

Analysis Report

CANTEST®

CANTEST LTD.

REPORT ON: Analysis of Tissue Samples

REPORTED TO: Environmental Dynamics
3128 3rd Ave
Whitehorse, YK
Y1A 1E7

Att'n: Pat Tobler

CHAIN OF CUSTODY: 192253
PROJECT NAME: Mt. Nansen Teer Effects
PROJECT NUMBER: 06-YC-0027
P.O. NUMBER: 00010258

Professional
Analytical
Services

4606 Canada Way
Burnaby, B.C.
V5G 1K5

Fax: 604 731 2386

tel: 604 734 7276

1 800 665 8566

NUMBER OF SAMPLES: 16

REPORT DATE: July 4, 2006

DATE SUBMITTED: June 16, 2006

GROUP NUMBER: 70619071

SAMPLE TYPE: Moss/Tissue

NOTE: Results contained in this report refer only to the testing of samples as submitted. Other information is available on request.

TEST METHODS:

Moisture Content of Plant Tissue - analysis was performed gravimetrically by heating a pre-weighed portion of sample at 105C and measuring the weight loss.

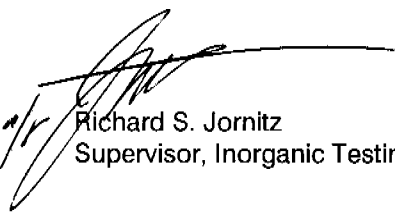
Mercury in Tissue - samples were digested using a nitric acid-hydrogen peroxide digestion procedure based on EPA Method 200.3. Analysis was performed using Cold Vapour Atomic Absorption Spectrophotometry or Cold Vapour Atomic Fluorescence Spectrophotometry.

Metals in Tissue - samples were digested using a nitric acid-hydrogen peroxide digestion procedure based on EPA Method 200.3. Analysis was performed using Inductively Coupled Argon Plasma Spectroscopy (ICP), ICP Mass Spectrometry (ICP/MS), or Atomic Absorption techniques.

TEST RESULTS:

(See following pages)

CANTEST LTD.


Richard S. Jornitz
Supervisor, Inorganic Testing

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REPORT DATE: July 4, 2006

GROUP NUMBER: 70619071

Conventional Parameters in Tissue

CLIENT SAMPLE IDENTIFICATION:	CANTEST ID	Moisture
Pit Moss #1	606190322	7.4
Pit Moss #2	606190325	7.9
Pit Moss #3	606190326	8.5
Pit Moss #4	606190327	8.5
Pond Moss #1	606190328	8.5
Pond Moss #2	606190329	7.5
Pond Moss #3	606190330	8.1
Pond Moss #4	606190331	8.7
Mill Moss #1	606190332	8.0
Mill Moss #2	606190333	8.6
Mill Moss #3	606190334	8.4
Mill Moss #4	606190335	7.7
Raw Moss #1	606190336	5.6
Raw Moss #2	606190337	5.5
Raw Moss #3	606190338	4.7
Raw Moss #4	606190339	5.0
DETECTION LIMIT UNITS		0.1 %

% = percent



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Metals Analysis in Tissue

CLIENT SAMPLE IDENTIFICATION:		Pit Moss #1	Pit Moss #2	Pit Moss #3	Pit Moss #4	DETECTION LIMIT
CANTEST ID:		606190322	606190325	606190326	606190327	
Aluminum	Al	510	561	538	559	0.5
Antimony	Sb	0.1	0.2	<	<	0.1
Arsenic	As	0.5	1.7	0.4	0.5	0.1
Barium	Ba	42.6	40.1	38.9	38.3	0.1
Beryllium	Be	<	<	<	<	0.02
Boron	B	5	5	5	5	2
Cadmium	Cd	0.12	0.13	0.09	0.10	0.02
Calcium	Ca	6910	6440	6710	6420	1
Chromium	Cr	1.2	1.2	1.1	1.1	0.1
Cobalt	Co	0.4	0.4	0.4	0.4	0.1
Copper	Cu	15.2	13.8	14.1	14.3	0.1
Iron	Fe	735	747	629	668	5
Lead	Pb	1.5	2.6	1.5	1.3	0.1
Magnesium	Mg	1740	1780	1930	1810	0.5
Manganese	Mn	75.4	79.7	64.4	67.3	0.1
Mercury	Hg	<	<	<	0.021	0.01
Molybdenum	Mo	0.4	0.4	0.4	0.4	0.1
Nickel	Ni	1.4	1.4	1.3	1.5	0.1
Phosphorus	P	863	891	933	905	0.5
Potassium	K	1630	1600	1670	1680	1
Selenium	Se	<	<	<	<	0.2
Silicon	Si	259	267	421	291	10
Silver	Ag	0.03	0.04	0.02	0.02	0.01
Sodium	Na	160	180	171	164	1
Strontium	Sr	35.4	34.5	36.0	34.6	0.05
Tellurium	Te	<	<	<	<	0.1
Thallium	Tl	<	<	<	<	0.02
Tin	Sn	0.2	0.7	0.1	0.2	0.1
Titanium	Ti	21.5	20.0	22.1	22.2	0.3
Uranium	U	<	<	<	<	0.04
Vanadium	V	1.7	1.6	1.5	1.6	0.5
Zinc	Zn	19.0	21.5	17.3	17.7	0.5
Zirconium	Zr	<	<	<	<	3

Results expressed as micrograms per gram, dry basis ($\mu\text{g/g}$)

< = Less than detection limit



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Metals Analysis in Tissue

CLIENT SAMPLE IDENTIFICATION:		Pond Moss #1	Pond Moss #2	Pond Moss #3	Pond Moss #4	DETECTION LIMIT
CANTEST ID:		606190328	606190329	606190330	606190331	
Aluminum	Al	468	504	602	476	0.5
Antimony	Sb	0.1	0.1	<	0.1	0.1
Arsenic	As	0.5	0.7	0.3	0.3	0.1
Barium	Ba	35.7	37.5	39.3	36.3	0.1
Beryllium	Be	<	<	<	<	0.02
Boron	B	5	5	5	5	2
Cadmium	Cd	0.10	0.09	0.10	0.10	0.02
Calcium	Ca	6230	6310	6810	6270	1
Chromium	Cr	1.2	1.1	1.3	1.0	0.1
Cobalt	Co	0.3	0.4	0.4	0.4	0.1
Copper	Cu	14.1	12.8	14.0	14.3	0.1
Iron	Fe	595	613	711	599	5
Lead	Pb	1.7	1.4	1.3	2.0	0.1
Magnesium	Mg	1700	1780	1990	1760	0.5
Manganese	Mn	65.9	61.5	66.1	70.2	0.1
Mercury	Hg	0.025	<	<	<	0.01
Molybdenum	Mo	0.4	0.4	0.4	0.4	0.1
Nickel	Ni	1.3	1.2	1.3	1.2	0.1
Phosphorus	P	873	873	930	926	0.5
Potassium	K	1680	1550	1640	1710	1
Selenium	Se	<	<	<	<	0.2
Silicon	Si	230	233	266	232	10
Silver	Ag	0.03	0.02	0.03	0.04	0.01
Sodium	Na	175	157	180	176	1
Strontium	Sr	32.8	33.4	37.0	33.0	0.05
Tellurium	Te	<	<	<	<	0.1
Thallium	Tl	<	<	<	<	0.02
Tin	Sn	0.3	<	0.4	<	0.1
Titanium	Ti	19.0	21.5	23.8	19.6	0.3
Uranium	U	<	<	<	<	0.04
Vanadium	V	1.4	1.5	1.8	1.5	0.5
Zinc	Zn	19.9	20.8	18.0	18.5	0.5
Zirconium	Zr	<	<	<	<	3

