 84
638	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	535147	8425451	4219		WGS 84
639	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	535190	8425471	4206		WGS 84
640	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	535133	8425537	4213		WGS 84
641	RO	BLANK	BLANK			2.0						
642	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	535149	8425553	4206		WGS 84
643	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	535128	8425603	4206		WGS 84
644	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	535094	8425652	4203		WGS 84
645	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	535013	8425497	4200		WGS 84
646	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	535019	8425542	4198		WGS 84
647	RO	STANDARD	STANDARD			2.0						
648	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	535061	8425591	4209		WGS 84
649	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	535155	8425803	4180		WGS 84
650	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	535347	8426384	4192		WGS 84
651	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	535485	8426456	4200		WGS 84
652	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	535528	8426595	4197		WGS 84
653	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	535433	8426591	4191		WGS 84
654	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	535015	8426533	4174		WGS 84
655	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	534918	8426901	4181		WGS 84
656	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	535017	8426888	4169		WGS 84
657	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	535021	8427099	4161		WGS 84
658	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	534992	8427088	4153		WGS 84
659	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	535009	8427114	4159		WGS 84
660	RO	DUPLICATED	DUPLICATED	659		2.0						
661	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	535007	8427154	4157		WGS 84
662	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	535127	8427056	4173		WGS 84
663	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	535115	8427001	4183		WGS 84
664	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	535127	8426940	4190		WGS 84
665	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	534973	8427166	4158		WGS 84
666	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	535390	8427012	4176		WGS 84
667	RO	BLANK	BLANK			2.0						
668	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	535556	8426982	4169		WGS 84
669	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	535572	8427022	4177		WGS 84
670	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	535622	8427186	4175		WGS 84
671	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	534371	8427794	4220		WGS 84
672	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	534389	8427800	4224		WGS 84
673	RO	STANDARD	STANDARD			2.0						
674	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	534507	8427888	4222		WGS 84
675	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	534568	8427882	4216		WGS 84
676	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	534600	8427847	4216		WGS 84
677	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	534663	8427731	4211		WGS 84
678	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	534768	8428054	4200		WGS 84
679	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	534919	8427854	4175		WGS 84
680	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	534463	8429111	4190		WGS 84
681	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	534559	8429057	4188		WGS 84
682	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	534600	8429020	4180		WGS 84
683	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	534653	8428989	4171		WGS 84
684	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	530761	8428925	4212		WGS 84
685	RO	DUPLICATED	DUPLICATED	684		2.0						
686	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	530641	8428909	4231		WGS 84
687	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	530593	8429015	4229		WGS 84
688	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	530864	8429240	4198		WGS 84

