

APPENDIX C

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**Core Samples from Cobalt Area, Northern Ontario (May 1995).**

**C2-Core Location**

<b>Core Sample</b>	<b>Location</b>	<b>Subsamples</b>
PNA95-C1	Cobalt Lake, centre of bay between baseball diamond and dam; 1.5 m water depth	C1-1: 0-10 cm (coarse, org-rich, dk br to blk) C1-2: 10-15 cm (med grey coarse tails) C1-3 15-19.5 cm (med grey clay tails)
PNA95-C2	Cobalt Lake, centre of bay; 2 m water depth	C2-1: 0-4 cm (dk br org) C2-2: 4-11 cm (coarse, med br) C2-3: 11-43 cm (tails; discarded last 15 cm)
PNA95-C3	Cobalt Lake, centre of bay; 1.5 m water depth	C3-1: 0-10 cm (med br, org-rich) C3-2: 10-27 cm (grey tails)
PNA95-C4	Cobalt Lake, 5 m directly west of high-grade drainage; 4.5 m depth	C4-1: 0-8 cm (reddish on surface; med br org) C4-2: 8-17.5 cm (dk grey tails)
PNA95-C5	Cobalt Lake, 7 m directly west of high-grade drainage; 3.5 m water depth	C5-1: 0-1 cm (reddish br, hetero org; biofilms?) C5-2: 1-7 cm (dk br, org-rich) C5-3: 7-23 cm (dk grey tails) C5-4: 23-30 cm (dk grey fines)
PNA95-C6	Cobalt Lake, 10-12 m directly west of high-grade drainage; 3.5 m water depth	C6-1: 0-2 cm (blk and reddish org floc) C6-2: 2-7 cm (coarse, dk grey) C6-3: 7-23 cm (med-lt grey tails)
PNA95-C7	Cobalt Lake, 25 m west of fence (100 m from high-grade drainage); 5 m water depth	C7-1: 0-2 cm (dk grey) C7-2: 2-5.5 cm (lt grey tails) bagged as one sample, no organics; overlying water very turbid
PNA95-C8	Cobalt Lake, due east from centre door of train station; 3.5 m water depth	C8-1: 0-8 cm (lt to dk br; org-rich) C8-2: 8-23 cm (lt grey slimes) water on top very turbid-maybe from previous attempt to get core

**Core Samples from Cobalt Area, Northern Ontario (May 1995).**

**C2-Core Location**

<b>Core Sample</b>	<b>Location</b>	<b>Subsamples</b>
PNA-95-C9	Cobalt Lake, 20 m west of bridge at Mill Creek entrance; 4 m water depth	C9-1: 0-1 cm (coarse layer) C9-2: 1-5.5 cm (blk org) C9-3: 5.5-14 cm (dk grey slimes) C9-4: 14-34 cm (lt br clay) C9-5: 34-44 cm (dk br clay/org) possibly only 3 units
PNA95-C10	Cobalt Lake, 10 m west of bridge; 4 m depth	C10-1: 0-2 (oxidized blk org) C10-2: 2-10 cm (blk org) C10-3: 10-12 cm (grey tails)
PNA95-C11	Cobalt Lake, 8 m west of bridge; 4 m depth	C11-1: 0-0.5 cm (coarse) C11-2: 0.5- 6 cm (blk org) C11-3: 6-14 cm (dk br slimes)
PNA95-C12	Mill Creek, 3 m upstream from beaver dam (150 m upstream from confluence)	C12-1: 0-6 cm (lt grey fines; some org) C12-2: 6-35 cm (coarse, grey-br)
PNA95-C13	Farr Creek, 50 m downstream of confluence	C13-1: 0-10 cm (med br org floc) C13-2: 10-19 cm (coarse, sandy dk grey) C13-3: 19-26.5 cm (lt br-grey tails) C13-4: 26.5-39.5 cm (lt grey tails) rusty nodules in upper layer around roots
PNA95-C14	Farr Creek, 5 m upstream from confluence	C14-1: 0-4 cm (coarse, dk grey, sandy) C14-2: 4-18 cm (finer, med br + org) C14-3: 18-44 cm (lt grey tails)
PNA95-C15	Mill Creek, 10 m upstream from confluence	C15-1: 0-18 cm (coarse, sandy, dk grey) C15-2: 18-34 cm (dk br-grey) C15-3: 34-45.5 cm (lt grey tails)
PNA95-C16	Nipissing Hill, low-grade tailings; 4 m from first dug pit (1994)	Recovered material from bottom 2 sections only-major compression? C16A: 0-13 cm (lt olive grey sand with pale olive streaks) C16B: 13-19 cm (pale olive sand) C16C: 19-30 cm (lt grey silt)
PNA95-C17	Nipissing Hill, low-grade tailings; adjacent to lower dam	Recovered 2.75 tubes from core, including an organic layer at the bottom Section #2 total 20 cm C172A: 0-7 cm (lt olive grey sandy silt) C172B: 7-20 cm (lt grey clayey silt) Section #3: C173: 0-24.5 cm (lt grey clayey silt)

**Core Samples from Cobalt Area, Northern Ontario (May 1995).**

**C2-Core Location**

Core Sample	Location	Subsamples
		Section #4: C174: 0-30 cm (lt grey clayey silt)
PNA95-C18	Nipissing Hill, high-grade tailings; 25 m up from dam, near 1994 sample site	Drove 3 sections into tailings, hit gravel at bottom; recovered last section only (complete) C18A: 0-26 cm (lt grey clayey silt) C18B: 26-30 cm (grey sandy silt)
PNA95-C19	Nipissing Hill, high-grade tailings; phleger corer 2 m west of C18	C19-1: 0-6.5 cm (grey tailings with pink colouration (Co?)) C19-2: 6.5-14.5 cm (grey tailings, may have some pink material in sample) C19-3 14.5-24.0 cm (grey tailings)
PNA95-C20	Nipissing Hill, high-grade site; phleger corer attempt; far east side of drainage ditch 3 m from road side	C20A: 0-10 cm (grey silt with whitish clumps up to 3 mm) C20B: 10-17 cm (grey sand with 5 mm greyish white clumps) C20C: 17-19 cm (dk grey sandy silt) C20D: 19-23 cm (v. dk grey sand) C20E: 23-30 cm (dk grey sand)

Tailings and sediment samples collected from the Cobalt area, July and September, 1994 (A= Abundant, m = minor, tr = trace; ML = mixed-layer).

