

Attachment D7-3

LABORATORY ANALYSIS

List of Abbreviations and Acronyms

ABDPTA	Ammonium Bicarbonate Diethylenetriaminepentaacetic Acid
EC	electrical conductivity
L	Loam
meq/L	milli equivalents per Liter
mg/kg	milligrams per kilogram
mg/kg-dry	milligrams per kilogram dry soil
mmhos/cm	millimhos per centimeter
PQL	Practical Quantitation Limit
SAR	Sodium Adsorption Ratio
SatPst (Sat. Paste)	Saturated Paste
SCL	Sandy Clay Loam
SiL	Silt Loam
SL	Sandy Loam
s.u.	standard units
t/kt	tons per 100 tons

Analyte	PQL	Units	Sample Location ID		
			LCSP1A	LCSP1B1	LCSP3A
Acid Potential	1	t/kt	0	0	0
Acid/Base Potential	-1000	t/kt	5	5	6
Lime as CaCO ₃	0.1	percent	0.5	0.5	0.6
Neutralization Potential	1	t/kt	5	5	6
Calcium, sat. paste	0.05	meq/L	2.8	1.7	2.1
Conductivity, paste extract	0.01	mmhos/cm	0.40	0.27	0.39
Magnesium, sat. paste	0.08	meq/L	1.3	0.31	0.85
pH, sat. paste	0.1	s.u.	6.7	6.7	7.1
Saturation Percentage	0.1	percent	25.6	24.8	24.1
Sodium Adsorption Ratio (SAR)	0.01	unitless	0.23	0.51	0.80
Sodium, sat. paste	0.04	meq/L	0.33	0.51	0.97
Nitrate as N, KCL Extract	1.0	mg/kg	1.7	1.3	<1.0
Boron	0.20	mg/kg-dry	0.27	0.30	0.25
Arsenic	0.002	mg/kg-dry	0.037	0.038	0.036
Molybdenum	0.1	mg/kg-dry	<0.1	<0.1	<0.1
Selenium	0.007	mg/kg-dry	0.021	0.035	0.022
Clay	1.0	percent	17	20	15
Coarse Fragments	1.0	percent	4.0	3.9	4.6
Sand	1.0	percent	33	56	74
Silt	1.0	percent	50	24	11
Texture	1.0	percent	SiL - L	SL - SCL	SL
Organic Matter, Total (TOM)	0.10	percent	1.5	0.81	0.69

Analyte	PQL	Units	Sample Location ID									
			LCSP3B	LCSP5AB	LCSP5B1	LCSP5B2	LCSP6AB	LCSP6B1	LCSP6B2	LCSP7AB	LCSP7B1	LCSP7B2
Acid Potential	1	t/kt	0	0	0	0	0	0	0	0	0	0
Acid/Base Potential	-1000	t/kt	28	5	17	17	6	7	7	5	4	3
Lime as CaCO ₃	0.1	percent	2.8	0.5	1.7	1.7	0.6	0.7	0.7	0.5	0.4	0.3
Neutralization Potential	1	t/kt	28	5	17	17	6	7	7	5	4	3
Calcium, sat. paste	0.05	meq/L	2.6	3.2	7	21	2.5	1.5	2	5.6	4.3	1.9
Conductivity, paste extract	0.01	mmhos/cm	0.84	0.51	1.24	4.89	0.42	0.31	0.9	0.83	0.92	0.36
Magnesium, sat. paste	0.08	meq/L	0.76	1.4	2.4	8.9	1.3	0.77	0.98	2.7	2	0.85
pH, sat. paste	0.1	s.u.	8.1	7.7	8.2	7.9	7.5	7.9	8.3	6.6	8.3	8.1
Saturation Percentage	0.1	percent	37.5	20	21.9	25.8	25.9	24.9	31.4	17.6	22.8	34.3
Sodium Adsorption Ratio (SAR)	0.01	unitless	4.72	0.55	0.81	6.1	0.32	1.23	5.7	0.48	0.42	0.42
Sodium, sat. paste	0.04	meq/L	6.1	0.83	1.8	24	0.44	1.3	6.9	0.98	0.74	0.49
Nitrate as N, KCL Extract	1.0	mg/kg	1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Boron	0.20	mg/kg-dry	0.43	0.27	0.28	1.4	0.27	0.33	0.53	0.4	<0.20	0.35
Arsenic	0.002	mg/kg-dry	0.085	0.079	0.085	0.138	0.05	0.047	0.02	0.056	0.03	0.027
Molybdenum	0.1	mg/kg-dry	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Selenium	0.007	mg/kg-dry	0.009	0.026	0.022	0.066	0.016	<0.007	0.011	0.023	0.011	<0.007
Clay	1.0	percent	15	15	20	19	16	17	14	22	22	21
Coarse Fragments	1.0	percent	24	2.6	4.9	24	5.8	7.8	5.5		1.8	
Sand	1.0	percent	45	82	62	72	66	63	81	58	51	62
Silt	1.0	percent	40	3	18	9	18	20	5	20	27	17
Texture	1.0	percent	L	SL	SL - SCL	SL	SL	SL	SL	SCL	SCL	SCL
Organic Matter, Total (TOM)	0.10	percent	0.47	0.84	0.57	0.58	0.84	0.51	0.35	1.1	0.27	0.41

