



1020 Cordova St. East Vancouver BC V6A 4A3 Canada  
Phone (604) 253-3158 Fax (604) 253-1716

Acme Analytical Laboratories (Vancouver) Ltd.

[www.acmelab.com](http://www.acmelab.com)

**Client:** Underworld Resources, Inc.  
1500 - 409 Granville Street  
Vancouver BC V6C 1T2 Canada

Submitted By: Rob McLeod  
Receiving Lab: Canada-Vancouver  
Received: July 22, 2009  
Report Date: August 01, 2009  
Page: 1 of 5

## CERTIFICATE OF ANALYSIS

VAN09003137.1

### CLIENT JOB INFORMATION

Project: TSL  
Shipment ID:  
P.O. Number  
Number of Samples: 107

### SAMPLE DISPOSAL

STOR-PLP Store After 90 days Invoice for Storage  
DISP-RJT-SOIL Immediate Disposal of Soil Reject

Acme does not accept responsibility for samples left at the laboratory after 90 days without prior written instructions for sample storage or return.

Invoice To: Underworld Resources, Inc.  
1500 - 409 Granville Street  
Vancouver BC V6C 1T2  
Canada

CC:

### SAMPLE PREPARATION AND ANALYTICAL PROCEDURES

Method Code	Number of Samples	Code Description	Test Wgt (g)	Report Status	Lab
SS80	107	Dry at 60C sieve 100g to -80 mesh			VAN
Dry at 60C	107	Dry at 60C			VAN
1DX15	107	1:1:1 Aqua Regia digestion ICP-MS analysis	15	Completed	VAN

### ADDITIONAL COMMENTS



This report supersedes all previous preliminary and final reports with this file number dated prior to the date on this certificate. Signature indicates final approval; preliminary reports are unsigned and should be used for reference only.  
All results are considered the confidential property of the client. Acme assumes the liabilities for actual cost of analysis only.  
\*\* asterisk indicates that an analytical result could not be provided due to unusually high levels of interference from other elements.



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	Method Analyte Unit MDL	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2
TSL 42888	Soil		0.7	50.2	6.9	97	<0.1	13.5	11.3	325	2.82	6.1	0.5	5.2	1.7	19	0.2	0.3	0.1	65	0.29
TSL 42889	Soil		0.7	49.6	7.1	92	<0.1	13.0	10.7	237	2.96	4.5	0.5	1.5	1.6	18	0.3	0.2	0.1	75	0.26
TSL 42890	Soil		0.8	37.1	10.1	88	<0.1	12.4	12.6	993	2.76	4.9	0.6	2.4	3.4	17	0.2	0.3	0.1	63	0.25
TSL 42891	Soil		0.7	26.5	5.4	35	<0.1	7.4	3.7	98	1.33	2.9	0.5	1.7	0.4	17	0.2	0.2	0.1	30	0.17
TSL 42892	Soil		0.9	20.7	10.9	82	<0.1	9.7	5.0	251	2.36	5.3	0.7	1.3	4.7	16	0.1	0.3	0.2	35	0.18
TSL 42893	Soil		1.5	30.9	11.3	90	<0.1	10.9	6.3	283	2.65	6.8	0.7	1.4	4.3	15	0.2	0.3	0.2	46	0.16
TSL 42894	Soil		1.2	33.3	11.0	93	<0.1	11.3	6.2	291	2.67	6.9	0.7	1.9	4.5	16	0.1	0.3	0.2	45	0.16
TSL 42895	Soil		1.5	49.0	13.2	110	<0.1	11.4	6.1	298	2.78	8.7	0.9	1.7	3.8	19	0.2	0.3	0.2	51	0.19
TSL 42896	Soil		1.2	86.9	10.7	113	<0.1	11.4	7.0	302	3.05	7.6	1.0	6.0	4.1	17	0.2	0.3	0.4	43	0.17
TSL 42897	Soil		0.8	21.3	28.1	93	<0.1	8.4	4.5	338	2.01	5.9	0.7	1.2	3.4	13	0.2	0.3	0.1	31	0.15
TSL 42898	Soil		0.7	26.5	12.3	90	0.2	8.2	4.0	222	2.09	5.2	1.0	0.8	1.7	18	0.3	0.4	0.1	39	0.25
TSL 42586	Soil		1.1	27.3	21.6	406	0.2	10.9	11.0	971	2.98	6.8	0.4	1.6	1.5	16	1.0	0.4	0.2	78	0.17
TSL 42587	Soil		0.5	127.1	19.2	631	<0.1	10.7	23.0	649	4.80	4.3	0.5	<0.5	1.2	13	0.7	0.2	<0.1	109	0.17
TSL 42588	Soil		1.5	115.1	9.9	171	0.2	18.6	10.2	337	4.05	7.3	1.3	2.8	4.5	32	0.2	0.4	0.1	80	0.20
TSL 42589	Soil		1.3	29.4	11.4	118	<0.1	16.1	9.5	284	2.98	9.0	1.0	2.9	3.3	15	0.1	0.5	0.2	74	0.13
TSL 42590	Soil		0.8	40.9	8.6	93	<0.1	16.7	10.2	330	2.80	7.6	0.6	6.0	2.1	18	0.2	0.4	0.1	66	0.22
TSL 42591	Soil		0.5	55.9	4.9	163	<0.1	9.5	15.9	383	3.25	4.0	0.3	2.1	1.2	15	0.3	0.2	<0.1	90	0.25
TSL 42592	Soil		0.5	33.6	6.3	92	<0.1	14.0	12.0	353	2.95	5.5	0.6	6.7	2.2	17	0.2	0.3	<0.1	64	0.26
TSL 42232	Soil		0.4	13.1	6.9	40	<0.1	8.6	3.4	101	1.54	3.8	0.4	0.5	0.9	16	<0.1	0.2	0.1	35	0.18
TSL 42233	Soil		0.8	22.1	13.8	84	<0.1	15.3	7.6	752	2.67	4.8	0.6	1.7	2.6	40	0.2	0.4	0.2	43	0.62
TSL 42234	Soil		0.6	19.5	13.6	103	<0.1	15.5	6.4	519	2.89	3.3	0.5	<0.5	2.3	34	0.1	0.3	0.1	35	0.44
TSL 39285	Soil		0.7	24.8	13.6	114	0.3	15.2	9.2	1967	2.67	4.6	0.6	<0.5	0.8	52	0.6	0.4	0.2	40	0.71
TSL 42409	Soil		0.5	27.2	9.5	79	0.2	11.9	5.9	173	2.02	3.8	1.0	1.1	0.8	19	0.4	0.2	0.1	40	0.18
TSL 42410	Soil		0.4	32.9	8.0	129	0.1	6.1	5.8	170	1.85	2.1	0.5	1.6	1.3	14	<0.1	<0.1	<0.1	35	0.20
TSL 42411	Soil		0.5	26.7	8.0	62	0.2	7.1	3.4	107	1.44	2.9	0.5	5.9	1.2	15	0.1	0.1	0.1	30	0.17
TSL 42412	Soil		0.8	29.6	10.8	56	0.2	7.4	3.3	96	2.01	4.9	0.5	9.2	1.2	14	0.1	0.1	0.2	47	0.15
TSL 42477	Soil		0.7	36.5	14.9	84	<0.1	20.3	13.7	388	3.00	4.8	0.5	<0.5	1.7	24	0.2	0.2	0.2	76	0.47
TSL 42752	Soil		1.3	15.5	8.7	35	0.1	8.9	4.1	149	1.87	4.0	0.4	2.8	1.2	13	0.2	0.4	0.2	53	0.12
TSL 42754	Soil		0.9	18.7	8.2	51	<0.1	16.7	7.4	247	2.43	6.6	0.6	2.9	1.5	15	0.1	0.4	0.1	55	0.18
TSL 42755	Soil		0.7	29.0	10.5	81	<0.1	16.0	8.4	432	3.24	6.0	0.7	3.4	3.5	12	0.1	0.4	0.2	53	0.13