Sample Number	Quartz	Plagioclase	Amphibole	Calcite	Dolomite	Illite	Chlorite	ML Clay	Erythrite	Amorphous
C1-1	A	A	tr	m		tr	A-m			
C1-2	A	A	tr	m		tr	A			
C1-3	A-m	A-m	tr	m		tr	A	tr		
C2-1	A	A-m	tr	A-m	tr	tr	A-m			
C2-2	A	A	tr	m		tr	A			
C2-3	m	A-m	tr	m-tr		tr	A	tr		
C2-3B	m	A	tr	m-tr		tr	A	tr		
C3-1	A	A	tr	m		tr	A			
C3-2	A-m	A-m	tr	m		tr	A			
C3-2A	A-m	A-m	tr	m-tr	tr	tr	A			
C4-1	m	A-m	tr	m		m-tr	A		m	
C4-2	m	m		m-tr		tr	A		m-tr	
C5-1	m	A-m	tr	m		tr	A		m	
C5-2	m	A-m		m-tr	m-tr	tr	A		m-tr	
C5-3	A-m	A-m		m	m-tr	m-tr	A		m	
C5-5	m	A	tr	m		m-tr	A			
C6-1	A	A	tr	m-tr		tr	A			
C6-2	A	A	tr	m-tr		tr	A			
C6-2B	m	A-m		m-tr		tr	A	tr		
C7-1	A-m	A	tr	m-tr		tr	A			
C8-1	A	A	tr	m-tr		tr	A			
C8-2	A-m	A-m	tr	m-tr		m-tr	A			
C9-1	A	A	tr	m		tr	A			
C9-2	A	A	tr	m		tr	A	tr		
C9-3	A-m	A-m	tr	m	m-tr	tr	A			
C9-4	A	A	tr	m-tr	m-tr	m-tr	A	tr		
C10-1	A	A	tr	m		tr	A			
C10-2	A	A	tr	m-tr		tr	A			
C11-1	A-m	A-m	tr	m		tr	A			
C11-2	A	A	tr	m-tr	tr		A			
C11-3	A	A		m	tr	tr	A			
C12-1	A	A	tr	m		tr	A			
C12-2	A	A	m-tr	m	tr	tr	A			
C13-1	A	A	m-tr	m-tr	m-tr	tr	A			
C13-2	A	A	m-tr	m	m-tr	m-tr	A	tr		
C13-3	A-m	A-m	m	m	tr	m-tr	A	tr		
C13-4	A-m	A-m	m-tr	m		m-tr	A			
C14-1	A	A	tr	tr	tr	tr	A-m			
C14-2	A	A-m	m-tr	m-tr	tr	tr	A			
C14-3	A-m	A-m	tr	m	tr	m-tr	A			
C15-2	A	A	tr	A-m			A-m			
C15-2B	A	A	tr	m	tr		A-m			

Tailings and sediment samples collected from the Cobalt area, July and September, 1994 (A= Abundant, m = minor, tr = trace; ML = mixed-layer).

Sample Number	Quartz	Plagioclase	Amphibole	Calcite	Dolomite	Illite	Chlorite	ML Clay	Erythrite	Amorphous
C15-3	A	A-m		m	tr	tr	A-m			
C16B	A	A	tr	m-tr	m-tr	tr	A-m			
C16C	A	A-m	tr	m	m-tr		A-m			
C172A	A	A	tr	m	m-tr		A			
C174	m	m		m-tr			A-m			A
C18A	A-m	A-m		m-tr		tr	A			
C19-1	m	A-m		m-tr		m	A			
C19-1A	A	m		m	m-tr		A		tr	
C20A	m	A					A		m	
C20B	A-m	A				tr	A		m	
C20C	A	A		tr		tr	A-m		tr	
C20D	A	A				m	A		tr	
C20E	A	A		tr		tr	A-m		tr	

**Major Elements in Core Solids**

**C4-Core Majors**

Report No.	Variable	SiO2	TiO2	Al2O3	Fe2O3(T)	Fe2O3	FeO	MnO	MgO	CaO	Na2O	K2O
147-97	Units	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %
	Determination Limits	0.5	0.02	0.2	0.06		0.2	0.01	0.04	0.01	0.03	0.05
	Analytical Method	ICPES-100	ICPES-100	ICPES-100	ICPES-100	Calculated	CHEM-100	ICPES-100	ICPES-100	ICPES-100	ICPES-100	ICPES-100
					(Fe2O3=Fe2O3T-1.113xFeO)							
	PNA95-C1-1	59.3	0.63	14.2	6.36	1.2	4.6	0.10	3.37	3.27	4.91	0.83
	PNA95-C1-2	60.8	0.66	14.9	6.64	1.0	5.1	0.09	3.58	2.44	5.15	0.88
	PNA95-C1-3	53.8	0.63	14.7	8.91		nd	0.12	4.62	3.34	4.13	0.86
	PNA95-C2-1	49.9	0.53	11.5	6.21		nd	0.15	3.19	8.98	3.90	0.78
	PNA95-C2-2	61.2	0.62	14.6	6.22	0.8	4.9	0.08	3.34	2.43	5.14	0.88
	PNA95-C2-3	53.0	0.66	15.6	9.80	1.0	7.9	0.13	5.10	4.08	4.36	0.92
	PNA95-C3-1	60.1	0.66	14.7	6.71	1.0	5.1	0.10	3.57	3.20	5.06	0.86
	PNA95-C3-2	53.3	0.65	15.0	9.41	1.2	7.4	0.12	4.85	3.89	4.23	0.90
	PNA95-C4-1	47.0	0.83	15.5	9.90	nd1	9.0	0.13	6.43	3.69	3.75	0.69
	PNA95-C4-2	47.7	0.76	14.6	8.80	nd1	8.1	0.11	6.22	4.32	3.57	0.90
	PNA95-C5-2	47.8	0.86	15.3	9.70	0.40	8.4	0.12	6.32	3.76	3.93	0.70
	PNA95-C5-3	50.1	0.85	15.6	9.35	nd1	8.6	0.11	6.37	3.12	3.99	0.82
	PNA95-C5-4	50.3	0.88	15.8	9.24	0.60	7.8	0.10	6.30	2.95	4.14	0.81
	PNA95-C6-1/C6-2	54.7	0.80	16.2	8.70	0.90	7.0	0.11	5.52	2.77	4.86	0.65
	PNA95-C6-3	57.4	0.61	14.6	7.59	0.90	6.0	0.09	3.87	3.01	4.63	0.92
	PNA95-C7-1/C7-2	60.1	0.62	14.6	6.93	1.70	4.7	0.09	3.52	2.65	4.75	0.88
	PNA95-C8-1	56.6	0.65	14.7	8.12	1.30	6.1	0.10	4.14	3.07	4.52	0.80
	PNA95-C8-2	58.5	0.65	15.2	7.91	1.10	6.1	0.10	4.03	3.00	4.93	0.84
	PNA95-C9-1/C9-2	51.2	0.59	13.2	8.04		nd	0.12	4.14	4.47	3.90	0.86
	PNA95-C9-3	52.8	0.58	14.4	7.99	1.10	6.2	0.10	4.20	3.76	4.08	0.97
	PNA95-C9-4	51.0	0.64	13.8	7.81	0.90	6.2	0.11	4.28	5.88	3.99	0.79
	PNA95-C9-5	56.6	0.47	12.9	5.89	1.80	3.7	0.08	3.80	4.54	2.99	1.63
	PNA95-C10-1/C10-2	52.6	0.61	14.0	8.09	1.80	5.7	0.11	4.26	4.06	4.08	0.82
	PNA95-C10-3	54.6	0.58	15.4	8.90		nd	0.11	4.53	2.76	4.70	1.02
	PNA95-C11-1/C11-2	54.3	0.69	13.5	7.04	0.70	5.7	0.10	4.05	4.98	4.35	0.63
	PNA95-C11-3A	57.5	0.72	14.1	6.90	0.30	5.9	0.10	4.00	3.75	4.68	0.69
	PNA95-C11-3B	57.7	0.75	13.4	6.56		nd	0.09	3.75	3.51	4.61	0.59
	PNA95-C12-1	54.0	0.82	14.3	8.59	1.60	6.3	0.12	4.79	3.48	4.17	0.78
	PNA95-C12-2(1)	54.2	0.98	14.6	9.24	1.50	7.0	0.13	5.24	4.18	4.45	0.72
	PNA95-C12-2(e)	55.7	1.05	15.3	9.60	1.60	7.2	0.14	5.52	4.57	4.54	0.78
	PNA95-C13-1	56.7	0.77	14.4	8.02	1.50	5.9	0.12	4.37	2.74	4.29	0.96
	PNA95-C13-2	61.8	0.74	15.3	7.30	0.70	5.9	0.09	3.97	2.38	4.94	1.03
	PNA95-C13-3	53.1	0.64	15.3	9.36	1.60	7.0	0.14	5.07	4.46	3.87	1.20
	PNA95-C13-4	54.3	0.68	14.7	8.96	0.60	7.5	0.15	5.45	5.28	3.95	1.00
	PNA95-C14-1	62.6	0.70	15.1	6.65	2.00	4.2	0.08	3.66	2.05	5.03	0.97
	PNA95-C14-2	60.3	0.78	15.0	7.63	1.90	5.2	0.11	4.70	3.37	4.45	1.02
	PNA95-C14-3(1)	53.5	0.62	15.0	8.99	1.70	6.6	0.14	4.65	4.66	3.80	1.24
	PNA95-C14-3(2)	53.8	0.60	15.3	8.79	1.20	6.8	0.13	4.64	3.69	4.06	1.10
	PNA95-C15-1(1)	59.5	0.74	14.7	6.75	0.30	5.8	0.10	4.01	2.29	4.97	1.03
	PNA95-C15-1(2)	59.9	0.74	15.2	7.33	1.10	5.6	0.09	4.08	2.41	5.14	1.03
	PNA95-C15-2	57.9	0.74	14.3	7.38	0.80	5.9	0.11	4.18	2.90	4.80	0.92