689	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	529767	8429165	4302	WGS 84
690	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	529820	8425830	4132	WGS 84
691	RO	BLANK	BLANK			2.0					
692	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	529855	8425802	4121	WGS 84
693	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	533646	8428127	4260	WGS 84
694	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	533287	8428393	4303	WGS 84
695	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	532651	8429401	4302	WGS 84
696	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	532585	8429468	4294	WGS 84
697	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	532736	8429447	4293	WGS 84
698	RO	STANDARD	ESTÁNDAR			2.0					
699	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	532828	8429413	4288	WGS 84
700	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	532916	8428492	4329	WGS 84
701	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	532740	8428577	4301	WGS 84
702	RO	CHIP ROCK			DMO&ECP	2.0	TAYRONA	533091	8428240	4319	WGS 84
703	RO	CHIP ROCK			MABP	M1	TAYRONA	530211	8429290	4274	WGS 84
704	RO	CHIP ROCK			MABP	M2	TAYRONA	529830	8429233	4301	WGS 84
705	RO	CHIP ROCK			MABP	M3	TAYRONA	529855	8429229	4305	WGS 84
706	RO	CHIP ROCK			MABP	M4	TAYRONA	529866	8429221	4309	WGS 84
707	RO	CHIP ROCK			MABP	M5	TAYRONA	529888	8429180	4307	WGS 84
708	RO	CHIP ROCK			MABP	M6	TAYRONA	529878	8429154	4306	WGS 84
709	RO	DUPLICATED	DUPLICATED	708							
710	RO	CHIP ROCK			MABP	M7	TAYRONA	529835	8429163	4309	WGS 84
711	RO	CHIP ROCK			MABP	M8	TAYRONA	529818	8429073	4306	WGS 84
712	RO	CHIP ROCK			MABP	M9	TAYRONA	529773	8425969	4185	WGS 84
713	RO	CHIP ROCK			MABP	M10	TAYRONA	529762	8425783	4141	WGS 84
714	RO	CHIP ROCK			MABP	M11	TAYRONA	529781	8425747	4120	WGS 84
715	RO	BLANK	BLANK								
716	RO	CHIP ROCK			WPC	W1	TAYRONA	529950	8423908	4201	WGS 84
717	RO	CHIP ROCK			WPC	W2	TAYRONA	529531	8424076	4176	WGS 84
718	RO	CHIP ROCK			WPC	W3	TAYRONA	529426	8424638	4001	WGS 84
719	RO	CHIP ROCK			WPC	W4	TAYRONA	529538	8424710	3973	WGS 84
720	RO	CHIP ROCK			WPC	W5	TAYRONA	529127	8424856	3918	WGS 84
721	RO	CHIP ROCK			WPC	W6	TAYRONA	529310	8425024	3931	WGS 84
722	RO	STANDARD	STANDARD								
723	RO	CHIP ROCK			WPC	W7	TAYRONA	529709	8424920	3954	WGS 84
724	RO	CHIP ROCK			WPC	W8	TAYRONA	530048	8425516	4024	WGS 84