Analyte	PQL	Units	Sample Location ID									
			LCSP11A	LCSP11B1	LCSP11B2	LCSP13AB	LCSP13B	LCSP13BD	LCSP14A	LCSP14AB	LCSP14B	LCSP14B
Acid Potential	1	t/kt	0	0	0	0	0	0	0	0	0	0
Acid/Base Potential	-1000	t/kt	8	11	8	2	8	8	3	13	7	3
Lime as CaCO ₃	0.1	percent	0.8	1.1	0.8	0.2	0.8	0.8	0.3	1.3	0.7	0.3
Neutralization Potential	1	t/kt	8	11	8	2	8	8	3	13	7	3
Calcium, sat. paste	0.05	meq/L	4.4	4.6	0.99	4	0.61	8.8	2.8	0.88	3.9	1.8
Conductivity, paste extract	0.01	mmhos/cm	0.94	0.92	0.4	0.51	0.54	1.67	0.36	0.59	0.92	0.35
Magnesium, sat. paste	0.08	meq/L	2.1	2	0.3	1.7	0.3	3.6	1.1	0.79	2.5	0.99
pH, sat. paste	0.1	s.u.	7.3	8.2	8.7	6.9	7.8	7.8	7.2	8	8.2	8.4
Saturation Percentage	0.1	percent	24.5	27.6	31	18	15.7	17.3	20.8	27.4	22	26.6
Sodium Adsorption Ratio (SAR)	0.01	unitless	0.42	0.95	4.76	0.28	0.3	0.32	0.32	5.47	1.05	0.98
Sodium, sat. paste	0.04	meq/L	0.76	1.7	3.8	0.47	0.2	0.79	0.44	5	1.9	1.1
Nitrate as N, KCL Extract	1.0	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Boron	0.20	mg/kg-dry	0.25	<0.20	<0.20	0.26	0.27	0.32	0.4	<0.20	0.36	<0.20
Arsenic	0.002	mg/kg-dry	0.061	0.079	0.09	0.044	0.044	0.046	0.037	0.041	0.037	0.021
Molybdenum	0.1	mg/kg-dry	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Selenium	0.007	mg/kg-dry	0.021	0.013	<0.007	<0.007	0.013	0.024	0.015	0.01	<0.007	<0.007
Clay	1.0	percent	18	28	9	15	20	17	23	13	17	20
Coarse Fragments	1.0	percent	10	39	5.6		3.1	3		8.3	1.8	
Sand	1.0	percent	82	48	87	67	47	61	56	77	76	71
Silt	1.0	percent	<1.0	24	4	18	33	22	21	10	7	9
Texture	1.0	percent	SL	SCL	LS	SL	L	SL	SCL	SL	SL	SL - SCL
Organic Matter, Total (TOM)	0.10	percent	0.93	0.51	0.11	1.1	0.53	0.68	1.1	0.22	0.23	0.41

The laboratory analytical reports below include samples from the Lost Creek Permit Area and also samples from an unrelated site. Results from all samples outside the Lost Creek Permit Area have been redacted from the reports.

LABORATORY ANALYTICAL REPORT

Client: AATA International Inc
Project: URE
Workorder: C07061164

Report Date: 07/13/07
Date Received: 06/21/07

Sample ID	Client Sample ID	Analysis	EC SatPst	Saturation SatPst	pH SatPst	NO3-N KCL	Ca SatPst	Mg SatPst	Na SatPst	SAR	Neut Potential	Acid Potential	Acid/Base Potential	As-ABDPTA	Mo-ABDPTA
		Units	mmhos/cm	%	s_u_	mg/kg-dry	meq/L	meq/L	meq/L	unitless	t/kt	t/kt	t/kt	mg/kg-dry	mg/kg-dry
		Results	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results
C07061164-001	LCSP 17A	0.38	27.6	6.6	1.3	3.0	1.2	0.56	0.39	11	0	11	0.038	< 0.1	
C07061164-002	LCSP 17B	0.82	30.2	8.0	< 1.0	4.2	0.84	6.3	3.99	17	0	17	0.069	< 0.1	
C07061164-003	LCSP 19A	0.31	32.1	6.4	1.5	2.2	0.99	0.34	0.27	8	0	8	0.026	< 0.1	
C07061164-004	LCSP 19B	0.18	24.2	7.0	1.2	1.2	0.46	0.37	0.41	6	0	6	0.017	< 0.1	
[REDACTED]															
C07061164-012	LCSP 19BL	0.13	32.6	7.7	1.1	0.50	0.16	0.34	0.60	8	0	8	< 0.002	< 0.1	