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Metals Analysis in Tissue

CLIENT SAMPLE IDENTIFICATION:		Mill Moss #1	Mill Moss #2	Mill Moss #3	Mill Moss #4	DETECTION LIMIT
CANTEST ID:		606190332	606190333	606190334	606190335	
Aluminum	Al	425	453	397	489	0.5
Antimony	Sb	<	0.1	<	<	0.1
Arsenic	As	0.3	0.5	0.3	0.4	0.1
Barium	Ba	36.7	34.3	35.1	37.7	0.1
Beryllium	Be	<	<	<	<	0.02
Boron	B	5	5	5	5	2
Cadmium	Cd	0.09	0.10	0.10	0.10	0.02
Calcium	Ca	6120	6050	6000	6190	1
Chromium	Cr	1.0	1.0	0.9	1.0	0.1
Cobalt	Co	0.3	0.4	0.3	0.4	0.1
Copper	Cu	12.8	13.1	13.5	13.2	0.1
Iron	Fe	548	574	512	607	5
Lead	Pb	1.4	1.4	1.0	1.4	0.1
Magnesium	Mg	1690	1690	1600	1680	0.5
Manganese	Mn	61.9	66.9	64.9	67.3	0.1
Mercury	Hg	<	<	<	<	0.01
Molybdenum	Mo	0.4	0.3	0.3	0.4	0.1
Nickel	Ni	1.2	1.2	1.1	1.2	0.1
Phosphorus	P	913	901	863	900	0.5
Potassium	K	1580	1680	1720	1600	1
Selenium	Se	<	<	<	<	0.2
Silicon	Si	204	216	221	243	10
Silver	Ag	0.03	0.03	0.03	0.03	0.01
Sodium	Na	165	168	167	160	1
Strontium	Sr	32.3	32.1	31.9	33.1	0.05
Tellurium	Te	<	<	<	<	0.1
Thallium	Tl	<	<	<	<	0.02
Tin	Sn	0.1	0.1	<	0.3	0.1
Titanium	Ti	17.6	19.1	16.5	19.7	0.3
Uranium	U	<	<	<	<	0.04
Vanadium	V	1.3	1.4	1.3	1.5	0.5
Zinc	Zn	19.0	18.4	18.9	19.7	0.5
Zirconium	Zr	<	<	<	<	3

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Metals Analysis in Tissue

CLIENT SAMPLE IDENTIFICATION:		Raw Moss #1	Raw Moss #2	Raw Moss #3	Raw Moss #4	DETECTION LIMIT
CANTEST ID:		606190336	606190337	606190338	606190339	
Aluminum	Al	577	462	565	547	0.5
Antimony	Sb	<	<	<	<	0.1
Arsenic	As	0.3	0.2	0.3	0.3	0.1
Barium	Ba	39.5	35.2	40.0	39.7	0.1
Beryllium	Be	0.02	<	<	<	0.02
Boron	B	5	4	5	5	2
Cadmium	Cd	0.09	0.09	0.11	0.11	0.02
Calcium	Ca	6610	6120	6420	6570	1
Chromium	Cr	1.2	1.0	1.2	1.2	0.1
Cobalt	Co	0.4	0.3	0.4	0.4	0.1
Copper	Cu	13.5	12.9	14.0	13.1	0.1
Iron	Fe	667	557	633	652	5
Lead	Pb	1.6	0.8	1.1	0.8	0.1
Magnesium	Mg	1960	1740	1810	1840	0.5
Manganese	Mn	67.5	64.9	72.3	63.7	0.1
Mercury	Hg	<	<	0.022	0.023	0.01
Molybdenum	Mo	0.4	0.4	0.3	0.4	0.1
Nickel	Ni	1.3	1.1	1.3	1.3	0.1
Phosphorus	P	987	954	903	928	0.5
Potassium	K	1750	1720	1660	1640	1
Selenium	Se	<	<	<	<	0.2
Silicon	Si	298	223	405	251	10
Silver	Ag	0.03	0.03	0.02	0.02	0.01
Sodium	Na	173	169	179	158	1
Strontium	Sr	35.6	32.7	34.6	34.9	0.05
Tellurium	Te	<	<	<	<	0.1
Thallium	Tl	<	<	<	<	0.02
Tin	Sn	<	<	0.5	0.8	0.1
Titanium	Ti	22.6	18.5	22.3	21.6	0.3
Uranium	U	<	<	<	<	0.04
Vanadium	V	1.7	1.4	1.6	1.6	0.5
Zinc	Zn	18.2	17.0	17.8	18.1	0.5
Zirconium	Zr	<	<	<	<	3

Results expressed as micrograms per gram, dry basis ($\mu\text{g/g}$)

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REPORT DATE: November 6, 2006

GROUP NUMBER: 71023003

Conventional Parameters in Tissue

CLIENT SAMPLE IDENTIFICATION:	CANTEST ID	Moisture
MB-Oct06-T5	610230003	10.9
MB-Oct06-T6	610230004	12.9
MB-Oct06-T7	610230005	11.8
MB-Oct06-T2	610230006	12.3
MB-Oct06-T3	610230007	12.7
MB-Oct06-T4	610230008	14.7
MB-Oct06-T1	610230009	13.2
MB-Oct06-T8	610230010	12.0
MB-Oct06-P1	610230011	11.8
MB-Oct06-R1	610230012	17.7
MB-Oct06-M4	610230013	11.0
MB-Oct06-M6	610230014	9.7
MB-Oct06-M1	610230015	10.3
MB-Oct06-M5	610230016	8.5
MB-Oct06-P2	610230017	12.3
MB-Oct06-P3	610230018	12.9
MB-Oct06-M2	610230019	10.6
MB-Oct06-M8	610230020	11.7
MB-Oct06-P5	610230021	12.1
MB-Oct06-P7	610230022	12.5
MB-Oct06-R6	610230023	19.5
MB-Oct06-P4	610230024	12.0
MB-Oct06-R2	610230025	16.3
MB-Oct06-R4	610230026	18.2
MB-Oct06-P6	610230027	12.9
MB-Oct06-R3	610230028	20.3
MB-Oct06-P8	610230029	9.7
MB-Oct06-R5	610230030	17.6
MB-Oct06-M7	610230031	13.4
MB-Oct06-01	610230032	7.8
MB-Oct06-02	610230033	6.7
DETECTION LIMIT UNITS		0.1 %

% = percent

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GROUP NUMBER: 71023003

Metals Analysis in Tissue

CLIENT SAMPLE IDENTIFICATION:		MB-Oct06-T 5	MB-Oct06-T 6	MB-Oct06-T 7	MB-Oct06-T 2	DETECTION LIMIT
CANTEST ID:		610230003	610230004	610230005	610230006	
Aluminum	Al	554	565	514	643	0.5
Antimony	Sb	0.8	1.6	1.6	0.7	0.1
Arsenic	As	3.7	0.4	0.8	3.3	0.1
Barium	Ba	45.1	51.8	54.2	49.1	0.1
Beryllium	Be	0.02	0.02	<	0.03	0.02
Boron	B	4	4	5	5	2
Cadmium	Cd	0.22	0.19	0.16	0.21	0.02
Calcium	Ca	5890	6900	7170	6400	1
Chromium	Cr	1.9	1.8	2.6	2.5	0.1
Cobalt	Co	0.4	0.5	0.4	0.5	0.1
Copper	Cu	3.9	2.6	2.7	3.8	0.1
Iron	Fe	818	808	740	960	5
Lead	Pb	4.5	0.8	1.1	2.8	0.1
Magnesium	Mg	1650	1820	1660	1740	0.5
Manganese	Mn	133	148	138	138	0.1
Mercury	Hg	0.031	0.041	0.037	0.040	0.01
Molybdenum	Mo	0.2	0.3	0.2	0.3	0.1
Nickel	Ni	1.7	1.9	2.1	2.1	0.1
Phosphorus	P	1180	1310	1230	1210	0.5
Potassium	K	3270	3340	2900	3070	1
Selenium	Se	<	<	<	<	0.2
Silicon	Si	204	190	244	189	10
Silver	Ag	0.08	0.02	0.02	0.07	0.01
Sodium	Na	37	37	31	31	1
Strontium	Sr	32.4	37.1	36.5	34.2	0.05
Tellurium	Te	<	<	<	<	0.1
Thallium	Tl	0.02	<	<	0.04	0.02
Tin	Sn	<	<	<	<	0.1
Titanium	Ti	24.8	24.8	23.8	30.2	0.3
Uranium	U	<	<	<	0.05	0.04
Vanadium	V	1.9	1.8	1.7	2.1	0.5
Zinc	Zn	38.7	44.0	48.0	36.9	0.5
Zirconium	Zr	<	<	<	<	3

