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Geological Sediment

Soil/Sediment Sediment River Powder

		Ag	Al	Al2O3	As	Au	B	Ba	Be	Br	C	Ca	CaO	Cd	Ce	Co	CO2	Cr	Cs	Cu	Dy	Eu	F	Fe	Fe2O3	FeO	Ga	H2O	Hf	Hg	K	K2O	La	Li	LOI	LOI(5OO)	Lu	Mg	MgO	Mn	MnO	Mo	Na	Na2O	Nb	Nd	Ni	P	P2O5	Pb	Rb	S	Sb	Sc	Se	Si	SiO2	Sm	Sn	Sr	Ta	Tb	Th	Ti	TiO2	Tl	U	V	W	Y	Yb	Zn	Zr	Others/Set Only	Size	Type	Alloy
031-46	%			6.71				(0.018)					1.32		(0.011)	0.0056		0.0559		0.0566					28.16	-18						0.35							3.16		1.14	(0.001)		0.28			(0.0125)		0.11	(0.00013)	(0.002)	0.17					35.9			0.0025					0.6			0.0225		(0.002)		0.59	0.0101		100g	CRM	Stream
031-51	%			11.87				(0.0335)					0.86		(0.012)	0.006		0.0509		0.0268					18.36	-3	(0.002)					0.33							0.92		0.21			0.07	(0.0009)		0.0178		0.21	0.52	0.0037	(0.24)					33.81			0.0044			(0.001)		0.82			0.0181		0.0021		0.22	0.0121		100g	CRM	Rock Sediment

Soil/Sediment Sediment Powder

		Ag	Al2O3	As	Au	B	Ba	Be	CaO	Cd	Co	Cr	Cu	Fe2O3	FeO	Ga	K2O	La	Li	LOI	MgO	MnO	Mo	Na2O	Nb	Ni	P2O5	Pb	Rb	S	Sc	SiO2	Sn	Sr	TiO2	V	Y	Yb	Zn	Zr	Others/Set Only	Size	Type	Alloy
054-3483-86	%	(0.00005)	11.6	(0.004)	0	(0.009)	0.047	0.0002	7.05	(0.0002)	0.0014	0.0066	0.0048	4.62	(1.3)	0.0012	2.96	0.00322	0.01	(20.33)	5.82	0.073	(0.0003)	0.87	0.0012	0.0033	0.15	0.0016	0.009	0.05	0.0009	45.59	0.00037	0.03	0.63	0.009	0.0023	0.00025	0.005	0.014		100g	CRM	Rock Sediment
054-3484-86	%	(0.00007)	16.76	(0.004)	0	(0.008)	0.058	0.00023	1.13	(0.00019)	0.0018	0.012	0.0052	6.33	(2.2)	0.0017	2.51	0.0034	0.0012	(17.17)	1.53	0.071	(0.0003)	1.37	0.006	0.0058	0.18	0.0016	0.01	0.05	0.0015	51.95	0.00044	0.02	0.85	0.014	0.003	0.00032	0.009	(0.018)		100g	CRM	Rock Sediment
054-3485-86	%	0.00026	5.03	(0.009)	0.00013	(0.0014)	0.035	0.00025	17.76	(0.00035)	0.0011	0.0028	0.026	10.59	(0.24)	0.0009	1.13	0.026	0.002	(25.14)	11.7	0.5	0.0029	0.61	(0.0007)	0.0019	1.82	(0.02)	0.004	0.05	0.0009	25.07	0.0004	0.018	0.27	0.007	0.004	0.00033	0.014	0.007		50g	CRM	Clay