Major Elements in Core Solids

C4-Core Majors

Report No.	Variable	SiO2	TiO2	Al2O3	Fe2O3(T)	Fe2O3	FeO	MnO	MgO	CaO	Na2O	K2O
147-97	Units	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %	wt %
	Determination Limits	0.5	0.02	0.2	0.06		0.2	0.01	0.04	0.01	0.03	0.05
	Analytical Method	ICPES-100	ICPES-100	ICPES-100	ICPES-100	Calculated	CHEM-100	ICPES-100	ICPES-100	ICPES-100	ICPES-100	ICPES-100
					(Fe2O3=Fe2O3T-1.113xFeO)							
	PNA95-C15-3	52.8	0.64	15.5	9.25	0.70	7.7	0.12	4.84	3.39	4.62	0.91
	PNA95-C19-1	45.1	1.26	15.5	11.80	nd1	11.3	0.19	6.99	4.05	3.50	0.53
	PNA95-C19-2	47.2	1.17	18.0	10.20	0.60	8.7	0.09	7.76	1.43	4.69	0.63
	PNA95-C19-3	46.1	1.26	18.7	10.80	0.80	9.0	0.08	8.29	1.20	4.81	0.47
	nd = not determined											
	nd1 = not determined due to interference											
	Duplicates											
	PNA95-C8-2	58.5	0.65	15.2	7.91	1.10	6.1	0.10	4.03	3.00	4.93	0.84
	147-97-46	57.9	0.66	15.1	7.88	1.00	6.2	0.10	4.07	3.01	5.05	0.84
	PNA95-C15-1(1)	59.5	0.74	14.7	6.75	0.30	5.8	0.10	4.01	2.29	4.97	1.03
	PNA95-C15-1(2)	59.9	0.74	15.2	7.33	1.10	5.6	0.09	4.08	2.41	5.14	1.03
	147-97-47	60.4	0.77	15.2	7.25	0.80	5.8	0.10	4.10	2.34	5.25	1.04



Major Elements in Core Solids

C4-Core Majors

Variable	H2O(T)	CO2(T)	CO2	C	P2O5	S(T)	TOTAL	LOI
Units	wt %	wt %	wt %	wt %	wt %	wt %	wt %	
Determination Limits	0.1	0.1	0.1	0.2	0.01	0.02		0.1
Analytical Method	CHEM-110	CHEM-120	CHEM-130	Calculated	ICPES-100	CHEM-140	ICPES-100+110	ICPES-100
				C=(CO2T-CO2)/3.66				
PNA95-C1-1	3.1	2.8	1.7	0.3	0.12	0.14	98.0	4.3
PNA95-C1-2	2.6	0.5	1.2	nd1	0.13	0.04	98.8	2.9
PNA95-C1-3	nd	nd	nd		0.16	nd	91.6	8.0
PNA95-C2-1	nd	nd	nd		0.14	nd	85.6	14.2
PNA95-C2-2	2.6	3.4	1.6	0.5	0.11	0.06	99.0	3.9
PNA95-C2-3	4.3	3.7	2.6	0.3	0.15	0.19	100.6	6.0
PNA95-C3-1	3.0	2.5	1.8	0.2	0.12	0.10	99.8	4.2
PNA95-C3-2	4.1	3.8	2.4	0.4	0.16	0.17	99.1	6.1
PNA95-C4-1	5.9	6.5	2.5	1.1	0.15	0.30	97.8	8.6
PNA95-C4-2	5.7	9.4	3.2	1.7	0.15	0.26	98.3	9.8
PNA95-C5-2	5.7	6.2	2.5	1.0	0.15	0.31	98.0	8.6
PNA95-C5-3	4.8	4.7	2.1	0.7	0.14	0.28	98.4	6.9
PNA95-C5-4	5.4	5.0	2.1	0.8	0.15	0.30	99.1	7.7
PNA95-C6-1/C6-2	4.1	2.3	1.6	0.2	0.15	0.16	100.3	5.1
PNA95-C6-3	3.4	1.2	1.9	nd1	0.14	0.17	98.0	4.5
PNA95-C7-1/C7-2	3.4	2.6	1.5	0.3	0.13	0.15	99.4	4.7
PNA95-C8-1	4.4	4.6	1.7	0.8	0.16	0.19	99.5	6.1
PNA95-C8-2	3.3	1.1	1.8	nd1	0.14	0.08	100.1	4.5
PNA95-C9-1/C9-2	6.7	12.0	2.5	2.6	0.16	0.48	99.3	12.8
PNA95-C9-3	5.0	11.9	2.4	2.6	0.15	0.34	99.0	9.1
PNA95-C9-4	4.8	11.4	4.1	2.0	0.16	0.30	99.3	10.1
PNA95-C9-5	4.2	10.0	3.8	1.7	0.13	0.11	98.7	9.5
PNA95-C10-1/C10-2	5.2	9.5	2.5	1.9	0.15	0.40	98.5	9.7
PNA95-C10-3	nd	nd	nd		0.16	nd	93.0	8.0
PNA95-C11-1/C11-2	4.4	7.4	3.7	1.0	0.13	0.35	98.9	8.4
PNA95-C11-3A	3.5	5.4	2.8	0.7	0.13	0.33	99.5	5.9
PNA95-C11-3B	3.7	4.4	2.6	0.5	0.13	0.37	98.7	7.1
PNA95-C12-1	4.9	6.4	1.6	1.3	0.15	0.13	98.7	7.2
PNA95-C12-2(1)	3.2	1.3	2.0	nd1	0.12	0.13	98.7	4.3
PNA95-C12-2(e)	3.2	1.4	2.1	nd1	0.12	0.11	102.2	4.1
PNA95-C13-1	4.8	6.4	1.3	1.4	0.26	0.24	100.0	7.4
PNA95-C13-2	2.8	0.5	1.2	nd1	0.11	0.17	101.5	2.9
PNA95-C13-3	4.4	4.2	2.7	0.4	0.14	0.17	100.5	6.6
PNA95-C13-4	3.4	1.9	2.6	nd1	0.13	0.19	100.4	5.0
PNA95-C14-1	2.8	0.2	0.9	nd1	0.10	0.04	100.4	3.6
PNA95-C14-2	3.1	0.5	1.2	nd1	0.12	0.11	101.7	3.6
PNA95-C14-3(1)	4.5	5.7	3.5	0.6	0.14	0.14	101.0	7.9
PNA95-C14-3(2)	5.3	8.1	2.2	1.6	0.15	0.18	101.1	8.6
PNA95-C15-1(1)	2.8	0.6	1.3	nd1	0.13	0.09	98.0	3.4
PNA95-C15-1(2)	2.8	0.6	1.3	nd1	0.12	0.10	99.8	3.4
PNA95-C15-2	3.5	4.4	1.8	0.7	0.19	0.14	99.1	5.4