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VAN09003137.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.001	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
TSL 42888	Soil	0.039	9	21	0.59	144	0.094	<1	1.66	0.020	0.08	0.1	<0.01	3.6	<0.1	<0.05	5	<0.5
TSL 42889	Soil	0.031	7	19	0.64	130	0.121	1	1.86	0.021	0.08	<0.1	0.02	3.8	<0.1	<0.05	7	<0.5
TSL 42890	Soil	0.043	13	21	0.47	125	0.099	1	1.55	0.020	0.07	0.1	0.03	3.3	<0.1	<0.05	6	0.6
TSL 42891	Soil	0.049	11	14	0.18	140	0.040	<1	0.85	0.015	0.04	0.2	0.04	2.0	<0.1	<0.05	4	<0.5
TSL 42892	Soil	0.013	8	17	0.32	175	0.050	1	1.29	0.012	0.15	<0.1	<0.01	2.9	<0.1	<0.05	5	<0.5
TSL 42893	Soil	0.014	14	20	0.40	204	0.072	<1	1.48	0.012	0.13	<0.1	0.02	3.4	0.1	<0.05	6	0.6
TSL 42894	Soil	0.015	14	22	0.40	201	0.080	<1	1.52	0.011	0.15	<0.1	0.02	3.5	0.1	<0.05	6	0.6
TSL 42895	Soil	0.019	17	21	0.46	271	0.087	1	1.58	0.010	0.16	<0.1	0.02	4.3	0.1	<0.05	6	0.8
TSL 42896	Soil	0.023	14	19	0.46	231	0.061	1	1.69	0.012	0.11	<0.1	0.02	3.6	0.1	<0.05	5	0.7
TSL 42897	Soil	0.022	12	14	0.29	169	0.051	<1	1.11	0.009	0.10	<0.1	0.01	2.8	0.1	<0.05	4	<0.5
TSL 42898	Soil	0.033	20	16	0.31	288	0.046	<1	1.34	0.011	0.12	<0.1	0.03	3.5	<0.1	<0.05	5	<0.5
TSL 42586	Soil	0.033	7	21	0.47	174	0.073	<1	1.83	0.014	0.05	<0.1	0.02	3.0	0.1	<0.05	7	<0.5
TSL 42587	Soil	0.034	5	15	1.02	198	0.139	<1	2.72	0.015	0.44	<0.1	0.01	4.0	0.3	<0.05	7	<0.5
TSL 42588	Soil	0.050	17	34	0.78	374	0.141	<1	2.81	0.013	0.31	<0.1	0.03	4.5	0.2	<0.05	7	0.9
TSL 42589	Soil	0.024	12	27	0.56	202	0.092	<1	1.95	0.011	0.11	<0.1	0.02	4.1	0.2	<0.05	6	0.6
TSL 42590	Soil	0.041	8	25	0.56	189	0.071	<1	1.78	0.014	0.05	0.1	0.01	3.2	<0.1	<0.05	5	0.7
TSL 42591	Soil	0.037	5	14	0.85	185	0.145	<1	1.86	0.021	0.34	<0.1	0.01	3.6	0.2	<0.05	6	<0.5
TSL 42592	Soil	0.065	9	20	0.63	202	0.101	1	1.64	0.014	0.15	<0.1	0.02	3.7	<0.1	<0.05	6	<0.5
TSL 42232	Soil	0.032	8	17	0.31	100	0.054	<1	0.98	0.013	0.04	0.2	0.03	2.0	<0.1	<0.05	4	<0.5
TSL 42233	Soil	0.029	20	25	0.50	575	0.051	2	1.66	0.022	0.16	<0.1	0.03	4.4	<0.1	<0.05	6	0.8
TSL 42234	Soil	0.026	12	28	0.60	518	0.048	1	1.58	0.015	0.25	<0.1	0.02	4.9	<0.1	<0.05	7	<0.5
TSL 39285	Soil	0.076	17	19	0.34	1336	0.024	4	1.53	0.016	0.21	<0.1	0.07	3.2	<0.1	<0.05	5	<0.5
TSL 42409	Soil	0.054	12	19	0.38	209	0.055	<1	1.59	0.014	0.08	0.1	0.03	3.1	0.1	<0.05	6	0.6
TSL 42410	Soil	0.047	6	10	0.43	124	0.055	<1	1.22	0.015	0.10	<0.1	0.03	2.7	<0.1	<0.05	4	<0.5
TSL 42411	Soil	0.035	7	15	0.29	101	0.065	<1	0.99	0.021	0.07	0.1	0.04	1.6	<0.1	0.11	4	<0.5
TSL 42412	Soil	0.032	7	17	0.30	87	0.058	<1	1.09	0.017	0.05	0.1	0.04	1.8	<0.1	0.09	4	<0.5
TSL 42477	Soil	0.039	8	32	0.66	231	0.080	<1	1.60	0.019	0.07	<0.1	0.02	3.9	<0.1	<0.05	6	<0.5
TSL 42752	Soil	0.020	9	15	0.18	150	0.065	<1	1.06	0.015	0.06	<0.1	0.02	1.6	<0.1	<0.05	6	<0.5
TSL 42754	Soil	0.032	9	25	0.41	145	0.075	1	1.67	0.012	0.11	0.1	0.02	2.6	<0.1	<0.05	6	<0.5
TSL 42755	Soil	0.023	8	22	0.48	141	0.082	1	2.02	0.010	0.23	<0.1	0.02	3.3	0.1	<0.05	7	<0.5



