



Australian Laboratory Services Pty. Ltd.  
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## CERTIFICATE BR11083249

Project: ICP61, Au-AA25, and XRF05

P.O. No.: TA 51291

This report is for 144 Pulp samples submitted to our lab in Brisbane, QLD, Australia on 17-MAY-2011.

The following have access to data associated with this certificate:

RICKY GELSTON

## SAMPLE PREPARATION

ALS CODE	DESCRIPTION
LEV-01	Waste Disposal Levy
LOG-22	Sample login - Rcd w/o BarCode

## ANALYTICAL PROCEDURES

ALS CODE	DESCRIPTION	INSTRUMENT
ME-XRF05	Trace Level XRF Analysis	XRF
Au-AA25	Ore Grade Au 30g FA AA finish	AAS
ME-ICP61	33 element four acid ICP-AES	ICP-AES

To: BURNIE RESEARCH LABORATORY  
ATTN: RICKY GELSTON  
PO BOX 952  
BURNIE TAS 7320

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:

Shaun Kenny, Brisbane Laboratory Manager



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**CERTIFICATE OF ANALYSIS BR11083249**

Sample Description	Method Analyte Units LOR	Au-AA25	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-XRF05	ME-XRF05
		Au	Ag	As	Cu	Ni	Pb	Zn	Sn	W
		ppm 0.01	ppm 0.5	ppm 5	ppm 1	ppm 1	ppm 2	ppm 2	ppm 5	ppm 10
SS0001		<0.01	<0.5	<5	13	15	54	49	17	<10
SS0002		<0.01	<0.5	7	30	37	99	103	63	<10
SS0003		<0.01	<0.5	8	57	55	30	134	<5	<10
SS0004		<0.01	<0.5	<5	30	33	28	66	<5	10
SS0005		<0.01	<0.5	13	174	61	40	136	<5	<10
SS0006		<0.01	<0.5	18	58	55	67	131	10	<10
SS0007		<0.01	<0.5	27	66	50	70	138	<5	10
SS0008		<0.01	<0.5	24	58	50	65	119	<5	<10
SS0009		<0.01	<0.5	31	90	72	84	160	<5	<10
SS0010		<0.01	<0.5	26	73	51	88	123	<5	<10
SS0011		<0.01	0.6	41	101	42	120	144	5	<10
SS0012		<0.01	<0.5	43	67	53	69	83	<5	<10
SS0013		<0.01	<0.5	66	86	55	98	110	<5	<10
SS0014		<0.01	<0.5	39	65	44	68	84	<5	<10
SS0015		<0.01	<0.5	41	73	47	80	117	9	10
SS0016		<0.01	<0.5	38	89	67	76	142	<5	<10
SS0017		<0.01	<0.5	32	68	49	86	134	<5	10
SS0018		<0.01	<0.5	27	45	39	60	103	<5	10
SS0019		<0.01	0.6	30	58	45	75	112	<5	<10
SS0020		<0.01	<0.5	28	49	39	65	105	<5	<10
SS0021		<0.01	<0.5	24	70	54	62	112	<5	10
SS0022		<0.01	<0.5	39	46	39	71	87	<5	10
SS0023		<0.01	<0.5	35	55	46	70	101	<5	10
SS0024		<0.01	<0.5	36	67	42	83	113	<5	10
SS0025		<0.01	<0.5	31	79	77	84	168	<5	<10
SS0026		<0.01	<0.5	48	81	51	93	143	<5	<10
SS0027		<0.01	<0.5	16	85	75	59	223	<5	<10
SS0028		<0.01	<0.5	19	80	75	58	217	<5	<10
SS0029		0.01	<0.5	28	96	69	74	162	5	<10
SS0030		<0.01	<0.5	26	71	43	91	122	<5	<10
SS0031		<0.01	<0.5	20	59	47	62	121	<5	10
SS0032		<0.01	<0.5	41	103	43	95	108	<5	<10
SS0033		<0.01	<0.5	51	66	40	91	115	<5	<10
SS0034		<0.01	<0.5	18	93	64	60	154	<5	<10
SS0035		<0.01	<0.5	40	102	48	78	128	<5	<10
SS0036		<0.01	<0.5	13	123	95	41	194	<5	<10
SS0037		<0.01	<0.5	38	65	39	73	73	6	<10
SS0038		<0.01	<0.5	39	97	65	98	157	7	<10
SS0039		<0.01	<0.5	28	88	58	59	126	<5	<10
SS0040		<0.01	<0.5	31	92	62	191	184	23	<10



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Project: ICP61, Au-AA25, and XRF05