725	RO	CHIP ROCK			WPC	W9	TAYRONA	530047	8425537	4040	WGS 84
726	RO	CHIP ROCK			WPC	W10	TAYRONA	530365	8425592	3974	WGS 84
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728	RO	CHIP ROCK			MABP	MA 2	TAYRONA	531093	8424638		WGS 84
729	RO	CHIP ROCK			MABP	MA 3	TAYRONA	531022	8424667		WGS 84
730	RO	CHIP ROCK			MABP	MA 4	TAYRONA	530921	8424672		WGS 84
731	RO	CHIP ROCK			MABP	MA 5	TAYRONA	530115	8424650		WGS 84
732	RO	CHIP ROCK			MABP	MA 6	TAYRONA	530056	8424748		WGS 84
733	RO	CHIP ROCK			MABP	MA 7	TAYRONA	529930	8424785		WGS 84
734	RO	CHIP ROCK			MABP	MA 8	TAYRONA	529922	8425335		WGS 84
479	RO	CHIP ROCK			MABP	2.00	TAYRONA	542082	8436375	4012	WGS 84
480	RO	CHIP ROCK			MABP	2.00	TAYRONA	541936	8436343	4049	WGS 84
481	RO	CHIP ROCK			MABP	2.00	TAYRONA	542131	8436515	3892	WGS 84
482	RO	CHIP ROCK			MABP	2.00	TAYRONA	542181	8436559	4011	WGS 84
483	RO	CHIP ROCK			MABP	2.00	TAYRONA	542245	8436636	4004	WGS 84
484	RO	CHIP ROCK			MABP	2.00	TAYRONA	542423	8436685	4012	WGS 84
485	RO	CHIP ROCK			MABP	2.00	TAYRONA	542218	8436698	4007	WGS 84
486	RO	CHIP ROCK			MABP	2.00	TAYRONA	542058	8436684	4002	WGS 84
487	RO	CHIP ROCK			MABP	2.00	TAYRONA	541914	8436721	3990	WGS 84
488	RO	CHIP ROCK			MABP	2.00	TAYRONA	542666	8435103	3992	WGS 84
489	RO	CHIP ROCK			MABP	2.00	TAYRONA	542684	8435123	3993	WGS 84
490	RO	CHIP ROCK			MABP	2.00	TAYRONA	542710	8435169	3997	WGS 84
491	RO	CHIP ROCK			MABP	2.00	TAYRONA	542702	8435205	3999	WGS 84
492	RO	CHIP ROCK			MABP	2.00	TAYRONA	542729	8435203	3999	WGS 84
493	RO	CHIP ROCK			MABP	2.00	TAYRONA	540819	8436160	4046	WGS 84
494	RO	CHIP ROCK			MABP	2.00	TAYRONA	540788	8436160	4057	WGS 84
495	RO	CHIP ROCK			MABP	2.00	VICUDA PRI	530840	8429226	4181	PSAD56
496	RO	CHIP ROCK			MABP	2.00	VICUDA PRI	530794	8429231	4188	PSAD57
497	RO	CHIP ROCK			MABP	2.00	VICUDA PRI	530698	8429229	4203	PSAD58
498	RO	CHIP ROCK			MABP	2.00	VICUDA PRI	530558	8429074	4230	PSAD59
499	RO	CHIP ROCK			MABP	2.00	VICUDA PRI	531168	8428472	4186	PSAD60
500	RO	CHIP ROCK			MABP	2.00	VICUDA PRI	531241	8428500	4178	PSAD61
501	RO	CHIP ROCK			MABP	2.00	VICUDA PRI	530779	8428974	4206	PSAD62
502	RO	CHIP ROCK			MABP	2.00	VICUDA PRI	530627	8428960	4233	PSAD63
313	RO	CHIP ROCK			MABP	2.00	VICUDA SEC	531246	8429236	4118	WGS 84
314	RO	CHIP ROCK			MABP	2.00	VICUDA SEC	530843	8429262	4202	WGS 84
315	RO	CHIP ROCK			MABP	2.00	VICUDA SEC	530924	8429190	4175	WGS 84