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Metals Analysis in Tissue

CLIENT SAMPLE IDENTIFICATION:		MB-Oct06-T 3	MB-Oct06-T 4	MB-Oct06-T 1	MB-Oct06-T 8	DETECTION LIMIT
CANTEST ID:		610230007	610230008	610230009	610230010	
Aluminum	Al	569	588	607	648	0.5
Antimony	Sb	1.4	1.7	0.5	2.9	0.1
Arsenic	As	10.1	7.2	0.9	0.9	0.1
Barium	Ba	47.8	51.2	48.9	51.2	0.1
Beryllium	Be	0.03	0.02	0.03	0.02	0.02
Boron	B	5	5	4	5	2
Cadmium	Cd	0.22	0.29	0.18	0.19	0.02
Calcium	Ca	6330	6640	6390	6990	1
Chromium	Cr	2.6	3.3	3.1	2.2	0.1
Cobalt	Co	0.5	0.5	0.5	0.5	0.1
Copper	Cu	6.6	4.4	2.6	3.0	0.1
Iron	Fe	945	952	884	954	5
Lead	Pb	8.4	7.9	0.9	0.9	0.1
Magnesium	Mg	1740	1760	1670	1550	0.5
Manganese	Mn	133	150	139	130	0.1
Mercury	Hg	0.043	0.038	0.039	0.047	0.01
Molybdenum	Mo	0.3	0.3	0.3	0.2	0.1
Nickel	Ni	2.1	2.5	2.4	2.2	0.1
Phosphorus	P	1210	1280	1180	1050	0.5
Potassium	K	3010	3370	3080	2260	1
Selenium	Se	<	<	<	<	0.2
Silicon	Si	199	207	188	199	10
Silver	Ag	0.17	0.11	0.02	0.02	0.01
Sodium	Na	34	33	29	52	1
Strontium	Sr	34.5	35.1	33.5	36.2	0.05
Tellurium	Te	<	<	<	<	0.1
Thallium	Tl	0.03	0.02	<	<	0.02
Tin	Sn	<	<	<	<	0.1
Titanium	Ti	26.0	26.9	30.2	32.4	0.3
Uranium	U	<	<	<	<	0.04
Vanadium	V	1.9	2.0	2.0	2.2	0.5
Zinc	Zn	43.6	47.2	34.9	51.8	0.5
Zirconium	Zr	<	<	<	<	3

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Metals Analysis in Tissue

CLIENT SAMPLE IDENTIFICATION:		MB-Oct06-P 1	MB-Oct06-R 1	MB-Oct06-M 4	MB-Oct06-M 6	DETECTION LIMIT
CANTEST ID:		610230011	610230012	610230013	610230014	
Aluminum	Al	748	622	459	635	0.5
Antimony	Sb	0.2	0.5	0.2	1.1	0.1
Arsenic	As	1.0	0.3	0.4	0.4	0.1
Barium	Ba	58.2	51.8	40.3	51.4	0.1
Beryllium	Be	0.03	0.02	<	0.02	0.02
Boron	B	5	4	4	5	2
Cadmium	Cd	0.22	0.18	0.17	0.18	0.02
Calcium	Ca	7450	6820	6270	6520	1
Chromium	Cr	2.6	3.2	1.6	2.4	0.1
Cobalt	Co	0.6	0.5	0.4	0.5	0.1
Copper	Cu	3.1	2.6	2.3	3.3	0.1
Iron	Fe	1070	881	671	869	5
Lead	Pb	1.4	0.7	0.7	0.8	0.1
Magnesium	Mg	2070	1890	1700	1800	0.5
Manganese	Mn	159	143	120	134	0.1
Mercury	Hg	0.048	0.039	0.036	0.035	0.01
Molybdenum	Mo	0.3	0.3	0.2	0.2	0.1
Nickel	Ni	2.4	2.5	1.7	2.1	0.1
Phosphorus	P	1450	1310	1210	1210	0.5
Potassium	K	3770	3430	3050	3190	1
Selenium	Se	<	<	<	<	0.2
Silicon	Si	212	184	187	194	10
Silver	Ag	0.03	0.02	0.02	0.02	0.01
Sodium	Na	28	31	25	33	1
Strontium	Sr	40.0	37.0	32.3	34.9	0.05
Tellurium	Te	<	<	<	<	0.1
Thallium	Tl	<	<	<	<	0.02
Tin	Sn	<	<	<	0.1	0.1
Titanium	Ti	33.7	27.7	20.3	27.9	0.3
Uranium	U	<	<	<	<	0.04
Vanadium	V	2.5	2.0	1.5	2.0	0.5
Zinc	Zn	35.2	35.4	31.9	44.7	0.5
Zirconium	Zr	<	<	<	<	3

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Metals Analysis in Tissue

CLIENT SAMPLE IDENTIFICATION:		MB-Oct06-M 1	MB-Oct06-M 5	MB-Oct06-P 2	MB-Oct06-P 3	DETECTION LIMIT
CANTEST ID:		610230015	610230016	610230017	610230018	
Aluminum	Al	596	605	662	753	0.5
Antimony	Sb	3.0	1.3	0.3	1.1	0.1
Arsenic	As	0.7	2.0	0.8	1.0	0.1
Barium	Ba	52.6	52.0	47.2	51.1	0.1
Beryllium	Be	0.02	0.03	0.03	0.03	0.02
Boron	B	12	5	4	6	2
Cadmium	Cd	0.19	0.21	0.19	0.21	0.02
Calcium	Ca	6840	6640	6620	6760	1
Chromium	Cr	2.0	1.9	3.1	3.4	0.1
Cobalt	Co	0.5	0.5	0.5	0.6	0.1
Copper	Cu	3.0	2.9	2.7	3.9	0.1
Iron	Fe	848	894	925	1030	5
Lead	Pb	1.0	1.5	1.0	1.3	0.1
Magnesium	Mg	1820	1790	1820	1840	0.5
Manganese	Mn	144	152	134	146	0.1
Mercury	Hg	0.047	0.040	0.039	0.042	0.01
Molybdenum	Mo	0.3	0.2	0.3	0.3	0.1
Nickel	Ni	2.0	2.0	2.5	2.6	0.1
Phosphorus	P	1220	1250	1290	1220	0.5
Potassium	K	3240	3180	3360	3100	1
Selenium	Se	<	<	<	<	0.2
Silicon	Si	172	143	164	197	10
Silver	Ag	0.02	0.03	0.03	0.03	0.01
Sodium	Na	43	38	29	73	1
Strontium	Sr	36.6	35.4	34.7	35.5	0.05
Tellurium	Te	<	<	<	<	0.1
Thallium	Tl	<	<	0.03	<	0.02
Tin	Sn	<	<	<	<	0.1
Titanium	Ti	26.8	27.7	28.9	32.8	0.3
Uranium	U	<	<	<	<	0.04
Vanadium	V	1.9	2.0	2.1	2.4	0.5
Zinc	Zn	46.9	48.3	34.7	42.9	0.5
Zirconium	Zr	<	<	<	<	3

Results expressed as micrograms per gram, dry basis (µg/g)

< = Less than detection limit

REPORTED TO: Environmental Dynamics



REPORT DATE: November 6, 2006

GROUP NUMBER: 71023003

Metals Analysis in Tissue

CLIENT SAMPLE IDENTIFICATION:		MB-Oct06-M 2	MB-Oct06-M 8	MB-Oct06-P 5	MB-Oct06-P 7	DETECTION LIMIT
CANTEST ID:		610230019	610230020	610230021	610230022	
Aluminum	Al	734	611	625	643	0.5
Antimony	Sb	0.2	0.3	0.4	0.3	0.1
Arsenic	As	0.7	1.0	0.3	0.4	0.1
Barium	Ba	57.2	56.5	48.4	51.5	0.1
Beryllium	Be	0.03	0.02	0.02	<	0.02
Boron	B	6	5	4	4	2
Cadmium	Cd	0.21	0.19	0.19	0.17	0.02
Calcium	Ca	7310	7660	6360	6790	1
Chromium	Cr	2.4	2.3	2.1	2.1	0.1
Cobalt	Co	0.5	0.5	0.5	0.5	0.1
Copper	Cu	2.9	2.8	2.6	2.7	0.1
Iron	Fe	963	863	886	891	5
Lead	Pb	1.1	1.3	0.7	0.7	0.1
Magnesium	Mg	2080	1960	1700	1740	0.5
Manganese	Mn	153	158	124	132	0.1
Mercury	Hg	0.041	0.042	0.043	0.040	0.01
Molybdenum	Mo	0.3	0.3	0.2	0.3	0.1
Nickel	Ni	2.2	2.1	2.0	2.1	0.1
Phosphorus	P	1500	1350	1170	1180	0.5
Potassium	K	4040	3470	2950	3030	1
Selenium	Se	<	<	<	<	0.2
Silicon	Si	196	181	155	176	10
Silver	Ag	0.03	0.03	0.02	0.02	0.01
Sodium	Na	31	29	27	32	1
Strontium	Sr	39.5	40.2	33.7	35.9	0.05
Tellurium	Te	<	<	<	<	0.1
Thallium	Tl	<	<	<	<	0.02
Tin	Sn	<	<	<	<	0.1
Titanium	Ti	30.6	26.4	28.3	28.4	0.3
Uranium	U	<	<	<	<	0.04
Vanadium	V	2.3	2.0	2.0	2.1	0.5
Zinc	Zn	34.6	35.5	32.1	34.2	0.5
Zirconium	Zr	<	<	<	<	3