Soil/Sediment Sediment Ooze/Silt Powder

		Al2O3	As	Au	B	Ba	Be	CaO	Ce	Co	CO2(carb)	Cr	Cs	Cu	Fe2O3	FeO	Ga	K2O	La	Li	LOI	MgO	MnO	Mo	Na2O	Nb	Nd	Ni	P2O5	Pb	Rb	S	Sc	SiO2	Sm	Sn	Sr	Th	TiO2	U	V	Y	Yb	Zn	Zr	Others/Set Only	Size	Type	Alloy
054-5368-90	%	12.7			0.005	0.32	0.00014	9.2	0.0025	0.0038	6	0.0066		0.017	6.92	0.6	0.001	1.33	0.0013	0.005	17.5	3.21	1.04	0.0004	4.45			0.019	0.23	0.001	0.0028	0.12	0.0023	41.8		0.0002	0.05	0.00024	0.73		0.012	0.003	0.0003	0.024	0.009		50g	CRM	Volcanogeous Ooze
054-5369-90	%	14.37				0.13	0.00018	7.63	0.005	0.0046	2.4	0.026		0.018	11.82	2.9	0.0012	1.34	0.0025	0.0035	9.2	4.58	0.265	0.00017	4			0.015	0.27	0.0018	0.0037	0.17	0.0026	43.5		0.00033	0.051	0.0005	2.3		0.02	0.0033		0.013	0.017		50g	CRM	Calcareous Ooze
054-5370-90	%	3.6				0.01	0.0001	39.23		0.0012	32.2	0.0034		0.003	2.44	0.17	0.0005	0.51	0.0007	0.0013	36.6	3.44	0.218	0.0004	1.86			0.0038	0.23	0.0011	0.0011	0.19	0.0006	11.9		0.021	0.12	0.0003	0.3		0.0057	0.0009		0.01	0.008		50g	CRM	Siliceous Silt
054-5371-90	%	8.96	0.002	0	0.007	0.15	0.00016	6.4	0.0033	0.003	2.7	0.008	0.0003	0.014	5.05	1.2	0.0011	1.39	0.0015	0.0018	9.6	3.16	0.37	0.00028	4.52	0.001	0.0013	0.01	0.12	0.0024	0.0046	0.17	0.0017	59.6	0.00025	0.00032	0.034	0.0005	0.59	0.00015	0.0085	0.0016	0.00022	0.009	0.01		50g	CRM	Red Clay, deep water
054-5372-90	%	15.97	0.0032	0	0.007	0.11	0.00021	3.03	0.01	0.016	1	0.009	0.0005	0.032	9.23	0.2	0.0014	2.79	0.008	0.006	9.3	3.17	1.77	0.0038	3.5	0.0012		0.037	0.72	0.0062	0.009	0.15	0.0032	48.8	0.002	0.0004	0.029	0.0014	0.98	0.00025	0.015	0.015	0.0015	0.016	0.019		100g	CRM	