316	RO	CHIP ROCK			MABP	2.00	VICUDA SEC	531019	8429145	4163	WGS 84
317	RO	CHIP ROCK			MABP	2.00	VICUDA SEC	531303	8428462	4186	WGS 84
319	RO	CHIP ROCK			MABP	2.00	VICUDA SEC	531193	8428623	4160	WGS 84
320	RO	CHIP ROCK			MABP	2.00	VICUDA SEC	531175	8428521	4174	WGS 84
321	RO	CHIP ROCK			MABP	2.00	VICUDA SEC	531188	8428502	4176	WGS 84
322	RO	CHIP ROCK			MABP	2.00	VICUDA SEC	531236	8428502	4182	WGS 84
323	RO	CHIP ROCK			MABP	2.00	VICUDA SEC	531164	8428470	4187	WGS 84
324	RO	CHIP ROCK			MABP	2.00	VICUDA SEC	531164	8428470	4187	WGS 84
325	RO	CHIP ROCK			MABP	2.00	VICUDA SEC	531153	8428474	4183	WGS 84
326	RO	CHIP ROCK			MABP	2.00	VICUDA SEC	531132	8428479	4174	WGS 84
327	RO	CHIP ROCK			MABP	2.00	VICUDA SEC	531095	8428376	4169	WGS 84
328	RO	CHIP ROCK			MABP	2.00	VICUDA SEC	531053	8428406	4158	WGS 84
329	RO	CHIP ROCK			MABP	2.00	VICUDA SEC	536358	8429016	4145	WGS 84
331	RO	CHIP ROCK			MABP	2.00	VICUDA SEC	536478	8428463	4193	WGS 84
332	RO	CHIP ROCK			MABP	2.00	VICUDA SEC	535707	8427925	4147	WGS 84
333	RO	CHIP ROCK			MABP	2.00	VICUDA SEC	535397	8425269	4205	WGS 84
334	RO	CHIP ROCK			MABP	2.00	VICUDA SEC	535212	8425253	4209	WGS 84
335	RO	CHIP ROCK			MABP	2.00	VICUDA SEC	535476	8425217	4222	WGS 84
336	RO	CHIP ROCK			MABP	2.00	VICUDA SEC	535492	8425342	4245	WGS 84
337	RO	CHIP ROCK			MABP	2.00	VICUDA SEC	535413	8425494	4242	WGS 84
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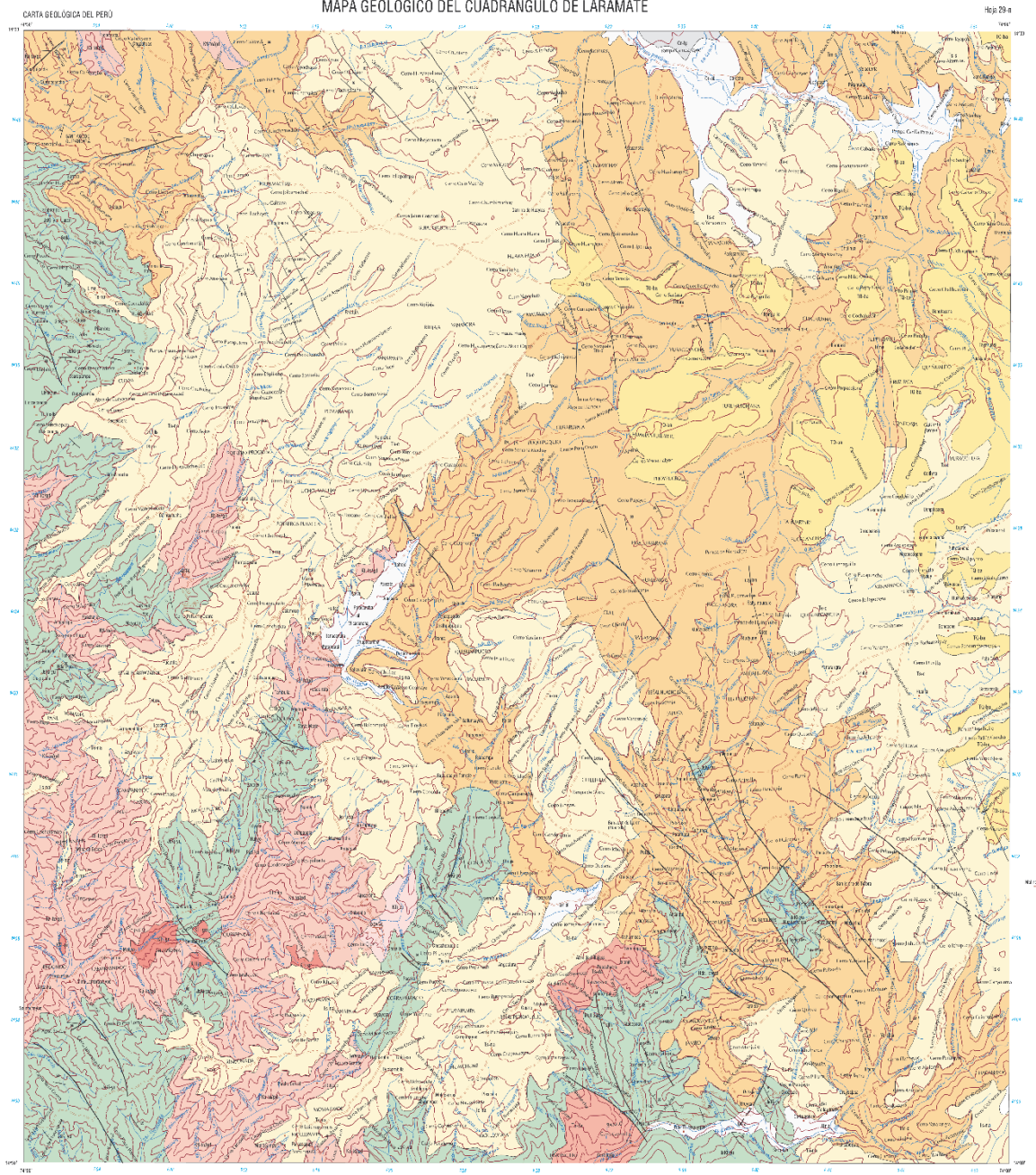
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341	RO	CHIP ROCK			MABP	2.00	VICUDA SEG	535393	8426195	4178	WGS 84
342	RO	CHIP ROCK			MABP	2.00	VICUDA SEG	535391	8426196	4178	WGS 84
343	RO	CHIP ROCK			MABP	2.00	VICUDA SEG	535611	8426987	4198	WGS 84
344	RO	CHIP ROCK			MABP	2.00	VICUDA SEG	535595	8426952	4188	WGS 84
345	RO	CHIP ROCK			MABP	2.00	VICUDA SEG	535751	8426964	4194	WGS 84
346	RO	CHIP ROCK			MABP	2.00	VICUDA SEG	535044	8427182	4163	WGS 84
347	RO	CHIP ROCK			MABP	2.00	VICUDA SEG	535039	8427179	4181	WGS 84
348	RO	CHIP ROCK			MABP	2.00	VICUDA SEG	535071	8427194	4163	WGS 84
349	RO	CHIP ROCK			MABP	2.00	VICUDA SEG	535607	8427364	4171	WGS 84
350	RO	CHIP ROCK			MABP	2.00	VICUDA SEG	535612	8427355	4175	WGS 84
351	RO	CHIP ROCK			MABP	2.00	VICUDA SEG	535367	8426392	4203	WGS 84
352	RO	CHIP ROCK			MABP	2.00	VICUDA SEG	535743	8427456	4156	WGS 84
353	RO	CHIP ROCK			MABP	2.00	VICUDA SEG	535024	8425512	4178	WGS 84