**CERTIFICATE OF ANALYSIS BR11083249**

Sample Description	Method Analyte Units LOR	Au-AA25	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-XRF05	ME-XRF05
		Au	Ag	As	Cu	Ni	Pb	Zn	Sn	W
		ppm 0.01	ppm 0.5	ppm 5	ppm 1	ppm 1	ppm 2	ppm 2	ppm 5	ppm 10
SS0041		<0.01	<0.5	35	89	60	98	117	5	<10
SS0042		<0.01	<0.5	27	77	56	72	106	13	<10
SS0043		<0.01	<0.5	13	17	15	26	36	8	<10
SS0044		<0.01	<0.5	16	83	72	56	144	6	<10
SS0045		<0.01	<0.5	45	103	61	92	158	<5	<10
SS0046		<0.01	<0.5	16	127	119	43	213	<5	<10
SS0047		0.02	<0.5	31	75	48	64	101	6	<10
SS0048		0.01	<0.5	44	57	54	59	91	7	<10
SS0049		<0.01	<0.5	38	73	48	71	134	9	<10
SS0050		<0.01	<0.5	36	180	77	90	250	<5	<10
SS0051		<0.01	<0.5	9	68	66	29	95	5	<10
SS0052		<0.01	<0.5	12	59	45	86	100	5	<10
SS0053		<0.01	<0.5	<5	8	5	48	65	39	<10
SS0054		<0.01	<0.5	<5	6	3	33	33	25	<10
SS0055		<0.01	<0.5	<5	7	4	25	41	27	<10
SS0056		<0.01	<0.5	9	21	19	103	173	114	<10
SS0057		<0.01	<0.5	7	11	6	55	87	68	<10
SS0058		<0.01	<0.5	11	30	27	119	148	46	10
SS0059		<0.01	<0.5	12	31	27	89	94	26	<10
SS0060		<0.01	<0.5	10	44	47	99	124	16	<10
SS0061		<0.01	0.5	26	59	30	170	110	12	<10
SS0062		<0.01	<0.5	22	63	40	139	168	13	<10
SS0063		<0.01	<0.5	<5	17	33	49	104	33	<10
SS0064		<0.01	<0.5	43	97	66	104	269	<5	<10
SS0065		<0.01	<0.5	13	85	64	114	156	10	<10
SS0066		<0.01	<0.5	31	132	93	98	266	<5	<10
SS0067		<0.01	<0.5	92	209	88	134	423	<5	<10
SS0068		0.01	<0.5	12	94	67	74	137	<5	<10
SS0069		0.01	<0.5	34	82	50	89	115	11	<10
SS0070		<0.01	<0.5	37	73	51	81	136	7	<10
SS0071		<0.01	<0.5	43	66	37	98	95	<5	10
SS0072		0.01	<0.5	38	98	68	154	282	<5	<10
SS0073		<0.01	<0.5	30	83	59	86	126	<5	<10
SS0074		<0.01	<0.5	42	104	119	55	153	<5	<10
SS0075		<0.01	<0.5	25	52	45	42	75	<5	<10
SS0076		0.01	<0.5	31	84	73	42	122	<5	<10
SS0077		<0.01	<0.5	64	60	35	89	93	<5	<10
SS0078		0.02	<0.5	59	85	72	117	152	9	<10
SS0079		0.01	<0.5	44	59	39	140	143	<5	<10
SS0080		<0.01	<0.5	43	49	33	123	101	<5	10



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**CERTIFICATE OF ANALYSIS BR11083249**