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	Method	Analyte	Unit	MDL	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15			
					Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
					kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
					0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
TSL 42756	Soil				0.4	25.7	8.5	100	<0.1	13.5	8.8	598	3.11	3.9	0.8	1.7	3.6	9	0.1	0.3	0.2	35	0.11	
TSL 42757	Soil				0.8	35.3	10.1	64	<0.1	8.2	6.0	383	2.43	3.5	0.8	3.0	1.0	14	0.2	0.3	0.2	50	0.12	
TSL 42758	Soil				1.0	30.9	6.8	63	0.3	10.8	7.3	301	2.33	4.0	1.3	4.8	0.9	36	0.2	0.3	0.1	46	0.38	
TSL 42759	Soil				1.3	51.3	17.9	151	0.6	7.0	4.7	215	2.12	4.4	0.6	8.9	1.4	20	0.2	0.2	0.1	41	0.20	
TSL 42761	Soil				2.0	74.8	25.8	66	1.1	5.7	2.3	99	2.85	5.4	0.8	19.0	1.5	21	0.1	0.2	0.4	38	0.13	
TSL 42308	Soil				1.5	26.2	13.0	56	<0.1	12.0	7.1	310	3.05	8.6	0.5	3.4	1.9	17	0.1	0.4	0.2	82	0.18	
TSL 42309	Soil				0.9	27.1	9.6	68	<0.1	25.6	12.1	506	3.18	7.6	0.8	2.5	3.2	19	<0.1	0.4	0.2	76	0.22	
TSL 42310	Soil				0.8	24.9	9.2	66	<0.1	19.1	12.4	446	3.31	6.0	0.7	3.5	3.8	18	0.1	0.4	0.1	81	0.24	
TSL 42311	Soil				1.2	39.0	14.5	96	0.1	23.7	12.7	545	4.11	8.6	1.6	6.3	4.6	29	0.2	0.4	0.2	94	0.33	
TSL 42312	Soil				1.1	26.8	13.1	77	<0.1	19.2	9.7	387	3.47	7.4	0.8	5.4	3.4	20	0.1	0.5	0.2	82	0.21	
TSL 42313	Soil				0.9	22.0	10.2	64	<0.1	14.6	8.7	510	2.91	5.7	0.7	3.1	1.4	14	0.3	0.3	0.1	64	0.18	
TSL 42314	Soil				0.7	27.5	9.3	83	<0.1	13.6	9.3	374	2.95	5.2	0.9	2.1	3.1	21	0.2	0.2	0.1	64	0.24	
TSL 43509	Soil				2.2	165.1	8.3	97	<0.1	23.7	20.5	656	7.14	38.4	0.7	2.3	1.1	64	0.4	0.3	0.3	160	0.37	
TSL 43510	Soil				1.6	47.1	8.2	55	<0.1	10.5	16.0	437	3.97	37.2	0.3	0.6	1.5	18	0.2	0.4	0.2	135	0.25	
TSL 43511	Soil				0.7	24.4	6.4	37	<0.1	11.6	8.8	215	2.00	10.4	0.3	1.5	1.0	12	<0.1	0.3	<0.1	70	0.20	
TSL 43512	Soil				0.9	61.9	16.8	127	<0.1	85.9	30.5	1257	6.19	4.7	0.3	1.6	1.1	33	0.2	0.2	0.1	146	0.81	
TSL 43513	Soil				2.1	61.7	9.4	91	<0.1	29.5	23.1	645	4.20	7.6	0.7	6.4	2.0	29	0.2	0.3	0.1	119	0.74	
TSL 43514	Soil				1.1	36.4	8.6	74	0.1	18.3	21.8	691	3.50	4.7	0.5	3.0	1.1	28	0.1	0.2	0.1	98	0.45	
TSL 43515	Soil				1.2	24.3	7.0	55	<0.1	16.9	12.8	366	2.77	6.4	0.6	6.5	2.3	26	<0.1	0.3	0.1	82	0.45	
TSL 43516	Soil				1.0	40.8	4.3	52	<0.1	14.6	16.1	346	3.84	13.4	0.4	1.5	1.7	27	<0.1	0.2	<0.1	93	0.60	
TSL 43517	Soil				1.1	64.4	4.1	53	<0.1	10.5	20.6	383	3.95	53.6	0.4	0.9	1.1	28	0.2	0.2	<0.1	112	0.59	
TSL 43519	Soil				1.0	69.0	4.2	63	<0.1	12.4	18.2	391	4.21	14.9	0.5	<0.5	2.3	15	<0.1	0.2	0.1	119	0.31	
TSL 43781	Soil				0.7	70.5	5.3	61	<0.1	26.7	15.1	412	3.03	5.3	0.6	2.4	2.2	34	0.1	0.2	<0.1	99	0.67	
TSL 43783	Soil				0.6	42.6	7.2	63	<0.1	24.2	12.6	283	2.83	4.0	0.8	2.7	4.8	25	0.1	0.2	0.2	82	0.49	
TSL 43785	Soil				0.6	34.9	25.6	117	<0.1	39.9	16.6	190	3.61	1.5	2.2	1.2	13.9	9	0.2	<0.1	0.3	36	0.22	
TSL 43786	Soil				0.5	33.2	14.6	78	<0.1	45.5	15.2	462	3.62	3.7	1.7	5.9	12.3	24	0.1	0.2	0.2	74	0.54	
TSL 43787	Soil				0.6	23.9	13.4	62	<0.1	30.7	12.8	223	2.90	4.3	1.1	1.4	10.8	18	<0.1	0.2	0.2	66	0.31	
TSL 43788	Soil				0.6	36.1	18.6	82	<0.1	50.6	22.0	379	4.47	2.0	1.6	1.4	13.8	13	<0.1	0.1	0.3	84	0.28	
TSL 43789	Soil				0.8	24.6	12.2	63	<0.1	25.8	12.7	317	3.09	4.1	1.1	0.7	8.3	24	<0.1	0.3	0.2	69	0.38	
TSL 43790	Soil				1.4	30.1	10.5	50	0.2	27.2	13.7	1044	2.18	51.9	3.8	1.5	4.4	74	0.4	0.6	0.2	22	2.07	