TALONARIO DE MUESTREO

		N°. 0001000/RS	
ROCK/SOIL SAMPLE			
PROJECT _____	COUNTRY _____	GPS _____	
LOCATION _____	SHEET_Name _____	Datum _____	
DEPART _____	SHEET_Num _____	Zone _____	
EAST_m _____	NORTH_m _____	Elev _____	
SAMPLE TYPE		DIMENSIONS	
ASSAY <input type="checkbox"/>	OUT CROP <input type="checkbox"/>	CHANNEL <input type="checkbox"/>	LENGTH _____
PETROGRAFY <input type="checkbox"/>	FLOAT <input type="checkbox"/>	CHIP <input type="checkbox"/>	WIDTH _____
DUPLICATE <input type="checkbox"/>	SOILT DUMP <input type="checkbox"/>	SELECT <input type="checkbox"/>	RADIO _____
		OTHER <input type="checkbox"/>	
		DATE _____ GEOLOGIST _____	
LITHOLOGY		ALTERATION	
TYPE _____	TYPE _____	MINERALIZATION	
INTENSITY _____	INTENSITY _____	INTENSITY _____	STRUCTURE _____
MIN _____	MIN _____	MIN _____	TYPE _____
	VEIN _____	VEIN _____	AZIMUTH/DIP _____
			LENGTH/WIDTH _____
DESCRIPTION _____ _____ _____			
PETROLOGY/DUPLICATE N°. 0001000/RS		N°. 0001000/RS	