Soil/Sediment Sediment Lake Powder

		Ag	Al	Al2O3	As	Au	B	Ba	Be	Br	C	Ca	CaO	Cd	Ce	Co	Cr	Cs	Cu	Dy	Eu	F	Fe	Fe2O3	Ga	H2O	Ha	Hf	K	K2O	La	Li	LOI	LOI(5OO)	Lu	Mg	MgO	Mn	MnO	Mo	Na	Na2O	Nb	Nd	Ni	P2O5	Pb	Rb	S	Sb	Sc	Se	SiO2	Sm	Sn	Sr	Ta	Tb	Th	Ti	TiO2	U	V	W	Y	Yb	Zn	Zr	Others/Set Only	Size	Type	Alloy
071-LKSD1	ppm	(0.6)		(7.8)	-40	(0.005)	-49	-430	(1.1)	-11	(12.3)		(10.8)		-27	-11	-31	(1.5)	-44	(3.4)	(0.9)	-300	(2.8)	(4.1)		(2.92)		(3.6)		(1.1)	-16	-7	(29.9)	(23.5)	(0.4)		(1.7)	-700	(0.1)	-10		-2	-7	-16	-16	(0.2)	-82	-24	(1.57)	(1.2)	-9		(40.1)	-4	-16	-250	(0.3)	(0.6)	(2.2)	-3010	(0.5)	(9.7)	-50	(<4)	-19	-2	-331	-134		100g	CRM	
071-LKSD2	ppm	(0.8)		(12.3)	-11	(0.003)	-65	-780	(2.5)	-18	(4.5)		(2.2)		-108	-17	-57	-3	-37	(7.3)	(1.9)	-590	(4.3)	(6.2)		(2.23)		-7		(2.6)	-68	-20	(13.6)	(12.3)	(0.6)		(1.7)	-2020	(0.3)	(<5)		(1.9)	-8	-58	-26	(0.3)	-44	-85	(0.14)	(1.1)	-13		(58.9)	-11	-5	-220	(0.8)	(1.4)	(13.4)	-3460	(0.6)	(7.6)	-77	(<4)	-44	-4	-209	-254		100g	CRM	
071-LKSD3	ppm	(2.7)		(12.5)	-27	(0.003)	-25	-680	(1.9)	-16	(4.5)		(2.3)		-90	-30	-87	(2.3)	-35	(4.9)	(1.5)	-490	-4	(5.7)		(2.07)		(4.8)		(2.2)	-52	-25	(13.4)	(11.8)	(0.4)		-2	-1440	(0.2)	(<5)		(2.3)	-8	-44	-47	(0.2)	-29	-78	(0.14)	(1.3)	-13		(58.5)	-8	-3	-240	(0.7)	-1	(11.4)	-3330	(0.5)	(4.6)	-82	(<4)	-30	(2.7)	-152	-178		100g	CRM	
071-LKSD4	ppm	(<0.5)		(5.9)	-16	(0.002)	-22	-330	-1	-49	(17.7)		(1.8)		-48	-11	-33	(1.7)	-31	(3.7)	(1.1)	-260	(2.8)	(4.1)		(6.55)		(2.8)		(0.8)	-26	-12	(43.6)	(40.8)	(0.5)		(0.9)	-500	(0.1)	(<5)		(0.7)	-9	-25	-31	(0.3)	-91	-28	(0.99)	(1.7)	-7		(41.6)	-5	-5	-110	(0.4)	(1.2)	(5.1)	-2270	(0.4)	-31	-49	(<4)	-23	-2	-194	-105		100g	CRM	Stream