1020 Cordova St. East Vancouver BC V6A 4A3 Canada  
Phone (604) 253-3158 Fax (604) 253-1716

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client: **Underworld Resources, Inc.**  
1500 - 409 Granville Street  
Vancouver BC V6C 1T2 Canada

Project: TSL  
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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.001	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
TSL 42756	Soil	0.027	7	16	0.44	145	0.075	1	2.09	0.009	0.34	<0.1	0.01	3.4	0.2	<0.05	7	<0.5
TSL 42757	Soil	0.041	12	15	0.37	175	0.084	<1	1.43	0.013	0.21	<0.1	<0.01	2.7	0.2	<0.05	7	<0.5
TSL 42758	Soil	0.107	14	19	0.34	320	0.054	2	1.54	0.021	0.14	0.2	0.06	4.4	0.1	0.11	5	<0.5
TSL 42759	Soil	0.060	9	14	0.39	251	0.070	<1	1.23	0.019	0.22	<0.1	0.06	2.4	0.2	0.08	5	<0.5
TSL 42761	Soil	0.052	11	15	0.23	168	0.045	<1	1.09	0.022	0.10	<0.1	0.05	2.3	0.1	0.13	4	<0.5
TSL 42308	Soil	0.047	9	26	0.44	152	0.117	<1	1.63	0.012	0.12	0.1	0.02	2.8	0.1	<0.05	9	<0.5
TSL 42309	Soil	0.047	15	36	0.58	261	0.086	<1	2.11	0.014	0.08	0.1	0.03	4.1	<0.1	<0.05	7	<0.5
TSL 42310	Soil	0.023	13	31	0.66	276	0.125	2	2.06	0.016	0.12	<0.1	0.02	4.9	0.1	<0.05	7	<0.5
TSL 42311	Soil	0.045	28	41	0.68	418	0.118	1	2.93	0.018	0.15	0.1	0.02	6.0	0.1	<0.05	10	0.5
TSL 42312	Soil	0.035	16	32	0.51	264	0.104	<1	2.18	0.013	0.12	0.1	0.01	4.1	0.1	<0.05	8	<0.5
TSL 42313	Soil	0.049	14	24	0.39	149	0.096	<1	1.66	0.012	0.14	0.1	0.03	2.8	0.1	<0.05	7	<0.5
TSL 42314	Soil	0.056	15	23	0.53	203	0.114	<1	1.86	0.012	0.18	0.1	0.01	3.6	0.1	<0.05	7	<0.5
TSL 43509	Soil	0.072	8	23	0.98	261	0.157	<1	2.47	0.076	0.30	<0.1	0.02	8.0	<0.1	0.14	9	1.3
TSL 43510	Soil	0.044	7	20	0.71	165	0.142	1	1.77	0.026	0.13	0.1	0.01	4.9	<0.1	<0.05	9	<0.5
TSL 43511	Soil	0.031	6	17	0.40	128	0.087	<1	1.27	0.017	0.04	<0.1	<0.01	3.0	<0.1	<0.05	5	<0.5
TSL 43512	Soil	0.077	6	212	1.93	273	0.067	2	2.64	0.032	0.29	<0.1	0.02	18.3	<0.1	<0.05	9	<0.5
TSL 43513	Soil	0.068	12	54	1.05	215	0.086	1	2.01	0.036	0.05	0.3	0.03	9.7	<0.1	<0.05	7	0.7
TSL 43514	Soil	0.078	7	38	0.75	176	0.082	<1	1.93	0.035	0.05	0.2	0.03	7.6	<0.1	<0.05	7	<0.5
TSL 43515	Soil	0.045	10	34	0.60	212	0.098	2	1.78	0.028	0.05	0.2	0.02	5.0	<0.1	<0.05	6	<0.5
TSL 43516	Soil	0.076	6	18	0.70	184	0.083	<1	1.71	0.038	0.06	<0.1	0.01	5.5	<0.1	<0.05	7	<0.5
TSL 43517	Soil	0.070	6	15	0.76	180	0.120	<1	1.43	0.047	0.16	<0.1	0.02	5.7	<0.1	<0.05	6	<0.5
TSL 43519	Soil	0.037	5	15	1.18	313	0.157	<1	2.09	0.029	0.55	<0.1	<0.01	8.5	0.2	<0.05	10	0.5
TSL 43781	Soil	0.056	9	54	0.91	310	0.122	1	2.02	0.024	0.04	0.1	0.02	4.9	<0.1	<0.05	7	<0.5
TSL 43783	Soil	0.043	20	40	0.69	227	0.100	2	1.81	0.023	0.09	0.1	0.02	4.1	0.1	<0.05	7	<0.5
TSL 43785	Soil	0.043	12	27	0.82	84	0.051	<1	1.86	0.007	0.25	<0.1	<0.01	3.2	0.2	<0.05	6	<0.5
TSL 43786	Soil	0.060	40	58	1.04	205	0.096	<1	2.12	0.017	0.23	<0.1	0.02	5.4	0.2	<0.05	8	<0.5
TSL 43787	Soil	0.037	32	38	0.69	151	0.082	<1	1.93	0.013	0.13	<0.1	0.01	3.5	0.1	<0.05	6	<0.5
TSL 43788	Soil	0.037	19	89	1.41	132	0.203	<1	2.82	0.011	0.56	<0.1	<0.01	6.3	0.4	<0.05	9	<0.5
TSL 43789	Soil	0.024	36	49	0.71	147	0.094	<1	1.99	0.015	0.08	<0.1	0.02	3.7	0.1	<0.05	7	<0.5
TSL 43790	Soil	0.107	70	17	0.50	205	0.006	4	1.10	0.017	0.10	<0.1	0.07	2.8	0.1	0.17	3	1.1



1020 Cordova St. East Vancouver BC V6A 4A3 Canada  
Phone (604) 253-3158 Fax (604) 253-1716

Acme Analytical Laboratories (Vancouver) Ltd.

www.acmelab.com

Client: **Underworld Resources, Inc.**  
1500 - 409 Granville Street  
Vancouver BC V6C 1T2 Canada