Results expressed as micrograms per gram, dry basis ($\mu\text{g/g}$)

< = Less than detection limit

REPORTED TO: Environmental Dynamics



REPORT DATE: November 6, 2006

GROUP NUMBER: 71023003

Metals Analysis in Tissue

CLIENT SAMPLE IDENTIFICATION:		MB-Oct06-R 6	MB-Oct06-P 4	MB-Oct06-R 2	MB-Oct06-R 4	DETECTION LIMIT
CANTEST ID:		610230023	610230024	610230025	610230026	
Aluminum	Al	713	731	569	463	0.5
Antimony	Sb	0.8	0.4	1.6	0.6	0.1
Arsenic	As	0.4	0.7	0.3	0.3	0.1
Barium	Ba	50.1	58.1	47.5	45.7	0.1
Beryllium	Be	0.03	0.03	0.02	<	0.02
Boron	B	4	5	10	4	2
Cadmium	Cd	0.16	0.22	0.18	0.20	0.02
Calcium	Ca	6230	7350	6520	6260	1
Chromium	Cr	3.3	3.0	1.9	2.0	0.1
Cobalt	Co	0.5	0.5	0.4	0.4	0.1
Copper	Cu	2.8	3.0	2.5	2.4	0.1
Iron	Fe	989	1020	773	695	5
Lead	Pb	0.8	1.0	0.6	0.6	0.1
Magnesium	Mg	1640	1970	1780	1610	0.5
Manganese	Mn	128	156	128	129	0.1
Mercury	Hg	0.041	0.044	0.039	0.040	0.01
Molybdenum	Mo	0.2	0.3	0.3	0.2	0.1
Nickel	Ni	2.7	2.5	1.9	1.9	0.1
Phosphorus	P	1040	1330	1290	1110	0.5
Potassium	K	2590	3480	3350	2920	1
Selenium	Se	<	<	<	<	0.2
Silicon	Si	150	188	192	175	10
Silver	Ag	0.01	0.02	0.02	0.01	0.01
Sodium	Na	31	33	33	29	1
Strontium	Sr	34.9	39.3	35.6	33.5	0.05
Tellurium	Te	<	<	<	<	0.1
Thallium	Tl	<	<	<	<	0.02
Tin	Sn	<	0.1	<	<	0.1
Titanium	Ti	31.0	32.6	24.2	21.0	0.3
Uranium	U	<	<	<	<	0.04
Vanadium	V	2.2	2.4	1.8	1.6	0.5
Zinc	Zn	38.5	38.6	33.1	37.9	0.5
Zirconium	Zr	<	<	<	<	3

Results expressed as micrograms per gram, dry basis (µg/g)

< = Less than detection limit

REPORTED TO: Environmental Dynamics



REPORT DATE: November 6, 2006

GROUP NUMBER: 71023003

Metals Analysis in Tissue

CLIENT SAMPLE IDENTIFICATION:		MB-Oct06-P 6	MB-Oct06-R 3	MB-Oct06-P 8	MB-Oct06-R 5	DETECTION LIMIT
CANTEST ID:		610230027	610230028	610230029	610230030	
Aluminum	Al	567	649	575	615	0.5
Antimony	Sb	0.4	0.7	1.5	0.4	0.1
Arsenic	As	0.3	0.4	1.2	0.3	0.1
Barium	Ba	48.6	49.0	51.0	48.3	0.1
Beryllium	Be	<	0.03	0.02	0.03	0.02
Boron	B	4	5	5	5	2
Cadmium	Cd	0.19	0.23	0.21	0.18	0.02
Calcium	Ca	6300	6590	6230	6410	1
Chromium	Cr	1.8	2.4	1.8	2.0	0.1
Cobalt	Co	0.4	0.5	0.5	0.5	0.1
Copper	Cu	2.5	2.7	2.8	2.6	0.1
Iron	Fe	810	899	841	870	5
Lead	Pb	0.7	0.7	1.4	0.6	0.1
Magnesium	Mg	1740	1720	1710	1800	0.5
Manganese	Mn	141	137	150	133	0.1
Mercury	Hg	0.040	0.037	0.039	0.039	0.01
Molybdenum	Mo	0.2	0.3	0.3	0.3	0.1
Nickel	Ni	1.9	2.2	1.9	2.0	0.1
Phosphorus	P	1210	1160	1230	1250	0.5
Potassium	K	3300	2990	3230	3280	1
Selenium	Se	<	<	<	<	0.2
Silicon	Si	165	191	167	175	10
Silver	Ag	0.02	0.03	0.03	0.02	0.01
Sodium	Na	28	32	34	27	1
Strontium	Sr	34.1	35.0	33.4	34.6	0.05
Tellurium	Te	<	<	<	<	0.1
Thallium	Tl	<	0.03	0.02	<	0.02
Tin	Sn	<	<	<	<	0.1
Titanium	Ti	25.5	29.1	26.3	28.0	0.3
Uranium	U	<	0.04	<	<	0.04
Vanadium	V	1.8	2.1	1.9	2.0	0.5
Zinc	Zn	32.7	37.4	49.7	32.8	0.5
Zirconium	Zr	<	<	<	<	3

Results expressed as micrograms per gram, dry basis ($\mu\text{g/g}$)

< = Less than detection limit

REPORTED TO: Environmental Dynamics



REPORT DATE: November 6, 2006

GROUP NUMBER: 71023003

Metals Analysis in Tissue

CLIENT SAMPLE IDENTIFICATION:		MB-Oct06-M 7	MB-Oct06-0 1	MB-Oct06-0 2	DETECTION LIMIT
CANTEST ID:		610230031	610230032	610230033	
Aluminum	Al	474	580	673	0.5
Antimony	Sb	0.9	<	<	0.1
Arsenic	As	0.3	0.3	0.3	0.1
Barium	Ba	49.8	52.0	50.8	0.1
Beryllium	Be	0.02	0.02	0.02	0.02
Boron	B	5	4	4	2
Cadmium	Cd	0.19	0.20	0.17	0.02
Calcium	Ca	6590	6600	6250	1
Chromium	Cr	1.2	1.1	1.0	0.1
Cobalt	Co	0.4	0.5	0.5	0.1
Copper	Cu	2.4	2.7	2.8	0.1
Iron	Fe	667	808	919	5
Lead	Pb	0.6	0.7	0.7	0.1
Magnesium	Mg	1710	1770	1790	0.5
Manganese	Mn	122	139	126	0.1
Mercury	Hg	0.038	0.042	0.034	0.01
Molybdenum	Mo	0.3	0.3	0.3	0.1
Nickel	Ni	1.5	1.6	1.6	0.1
Phosphorus	P	1230	1220	1260	0.5
Potassium	K	3170	3190	3350	1
Selenium	Se	<	<	<	0.2
Silicon	Si	189	196	188	10
Silver	Ag	0.02	0.02	0.02	0.01
Sodium	Na	28	36	21	1
Strontium	Sr	36.2	35.4	34.2	0.05
Tellurium	Te	<	<	<	0.1
Thallium	Tl	<	<	<	0.02
Tin	Sn	<	<	<	0.1
Titanium	Ti	20.7	25.1	29.8	0.3
Uranium	U	<	<	<	0.04
Vanadium	V	1.6	1.9	2.2	0.5
Zinc	Zn	34.9	30.4	27.9	0.5
Zirconium	Zr	<	<	<	3