Soil/Sediment Sediment River Powder

		Ag	Al	Al2O3	As	Au	B	Ba	Be	Br	C	Ca	CaO	Cd	Ce	Co	CO2	Cr	Cs	Cu	Dy	Eu	F	Fe	Fe2O3	FeO	Ga	H2O	Hf	Hg	K	K2O	La	Li	LOI	LOI(5OO)	Lu	Mg	MgO	Mn	MnO	Mo	Na	Na2O	Nb	Nd	Ni	P	P2O5	Pb	Rb	S	Sb	Sc	Se	Si	SiO2	Sm	Sn	Sr	Ta	Tb	Th	Ti	TiO2	Tl	U	V	W	Y	Yb	Zn	Zr	Others/Set Only	Size	Type	Alloy
071-STSD1	ppm	(<0.5)		-9	-23	(0.008)	-89	-630	(1.6)	-40	(12.3)		(3.6)		-51	-17		-67	(1.8)	-36	(5.6)	(1.6)	-950	(4.7)	(6.5)			(4.46)	(6.1)			(1.2)	-30	-11	(31.6)	(29.7)	(0.8)		(2.2)	-3950	(0.5)	(<5)		(1.8)	-5	-28	-24		(0.4)	-35	-30	(0.18)	(3.3)	-14			(42.5)	-6	-4	-170	(0.4)	(1.2)	(3.7)	-4600	-8		-8	-98	(<4)	-42	-4	-198	-218		100g	CRM	Stream
071-STSD2	ppm	(0.5)		(26.1)	-42	(0.003)	-42	-540	(5.2)	-4	(1.6)		-4		-93	-19		-116	-12	-47	(6.5)	-2	-940	(5.2)	(7.5)			(2.43)	-5			(2.1)	-59	-65	(10.3)	(8.7)	(0.7)		(3.1)	-1060	(0.1)	-13		(1.7)	-20	-43	-53		(0.3)	-66	-104	(0.06)	(4.8)	-16			(53.7)	-8	-5	-400	(1.6)	(1.3)	(17.2)	-4870	(0.8)		(18.6)	-101	(<7)	-37	(3.7)	-246	-185		100g	CRM	Stream
071-STSD3	ppm	(<5)		(10.9)	-28	(0.007)	-82	-1490	(2.6)	-24	(8.4)		(3.3)		-63	-16		-80	(5.2)	-39	(5.4)	(1.3)	-850	(4.4)	(6.2)			(3.47)	(5.1)			(1.8)	-39	-23	(23.6)	(21.6)	(0.8)		(2.2)	-2730	(0.3)	-6		(1.5)	-12	-33	-30		(0.4)	-40	-68	(0.14)	-4				(48.6)	-7	-4	-230	(0.9)	(1.1)	(5.5)	-4400	(0.7)		(10.5)	-134	(<4)	-36	(3.4)	-204	-196		100g	CRM	Stream
071-STSD4	ppm	(<0.5)		(12.1)	-15	(0.004)	-46	-2000	(1.7)	-13	(4.1)		-4		-44	-13		-93	-93	-65	(0.38)	(1.2)	-380	(4.1)	(5.7)			(1.73)	(5.5)			(1.6)	-24	-14	(11.6)	(10.2)	(0.5)		(2.1)	-1520	(0.2)	(<5)		(2.7)	-9	-21	-30		(0.2)	-16	-39	(0.09)	(7.3)	-14			(58.9)	-5	-21	-350	(0.6)	(0.9)	(4.3)	-4530	(0.8)		-3	-106	(<4)	-24	-206	-107	-190		50g	CRM	

Soil/Sediment Sediment Estuary Powder

		Ag	Al	Al2O3	As	Be	C	Ca	CaO	Cd	Co	Cr	Cu	Fe	Fe2O3	Hg	K	K2O	Li	Mg	MgO	Mn	Mo	Na	Na2O	Ni	P	P2O5	Pb	S	Sb	Se	Si	SiO2	Sn	Sr	Th	Ti	U	V	Zn	Others/Set Only	Size	Type	Alloy
132-MESS3	ppm	0.18		8.59	21.2	2.3	-2		1.47	0.24	14.4	105	33.9		4.34	0.091		(2.6)	73.6		(1.6)	324	2.78		(1.6)	46.9		(0.12)	21.9	(0.19)	1.02	0.72		-27	2.5	125	0.9	0.44	-4	243	159		65g	CRM	

Soil/Sediment Sediment Harbour Powder

		Ag	Al2O3	As	C	CaO	Cd	Cl	Co	Cr	Cu	Fe2O3	Hg	K2O	Li	MgO	Mn	Mo	Na2O	Ni	P2O5	Pb	S	Sb	Se	SiO2	Sn	Sr	TiO2	V	Zn	Others/Set Only	Size	Type	Alloy
132-PACS2	ppm	1.22	6.62	26.2	-3	1.96	2.11	-3	11.5	90.7	310	4.09	3.04	1.24	32.2	1.47	440	5.43	3.45	39.5	0.096	183	1.29	11.3	0.92	-28	19.8	276	0.443	133	364		100g	CRM	Humber River