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	Method	Analyte	Unit	MDL	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15			
					Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca	
					kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%
					0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
TSL 43791	Soil				0.9	15.9	10.0	46	<0.1	18.7	9.4	202	2.74	10.1	0.7	1.6	4.5	18	<0.1	0.4	0.2	64	0.20		
TSL 40429	Soil				0.3	15.3	18.8	178	<0.1	4.4	9.5	512	4.31	1.3	0.2	<0.5	0.8	25	<0.1	<0.1	0.1	18	0.37		
TSL 38432	Soil				0.4	21.3	10.9	67	<0.1	11.3	8.9	327	2.86	3.3	0.8	<0.5	3.9	12	<0.1	0.2	0.1	46	0.13		
TSL 38469	Soil				0.7	21.8	17.5	47	<0.1	14.4	10.0	913	2.41	5.0	2.9	5.6	11.2	32	0.1	0.3	0.2	42	0.57		
TSL 38470	Soil				0.8	15.8	11.9	43	<0.1	13.0	8.5	626	2.14	5.3	1.2	2.6	3.9	32	0.1	0.4	0.1	47	0.27		
TSL 38471	Soil				0.9	17.4	11.8	40	<0.1	14.0	6.5	222	2.26	6.7	2.0	6.7	6.4	21	<0.1	0.5	0.1	45	0.21		
TSL 38472	Soil				1.2	17.0	21.2	38	<0.1	6.7	3.8	167	1.77	4.5	1.0	2.7	4.6	13	<0.1	0.4	0.2	26	0.15		
TSL 38473	Soil				2.1	23.7	20.1	40	<0.1	9.0	4.4	146	2.27	5.1	1.6	3.2	8.6	12	<0.1	0.6	0.2	25	0.12		
TSL 38474	Soil				1.6	29.3	30.1	57	<0.1	15.2	7.4	259	3.12	8.3	1.8	1.1	9.4	19	<0.1	1.4	0.2	38	0.26		
TSL 38475	Soil				2.2	23.0	23.3	67	<0.1	10.3	9.7	451	3.72	7.3	1.5	<0.5	5.7	16	0.1	0.7	0.2	38	0.16		
TSL 38476	Soil				0.6	15.8	8.9	48	<0.1	12.6	7.7	304	2.26	5.2	1.1	1.4	5.3	23	<0.1	0.3	0.1	49	0.32		
TSL 38477	Soil				1.0	21.2	16.0	51	<0.1	13.8	8.5	410	2.78	6.4	3.2	2.1	6.2	30	<0.1	0.5	0.2	52	0.39		
TSL 38478	Soil				0.9	18.8	12.3	55	<0.1	13.5	9.0	428	2.56	5.5	1.4	3.2	4.6	31	<0.1	0.3	0.1	48	0.41		
TSL 38479	Soil				1.0	13.6	10.4	48	<0.1	12.3	8.7	405	2.41	6.2	0.9	1.0	3.5	24	0.1	0.3	0.1	50	0.29		
TSL 42605	Soil				1.3	25.9	27.2	99	0.4	9.1	6.1	299	2.75	5.7	0.5	4.4	2.1	12	0.2	0.3	0.2	58	0.14		
TSL 42607	Soil				0.7	31.9	11.1	62	<0.1	14.1	7.7	229	2.50	4.1	0.5	0.9	1.6	16	<0.1	0.2	0.2	62	0.22		
TSL 42641	Soil				0.9	17.1	10.4	67	<0.1	15.8	8.7	623	2.89	7.2	0.4	2.1	2.2	22	0.2	0.4	0.2	59	0.29		
TSL 42642	Soil				1.0	12.7	12.8	55	<0.1	11.4	7.1	346	2.82	7.7	0.4	<0.5	1.6	14	0.2	0.4	0.2	68	0.14		
TSL 42644	Soil				0.8	16.5	18.8	68	<0.1	11.6	7.0	270	2.91	5.9	0.6	6.8	3.4	15	0.1	0.3	0.3	54	0.17		
TSL 42645	Soil				0.8	18.0	11.6	57	0.1	12.0	6.0	210	2.21	5.0	0.7	2.5	1.3	14	0.2	0.3	0.2	53	0.15		
TSL 42646	Soil				0.6	21.6	12.1	64	<0.1	12.0	7.4	230	2.36	4.5	0.6	1.2	2.2	15	0.1	0.3	0.1	53	0.20		
TSL 42647	Soil				0.7	26.1	19.3	74	0.1	13.6	7.9	267	2.97	5.4	0.5	3.0	2.4	19	<0.1	0.3	0.2	65	0.25		
TSL 42648	Soil				0.7	21.5	11.5	66	<0.1	12.0	7.2	276	2.53	4.4	0.7	10.4	2.6	16	<0.1	0.2	0.1	50	0.18		
TSL 42649	Soil				0.6	13.9	14.8	61	<0.1	10.0	5.6	200	2.33	4.4	0.4	28.1	1.9	15	<0.1	0.2	0.2	48	0.17		
TSL 42677	Soil				0.6	31.2	8.2	72	<0.1	19.6	12.1	435	2.90	7.4	0.8	4.7	3.2	29	0.1	0.4	0.1	68	0.36		
TSL 43734	Soil				1.7	15.5	18.3	47	<0.1	17.4	8.2	265	3.12	8.6	0.6	1.6	5.6	20	<0.1	0.4	0.2	72	0.20		
TSL 43757	Soil				0.7	15.4	9.1	50	<0.1	15.6	7.9	316	2.38	6.9	0.8	2.0	5.0	21	0.1	0.3	0.1	46	0.22		
TSL 43758	Soil				0.8	11.0	10.0	54	<0.1	11.9	6.7	314	2.17	6.5	0.5	1.1	1.0	18	0.1	0.3	0.2	51	0.18		
TSL 43759	Soil				0.9	15.6	13.6	62	<0.1	16.2	9.8	474	2.93	8.1	0.7	2.1	3.3	16	0.2	0.3	0.2	62	0.15		
TSL 43760	Soil				0.7	15.6	8.2	29	<0.1	7.2	3.1	123	1.42	3.2	0.5	0.9	0.3	12	0.3	0.2	0.1	37	0.10		