Results expressed as micrograms per gram, dry basis ($\mu\text{g/g}$)

< = Less than detection limit

REPORTED TO: Environmental Dynamics



REPORT DATE: November 6, 2006

GROUP NUMBER: 71023003

Batch Quality Control for Dissolved Metals Analysis in Tissue (QC# 87206)

Parameter		Blank (ug/g)	Blank Limits	Duplicate (R.P.D.) 610230004	Duplicate Limits	Duplicate (R.P.D.) 610230017	Duplicate Limits
Aluminum	Al	< 0.5	0.2	14.7	20	5.1	20
Antimony	Sb	< 0.1	0.001	6.5	20	PASS	20
Arsenic	As	< 0.1	0.002	PASS	20	11.8	20
Barium	Ba	< 0.1	0.001	10.4	20	6.8	20
Beryllium	Be	< 0.02	0.001	PASS	20	PASS	20
Boron	B	< 2	0.02	PASS	20	PASS	20
Cadmium	Cd	< 0.02	0.0004	10.5	20	10.5	20
Calcium	Ca	< 1	0.3	10.1	20	8	20
Chromium	Cr	< 0.1	0.001	5.7	20	6.5	20
Cobalt	Co	< 0.1	0.001	PASS	20	0	20
Copper	Cu	< 0.1	0.001	11.3	20	0	20
Iron	Fe	< 5	0.05	8.2	20	5.4	20
Lead	Pb	< 0.1	0.002	11.8	20	0	20
Magnesium	Mg	< 0.5	0.2	14.3	20	3.9	20
Manganese	Mn	< 0.1	0.01	14.9	20	6.7	20
Mercury	Hg	-	-	4.9	20	15.4	20
Molybdenum	Mo	< 0.1	0.002	PASS	20	PASS	20
Nickel	Ni	< 0.1	0.003	5.4	20	4.1	20
Phosphorus	P	< 0.5	0.1	14.6	20	3.1	20
Potassium	K	< 1	0.3	17.4	20	1.8	20
Selenium	Se	< 0.2	0.004	NC	20	NC	20
Silver	Ag	< 0.01	0.001	PASS	20	PASS	20
Sodium	Na	< 1	0.5	19.2	20	6.9	20
Strontium	Sr	< 0.05	0.002	10.8	20	7.5	20
Tellurium	Te	< 0.1	0.002	NC	20	NC	20
Thallium	Tl	< 0.02	0.002	NC	20	PASS	20
Tin	Sn	< 0.1	0.01	NC	20	NC	20
Titanium	Ti	< 0.3	0.01	0.8	20	6.6	20
Uranium	U	< 0.04	0.002	NC	20	NC	20
Vanadium	V	< 0.5	0.002	PASS	20	PASS	20
Zinc	Zn	< 0.5	0.04	11.1	20	6.3	20
Zirconium	Zr	< 3	0.04	NC	20	NC	20

ug/g = micrograms per gram, dry basis

R.P.D. = Relative Percent Difference

PASS = Duplicate sample results were in the range of one to five times the detection limit. R.P.D. calculation is not applicable in this range. Acceptance criteria is a maximum difference between the duplicates equivalent to the value of the detection limit.

NC = Not Calculated. Duplicate sample results were less than the detection limit. Relative Percent Difference calculation is not defined for analyte levels of less than detection limit.

REPORTED TO: Environmental Dynamics



REPORT DATE: November 6, 2006

GROUP NUMBER: 71023003

Batch Quality Control for Dissolved Metals Analysis in Tissue (QC# 87206)

Parameter		Duplicate (R.P.D.) 610230024	Duplicate Limits	NIST1570a Spinach Leaves (% Recovery)	NIST1570a Spinach Leaves Limits	NIST1573a Tomato Leaves (% Recovery)	NIST1573a Tomato Leaves Limits
Aluminum	Al	6.8	20	42	17 - 93	38	7 - 91
Antimony	Sb	PASS	20	-	-	-	-
Arsenic	As	0	20	-	-	268	80 - 283
Barium	Ba	3.4	20	-	-	-	-
Beryllium	Be	PASS	20	-	-	-	-
Boron	B	PASS	20	120	63 - 143	105	62 - 142
Cadmium	Cd	18.2	20	85	39 - 114	92	30 - 124
Calcium	Ca	1.1	20	92	60 - 120	95	60 - 120
Chromium	Cr	6.7	20	-	-	50	28 - 97
Cobalt	Co	18.2	20	77	50 - 150	105	50 - 150
Copper	Cu	6.7	20	93	62 - 124	94	59 - 125
Iron	Fe	7.9	20	-	-	118	52 - 167
Lead	Pb	9.5	20	-	-	-	-
Magnesium	Mg	1	20	-	-	-	-
Manganese	Mn	0.6	20	91	53 - 134	93	62 - 131
Mercury	Hg	0	20	93	59 - 119	97	66 - 110
Molybdenum	Mo	PASS	20	-	-	-	-
Nickel	Ni	8	20	84	58 - 126	75	28 - 143
Phosphorus	P	6	20	102	60 - 120	101	60 - 120
Potassium	K	4.9	20	103	60 - 120	108	60 - 120
Selenium	Se	NC	20	-	-	-	-
Silver	Ag	PASS	20	-	-	-	-
Sodium	Na	9	20	113	60 - 120	107	60 - 120
Strontium	Sr	2	20	90	60 - 120	-	-
Tellurium	Te	NC	20	-	-	-	-
Thallium	Tl	NC	20	-	-	-	-
Tin	Sn	NC	20	-	-	-	-
Titanium	Ti	7.4	20	-	-	-	-
Uranium	U	NC	20	-	-	-	-
Vanadium	V	PASS	20	88	50 - 150	60	50 - 150
Zinc	Zn	2.9	20	79	48 - 110	82	49 - 109
Zirconium	Zr	NC	20	-	-	-	-

ug/g = micrograms per gram, dry basis

R.P.D. = Relative Percent Difference

PASS = Duplicate sample results were in the range of one to five times the detection limit. R.P.D. calculation is not applicable in this range. Acceptance criteria is a maximum difference between the duplicates equivalent to the value of the detection limit.

NC = Not Calculated. Duplicate sample results were less than the detection limit. Relative Percent Difference calculation is not defined for analyte levels of less than detection limit.

REPORTED TO: Environmental Dynamics



REPORT DATE: November 6, 2006

GROUP NUMBER: 71023003

Instrument Quality Control for the Mercury Monitor (QC# 171761)

QC Type: Calibration Verification

Parameter		% Recovery	Limits
Mercury	Hg	93	90 - 110

REPORTED TO: Environmental Dynamics



REPORT DATE: November 6, 2006

GROUP NUMBER: 71023003

Batch Quality Control Frequency Summary

Metals Plant Tissue Digestion (Batch# 87206)

QC Type	No. Samples
NIST1570a Spinach Leaves	1
NIST1573a Tomato Leaves	1
Blank	2
Duplicate	3
Batch Size	31

Analysis Report



CANTEST LTD.

Professional
Analytical
Services

4606 Canada Way
Burnaby, B.C.
V5G 1K5

FAX: 604 731 2386

TEL: 604 734 7276

1 800 665 8566

REPORT ON: Analysis of Tissue Samples

REPORTED TO: Environmental Dynamics
407-B Steele St
Whitehorse, YK
Y1A 2C7

Att'n: Pat Tobler

CHAIN OF CUSTODY: 192268, 192269, 192270, 192271
PROJECT NAME: Mt. Nansen
PROJECT NUMBER: 06-YC-0027
P.O. NUMBER: 00010275

NUMBER OF SAMPLES: 31

REPORT DATE: November 6, 2006

DATE SUBMITTED: October 20, 2006

GROUP NUMBER: 71023003

SAMPLE TYPE: Tissue

NOTE: Results contained in this report refer only to the testing of samples as submitted. Other information is available on request.

TEST METHODS:

Moisture Content of Plant Tissue - analysis was performed gravimetrically by heating a pre-weighed portion of sample at 105C and measuring the weight loss.

Mercury in Tissue - samples were digested using a nitric acid-hydrogen peroxide digestion procedure based on EPA Method 200.3. Analysis was performed using Cold Vapour Atomic Absorption Spectrophotometry or Cold Vapour Atomic Fluorescence Spectrophotometry.