Soil/Sediment Sediment Toxic Elements Powder

		Al	As	Ba	Ca	Cd	Co	Cr	Cu	Fe	Hg	K	K2O	Mg	Mn	Na	Ni	Pb	Se	Sr	Tl	V	Zn	Others/Set Only	Size	Type	Alloy
136-HR1	ppm	5.12	6.81			4.3	13	138	78.5	3.1	0.328			(0.342)	514		39.4	144	0.97		0.48	76.6	1108		100g	CRM	Sudbury
136-SUD1	ppm	5.35	29.1	482	1.19	2.3	44.2	92.4	561	3.32	0.113			1.1	564		946	56.3	2.65	202		72.1	772		100g	CRM	Toronto Harbour
136-TH2	ppm	6.33	8.6	506	7.34	5.81	15.7	116	124	35361	0.651		2	1.615	584	1.39	42.4	186	0.815			81.8	921		100g	CRM	Lake Ontario
136-WQB1	ppm		23	613	1.13	2.1	20.1	(89.1)	79.6	4.8	1.09	3.08		1.09	2237		61.5	83.7	1.02			129	275		100g	CRM	Hamilton Harbour
136-WQB3	ppm		18.8	-406	(4.76)	3.85	15.3	-119	81.6	60000	2.75	(2.02)		(1.64)	1264		52	240	1.15			90.7	1396		25g	CRM	Coastal

Soil/Sediment Sediment Organic Contaminant Powder

tin		Dibutyltin	Tributyl	Others/Set Only	Size	Type	Alloy
191-462	µg/kg	68	54		50g	CRM	

Soil/Sediment Sediment Marine Powder

		Al2O3	As	B	Ba	C(org)	CaO	Cd	Ce	Cl	Co	CO3	Cr	Cs	Cu	Dy	Er	Eu	F	Fe2O3	FeO	Ga	Gd	H2O	Hg	Ho	K2O	La	Li	LOI	Lu	MgO	MnO	Mo	Na2O	Nb	Nd	Ni	P2O5	Pb	Pr	Rb	S	Sb	Sc	Se	SiO2	Sm	Sr	Tb	Th	TiO2	Tm	U	V	W	Y	Yb	Zn	Zr	Others/Set Only	Size	Type	Alloy
202-DC74301	%	13.75	5.8	125	0.44	(0.25)	1.71		92	4.07	76.7	(0.38)	58.4	9.4	424	19.9	11	5.3	(0.13)	6.58	(0.29)	23.7	22	5.39		4.3	2.95	67.8	60	(9.93)	1.46	3.38	0.43	7.2	4.81	(15.1)	91.8	150	0.45	29.3	20.1	97.3	0.31	1.85	25.6		53.86	21.5	267	3.4	13.9	0.67	1.54	1.98	112	5.5	104	9.8	160	177		75g	CRM	Offshore
202-DC75301	%	13.07	10.3	-73	425	0.5	4.31	0.2	-78		(14.2)	4.7	85		31	(5.4)	-3	(1.3)		5.36		(16.1)	(5.6)		0.048	-1	2.48	-38			(0.45)	2.5	0.096	(0.64)	1.68	(19.1)	-33	34.3	0.148	25	(8.7)	(109.3)		(1.4)	(12.5)	16	61.91	(6.7)	150	(0.83)	(10.2)	0.825	(0.44)	(2.7)	(103.1)	(2.1)	-27	(2.8)	87	-229		50g	CRM	

Soil/Sediment Sediment River Powder

		Ag	Al	Al2O3	As	Au	B	Ba	Be	Br	C	Ca	CaO	Cd	Ce	Co	CO2	Cr	Cs	Cu	Dy	Eu	F	Fe	Fe2O3	FeO	Ga	H2O	Hf	Hg	K	K2O	La	Li	LOI	LOI(5OO)	Lu	Mg	MgO	Mn	MnO	Mo	Na	Na2O	Nb	Nd	Ni	P	P2O5	Pb	Rb	S	Sb	Sc	Se	Si	SiO2	Sm	Sn	Sr	Ta	Tb	Th	Ti	TiO2	Tl	U	V	W	Y	Yb	Zn	Zr	Others/Set Only	Size	Type	Alloy
202-DC78301	ppm				56			375	(3.5)					2.45		16.5		90		53				3.94						0.22										975							-32			79					0.39													-96				-251			25g	CRM	