**Major Elements in Core Solids**

**C4-Core Majors**

Variable	H2O(T)	CO2(T)	CO2	C	P2O5	S(T)	TOTAL	LOI
Units	wt %	wt %	wt %	wt %	wt %	wt %	wt %	
Determination Limits	0.1	0.1	0.1	0.2	0.01	0.02		0.1
Analytical Method	CHEM-110	CHEM-120	CHEM-130	Calculated C=(CO2T-CO2)/3.66	ICPES-100	CHEM-140	ICPES-100+110	ICPES-100
PNA95-C15-3	4.1	3.8	2.3	0.4	0.15	0.20	98.7	6.1
PNA95-C19-1	5.4	2.0	2.7	nd1	0.15	0.41	98.2	6.5
PNA95-C19-2	5.6	nd	0.3		0.17	0.23	97.6	5.8
PNA95-C19-3	5.6	nd	nd		0.17	0.20	97.7	5.7
nd = not determined								
nd1 = not determined due to inte								
Duplicates								
PNA95-C8-2	3.3	1.1	1.8	nd1	0.14	0.08	100.1	4.5
147-97-46	3.2	1.1	1.8	nd1	0.13	0.07	99.4	4.6
PNA95-C15-1(1)	2.8	0.6	1.3	nd1	0.13	0.09	98.0	3.4
PNA95-C15-1(2)	2.8	0.6	1.3	nd1	0.12	0.10	99.8	3.4
147-97-47	2.8	0.6	1.3	nd1	0.13	0.10	100.4	3.4

**Trace Elements in Core Solids**

**C5-Core Traces**

Report No.	Variable	Ag	As	Ba	Be	Bi	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu
147-97	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	Determination Limits	0.1	10	10	0.5	0.5	0.2	0.1	5	10	0.02	10	0.02	0.02	0.02
	Analytical Method	ICPMS-110	ICAY50/XRAL	ICPES-110	ICPES-110	ICPMS-110	ICPMS-110	ICPMS-100	ICPES-110	ICPES-110	ICPMS-110	ICPES-110	ICPMS-100	ICPMS-100	ICPMS-100
	PNA95-C1-1	50	1140	150	1.9	15	0.5	37	360	180	0.74	140	2.9	1.6	0.66
	PNA95-C1-2	43	306	150	2.0	16	<0.2	38	240	190	0.77	130	3.0	1.6	0.69
	PNA95-C1-3	150**	1650	160	2.4	33	1.9	54	750	210	1.30	400	3.4	1.8	0.80
	PNA95-C2-1	82	2950	150	1.5	25	2.5	38	890	150	0.81	230	2.7	1.5	0.61
	PNA95-C2-2	46	573	150	1.8	18	0.3	36	330	160	0.80	120	2.9	1.6	0.67
	PNA95-C2-3	170**	2240	150	2.2	35	1.3	58	750	190	1.30	490	3.6	1.9	0.85
	PNA95-C3-1	59	1290	150	1.8	20	0.5	39	450	170	0.80	160	3.0	1.7	0.70
	PNA95-C3-2	160**	2160	160	2.1	37	1.3	55	810	190	1.30	510	3.5	1.9	0.80
	PNA95-C4-1	28	4470	120	1.7	110	1.2	41	3900	170	0.93	1100	4.0	2.2	0.77
	PNA95-C4-2	31	8380	170	1.6	100	1.3	40	4100	160	1.10	1400	3.5	1.9	0.71
	PNA95-C5-2	25	7690	120	1.7	110	1.1	40	3500	170	0.95	1100	4.1	2.1	0.71
	PNA95-C5-3	24	6930	140	1.7	98	1.2	40	3500	170	1.00	1200	4.0	2.0	0.67
	PNA95-C5-4	24	7800	140	1.7	94	1.1	40	3300	170	0.98	1200	4.0	2.0	0.71
	PNA95-C6-1/C6-2	26	3270	120	1.9	56	0.7	43	2300	180	0.75	470	4.1	2.1	0.73
	PNA95-C6-3	61	2710	180	2.0	18	0.7	57	540	170	0.79	340	3.1	1.7	0.81
	PNA95-C7-1/C7-2	72	1710	180	1.8	23	0.8	48	500	160	0.78	270	3.2	1.6	0.72
	PNA95-C8-1	49	3130	150	1.9	18	1.0	48	500	180	1.00	190	3.4	1.9	0.77
	PNA95-C8-2	45	1200	150	1.9	18	0.5	46	350	180	0.88	160	3.3	1.8	0.77
	PNA95-C9-1/C9-2	87	3720	160	1.8	31	2.7	43	880	180	1.30	400	3.2	1.7	0.71
	PNA95-C9-3	71	2260	170	1.9	26	1.4	48	890	150	1.30	350	3.4	1.8	0.83
	PNA95-C9-4	130**	2800	140	1.8	41	1.4	48	790	130	1.10	680	3.4	1.9	0.84
	PNA95-C9-5	80	1110	330	1.6	11	0.5	50	270	110	1.70	580	3.1	1.6	0.94
	PNA95-C10-1/C10-2	94	2300	150	1.7	32	2.0	46	720	130	1.20	420	3.3	1.9	0.83
	PNA95-C10-3	100	1620	190	2.2	25	1.5	53	500	140	1.30	280	3.6	1.8	0.84
	PNA95-C11-1/C11-2	120**	2930	100	1.5	37	0.9	42	760	100	0.75	560	3.4	1.8	0.72
	PNA95-C11-3A	94	2870	120	1.6	29	0.9	42	770	84	0.83	540	3.4	1.8	0.74
	PNA95-C11-3B	120**	4070	90	1.6	34	1.2	45	1100	99	0.71	640	3.5	1.9	0.78
	PNA95-C12-1	54	1200	120	1.5	25	1.0	39	560	120	1.20	440	3.8	2.1	0.81
	PNA95-C12-2(1)	17	817	110	1.5	23	1.6	34	250	120	1.30	700	4.4	2.4	0.84
	PNA95-C12-2(e)	17	876	110	1.5	22	1.6	34	270	140	1.30	640	4.4	2.5	0.88
	PNA95-C13-1	95	1580	170	1.7	28	0.9	41	590	130	1.20	380	3.4	1.9	0.81
	PNA95-C13-2	140**	878	170	1.7	15	0.5	33	260	93	1.10	320	3.1	1.8	0.75
	PNA95-C13-3	220**	1980	210	2.0	36	0.7	55	480	160	1.50	460	3.9	2.0	0.85
	PNA95-C13-4	170**	2610	200	1.7	38	1.0	46	600	210	0.98	540	3.7	1.9	0.84
	PNA95-C14-1	32	343	160	1.5	7.2	<0.2	31	130	87	0.86	150	2.8	1.6	0.71
	PNA95-C14-2	30	1300	180	1.5	18	0.5	38	440	100	0.93	160	3.3	1.9	0.84
	PNA95-C14-3(1)	210**	1400	190	2.1	21	0.7	62	390	120	1.50	470	4.1	2.1	0.93
	PNA95-C14-3(2)	200**	1650	190	2.0	23	0.6	54	400	160	1.20	470	3.7	1.9	0.83
	PNA95-C15-1(1)	48	451	160	1.7	8.2	0.5	29	210	140	1.10	290	3.1	1.8	0.72
	PNA95-C15-1(2)	58	456	150	1.7	11	0.6	32	210	90	1.20	330	3.0	1.8	0.73
	PNA95-C15-2	96	913	160	1.6	21	0.6	35	460	120	1.00	340	3.3	1.8	0.69
	PNA95-C15-3	230**	1720	140	2.2	26	0.7	54	420	130	0.90	660	3.8	2.0	0.77
	PNA95-C19-1	6.0	18380	70	1.7	80	0.5	36	6200	140	0.75	1000	5.2	2.9	0.90