Metals in Tissue - samples were digested using a nitric acid-hydrogen peroxide digestion procedure based on EPA Method 200.3. Analysis was performed using Inductively Coupled Argon Plasma Spectroscopy (ICP), ICP Mass Spectrometry (ICP/MS), or Atomic Absorption techniques.

TEST RESULTS:

(See following pages)

CANTEST LTD.

Richard S. Jornitz
Supervisor, Inorganic Testing

A Member of the **CANAM** Group
www.testing-labs.com

Page 1 of 14

Analysis Report



CANTEST LTD.

REPORT ON: Amended - Analysis of Tissue Samples

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REPORTED TO: Environmental Dynamics
407-B Steele St
Whitehorse, YK
Y1A 2C7

4606 Canada Way
Burnaby, B.C.
V5G 1K5

Att'n: Pat Tobler

Fax: 604 731 2386

CHAIN OF CUSTODY: 49012

Tel: 604 734 7276

P.O. NUMBER: 10275

1 800 665 8566

NUMBER OF SAMPLES: 3

REPORT DATE: December 19, 2006

DATE SUBMITTED: July 10, 2006

GROUP NUMBER: 70711052

SAMPLE TYPE: Moss

NOTE: Results contained in this report refer only to the testing of samples as submitted. Other information is available on request.

TEST METHODS:

Moisture Content of Plant Tissue - analysis was performed gravimetrically by heating a pre-weighed portion of sample at 105C and measuring the weight loss.

Metals in Tissue - samples were digested using a nitric acid-hydrogen peroxide digestion procedure based on EPA Method 200.3. Analysis was performed using Inductively Coupled Argon Plasma Spectroscopy (ICP), or ICP Mass Spectrometry (ICP/MS).

Mercury in Tissue - samples were digested using a nitric acid-hydrogen peroxide digestion procedure based on EPA Method 200.3. Analysis was performed using Cold Vapour Atomic Absorption Spectrophotometry or Cold Vapour Atomic Fluorescence Spectrophotometry.

COMMENTS:

Amended to include QC, this report supersedes any report printed before 19-December-2006.

TEST RESULTS:

(See following pages)

CANTEST LTD.

Richard S. Jornitz
Supervisor, Inorganic Testing



REPORTED TO: Environmental Dynamics

REPORT DATE: December 19, 2006

GROUP NUMBER: 70711052



Conventional Parameters in Tissue

CLIENT SAMPLE IDENTIFICATION:	SAMPLE DATE	CANTEST ID	Moisture
Moss	Jul 6/06	607110391	8.3
DETECTION LIMIT UNITS			0.1 %

% = percent

REPORTED TO: Environmental Dynamics

REPORT DATE: December 19, 2006

GROUP NUMBER: 70711052



Metals Analysis in Tissue

CLIENT SAMPLE IDENTIFICATION:		Moss	Moss duplicate	Moss triplicate	DETECTION LIMIT
DATE SAMPLED:		Jul 6/06	Jul 6/06	Jul 6/06	
CANTEST ID:		607110391	607200167	607200169	
Aluminum	Al	606	515	540	0.5
Antimony	Sb	<	<	<	0.1
Arsenic	As	0.3	0.3	0.3	0.1
Barium	Ba	48.9	46.7	49.1	0.1
Beryllium	Be	<	0.02	0.02	0.02
Boron	B	3	3	3	2
Cadmium	Cd	0.24	0.22	0.23	0.02
Calcium	Ca	6710	6480	6730	1
Chromium	Cr	2.4	2.0	2.1	0.1
Cobalt	Co	0.5	0.5	0.5	0.1
Copper	Cu	3.7	3.4	3.6	0.1
Iron	Fe	897	782	833	5
Lead	Pb	1.5	1.3	1.4	0.1
Magnesium	Mg	1390	1400	1450	0.5
Manganese	Mn	134	131	136	0.1
Molybdenum	Mo	0.3	0.3	0.3	0.1
Nickel	Ni	2.1	1.9	2.1	0.1
Phosphorus	P	1100	1110	1150	0.5
Potassium	K	2550	2570	2640	1
Selenium	Se	<	<	<	0.2
Silicon	Si	465	254	259	10
Silver	Ag	0.02	0.02	0.02	0.01
Sodium	Na	157	18	20	1
Strontium	Sr	35.2	33.5	35.6	0.05
Tellurium	Te	<	<	<	0.1
Thallium	Tl	<	<	<	0.02
Tin	Sn	0.4	0.3	0.4	0.1
Titanium	Ti	29.7	25.0	26.2	0.3
Uranium	U	<	<	<	0.04
Vanadium	V	2.0	1.8	1.9	0.5
Zinc	Zn	31.4	28.8	30.2	0.5
Zirconium	Zr	<	<	<	3

Results expressed as micrograms per gram, dry basis ($\mu\text{g/g}$)
 < = Less than detection limit

REPORTED TO: Environmental Dynamics

REPORT DATE: December 19, 2006

GROUP NUMBER: 70711052



Metals Analysis in Tissue

CLIENT SAMPLE IDENTIFICATION:	SAMPLE DATE	CANTEST ID	Mercury Hg
Moss	Jul 6/06	607110391	0.027
Moss duplicate	Jul 6/06	607200167	0.019
Moss triplicate	Jul 6/06	607200169	0.027
DETECTION LIMIT UNITS			0.002 $\mu\text{g/g}$

$\mu\text{g/g}$ = micrograms/gram as received

REPORTED TO: Environmental Dynamics

REPORT DATE: December 19, 2006

GROUP NUMBER: 70711052



Batch Quality Control for Dissolved Metals Analysis in Tissue (QC# 83471)

Parameter		Blank (ug/g)	Blank Limits	Duplicate (R.P.D.) 607110391	Duplicate Limits	Duplicate (R.P.D.) 607130359	Duplicate Limits
Aluminum	Al	< 0.5	0.2	0	20	-	-
Antimony	Sb	< 0.1	0.001	NC	20	-	-
Arsenic	As	< 0.1	0.002	PASS	20	-	-
Barium	Ba	< 0.1	0.001	0	20	-	-
Beryllium	Be	< 0.02	0.001	NC	20	-	-
Boron	B	< 2	0.02	PASS	20	-	-
Cadmium	Cd	< 0.02	0.0004	PASS	20	-	-
Calcium	Ca	< 1	0.3	0	20	-	-
Chromium	Cr	< 0.1	0.001	PASS	20	-	-
Cobalt	Co	< 0.1	0.001	NC	20	-	-
Copper	Cu	< 0.1	0.001	PASS	20	-	-
Iron	Fe	< 5	0.05	0	20	-	-
Lead	Pb	< 0.1	0.002	PASS	20	-	-
Magnesium	Mg	< 0.5	0.2	0	20	-	-
Manganese	Mn	< 0.1	0.01	0	20	-	-
Molybdenum	Mo	< 0.1	0.002	PASS	20	4.1	20
Nickel	Ni	< 0.1	0.003	PASS	20	-	-
Phosphorus	P	< 0.5	0.1	0	20	-	-
Potassium	K	< 1	0.3	0	20	-	-
Selenium	Se	< 0.2	0.004	NC	20	-	-
Silver	Ag	< 0.01	0.001	PASS	20	-	-
Sodium	Na	< 1	0.5	0	20	-	-
Strontium	Sr	< 0.05	0.002	0	20	-	-
Tellurium	Te	< 0.1	0.002	NC	20	-	-
Thallium	Tl	< 0.02	0.002	NC	20	-	-
Tin	Sn	< 0.1	0.01	PASS	20	-	-
Titanium	Ti	< 0.3	0.01	0	20	-	-
Uranium	U	< 0.04	0.002	NC	20	-	-
Vanadium	V	< 0.5	0.002	PASS	20	-	-
Zinc	Zn	< 0.5	0.04	0	20	-	-
Zirconium	Zr	< 3	0.04	NC	20	-	-

ug/g = micrograms per gram, dry basis

R.P.D. = Relative Percent Difference

PASS = Duplicate sample results were in the range of one to five times the detection limit. R.P.D. calculation is not applicable in this range. Acceptance criteria is a maximum difference between the duplicates equivalent to the value of the detection limit.