1020 Cordova St. East Vancouver BC V6A 4A3 Canada  
Phone (604) 253-3158 Fax (604) 253-1716

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## CERTIFICATE OF ANALYSIS

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	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Ti	S	Ga	Se
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.001	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
TSL 43791	Soil	0.015	13	36	0.48	212	0.059	2	2.08	0.012	0.05	0.1	0.02	3.5	<0.1	<0.05	5	<0.5
TSL 40429	Soil	0.115	3	5	0.69	234	0.141	2	1.96	0.015	0.41	<0.1	<0.01	5.8	<0.1	<0.05	8	<0.5
TSL 38432	Soil	0.024	13	19	0.43	138	0.071	1	1.77	0.011	0.15	<0.1	0.01	4.2	0.1	<0.05	6	<0.5
TSL 38469	Soil	0.040	96	19	0.29	488	0.054	2	1.33	0.018	0.06	0.1	0.04	5.8	<0.1	<0.05	4	0.6
TSL 38470	Soil	0.026	13	23	0.36	310	0.061	2	1.49	0.013	0.10	0.1	0.02	3.6	<0.1	<0.05	5	<0.5
TSL 38471	Soil	0.026	20	26	0.39	156	0.062	1	1.42	0.012	0.11	0.1	0.02	4.6	<0.1	<0.05	4	<0.5
TSL 38472	Soil	0.034	8	11	0.21	98	0.031	3	0.86	0.010	0.12	0.1	0.02	3.0	<0.1	<0.05	3	<0.5
TSL 38473	Soil	0.024	13	13	0.18	127	0.039	3	0.83	0.008	0.08	<0.1	0.01	5.2	<0.1	<0.05	3	<0.5
TSL 38474	Soil	0.047	19	25	0.41	209	0.082	3	1.31	0.012	0.22	<0.1	0.02	7.3	0.2	<0.05	5	<0.5
TSL 38475	Soil	0.054	9	15	0.35	133	0.097	1	1.30	0.010	0.38	0.1	0.02	4.7	0.2	<0.05	7	<0.5
TSL 38476	Soil	0.034	17	25	0.47	220	0.107	1	1.44	0.015	0.08	0.1	0.02	4.2	<0.1	<0.05	5	<0.5
TSL 38477	Soil	0.038	30	24	0.45	308	0.104	1	1.62	0.016	0.15	0.1	0.03	6.1	0.1	<0.05	6	<0.5
TSL 38478	Soil	0.037	17	24	0.48	262	0.098	1	1.64	0.017	0.14	0.1	0.02	4.7	<0.1	<0.05	6	<0.5
TSL 38479	Soil	0.035	14	23	0.43	206	0.103	2	1.50	0.016	0.11	0.1	0.02	3.7	<0.1	<0.05	5	<0.5
TSL 42605	Soil	0.032	8	17	0.36	95	0.090	1	1.53	0.015	0.09	0.1	0.04	3.3	0.1	<0.05	7	<0.5
TSL 42607	Soil	0.028	10	28	0.52	185	0.103	1	1.49	0.017	0.07	<0.1	0.03	3.7	0.1	<0.05	7	<0.5
TSL 42641	Soil	0.027	7	27	0.48	220	0.068	<1	1.93	0.012	0.09	<0.1	0.02	3.0	<0.1	<0.05	6	<0.5
TSL 42642	Soil	0.030	9	21	0.41	180	0.079	1	1.39	0.012	0.08	0.1	<0.01	2.8	0.1	<0.05	7	<0.5
TSL 42644	Soil	0.033	9	21	0.42	139	0.077	2	1.52	0.011	0.09	0.2	0.01	3.2	<0.1	<0.05	6	<0.5
TSL 42645	Soil	0.044	12	21	0.34	141	0.064	2	1.63	0.014	0.07	0.1	0.04	2.8	<0.1	<0.05	6	<0.5
TSL 42646	Soil	0.032	11	20	0.43	140	0.079	2	1.60	0.015	0.06	0.1	0.03	3.2	<0.1	<0.05	5	<0.5
TSL 42647	Soil	0.031	9	21	0.47	189	0.101	2	2.02	0.016	0.07	0.1	0.02	3.8	<0.1	<0.05	8	<0.5
TSL 42648	Soil	0.035	13	20	0.38	148	0.087	1	1.60	0.013	0.07	0.1	0.03	3.9	<0.1	<0.05	6	<0.5
TSL 42649	Soil	0.024	9	19	0.38	117	0.087	1	1.57	0.013	0.06	0.1	0.03	3.3	0.1	<0.05	6	<0.5
TSL 42677	Soil	0.039	13	33	0.64	214	0.120	<1	1.77	0.020	0.09	0.1	0.02	5.1	<0.1	<0.05	6	<0.5
TSL 43734	Soil	0.017	13	37	0.47	270	0.064	1	2.32	0.012	0.07	<0.1	0.02	3.6	<0.1	<0.05	6	<0.5
TSL 43757	Soil	0.024	16	26	0.40	201	0.052	2	1.40	0.012	0.05	<0.1	0.02	3.2	<0.1	<0.05	4	<0.5
TSL 43758	Soil	0.051	13	21	0.29	188	0.047	3	1.41	0.015	0.06	<0.1	0.02	2.2	0.1	<0.05	6	<0.5
TSL 43759	Soil	0.045	16	29	0.36	180	0.065	2	1.80	0.013	0.06	0.1	0.02	3.1	0.1	<0.05	6	<0.5
TSL 43760	Soil	0.029	16	13	0.11	208	0.033	<1	0.78	0.015	0.03	<0.1	0.02	1.2	<0.1	<0.05	4	<0.5



1020 Cordova St. East Vancouver BC V6A 4A3 Canada  
Phone (604) 253-3158 Fax (604) 253-1716

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**Client:** Underworld Resources, Inc.  
1500 - 409 Granville Street  
Vancouver BC V6C 1T2 Canada