**Trace Elements in Core Solids**

**C5-Core Traces**

Report No.	Variable	Ag	As	Ba	Be	Bi	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu
147-97	Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
	Determination Limits	0.1	10	10	0.5	0.5	0.2	0.1	5	10	0.02	10	0.02	0.02	0.02
	Analytical Method	ICPMS-110	ICAY50/XRAL	ICPES-110	ICPES-110	ICPMS-110	ICPMS-110	ICPMS-100	ICPES-110	ICPES-110	ICPMS-110	ICPES-110	ICPMS-100	ICPMS-100	ICPMS-100
	PNA95-C19-2	6.1	12860	100	1.9	76	0.6	43	5100	170	0.94	720	5.2	2.7	0.74
	PNA95-C19-3	3.3	13340	80	2.0	71	0.6	43	5400	190	0.93	240	5.9	3.0	0.82
	PNA95 C21-1 (Blank)		<10												
	ICP-MS*														
	ICP-ES**														
	Duplicates														
	PNA95-C8-2	45	1200	150	1.9	18	0.5	46	350	180	0.88	160	3.3	1.8	0.77
	147-97-46	45		150	1.9	17	0.3	43	340	110	0.88	150	3.2	1.8	0.78
	PNA95-C15-1(1)	48	451	160	1.7	8.2	0.5	29	210	140	1.10	290	3.1	1.8	0.72
	PNA95-C15-1(2)	58	456	150	1.7	11	0.6	32	210	90	1.20	330	3.0	1.8	0.73
	147-97-47	57		160	1.8	10	0.5	31	220	100	1.20	290	3.1	1.8	0.72
	PNA 95-C20-1		340												
	PNA95-C1-2		306												
	PNA95-C20-2		8700												
	PNA95-C4-2		8380												
	PNA95-C20-3		815												
	PNA95-C12-2(1)		817												
	PNA95-C20-4		1000												
	PNA95-C15-2		913												

**Trace Elements in Core Solids**

**C5-Core Traces**

Variable	Ga	Gd	Hf	Ho	In	La	Lu	Mo	Nb	Nd	Ni	Pb	Pr	Rb	Sc
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Determination Limits	0.1	0.02	0.05	0.02	0.05	0.1	0.02	0.2	0.05	0.1	10	10	0.02	0.05	0.5
Analytical Method	ICPMS-110	ICPMS-100	ICPMS-110	ICPMS-100	ICPMS-110	ICPMS-100	ICPMS-100	ICPMS-110	ICPMS-110	ICPMS-100	ICPES-110	ICPES-110	ICPMS-100	ICPMS-110	ICPES-110
PNA95-C1-1	16	3.2	3.0	0.55	<0.05	17	0.23	3.9	6.4	17	200	97*	4.4	22	18
PNA95-C1-2	17	3.5	3.1	0.57	<0.05	18	0.25	2.7	6.5	18	170	100*	4.6	24	19
PNA95-C1-3	21	4.2	2.8	0.66	0.10	25	0.26	8.7	6.3	25	460	350	6.3	24	23
PNA95-C2-1	14	3.3	2.7	0.53	0.08	18	0.20	6.5	5.3	17	370	150	4.5	19	15
PNA95-C2-2	17	3.4	3.0	0.56	<0.05	17	0.25	3.4	6.6	17	210	93*	4.3	23	16
PNA95-C2-3	21	4.7	2.8	0.71	0.08	27	0.28	9.4	6.5	26	460	380	6.9	25	22
PNA95-C3-1	17	3.6	3.1	0.58	0.05	18	0.24	4.2	6.5	19	240	110	4.7	22	17
PNA95-C3-2	21	4.4	2.8	0.68	0.08	26	0.27	9.5	6.4	25	480	370	6.5	25	21
PNA95-C4-1	18	4.7	3.4	0.81	0.15	19	0.31	79	6.4	20	1800	120	5.1	20	24
PNA95-C4-2	18	4.5	3.4	0.69	0.15	18	0.29	80	6.0	20	2200	160	5.0	25	21
PNA95-C5-2	19	4.7	3.5	0.76	0.14	18	0.30	70	6.4	21	1700	110	5.1	20	24
PNA95-C5-3	19	4.6	3.5	0.73	0.16	18	0.29	73	6.4	21	1800	110	5.1	24	23
PNA95-C5-4	19	4.7	3.6	0.75	0.14	18	0.30	78	6.4	20	1600	110	5.0	23	23
PNA95-C6-1/C6-2	18	4.9	3.8	0.77	0.10	19	0.29	36	6.8	21	1100	140	5.3	16	20
PNA95-C6-3	19	4.0	3.4	0.60	<0.05	26	0.24	7.4	7.0	25	310	300	6.7	23	17
PNA95-C7-1/C7-2	17	3.8	3.5	0.59	<0.05	22	0.23	4.1	6.4	22	270	180	5.6	23	17
PNA95-C8-1	19	4.1	3.3	0.64	0.06	22	0.27	7.4	6.5	22	290	280	5.7	22	19
PNA95-C8-2	19	4.0	3.3	0.63	0.06	21	0.26	5.3	6.5	21	260	170	5.5	22	19
PNA95-C9-1/C9-2	17	3.9	2.7	0.60	0.09	20	0.26	16	5.4	20	540	400	5.2	23	19
PNA95-C9-3	18	3.9	3.0	0.68	0.06	23	0.28	14	6.1	22	590	310	5.6	26	19
PNA95-C9-4	17	4.1	3.3	0.72	0.08	23	0.29	13	6.2	22	570	340	5.8	21	18
PNA95-C9-5	15	3.6	3.9	0.62	<0.05	25	0.26	4.4	6.3	22	370	100*	5.9	42	13
PNA95-C10-1/C10-2	17	4.1	3.1	0.68	0.11	22	0.28	5.7	5.8	22	520	340	5.6	22	19
PNA95-C10-3	21	4.2	2.6	0.72	0.05	25	0.28	6.8	6.3	24	440	200	6.2	26	20
PNA95-C11-1/C11-2	15	4.1	3.3	0.68	0.08	20	0.26	3.7	5.9	20	610	280	5.1	14	18
PNA95-C11-3A	15	3.9	3.5	0.68	0.08	20	0.27	4.1	6.1	20	580	240	5.1	15	18
PNA95-C11-3B	15	4.2	4.4	0.73	0.09	21	0.30	9.6	6.4	21	770	260	5.4	13	18
PNA95-C12-1	16	4.2	3.1	0.78	0.11	18	0.31	3.4	5.3	19	360	300	4.7	23	25
PNA95-C12-2(1)	16	4.5	2.8	0.91	0.10	16	0.37	8.7	5.1	17	130	510	4.2	22	29
PNA95-C12-2(e)	16	4.6	2.8	0.93	0.09	16	0.38	6.1	5.0	18	130	460	4.2	23	29
PNA95-C13-1	16	3.9	3.5	0.71	0.07	20	0.29	5.0	6.0	19	290	230	5.0	27	20
PNA95-C13-2	17	3.4	3.4	0.66	0.06	16	0.27	4.4	6.4	16	140	180	4.0	25	18
PNA95-C13-3	21	4.8	3.1	0.75	0.09	27	0.28	6.5	6.6	25	290	340	7.0	36	21
PNA95-C13-4	18	4.4	2.8	0.72	0.11	21	0.29	6.3	5.7	22	310	310	5.9	30	23
PNA95-C14-1	15	3.0	3.1	0.58	<0.05	15	0.26	3.2	6.2	15	96	110	3.7	23	16
PNA95-C14-2	16	3.6	3.5	0.70	<0.05	18	0.29	6.5	5.8	18	170	140	4.6	26	21
PNA95-C14-3(1)	21	5.2	3.1	0.78	0.07	30	0.30	7.2	7.4	28	300	350	7.8	34	18
PNA95-C14-3(2)	20	4.7	3.1	0.72	0.07	26	0.29	7.8	6.5	25	320	240	6.7	31	20
PNA95-C15-1(1)	17	3.2	3.1	0.67	<0.05	14	0.27	4.7	6.3	14	130	210	3.5	24	18
PNA95-C15-1(2)	17	3.4	3.1	0.67	<0.05	15	0.28	4.6	6.3	15	120	210	3.9	25	18
PNA95-C15-2	17	3.6	3.2	0.68	<0.05	16	0.28	4.1	6.3	17	250	200	4.5	24	18
PNA95-C15-3	21	4.9	2.9	0.74	0.08	26	0.29	14	6.8	25	310	350	6.7	23	20
PNA95-C19-1	19	5.6	3.7	1.10	0.16	16	0.43	160*	6.7	19	2400	44*	4.7	12	34