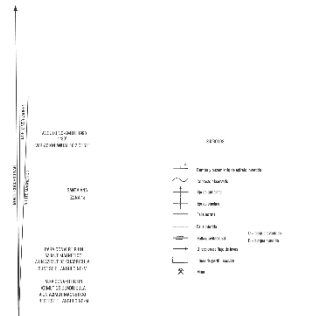
ANEXO 3

MAPA GEOLÓGICO DEL CUADRÁNGULO DE LARAMATE



MINISTERIO DE TIERRAS Y MINAS
INGEMMET

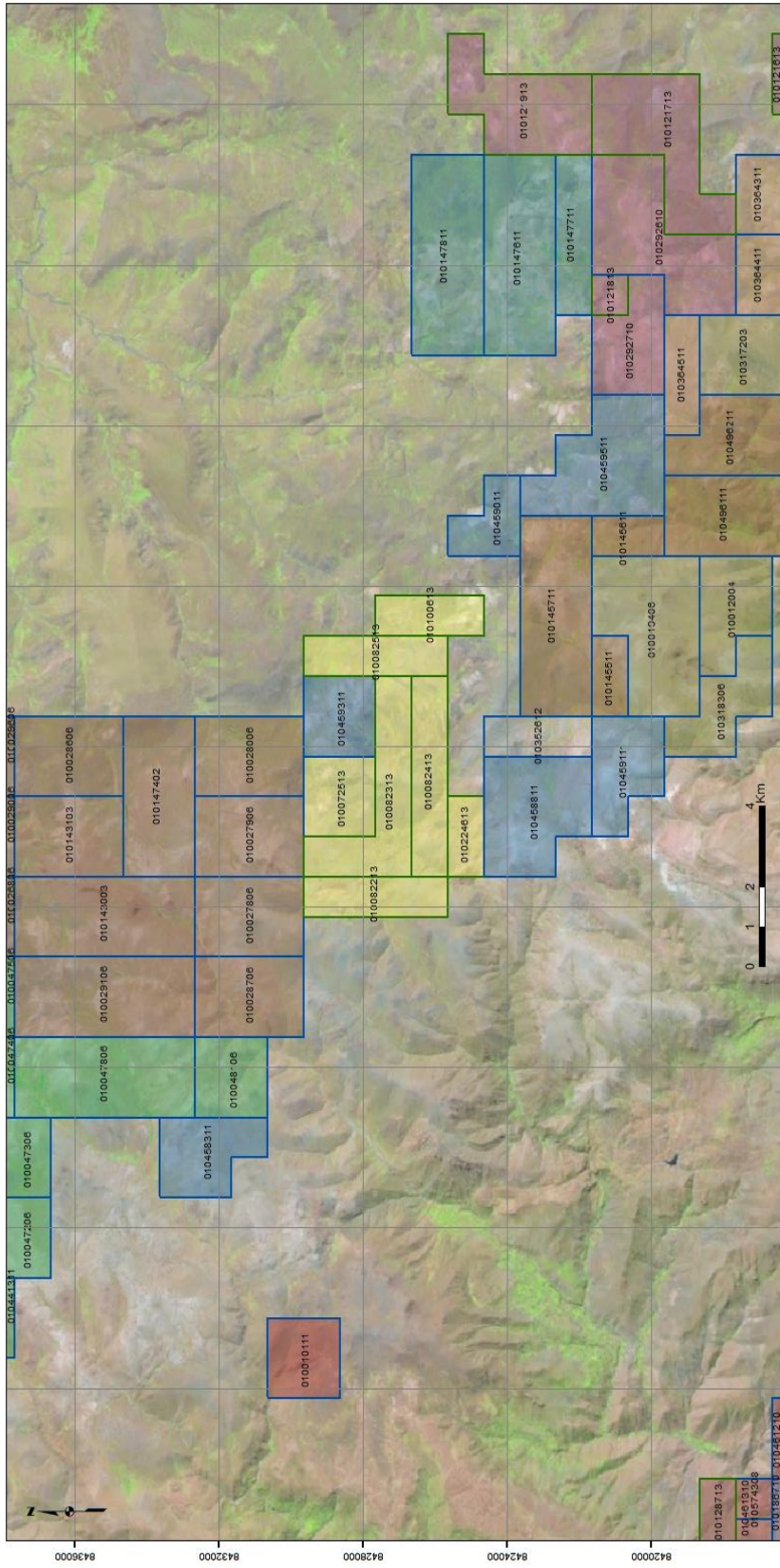
ESCALA 1:50,000
 PROYECTO DE INVESTIGACIÓN Y SERVICIO
 SISTEMA DE COORDENADAS: UTM - ZONA 18S
 DATUM: WGS 84
 UNIDAD DE LONGITUD: METRO