NC = Not Calculated. Duplicate sample results were less than the detection limit. Relative Percent Difference calculation is not defined for analyte levels of less than detection limit.

REPORTED TO: Environmental Dynamics

REPORT DATE: December 19, 2006

GROUP NUMBER: 70711052



Batch Quality Control for Dissolved Metals Analysis in Tissue (QC# 83471)

Parameter		Duplicate (R.P.D.) 607130370	Duplicate Limits	Duplicate (R.P.D.) 607130380	Duplicate Limits	NIST1573a Tomato Leaves (% Recovery)	NIST1573a Tomato Leaves Limits
Aluminum	Al	-	-	-	-	43	7 - 91
Arsenic	As	-	-	-	-	268	80 - 283
Boron	B	-	-	-	-	99	62 - 142
Cadmium	Cd	-	-	-	-	82	30 - 124
Calcium	Ca	-	-	-	-	94	60 - 120
Chromium	Cr	-	-	-	-	60	28 - 97
Cobalt	Co	-	-	-	-	105	50 - 150
Copper	Cu	-	-	-	-	87	59 - 125
Iron	Fe	-	-	-	-	138	52 - 167
Manganese	Mn	-	-	-	-	95	62 - 131
Molybdenum	Mo	6.1	20	0.6	20	-	-
Nickel	Ni	-	-	-	-	75	28 - 143
Phosphorus	P	-	-	-	-	108	60 - 120
Potassium	K	-	-	-	-	119	60 - 120
Sodium	Na	-	-	-	-	85	60 - 120
Vanadium	V	-	-	-	-	72	50 - 150
Zinc	Zn	-	-	-	-	74	49 - 109

ug/g = micrograms per gram, dry basis

R.P.D. = Relative Percent Difference

REPORTED TO: Environmental Dynamics

REPORT DATE: December 19, 2006

GROUP NUMBER: 70711052



Batch Quality Control for Dissolved Metals Analysis in Tissue (QC# 83471)

Parameter		NRC TORT-2, "Lobster Tissue" (% Recovery)	NRC TORT-2, "Lobster Tissue" Limits
Arsenic	As	96	66 - 113
Cadmium	Cd	95	63 - 118
Chromium	Cr	78	60 - 120
Cobalt	Co	98	60 - 120
Copper	Cu	90	60 - 120
Iron	Fe	104	60 - 120
Lead	Pb	86	39 - 150
Manganese	Mn	95	60 - 120
Molybdenum	Mo	95	60 - 120
Nickel	Ni	88	50 - 122
Selenium	Se	96	67 - 118
Strontium	Sr	90	60 - 120
Vanadium	V	116	60 - 120
Zinc	Zn	87	53 - 125

ug/g = micrograms per gram, dry basis

REPORTED TO: Environmental Dynamics

REPORT DATE: December 19, 2006

GROUP NUMBER: 70711052



Batch Quality Control for Metals Analysis in Tissue (QC# 83471)

Parameter	Duplicate (R.P.D.) 607110391	Duplicate Limits	Duplicate (R.P.D.) 607150038	Duplicate Limits	NIST1573a Tomato Leaves (% Recovery)	NIST1573a Tomato Leaves Limits
Mercury Hg	(*)	20	5	20	82	66 - 110

ug/g = micrograms/gram as received

R.P.D. = Relative Percent Difference

(*) = Quality Control results exceeded internally set limits; after review by Quality Assurance Unit, non-conformance overridden and batch sample analysis results released for reporting

REPORTED TO: Environmental Dynamics

REPORT DATE: December 19, 2006

GROUP NUMBER: 70711052



Batch Quality Control for Metals Analysis in Tissue (QC# 83471)

Parameter	NRC TORT-2, "Lobster Tissue" (% Recovery)	NRC TORT-2, "Lobster Tissue" Limits
Mercury Hg	100	85 - 115

ug/g = micrograms/gram as received

REPORTED TO: Environmental Dynamics

REPORT DATE: December 19, 2006

GROUP NUMBER: 70711052



Batch Quality Control Frequency Summary

Metals Plant Tissue Digestion (Batch# 83471)

QC Type	No. Samples
NIST1573a Tomato Leaves	1
NRC TORT-2, "Lobster Tissue"	1
Blank	2
Duplicate	5
Batch Size	45

Analysis Report



CANTEST LTD.

REPORT ON: Amended - Analysis of Tissue Samples

Professional
Analytical
Services

REPORTED TO: Environmental Dynamics
407-B Steele St
Whitehorse, YK
Y1A 2C7

4606 Canada Way
Burnaby, B.C.
V5G 1K5

Att'n: Pat Tobler

Fax: 604 731 2386

Tel: 604 734 7276

CHAIN OF CUSTODY: 33462
PROJECT NAME: Nansen Terrestrial and Aquatic Effects Study
PROJECT NUMBER: 06-YC-0027
P.O. NUMBER: 10275

1 800 665 8566

NUMBER OF SAMPLES: 6

REPORT DATE: December 19, 2006

DATE SUBMITTED: August 1, 2006

GROUP NUMBER: 70803078

SAMPLE TYPE: Moss

NOTE: Results contained in this report refer only to the testing of samples as submitted. Other information is available on request.

TEST METHODS:

Moisture Content of Plant Tissue - analysis was performed gravimetrically by heating a pre-weighed portion of sample at 105C and measuring the weight loss.

Mercury in Tissue - samples were digested using a nitric acid-hydrogen peroxide digestion procedure based on EPA Method 200.3. Analysis was performed using Cold Vapour Atomic Absorption Spectrophotometry or Cold Vapour Atomic Fluorescence Spectrophotometry.

Metals in Tissue - samples were digested using a nitric acid-hydrogen peroxide digestion procedure based on EPA Method 200.3. Analysis was performed using Inductively Coupled Argon Plasma Spectroscopy (ICP), or ICP Mass Spectrometry (ICP/MS).

COMMENTS:

Amended to include QC, this report supersedes any report printed before 19-December-2006.

TEST RESULTS:

(See following pages)

CANTEST LTD.

Richard S. Jornitz
Supervisor, Inorganic Testing

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REPORTED TO: Environmental Dynamics

REPORT DATE: December 19, 2006

GROUP NUMBER: 70803078



Conventional Parameters in Tissue

CLIENT SAMPLE IDENTIFICATION:	SAMPLE DATE	CANTEST ID	Moisture
MB-CON1	N/A	608030288	8.2
MB-CON2	N/A	608030299	7.4
MB-R1 to MB-R6 (Composite)	Jul 27/06	608030302	43.4
MB-M1 to MB-M8 (Composite)	Jul 27/06	608030305	57.1
MB-T1 to MB-T8 (Composite)	Jul 27/06	608030308	71.9
MB-P1 to MB-P8 (Composite)	Jul 27/06	608030310	50.0
DETECTION LIMIT			0.1
UNITS			%

% = percent

REPORTED TO: Environmental Dynamics

REPORT DATE: December 19, 2006

GROUP NUMBER: 70803078



Metals Analysis in Tissue

CLIENT SAMPLE IDENTIFICATION:		MB-CON1	MB-CON2	MB-R1 to MB-R6 (Composite)	MB-M1 to MB-M8 (Composite)	DETECTION LIMIT
DATE SAMPLED:				Jul 27/06	Jul 27/06	
CANTEST ID:		608030288	608030299	608030302	608030305	
Aluminum	Al	579	437	469	517	0.5
Antimony	Sb	<	<	0.7	1.2	0.1
Arsenic	As	0.3	0.2	0.3	1.8	0.1
Barium	Ba	39.2	38.4	38.0	38.4	0.1
Beryllium	Be	0.02	<	<	<	0.02
Boron	B	4	4	4	9	2
Cadmium	Cd	0.03	0.04	0.05	0.06	0.02
Calcium	Ca	6790	6820	6740	6810	1
Chromium	Cr	1.2	1.0	2.0	1.7	0.1
Cobalt	Co	0.4	0.4	0.4	0.4	0.1
Copper	Cu	11.8	12.5	13.4	22.2	0.1
Iron	Fe	698	617	685	675	5
Lead	Pb	0.6	0.6	0.7	1.6	0.1
Magnesium	Mg	1730	1710	1680	1660	0.5
Manganese	Mn	70.8	71.5	71.6	78.7	0.1
Mercury	Hg	0.021	0.018	0.021	0.022	0.01
Molybdenum	Mo	0.4	0.4	0.4	0.4	0.1
Nickel	Ni	0.5	0.3	1.1	0.4	0.1
Phosphorus	P	898	929	908	901	0.5
Potassium	K	1870	1850	1780	1750	1
Selenium	Se	<	<	<	<	0.2
Silicon	Si	656	242	191	759	10
Silver	Ag	0.02	0.02	0.02	0.05	0.01
Sodium	Na	171	145	156	128	1
Strontium	Sr	34.9	35.1	34.4	34.5	0.05
Tellurium	Te	<	<	<	<	0.1
Thallium	Tl	<	<	<	<	0.02
Tin	Sn	<	<	<	<	0.1
Titanium	Ti	21.0	15.6	15.7	24.2	0.3
Uranium	U	<	<	<	<	0.04
Vanadium	V	2.0	1.7	1.8	1.8	0.5
Zinc	Zn	15.5	16.1	31.4	39.8	0.5
Zirconium	Zr	<	<	<	<	3