**Trace Elements in Core Solids**

**C5-Core Traces**

Variable	Ga	Gd	Hf	Ho	In	La	Lu	Mo	Nb	Nd	Ni	Pb	Pr	Rb	Sc
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Determination Limits	0.1	0.02	0.05	0.02	0.05	0.1	0.02	0.2	0.05	0.1	10	10	0.02	0.05	0.5
Analytical Method	ICPMS-110	ICPMS-100	ICPMS-110	ICPMS-100	ICPMS-110	ICPMS-100	ICPMS-100	ICPMS-110	ICPMS-110	ICPMS-100	ICPES-110	ICPES-110	ICPMS-100	ICPMS-110	ICPES-110
PNA95-C19-2	21	5.9	4.4	1.00	0.14	19	0.38	250*	8.8	22	2500	32*	5.6	20	26
PNA95-C19-3	22	6.5	5.1	1.20	0.05	19	0.41	320*	10	23	2700	18*	5.7	15	26
PNA95 C21-1 (Blank)															
ICP-MS*															
ICP-ES**															
Duplicates															
PNA95-C8-2	19	4.0	3.3	0.63	0.06	21	0.26	5.3	6.5	21	260	170	5.5	22	19
147-97-46	18	3.9	3.4	0.69	<0.05	20	0.27	5.9	6.8	20	250	170	5.2	17	17
PNA95-C15-1(1)	17	3.2	3.1	0.67	<0.05	14	0.27	4.7	6.3	14	130	210	3.5	24	18
PNA95-C15-1(2)	17	3.4	3.1	0.67	<0.05	15	0.28	4.6	6.3	15	120	210	3.9	25	18
147-97-47	17	3.3	3.2	0.64	0.06	14	0.28	4.5	6.3	15	130	210	3.7	24	18
PNA 95-C20-1															
PNA95-C1-2															
PNA95-C20-2															
PNA95-C4-2															
PNA95-C20-3															
PNA95-C12-2(1)															
PNA95-C20-4															
PNA95-C15-2															