ERA	SISTEMA	SUB-SISTEMA	UNIDADES GEOGRÁFICAS	UNIDADES LITOLÓGICAS	USOS
CENOZOICA	CUENCA	SANTO DOMINGO	San Mateo	SM	
			San Mateo	SM	
	MORFO	SANTO DOMINGO	San Mateo	SM	
			San Mateo	SM	
MORFO	SANTO DOMINGO	San Mateo	SM		
		San Mateo	SM		
MORFO	SANTO DOMINGO	San Mateo	SM		
		San Mateo	SM		

USOS			
Carretera	Carretera	Carretera	Carretera
Rio	Rio	Rio	Rio
Camino	Camino	Camino	Camino
Parcela	Parcela	Parcela	Parcela
Parcela	Parcela	Parcela	Parcela

MAPA CATASTRAL DE PORSPECTO VICUÑA-AYACUHUO



UNIVERSIDAD NACIONAL DEL ALTIPLANO - PUNO
 FACULTAD DE INGENIERÍA GEOLOGÍA Y METALÚRGICA
 ESCUELA PROFESIONAL DE INGENIERÍA GEOLOGICA

HOJA: FIGURA N°
 A A

FECHA: JUNIO, 2015

EMB. MINERA
 ESCALA
 1:25,000

REVISOR:
 R. GONZALEZ

MAPA
 MAPA CATASTRAL
 PROSPECTO VICUÑA

PROYECCION:
 UTM SUR, UTM ZONA 18 S

PREPARADO:
 D. HERRERA

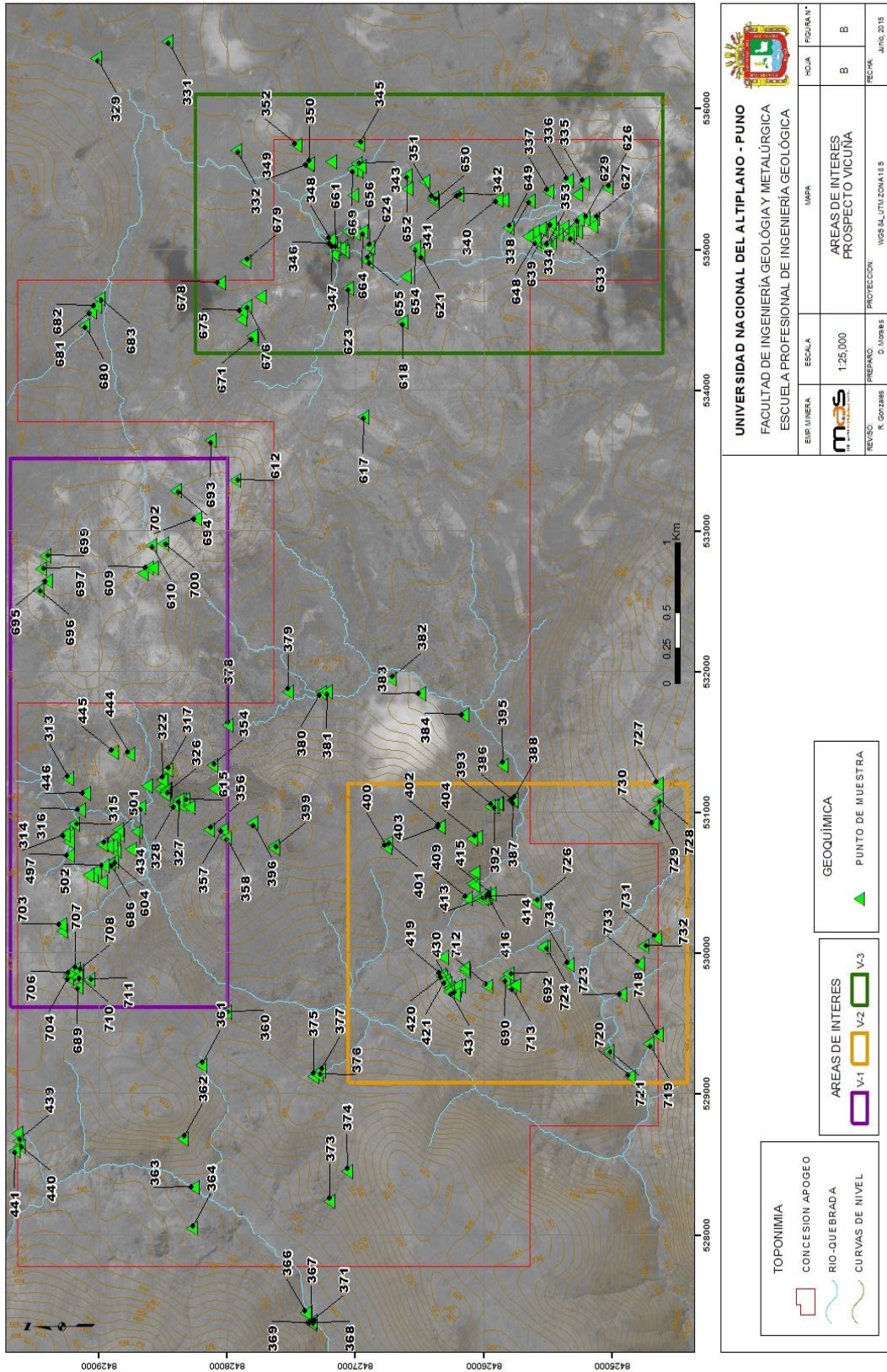
TITULAR DE CONCESION

- MINERA APOGEO S.A.C. #PUCARA RECURSOS S.A.C
- #TECK PERU S.A.
- #S.M.R.L. LYS LA ESPERANZA - MINERA DEL NORTE S.A.