**Project:** TSL  
**Report Date:** August 01, 2009

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## CERTIFICATE OF ANALYSIS

VAN09003137.1

	Method Analyte Unit MDL	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
TSL 43761	Soil		0.9	9.7	7.1	38	<0.1	7.4	4.8	438	1.94	2.4	0.3	0.6	1.0	9	0.1	0.3	0.1	46	0.08
TSL 43762	Soil		0.4	18.6	3.9	21	<0.1	7.6	2.5	167	0.76	1.6	1.1	0.9	2.7	149	0.3	0.2	<0.1	15	2.31
TSL 43763	Soil		0.6	50.2	5.6	53	<0.1	16.2	10.4	505	2.48	6.1	1.4	1.9	1.8	134	0.1	0.4	<0.1	49	1.65
TSL 43764	Soil		0.9	41.1	7.1	74	0.1	9.9	12.8	614	3.23	18.1	0.6	0.7	2.1	41	0.2	0.3	0.1	57	0.50
TSL 43765	Soil		0.5	33.4	10.7	69	<0.1	14.1	15.2	608	3.58	9.5	0.7	1.0	2.4	42	0.2	0.4	0.1	83	0.54
TSL 43766	Soil		0.7	38.2	7.3	54	0.1	14.8	14.7	887	3.20	5.5	0.9	2.3	1.2	89	0.2	0.4	<0.1	78	1.39
TSL 42905	Soil		1.0	27.1	10.5	117	<0.1	8.5	4.1	507	3.16	5.2	0.4	5.9	1.4	10	0.2	0.4	0.2	43	0.10
TSL 42972	Soil		0.8	51.4	13.9	149	0.1	9.1	5.2	347	2.46	6.7	0.6	1.2	2.1	16	0.2	0.2	0.2	48	0.14
TSL 42976	Soil		0.7	29.7	11.5	105	<0.1	13.1	6.4	359	2.81	5.5	0.6	2.3	2.8	17	0.2	0.3	0.2	44	0.18
TSL 42978	Soil		0.6	46.1	8.7	56	<0.1	23.0	10.7	273	2.61	6.2	0.4	<0.5	1.3	20	0.1	0.3	0.2	61	0.24
TSL 42988	Soil		0.5	45.4	8.7	65	<0.1	14.7	9.6	360	2.44	4.8	0.5	3.1	2.2	19	0.2	0.3	0.2	55	0.30
TSL 42996	Soil		0.7	16.7	10.6	42	0.1	7.9	3.6	156	2.24	4.7	0.3	14.5	0.7	10	0.2	0.2	0.2	46	0.10
TSL 42997	Soil		0.7	67.0	13.8	105	0.1	10.6	5.0	213	2.40	4.7	1.1	1.3	1.5	20	0.2	0.2	0.2	39	0.17
TSL 42998	Soil		0.8	26.7	22.4	94	0.2	10.6	8.6	444	2.73	5.4	0.7	1.1	2.9	22	0.2	0.2	0.2	51	0.24
TSL 42999	Soil		1.0	68.3	19.1	285	0.2	9.9	7.1	515	3.11	6.1	0.6	1.5	2.7	18	0.3	0.2	0.2	49	0.15
TSL 45268	Soil		0.7	59.8	11.6	155	0.2	13.2	12.0	589	2.98	5.2	0.8	16.7	2.8	26	0.4	0.2	0.1	55	0.28
TSL 45282	Soil		0.9	122.0	5.6	178	<0.1	19.4	12.9	416	2.79	5.3	0.7	0.8	2.2	24	0.4	0.2	0.1	65	0.30





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**Client:** Underworld Resources, Inc.  
1500 - 409 Granville Street  
Vancouver BC V6C 1T2 Canada

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**Report Date:** August 01, 2009

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## CERTIFICATE OF ANALYSIS

VAN09003137.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.001	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
TSL 43761	Soil	0.023	4	15	0.15	141	0.048	<1	0.70	0.016	0.03	<0.1	0.02	1.8	<0.1	<0.05	5	<0.5
TSL 43762	Soil	0.072	108	9	0.16	1486	0.016	6	0.66	0.017	0.04	<0.1	0.09	3.4	<0.1	0.16	2	1.2
TSL 43763	Soil	0.047	23	16	0.38	507	0.044	3	1.13	0.026	0.08	<0.1	0.05	6.3	<0.1	0.09	4	0.7
TSL 43764	Soil	0.031	8	14	0.42	264	0.061	2	1.20	0.025	0.17	<0.1	0.03	6.4	<0.1	<0.05	5	0.6
TSL 43765	Soil	0.024	10	23	0.53	344	0.066	3	1.62	0.037	0.06	<0.1	0.02	8.9	<0.1	<0.05	6	<0.5
TSL 43766	Soil	0.042	10	16	0.54	715	0.045	3	1.29	0.038	0.06	0.2	0.04	7.8	<0.1	0.07	5	0.7
TSL 42905	Soil	0.040	6	12	0.21	148	0.064	2	1.00	0.012	0.13	0.1	0.03	3.7	0.1	0.06	7	0.6
TSL 42972	Soil	0.031	12	16	0.46	222	0.095	2	1.38	0.012	0.16	<0.1	0.01	3.0	0.1	<0.05	7	<0.5
TSL 42976	Soil	0.025	13	21	0.44	212	0.071	2	1.58	0.009	0.08	0.1	0.03	4.2	<0.1	<0.05	6	0.7
TSL 42978	Soil	0.038	7	40	0.70	122	0.102	2	1.75	0.014	0.05	0.1	0.01	2.9	<0.1	<0.05	6	<0.5
TSL 42988	Soil	0.039	8	18	0.53	134	0.075	1	1.42	0.016	0.06	<0.1	0.01	3.2	<0.1	<0.05	5	<0.5
TSL 42996	Soil	0.036	6	15	0.20	95	0.058	2	1.09	0.010	0.06	<0.1	0.02	2.0	<0.1	<0.05	7	<0.5
TSL 42997	Soil	0.053	16	19	0.38	224	0.061	1	1.64	0.013	0.09	0.2	0.04	3.8	0.1	<0.05	7	<0.5
TSL 42998	Soil	0.047	16	19	0.44	208	0.093	1	1.58	0.013	0.13	0.1	0.02	3.3	0.1	<0.05	7	<0.5
TSL 42999	Soil	0.030	12	16	0.47	203	0.086	2	1.52	0.011	0.14	<0.1	0.03	3.2	0.1	<0.05	6	<0.5
TSL 45268	Soil	0.036	13	20	0.57	276	0.076	<1	1.73	0.016	0.10	<0.1	0.03	4.1	<0.1	<0.05	6	<0.5
TSL 45282	Soil	0.040	9	44	0.62	151	0.096	1	1.72	0.021	0.05	<0.1	0.02	3.6	<0.1	<0.05	6	<0.5



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1020 Cordova St. East Vancouver BC V6A 4A3 Canada