LABORATORY ANALYTICAL REPORT

Client: AATA International Inc
Project: URE
Workorder: C07061164

Report Date: 07/13/07
Date Received: 06/21/07

Sample ID	Client Sample ID	Analysis	Se-ABDPTA	B-CACL2	Very Fine Sand	Sand	Silt	Clay	Texture	Coarse Frags	Organic Matter
		Units	mg/kg-dry	mg/kg-dry	%	%	%	%		%	%
		Results	Results	Results	Results	Results	Results	Results	Results	Results	Results
C07061164-001	LCSP 17A	0.011	< 0.20	< 1.0	72	13	15	SL	6.2	1.0	
C07061164-002	LCSP 17B	0.008	0.25	9.4	83	6.0	11	LS	6.6	< 0.2	
C07061164-003	LCSP 19A	< 0.007	< 0.20	< 1.0	71	18	11	SL	5.3	0.9	
C07061164-004	LCSP 19B	< 0.007	< 0.20	13	88	6.0	6.0	LS	11	< 0.2	
C07061164-012	LCSP 19BL	< 0.007	0.32	30	100	< 1.0	< 1.0	S	< 1.0	< 0.2	

LABORATORY ANALYTICAL REPORT

Client: AATA International Inc
Project: 301-UR Energy
Workorder: C06061413

Report Date: 07/28/06
Date Received: 06/27/06

Sample ID	Client Sample ID	Analysis	Saturation SatPst	EC SatPst	Lime as CaCO3	pH SatPst	NO3-N KCL	Ca SatPst	Mg SatPst	Na SatPst	SAR	Neut Potential	Acid Potential	Acid/Base Potential	As-ABDPTA
		Units	%	mmhos/cm	%	s_u_	mg/kg	meq/L	meq/L	meq/L	unitless	t/kt	t/kt	t/kt	mg/kg-dry
		Results	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results
C06061413-001	LCDAB	20.0	0.51	0.5	7.7	< 1.0	3.2	1.4	0.83	0.55	5	0	5	0.079	
C06061413-002	LCDB1	21.9	1.24	1.7	8.2	< 1.0	7.0	2.4	1.8	0.81	17	0	17	0.085	
C06061413-003	LCDB2	25.8	4.89	1.7	7.9	< 1.0	21	8.9	24	6.10	17	0	17	0.138	
C06061413-004	LCFB1	22.8	0.92	0.4	8.3	< 1.0	4.3	2.0	0.74	0.42	4	0	4	0.030	
C06061413-005	LCJA	24.5	0.94	0.8	7.3	< 1.0	4.4	2.1	0.76	0.42	8	0	8	0.061	
C06061413-006	LCJB1	27.6	0.92	1.1	8.2	< 1.0	4.6	2.0	1.7	0.95	11	0	11	0.079	
C06061413-007	LCLB	15.7	0.54	0.8	7.8	< 1.0	0.61	0.30	0.20	0.30	8	0	8	0.044	
C06061413-008	LCLBD	17.3	1.67	0.8	7.8	< 1.0	8.8	3.6	0.79	0.32	8	0	8	0.046	
C06061413-009	LCMAB	18.9	0.51	0.5	8.3	< 1.0	3.5	1.6	0.76	0.48	5	0	5	0.055	
C06061413-010	LCMB	22.0	0.92	0.7	8.2	< 1.0	3.9	2.5	1.9	1.05	7	0	7	0.037	