**Trace Elements in Core Solids**

**C5-Core Traces**

Variable	Sm	Sn	Sr	Ta	Tb	Th	Tl	Tm	U	V	Y	Yb	Zn	Zr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Determination Limits	0.02	0.5	5	0.2	0.02	0.02	0.02	0.02	0.02	5	0.02	0.05	5	10
Analytical Method	ICPMS-100	ICPMS-110	ICPES-110	ICPMS-110	ICPMS-100	ICPMS-110	ICPMS-110	ICPMS-100	ICPMS-110	ICPES-110	ICPMS-100	ICPMS-100	ICPES-110	ICPES-110
PNA95-C1-1	3.4	1.4	100	0.5	0.50	5.3	0.15	0.25	2.0	120	18	1.6	180	120
PNA95-C1-2	3.7	1.1	100	0.6	0.50	5.8	0.14	0.26	2.1	130	19	1.6	110	120
PNA95-C1-3	4.7	1.8	88	0.6	0.61	6.6	0.19	0.27	2.5	170	22	1.7	360	100*
PNA95-C2-1	3.5	2.4	91	0.5	0.47	4.6	0.16	0.21	1.8	110	17	1.4	430	100*
PNA95-C2-2	3.7	1.4	97	0.6	0.50	5.7	0.14	0.26	2.1	110	18	1.6	120	110
PNA95-C2-3	5.1	2.1	85	0.6	0.66	7.2	0.20	0.29	2.8	160	22	1.9	390	100*
PNA95-C3-1	3.9	3.8	96	0.5	0.54	5.7	0.13	0.26	2.2	120	19	1.6	160	120
PNA95-C3-2	4.9	1.9	86	0.6	0.65	6.7	0.21	0.28	2.6	160	22	1.8	390	100
PNA95-C4-1	4.6	2.8	75	0.4	0.75	4.0	0.19	0.32	2.5	180	25	2.0	480	120
PNA95-C4-2	4.5	2.4	100	0.5	0.65	4.2	0.26	0.29	2.2	160	23	1.9	630	130
PNA95-C5-2	4.6	3.0	76	0.5	0.72	4.2	0.21	0.33	2.4	170	25	2.0	440	130
PNA95-C5-3	4.6	2.7	83	0.5	0.69	4.3	0.23	0.31	2.3	170	24	1.9	420	130
PNA95-C5-4	4.7	2.9	82	0.5	0.71	4.2	0.23	0.32	2.3	170	24	2.0	400	140
PNA95-C6-1/C6-2	4.8	1.7	78	0.6	0.73	5.0	0.15	0.31	2.8	150	25	2.0	310	150
PNA95-C6-3	4.7	2.1	90	0.6	0.57	6.6	0.18	0.26	2.6	120	19	1.6	180	130
PNA95-C7-1/C7-2	4.3	1.8	91	0.6	0.54	5.5	0.14	0.26	2.3	110	19	1.6	220	130
PNA95-C8-1	4.4	3.1	84	0.6	0.63	6.1	0.20	0.28	2.3	140	21	1.7	260	120
PNA95-C8-2	4.3	1.8	88	0.5	0.59	6.2	0.14	0.27	2.4	130	20	1.7	160	120
PNA95-C9-1/C9-2	4.1	5.5	88	0.5	0.56	5.2	0.25	0.26	3.0	150	19	1.6	440	100*
PNA95-C9-3	4.5	7.3	100	0.4	0.64	6.0	0.24	0.26	3.4	140	20	1.7	410	110
PNA95-C9-4	4.7	13.0	99	0.4	0.67	5.2	0.24	0.28	2.7	130	22	1.8	400	110
PNA95-C9-5	4.3	5.4	170	0.4	0.57	5.5	0.25	0.24	2.1	92	19	1.6	170	140
PNA95-C10-1/C10-2	4.4	4.7	92	0.4	0.66	5.2	0.20	0.27	2.3	140	21	1.8	360	110
PNA95-C10-3	4.8	5.3	88	0.4	0.68	6.8	0.15	0.29	3.1	150	21	1.8	200	96*
PNA95-C11-1/C11-2	4.4	4.9	85	0.4	0.67	4.0	0.14	0.26	1.9	130	20	1.8	280	120
PNA95-C11-3A	4.2	3.4	90	0.4	0.66	4.0	0.14	0.29	2.0	130	21	1.7	260	130
PNA95-C11-3B	4.5	5.2	85	0.4	0.68	4.0	0.13	0.29	2.8	120	21	1.8	280	160
PNA95-C12-1	4.1	1.9	75	0.3	0.68	3.2	0.17	0.33	1.9	180	23	2.1	380	110
PNA95-C12-2(1)	4.3	1.5	70	0.3	0.78	2.4	0.18	0.36	2.0	200	26	2.4	350	100*
PNA95-C12-2(e)	4.4	1.0	69	0.3	0.81	2.4	0.18	0.38	1.8	200	27	2.4	370	100*
PNA95-C13-1	4.2	4.0	78	0.4	0.64	4.4	0.17	0.29	2.0	140	21	1.9	320	130
PNA95-C13-2	3.4	5.2	85	0.4	0.56	4.5	0.15	0.27	1.8	130	19	1.8	200	120
PNA95-C13-3	5.0	3.6	87	0.5	0.72	6.0	0.32	0.30	2.3	150	25	1.9	470	110
PNA95-C13-4	4.7	3.7	79	0.4	0.66	4.4	0.27	0.29	2.0	160	23	1.8	420	100*
PNA95-C14-1	3.2	1.5	83	0.4	0.51	4.2	0.13	0.25	1.6	130	17	1.7	110	110
PNA95-C14-2	3.9	1.7	82	0.4	0.61	3.4	0.13	0.29	1.7	150	20	1.9	180	130
PNA95-C14-3(1)	5.6	3.8	94	0.6	0.75	6.7	0.31	0.31	2.5	130	26	2.0	400	100
PNA95-C14-3(2)	5.2	3.8	89	0.5	0.68	6.3	0.27	0.30	2.5	140	24	1.8	420	100
PNA95-C15-1(1)	3.3	3.1	79	0.4	0.56	4.5	0.15	0.28	1.6	140	19	1.8	190	110
PNA95-C15-1(2)	3.5	2.0	79	0.4	0.57	4.6	0.17	0.27	1.7	140	19	1.8	200	110
PNA95-C15-2	3.6	2.7	82	0.5	0.58	4.5	0.21	0.27	1.7	130	20	1.8	270	110
PNA95-C15-3	5.3	3.4	69	0.5	0.70	6.4	0.26	0.30	2.5	150	24	1.9	390	100
PNA95-C19-1	5.1	6.6	48	0.4	0.96	2.8	0.10	0.43	2.1	260	33	2.8	160	130

**Trace Elements in Core Solids**

**C5-Core Traces**

Variable	Sm	Sn	Sr	Ta	Tb	Th	Tl	Tm	U	V	Y	Yb	Zn	Zr
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Determination Limits	0.02	0.5	5	0.2	0.02	0.02	0.02	0.02	0.02	5	0.02	0.05	5	10
Analytical Method	ICPMS-100	ICPMS-110	ICPES-110	ICPMS-110	ICPMS-100	ICPMS-110	ICPMS-110	ICPMS-100	ICPMS-110	ICPES-110	ICPMS-100	ICPMS-100	ICPES-110	ICPES-110
PNA95-C19-2	5.3	2.3	57	0.6	0.97	4.7	0.18	0.41	2.6	190	32	2.5	150	160
PNA95-C19-3	5.9	1.2	54	0.7	1.10	5.2	0.13	0.46	3.1	190	37	2.7	140	190
PNA95 C21-1 (Blank)														
ICP-MS*														
ICP-ES**														
Duplicates														
PNA95-C8-2	4.3	1.8	88	0.5	0.59	6.2	0.14	0.27	2.4	130	20	1.7	160	120
147-97-46	4.3	2.6	83	0.5	0.62	5.4	0.13	0.26	2.1	130	20	1.8	160	120
PNA95-C15-1(1)	3.3	3.1	79	0.4	0.56	4.5	0.15	0.28	1.6	140	19	1.8	190	110
PNA95-C15-1(2)	3.5	2.0	79	0.4	0.57	4.6	0.17	0.27	1.7	140	19	1.8	200	110
147-97-47	3.3	3.2	82	0.4	0.55	4.5	0.17	0.27	1.7	140	19	1.8	190	110
PNA 95-C20-1														
PNA95-C1-2														
PNA95-C20-2														
PNA95-C4-2														
PNA95-C20-3														
PNA95-C12-2(1)														
PNA95-C20-4														
PNA95-C15-2														



Cations in Pore Water Samples

C6-SRC Traces

Trace elements as well as carbon and sulfur in selected core samples of Nipissing tailings (Analysis conducted by the Saskatchewan Research Council Geochemical Laboratory)														
Variable	Ag	As	Bi	Co	Cu	Mo	Ni	Pb	Sb	Te	Zn	Total C	Organic C	Total S
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	%	%	%
Detection Limits	0.1	1	1	5	10	1	10	10	1	1	10	0.05	0.05	0.05
Analytical Method	ICPES	ICPES	ICPES	ICPES	ICPES	ICPES	ICPES	ICPES	ICPES	ICPES	ICPES	IR	IR	IR
C 16A	3.9	6900	37	1560	440	3	1460	177	192	1	171	0.57	0.07	0.14
C 16B	3.3	7100	41	1680	470	3	1441	150	242	1	190	0.48	0.13	0.14
C 16C	3.2	7000	34	1670	470	4	1589	195	201	1	220	0.59	0.08	0.21
C 172A	2.4	5800	44	1607	520	2	1333	300	145	1	280	0.75	0.11	0.20
C 172B	2.2	4400	42	1138	280	4	935	247	141	1	217	0.80	0.11	0.18
C 173	1.8	3900	38	1074	230	4	851	299	152	1	189	0.82	0.15	0.18
C 174	2.0	3400	41	933	200	4	686	279	140	1	187	0.86	0.20	0.18
C 18A	1.9	12000	75	5991	759	104	2754	69	53	1	269	0.48	0.23	0.29
C 18B	1.6	15000	111	7201	950	85	3808	122	161	1	670	1.06	0.22	0.40
C 20A	0.8	10000	85	5887	466	89	2250	64	107	1	236	0.17	0.16	0.18
C 20B	1.2	11900	95	7390	1900	60	2835	51	93	1	244	0.27	0.19	0.24
C 20C	1.2	7300	72	3784	2100	22	1294	43	57	1	161	0.38	0.24	0.26
C 20D	0.9	6100	66	3319	1900	18	1055	42	51	1	145	0.46	0.26	0.25
C 20E	1.6	7500	65	4299	2500	20	1386	67	67	1	210	0.53	0.30	0.28
LSE (Ref Sample)	0.1	8	1	39	51	13	48	16	1	1	210	-	-	-