Results expressed as micrograms per gram, dry basis ($\mu\text{g/g}$)

< = Less than detection limit

REPORTED TO: Environmental Dynamics

REPORT DATE: December 19, 2006

GROUP NUMBER: 70803078



Metals Analysis in Tissue

CLIENT SAMPLE IDENTIFICATION:		MB-T1 to MB-T8 (Composite)	MB-P1 to MB-P8 (Composite)	DETECTION LIMIT
DATE SAMPLED:		Jul 27/06	Jul 27/06	
CANTEST ID:		608030308	608030310	
Aluminum	Al	507	454	0.5
Antimony	Sb	2.0	0.7	0.1
Arsenic	As	13.3	1.1	0.1
Barium	Ba	37.1	37.7	0.1
Beryllium	Be	<	<	0.02
Boron	B	5	7	2
Cadmium	Cd	0.22	0.07	0.02
Calcium	Ca	6820	6590	1
Chromium	Cr	1.7	1.7	0.1
Cobalt	Co	0.5	0.4	0.1
Copper	Cu	17.8	15.3	0.1
Iron	Fe	949	672	5
Lead	Pb	11.1	1.2	0.1
Magnesium	Mg	1600	1610	0.5
Manganese	Mn	94.5	78.2	0.1
Mercury	Hg	0.024	0.019	0.01
Molybdenum	Mo	0.3	0.4	0.1
Nickel	Ni	0.3	0.6	0.1
Phosphorus	P	850	852	0.5
Potassium	K	1720	1850	1
Selenium	Se	<	<	0.2
Silicon	Si	310	263	10
Silver	Ag	0.30	0.03	0.01
Sodium	Na	124	120	1
Strontium	Sr	33.1	33.4	0.05
Tellurium	Te	<	<	0.1
Thallium	Tl	<	<	0.02
Tin	Sn	<	<	0.1
Titanium	Ti	18.8	13.7	0.3
Uranium	U	<	<	0.04
Vanadium	V	2.0	1.8	0.5
Zinc	Zn	44.2	31.8	0.5
Zirconium	Zr	<	<	3

Results expressed as micrograms per gram, dry basis ($\mu\text{g/g}$)

< = Less than detection limit

REPORTED TO: Environmental Dynamics

REPORT DATE: December 19, 2006

GROUP NUMBER: 70803078



Batch Quality Control for Dissolved Metals Analysis in Tissue (QC# 84408)

Parameter		Blank (ug/g)	Blank Limits	Duplicate (R.P.D.) 608030310	Duplicate Limits	Duplicate (R.P.D.) 608030325	Duplicate Limits
Aluminum	Al	< 0.5	0.2	1.1	20	-	-
Antimony	Sb	< 0.1	0.001	13.3	20	-	-
Arsenic	As	< 0.1	0.002	8.7	20	-	-
Barium	Ba	< 0.1	0.001	8.5	20	-	-
Beryllium	Be	< 0.02	0.001	NC	20	-	-
Boron	B	< 2	0.02	PASS	20	-	-
Cadmium	Cd	< 0.02	0.0004	PASS	20	-	-
Calcium	Ca	< 1	0.3	6.2	20	-	-
Chromium	Cr	< 0.1	0.001	0	20	-	-
Cobalt	Co	< 0.1	0.001	PASS	20	-	-
Copper	Cu	< 0.1	0.001	3.3	20	-	-
Iron	Fe	< 5	0.05	2.2	20	-	-
Lead	Pb	< 0.1	0.002	8.7	20	-	-
Magnesium	Mg	< 0.5	0.2	6.2	20	-	-
Manganese	Mn	< 0.1	0.01	5.8	20	-	-
Molybdenum	Mo	< 0.1	0.002	PASS	20	-	-
Nickel	Ni	< 0.1	0.003	18.2	20	-	-
Phosphorus	P	< 0.5	0.1	10.6	20	-	-
Potassium	K	< 1	0.3	6.5	20	-	-
Selenium	Se	< 0.2	0.004	NC	20	4.7	20
Silver	Ag	< 0.01	0.001	PASS	20	-	-
Sodium	Na	< 1	0.5	13.3	20	-	-
Strontium	Sr	< 0.05	0.002	8.1	20	-	-
Tellurium	Te	< 0.1	0.002	NC	20	-	-
Thallium	Tl	< 0.02	0.002	NC	20	-	-
Tin	Sn	< 0.1	0.01	NC	20	-	-
Titanium	Ti	< 0.3	0.01	1.5	20	-	-
Uranium	U	< 0.04	0.002	NC	20	-	-
Vanadium	V	< 0.5	0.002	PASS	20	-	-
Zinc	Zn	< 0.5	0.04	15.4	20	-	-
Zirconium	Zr	< 3	0.04	NC	20	-	-

ug/g = micrograms per gram, dry basis

R.P.D. = Relative Percent Difference

PASS = Duplicate sample results were in the range of one to five times the detection limit. R.P.D. calculation is not applicable in this range. Acceptance criteria is a maximum difference between the duplicates equivalent to the value of the detection limit.

NC = Not Calculated. Duplicate sample results were less than the detection limit. Relative Percent Difference calculation is not defined for analyte levels of less than detection limit.

REPORTED TO: Environmental Dynamics

REPORT DATE: December 19, 2006

GROUP NUMBER: 70803078



Batch Quality Control for Dissolved Metals Analysis in Tissue (QC# 84408)

Parameter		NIST1570a Spinach Leaves (% Recovery)	NIST1570a Spinach Leaves Limits	NIST1573a Tomato Leaves (% Recovery)	NIST1573a Tomato Leaves Limits
Aluminum	Al	32	17 - 93	29	7 - 91
Arsenic	As	-	-	277	80 - 283
Boron	B	85	63 - 143	78	62 - 142
Cadmium	Cd	87	39 - 114	88	30 - 124
Calcium	Ca	91	60 - 120	94	60 - 120
Chromium	Cr	-	-	45	28 - 97
Cobalt	Co	77	50 - 150	88	50 - 150
Copper	Cu	88	62 - 124	85	59 - 125
Iron	Fe	-	-	136	52 - 167
Manganese	Mn	94	53 - 134	96	62 - 131
Nickel	Ni	61	58 - 126	38	28 - 143
Phosphorus	P	98	60 - 120	96	60 - 120
Potassium	K	95	60 - 120	97	60 - 120
Sodium	Na	97	60 - 120	72	60 - 120
Strontium	Sr	89	60 - 120	-	-
Vanadium	V	123	50 - 150	72	50 - 150
Zinc	Zn	72	48 - 110	72	49 - 109

ug/g = micrograms per gram, dry basis

REPORTED TO: Environmental Dynamics

REPORT DATE: December 19, 2006

GROUP NUMBER: 70803078



Instrument Quality Control for the Mercury Monitor (QC# 166315)

QC Type: Calibration Verification

Parameter	% Recovery	Limits
Mercury Hg	93	90 - 110

REPORTED TO: Environmental Dynamics

REPORT DATE: December 19, 2006

GROUP NUMBER: 70803078



Batch Quality Control Frequency Summary

Metals Plant Tissue Digestion (Batch# 84408)

QC Type	No. Samples
NIST1570a Spinach Leaves	1
NIST1573a Tomato Leaves	1
Blank	2
Duplicate	2
Batch Size	24