LABORATORY ANALYTICAL REPORT

Client: AATA International Inc
Project: 301-UR Energy
Workorder: C06061413

Report Date: 07/28/06
Date Received: 06/27/06

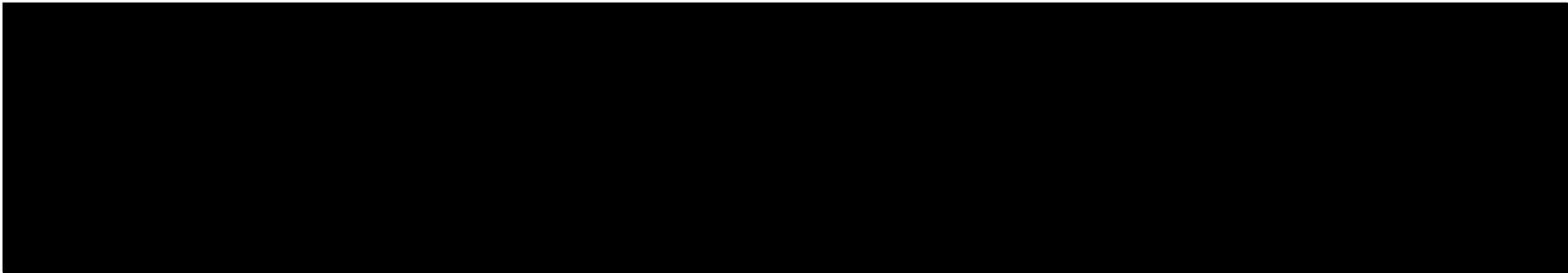
Sample ID	Client Sample ID	Analysis	Mo-ABDPTA	Se-ABDPTA	B-CACL2	Sand	Silt	Clay	Texture	Coarse Frags	Organic Carbon
		Units	mg/kg-dry	mg/kg-dry	mg/kg-dry	%	%	%	%	%	%
		Results	Results	Results	Results	Results	Results	Results	Results	Results	Results
C06061413-001	LCDAB	< 0.1	0.026	0.27	82	3.0	15		SL	2.6	0.84
C06061413-002	LCDB1	< 0.1	0.022	0.28	62	18	20		SL - SCL	4.9	0.57
C06061413-003	LCDB2	< 0.1	0.066	1.4	72	9.0	19		SL	24	0.58
C06061413-004	LCFB1	< 0.1	0.011	< 0.20	51	27	22		SCL	1.8	0.27
C06061413-005	LCJA	< 0.1	0.021	0.25	82	< 1.0	18		SL	10	0.93
C06061413-006	LCJB1	< 0.1	0.013	< 0.20	48	24	28		SCL	39	0.51
C06061413-007	LCLB	< 0.1	0.013	0.27	47	33	20		L	3.1	0.53
C06061413-008	LCLBD	< 0.1	0.024	0.32	61	22	17		SL	3.0	0.68
C06061413-009	LCMAB	< 0.1	0.015	< 0.20	57	25	18		SL	3.3	0.42
C06061413-010	LCMB	< 0.1	< 0.007	0.36	76	7.0	17		SL	1.8	0.23

LABORATORY ANALYTICAL REPORT

Client: AATA International Inc
Project: 301-UR Energy
Workorder: C06061412

Report Date: 07/31/06
Date Received: 06/27/06

Sample ID	Client Sample ID	Analysis	Saturation SatPst	EC SatPst	Lime as CaCO3	pH SatPst	NO3-N KCL	Ca SatPst	Mg SatPst	Na SatPst	SAR	Neut Potential	Acid Potential	Acid/Base Potential	As-ABDPTA
		Units	%	mmhos/cm	%	s_u_	mg/kg	meq/L	meq/L	meq/L	unitless	t/kt	t/kt	t/kt	mg/kg-dry
		Results	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results	Results
C06061412-001	LCEAB	25.9	0.42	0.6	7.5	< 1.0	2.5	1.3	0.44	0.32	6	0	6	0.050	
C06061412-002	LCEB1	24.9	0.31	0.7	7.9	< 1.0	1.5	0.77	1.3	1.23	7	0	7	0.047	
C06061412-003	LCEB2	31.4	0.90	0.7	8.3	< 1.0	2.0	0.98	6.9	5.70	7	0	7	0.020	
C06061412-004	LCJB2	31.0	0.40	0.8	8.7	< 1.0	0.99	0.30	3.8	4.76	8	0	8	0.090	



LABORATORY ANALYTICAL REPORT

Client: AATA International Inc
Project: 301-UR Energy
Workorder: C06061412

Report Date: 07/31/06
Date Received: 06/27/06

Sample ID	Client Sample ID	Analysis	Mo- ABDPTA	Se- ABDPTA	B-CACL2	Sand	Silt	Clay	Texture	Coarse Fraggs	Organic Carbon
		Units	mg/kg-dry	mg/kg-dry	mg/kg-dry	%	%	%	%	%	%
		Results	Results	Results	Results	Results	Results	Results	Results	Results	Results
C06061412-001	LCEAB	< 0.1	0.016	0.27	66	18	16	SL	5.8	0.84	
C06061412-002	LCEB1	< 0.1	< 0.007	0.33	63	20	17	SL	7.8	0.51	
C06061412-003	LCEB2	< 0.1	0.011	0.53	81	5.0	14	SL	5.5	0.35	
C06061412-004	LCJB2	< 0.1	< 0.007	< 0.20	87	4.0	9.0	LS	5.6	0.11	