Sample Description	Method Analyte Units LOR	Au-AA25	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-ICP61	ME-XRF05	ME-XRF05
		Au	Ag	As	Cu	Ni	Pb	Zn	Sn	W
		ppm 0.01	ppm 0.5	ppm 5	ppm 1	ppm 1	ppm 2	ppm 2	ppm 5	ppm 10
SS0081		0.01	<0.5	61	83	43	98	102	<5	<10
SS0082		<0.01	<0.5	45	79	46	116	146	<5	<10
SS0083		<0.01	<0.5	53	88	39	122	161	5	10
SS0084		<0.01	<0.5	38	66	47	70	85	<5	<10
SS0085		<0.01	<0.5	45	103	61	78	101	<5	<10
SS0086		<0.01	<0.5	44	72	35	146	96	<5	<10
SS0087		<0.01	<0.5	31	77	57	60	91	<5	<10
SS0088		<0.01	<0.5	55	78	67	66	66	6	<10
SS0089		<0.01	<0.5	39	96	68	125	244	<5	<10
SS0090		<0.01	<0.5	39	73	43	74	114	<5	<10
SS0091		<0.01	<0.5	35	61	44	89	91	5	<10
SS0092		<0.01	<0.5	34	69	39	75	97	<5	<10
SS0093		<0.01	<0.5	12	131	104	73	269	<5	<10
SS0094		<0.01	<0.5	25	72	33	66	124	<5	<10
SS0095		<0.01	<0.5	35	85	60	73	128	9	<10
SS0096		<0.01	<0.5	29	40	25	86	94	8	<10
SS0097		<0.01	<0.5	34	103	126	47	113	<5	<10
SS0098		<0.01	<0.5	7	90	63	22	73	7	<10
SS0099		<0.01	<0.5	9	70	71	24	101	<5	<10
SS0100		<0.01	<0.5	22	114	91	34	99	<5	<10
SS0101		<0.01	<0.5	17	85	77	67	251	<5	<10
SS0102		0.01	<0.5	36	66	42	111	188	11	<10
SS0103		0.01	<0.5	7	14	20	43	51	34	<10
SS0104		<0.01	<0.5	8	22	16	69	46	9	<10
SS0105		<0.01	<0.5	16	49	24	105	68	11	<10
SS0106		<0.01	<0.5	5	12	9	73	59	37	<10
SS0107		<0.01	<0.5	5	5	3	32	15	13	<10
SS0108		<0.01	<0.5	20	172	77	269	249	14	<10
SS0109		<0.01	<0.5	7	6	3	37	17	18	<10
SS0110		<0.01	<0.5	11	36	28	113	199	191	<10
SS0111		<0.01	<0.5	7	26	23	90	123	84	<10
SS0112		<0.01	<0.5	<5	5	2	18	12	13	<10
SS0113		<0.01	<0.5	<5	9	3	20	11	6	<10
SS0114		<0.01	<0.5	5	8	6	47	47	42	<10
SS0115		<0.01	<0.5	<5	14	10	57	56	10	<10
SS0116		<0.01	<0.5	37	58	38	92	122	<5	<10
SS0117		<0.01	<0.5	8	29	56	51	104	7	<10
SS0118		<0.01	<0.5	12	78	54	54	74	<5	<10
SS0119		<0.01	<0.5	8	91	61	38	104	<5	<10
SR0004		<0.01	<0.5	11	99	123	50	132	<5	<10



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**CERTIFICATE OF ANALYSIS BR11083249**

Sample Description	Method Analyte Units LOR	Au-AA25 Au ppm 0.01	ME-ICP61 Ag ppm 0.5	ME-ICP61 As ppm 5	ME-ICP61 Cu ppm 1	ME-ICP61 Ni ppm 1	ME-ICP61 Pb ppm 2	ME-ICP61 Zn ppm 2	ME-XRF05 Sn ppm 5	ME-XRF05 W ppm 10
SR0005		<0.01	<0.5	10	135	100	43	158	<5	10
SR0006		<0.01	<0.5	7	64	101	29	142	<5	<10
SR0007		<0.01	<0.5	7	110	91	23	111	<5	10
SR0008		<0.01	<0.5	6	123	92	29	101	<5	<10
SR0009		<0.01	<0.5	7	76	89	37	111	<5	<10
SR0010		<0.01	<0.5	12	63	151	32	103	<5	<10
SR0011		<0.01	<0.5	12	141	139	90	170	10	<10
SR0012		<0.01	<0.5	<5	51	223	6	112	<5	<10
SR0013		<0.01	<0.5	<5	55	205	4	112	<5	<10
SR0014		<0.01	<0.5	23	45	101	17	97	<5	<10
SR0015		<0.01	<0.5	74	39	180	26	135	<5	<10
SR0016		<0.01	<0.5	36	104	54	90	127	<5	<10
SR0017		<0.01	<0.5	10	132	88	38	153	<5	10
SR0018		<0.01	<0.5	<5	9	9	28	21	7	<10
SR0019		<0.01	<0.5	10	60	81	57	105	5	<10
SR0020		<0.01	<0.5	6	8	69	20	102	5	<10
SR0021		<0.01	<0.5	35	62	64	39	67	<5	10
SR0022		<0.01	<0.5	5	111	111	18	112	<5	<10
SR0023		<0.01	<0.5	18	123	79	33	220	<5	<10
SR0024		<0.01	<0.5	23	85	12	498	56	6	<10
SR0025		<0.01	<0.5	10	101	104	78	124	<5	<10
SR0026		<0.01	<0.5	5	45	89	18	109	<5	<10
SR0027		<0.01	<0.5	<5	74	107	16	157	<5	<10
SR0028		<0.01	<0.5	6	123	109	13	104	<5	10