Soil/Sediment Sediment Lake Powder

		Ag	Al	Al2O3	As	Au	B	Ba	Be	Br	C	Ca	CaO	Cd	Ce	Co	Cr	Cs	Cu	Dy	Eu	F	Fe	Fe2O3	Ga	H2O	Ha	Hf	K	K2O	La	Li	LOI	LOI(5OO)	Lu	Mg	MgO	Mn	MnO	Mo	Na	Na2O	Nb	Nd	Ni	P2O5	Pb	Rb	S	Sb	Sc	Se	SiO2	Sm	Sn	Sr	Ta	Tb	Th	Ti	TiO2	U	V	W	Y	Yb	Zn	Zr	Others/Set Only	Size	Type	Alloy
262-SL1	ppm				27.5			639						(0.26)	117	19.8	-104	-7	-30	(7.5)	(1.6)		6.74		(23.7)		(0.13)	(4.2)	(1.45)		52.6				(0.54)			0.346			(0.17)				(44.9)		(37.7)	113		(1.31)	(17.3)	(2.85)		(9.25)		-80	(1.58)	(1.4)	14	0.517		4.02	(4.02)			(3.42)	223			25g	CRM	
262-SL3	%		(2.45)		3.2					(5.6)		(11.11)			45.5			(1.38)		(2.22)	0.66							9.1	0.874		22.5				(0.3)	(2.7)					(0.669)			21.5				38.8		(0.56)	(3.91)			3.83		0.47	(0.7)	(0.49)	7	(2.61)		(2.3)				(1.89)				70g	CRM	

Soil/Sediment Sediment Estuary Powder

		Ag	Al	Al2O3	As	Be	C	Ca	CaO	Cd	Co	Cr	Cu	Fe	Fe2O3	Hg	K	K2O	Li	Mg	MgO	Mn	Mo	Na	Na2O	Ni	P	P2O5	Pb	S	Sb	Se	Si	SiO2	Sn	Sr	Th	Ti	U	V	Zn	Others/Set Only	Size	Type	Alloy
331-1646A	%		2.297		6.23			0.519		0.148		40.9	10.01	2.008			0.864			0.388		234.5		0.741			0.027		11.7	0.352		0.193	40					0.456		44.84	48.9		50g	CRM	

Soil/Sediment Sediment Organic Contaminent Powder

PAH		Anthracene	Benz(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(ghi)perylene	Benzo(k)fluoranthene	Fluoranthene	Indeno(1,2,3-cd)pyrene	Perylene	Phenanthrene	Pyrene	Others/Set Only	Size	Type	Alloy
331-1941	µg/g	0.202	0.55	0.67	0.78	0.516	0.444	1.22	0.569	0.422	0.577	1.08		50g	RM	Buffalo River

Soil/Sediment Sediment River Powder

		Ag	Al	Al2O3	As	Au	B	Ba	Be	Br	C	Ca	CaO	Cd	Ce	Co	CO2	Cr	Cs	Cu	Dy	Eu	F	Fe	Fe2O3	FeO	Ga	H2O	Hf	Hg	K	K2O	La	Li	LOI	LOI(5OO)	Lu	Mg	MgO	Mn	MnO	Mo	Na	Na2O	Nb	Nd	Ni	P	P2O5	Pb	Rb	S	Sb	Sc	Se	Si	SiO2	Sm	Sn	Sr	Ta	Tb	Th	Ti	TiO2	Tl	U	V	W	Y	Yb	Zn	Zr	Others/Set Only	Size	Type	Alloy
331-8704	ppm	1.44	6.11		23.4			414			3.348	2.6		2.94	66.5	13.5	3.35	121	5.83			1.31		4.11	3.97				8.4		2							1.2		544			0.547	0.551			42.9	0.0998		150			3.07	11.2		29.8							9.07	0.457		1.2	3.09	94.6				408			50g	RM	Buffalo River