- #RICARDO HARTEN COSTA #MINERA BARRICK MISQUICHILCA S.A. #ESTRELLA GOLD PERU S.A.C.
- #MINERA APOGEO S.A.C.
- #PUCARA RECURSOS S.A.C
- #MINERA ROJO S.A.C.
- #S.M.R.L. LYS LA ESPERANZA - MINERA DEL NORTE S.A.
- #MINERA BARRICK MISQUICHILCA S.A. #ESTRELLA GOLD PERU S.A.C.
- #COMPANIA MINERA AREAS S.A.C.

ESTADO DE CONCESION

- D.M. Titulado D.L. 109
- D.M. Titulado D.L. 708
- D.M. en Trámite D.L. 708
- D.M. E. Xing. Pub. L.D. Reden.
- D.M. E. Xing. a publicar de L.D.

MAPA DE AREAS DE INTERES DEL PROSPECTO VICUÑA-AYACUCHO



UNIVERSIDAD NACIONAL DEL ALTIPLANO - PUNO		HOJA		FIGURA N°
FACULTAD DE INGENIERIA GEOLOGIA Y METALURGICA		MAPA		B
ESCUELA PROFESIONAL DE INGENIERIA GEOLOGICA		AREAS DE INTERES PROSPECTO VICUÑA		B
REVISOR: R. GONZALEZ	PREPARADO: D. TORRES	ESCALA: 1:25,000	PROTECCION: WGS 84, UTM, ZONA 18 S	FECHA: JUNIO, 2018

TOPONIMIA

- CONCESION APOGEO
- RIO-QUEBRADA
- CURVAS DE NIVEL

AREAS DE INTERES

- V-1
- V-2
- V-3

GEOQUIMICA

PUNTO DE MUESTRA