Phone (604) 253-3158 Fax (604) 253-1716

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1500 - 409 Granville Street

Vancouver BC V6C 1T2 Canada

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## QUALITY CONTROL REPORT

VAN09003137.1

	Method Analyte Unit MDL	WGHT	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15
		Wgt	Mo	Cu	Pb	Zn	Ag	Ni	Co	Mn	Fe	As	U	Au	Th	Sr	Cd	Sb	Bi	V	Ca
		kg	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppb	ppm	ppm	ppm	ppm	ppm	ppm	%
		0.01	0.1	0.1	0.1	1	0.1	0.1	0.1	1	0.01	0.5	0.1	0.5	0.1	1	0.1	0.1	0.1	2	0.01
Pulp Duplicates																					
TSL 42590	Soil		0.8	40.9	8.6	93	<0.1	16.7	10.2	330	2.80	7.6	0.6	6.0	2.1	18	0.2	0.4	0.1	66	0.22
REP TSL 42590	QC		0.8	38.5	8.3	92	<0.1	15.9	10.5	332	2.82	7.5	0.6	4.6	1.9	19	0.2	0.4	0.2	67	0.23
TSL 42755	Soil		0.7	29.0	10.5	81	<0.1	16.0	8.4	432	3.24	6.0	0.7	3.4	3.5	12	0.1	0.4	0.2	53	0.13
REP TSL 42755	QC		0.7	28.4	10.4	86	<0.1	16.1	8.3	435	3.21	6.3	0.7	2.4	3.7	12	0.2	0.4	0.2	54	0.14
TSL 43789	Soil		0.8	24.6	12.2	63	<0.1	25.8	12.7	317	3.09	4.1	1.1	0.7	8.3	24	<0.1	0.3	0.2	69	0.38
REP TSL 43789	QC		0.8	26.2	11.9	62	<0.1	25.0	12.2	327	3.13	4.4	1.1	1.3	8.5	24	<0.1	0.3	0.2	73	0.40
TSL 38478	Soil		0.9	18.8	12.3	55	<0.1	13.5	9.0	428	2.56	5.5	1.4	3.2	4.6	31	<0.1	0.3	0.1	48	0.41
REP TSL 38478	QC		0.8	18.3	12.2	54	<0.1	13.1	8.9	420	2.56	5.5	1.3	1.9	4.4	31	<0.1	0.3	0.2	48	0.41
TSL 42647	Soil		0.7	26.1	19.3	74	0.1	13.6	7.9	267	2.97	5.4	0.5	3.0	2.4	19	<0.1	0.3	0.2	65	0.25
REP TSL 42647	QC		0.7	25.4	18.3	76	0.1	12.6	8.0	259	2.94	5.2	0.5	2.4	2.2	18	0.1	0.3	0.2	63	0.23
Reference Materials																					
STD DS7	Standard		22.6	115.9	74.4	398	0.9	61.6	10.1	662	2.48	48.8	5.3	78.9	4.7	78	6.2	5.9	4.6	100	1.01
STD DS7	Standard		20.3	107.4	68.2	402	0.9	58.0	9.7	665	2.49	53.6	4.7	69.2	4.1	78	6.4	6.0	4.6	88	0.98
STD DS7	Standard		19.7	104.9	64.3	371	0.8	54.2	9.3	621	2.37	51.3	4.6	58.2	4.2	81	6.3	6.0	4.5	78	0.97
STD DS7	Standard		21.6	112.2	70.4	415	1.0	60.5	10.1	682	2.61	53.7	5.2	81.2	4.8	84	6.6	6.3	4.6	90	1.06
STD DS7 Expected			20.5	109	70.6	411	0.9	56	9.7	627	2.39	48.2	4.9	70	4.4	69	6.4	4.6	4.5	84	0.93
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01
BLK	Blank		<0.1	<0.1	<0.1	<1	<0.1	<0.1	<0.1	<1	<0.01	<0.5	<0.1	<0.5	<0.1	<1	<0.1	<0.1	<0.1	<2	<0.01



Acme Analytical Laboratories (Vancouver) Ltd.

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1500 - 409 Granville Street  
Vancouver BC V6C 1T2 Canada

Project: TSL  
Report Date: August 01, 2009

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## QUALITY CONTROL REPORT

VAN09003137.1

	Method Analyte Unit MDL	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	1DX15	
		P	La	Cr	Mg	Ba	Ti	B	Al	Na	K	W	Hg	Sc	Tl	S	Ga	Se
		%	ppm	ppm	%	ppm	%	ppm	%	%	%	ppm	ppm	ppm	ppm	%	ppm	ppm
		0.001	1	1	0.01	1	0.001	1	0.01	0.001	0.01	0.1	0.01	0.1	0.1	0.05	1	0.5
Pulp Duplicates																		
TSL 42590	Soil	0.041	8	25	0.56	189	0.071	<1	1.78	0.014	0.05	0.1	0.01	3.2	<0.1	<0.05	5	0.7
REP TSL 42590	QC	0.040	9	25	0.56	192	0.078	<1	1.79	0.014	0.06	0.1	0.02	3.3	<0.1	<0.05	6	<0.5
TSL 42755	Soil	0.023	8	22	0.48	141	0.082	1	2.02	0.010	0.23	<0.1	0.02	3.3	0.1	<0.05	7	<0.5
REP TSL 42755	QC	0.023	8	23	0.49	137	0.084	1	2.03	0.009	0.23	0.1	0.01	3.3	0.1	<0.05	7	<0.5
TSL 43789	Soil	0.024	36	49	0.71	147	0.094	<1	1.99	0.015	0.08	<0.1	0.02	3.7	0.1	<0.05	7	<0.5
REP TSL 43789	QC	0.024	37	50	0.70	153	0.093	<1	1.93	0.015	0.09	<0.1	0.01	3.7	0.2	<0.05	7	<0.5
TSL 38478	Soil	0.037	17	24	0.48	262	0.098	1	1.64	0.017	0.14	0.1	0.02	4.7	<0.1	<0.05	6	<0.5
REP TSL 38478	QC	0.037	18	23	0.49	271	0.100	1	1.63	0.019	0.13	0.1	0.03	4.7	0.1	<0.05	6	0.5
TSL 42647	Soil	0.031	9	21	0.47	189	0.101	2	2.02	0.016	0.07	0.1	0.02	3.8	<0.1	<0.05	8	<0.5
REP TSL 42647	QC	0.030	9	21	0.47	183	0.093	<1	1.91	0.015	0.07	<0.1	0.02	3.6	<0.1	<0.05	7	<0.5
Reference Materials																		
STD DS7	Standard	0.076	14	242	1.05	426	0.138	39	1.05	0.106	0.49	3.9	0.20	2.6	4.6	0.22	5	4.3
STD DS7	Standard	0.077	14	218	1.04	399	0.126	38	1.05	0.105	0.47	3.8	0.19	3.1	4.1	0.15	5	3.6
STD DS7	Standard	0.074	14	201	1.02	415	0.121	37	1.05	0.101	0.46	3.6	0.20	2.6	4.0	0.17	5	3.9
STD DS7	Standard	0.085	15	229	1.14	428	0.138	39	1.16	0.113	0.50	4.0	0.22	3.0	4.4	0.22	6	4.1
STD DS7 Expected		0.08	12	179	1.05	370	0.124	39	0.959	0.089	0.44	3.4	0.2	2.5	4.2	0.19	5	3.5
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5
BLK	Blank	<0.001	<1	<1	<0.01	<1	<0.001	<1	<0.01	<0.001	<0.01	<0.1	<0.01	<0.1	<0.1	<0.05	<1	<0.5