Cations in Pore Water Samples

C7-Cations-Pore-1995

Report No.	Variable	Si	Ti	Al	Fe	Mn	Mg	Ca	Na	K	Ag	As	B	Ba	Be	Bi
52-95	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
	Determination Limits	10	1	100	3	100	2	5	20	20	1	500	16	2	5	1
	Analytical Method	ICPES-120	ICPES-120	ICPES-120	ICPES-120	ICPES-120	ICPES-120	ICPES-120	ICPES-120	ICPES-120	ICPMS-120	ICPES-120	ICPES-120	ICPMS-120	ICPMS-120	ICPMS-120
	PNA95 C1-1	8800	4	600	1200	1400	26000	330000	22000	5400	<1	1400	16	200	<5	1
	PNA95 C1-3	18000	31	4500	8200	350	12000	79000	20000	5500	32	2900	49	47	<5	8
	PNA95 C2-1	10000	<1	200	360	3700	25000	260000	23000	11000	1	1900	68	140	<5	1
	PNA95 C2-2	20000	47	5800	11000	420	25000	180000	28000	8000	15	2100	35	160	<5	24
	PNA95 C2-3	17000	19	2500	4700	190*	15000	61000	31000	8500	14	14000	79	40	<5	6
	PNA95 C3-1	12000	4	320	770	660	25000	220000	30000	12000	1	2600	45	160	<5	2
	PNA95 C3-2	12000	5	350	750	230	23000	120000	32000	8600	3	3400	79	91	<5	1
	PNA95 C4-1	20000	4	420	940	750	29000	150000	19000	3600	2	19000	110	140	<5	10
	PNA95 C4-2	22000	10	680	1300	670	36000	170000	19000	4000	1	37000	150	180	<5	7
	PNA95 C5-1	23000	2	150*	200	480	52000	860000	17000	4300	1	9300	71	230**	<5	2
	PNA95 C5-2	18000	3	220	540	800	27000	230000	8300	2600	1	33000	90	230**	<5	8
	PNA95 C5-3	12000	12	1200	2200	480	32000	230000	19000	2200	11	4000	120	130	<5	2
	PNA95 C6-1	19000	9	990	1900	4100	27000	140000	25000	4900	2	22000	61	76	<5	4
	PNA95 C6-2	11000	5	360	720	78*	15000	68000	22000	5800	1	16000	16	15	<5	1
	PNA95 C7-1	19000	44	4800	9400	650	40000	480000	52000	8500	12	1400	26	200**	<5	9
	PNA95 C8-1	9900	8	630	1200	150*	29000	250000	34000	4900	<1	980	42	200**	<5	1
	PNA95 C8-2	12000	7	570	1100	98*	18000	53000	69000	17000	4	14000	140	41	<5	3
	PNA95 C9-1	5600	6	420	980	1300	53000	560000	27000	7200	<1	1300	76	180	<5	1
	PNA95 C9-2	6400	9	710	1200	890	52000	350000	28000	8500	<1	4300	110	120	<5	1
	PNA95 C9-3	6100	5	440	800	150*	29000	150000	24000	5700	6	3500	57	52	<5	1
	PNA95 C9-4	6200	10	740	1100	360	25000	120000	25000	6600	4	860	91	77	<5	1
	PNA95 C10-1N	6400	1	56**	150	500	76000	730000	30000	7200	<1	560	94	170	<5	<1
	PNA95 C10-2	7500	6	520	970	870	110000	1020000	34000	12000	1	570	51	120	<5	1
	PNA95 C11-1N	8100	3	150**	200	260	63000	690000	26000	5000	1	860	110	140	<5	<1
	PNA95 C11-2N	4800	4	270	590	1000	82000	850000	31000	8800	1	6500	96	200**	<5	2
	PNA95 C11-3	8200	15	1800	3200	2200	82000	1060000	30000	8800	11	12000	91	200**	<5	6
	PNA95 C12-1	6700	7	960	2000	200	16000	90000	16000	2900	6	1900	73	54	<5	2
	PNA95 C13-1	14000	19	2300	5600	2500	21000	200000	18000	11000	6	1800	43	170	<5	3
	PNA95 C13-2	9900	31	2100	4000	400	12000	98000	22000	8400	4	1600	17	100	<5	3
	PNA95 C13-3	16000	53	5000	9000	640	17000	97000	17000	8600	32	1300	20	77	<5	10
	PNA95 C13-4	26000	80	11000	19000	1200	32000	160000	19000	20000	87	2500	<16	160	<5	25
	PNA95 C14-1	20000	57	4800	11000	340	18000	130000	6500	4300	9	1100	29	91	<5	11
	PNA95 C14-2	15000	39	3400	6100	480	38000	230000	18000	1600	15	1500	24	110	<5	8
	PNA95 C14-3N	8400	8	610	1200	720	24000	130000	18000	950	3	670	27	45	<5	1
	PNA95 C15-2	14000	24	2200	4600	620	31000	360000	29000	4800	8	900	200	220**	<5	3
* ICP-MS	PNA95 C15-3	17000	70	6400	12000	520	35000	190000	24000	2600	78	1100	160	100	<5	14
** ICP-ES	PNA95 C19-1	39000	41	15000	30000	860	30000	250000	3100	5100	4	160000	83	39	<5	73

Cations in Pore Water Samples

C7-Cations-Pore-1995

Variable	Cd	Co	Cr	Cs	Cu	Ga	Hg	In	Li	Mo	Ni	Pb	Rb	Sb	Sc
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Determination Limits	2	100	1	1	2	1	1	1	1	2	100	1	1	1	1
Analytical Method	ICPMS-120	ICPES-120	ICPMS-120	ICPMS-120	ICPMS-120	ICPMS-120	ICPMS-120	ICPMS-120	ICPES-120	ICPMS-120	ICPES-120	ICPMS-120	ICPMS-120	ICPMS-120	ICPES-120
PNA95 C1-1	<2	1900	30	1	11	<1	<1	<1	13	150	850	15	15	390	<1
PNA95 C1-3	<2	210	60	<1	75	4	<1	<1	26	160	200	100	18	1800	1.1
PNA95 C2-1	<2	920	22	1	7	<1	<1	<1	1	71	400	8	18	130	<1
PNA95 C2-2	<2	750	69	1	110	4	<1	<1	27	82	550	181	17	1500	1.4
PNA95 C2-3	<2	170*	39	<1	35	2	<1	<1	24	150	160*	76	15	2100	<1
PNA95 C3-1	<2	1100	28	1	25	<1	<1	<1	13	50	930	18	20	850	<1
PNA95 C3-2	<2	200	25	<1	15	<1	<1	<1	22	180	260	20	13	2700	<1
PNA95 C4-1	<2	5600	26	<1	66	<1	<1	<1	6	>200	3200	16	6	1300	<1
PNA95 C4-2	<2	5500	28	<1	69	<1	<1	<1	18	>200	4700	15	4	10000	2.4
PNA95 C5-1	5	74000	27	<1	180	<1	<1	<1	34	>200	42000	4	4	10000	<1
PNA95 C5-2	<2	12000	29	<1	61	<1	<1	<1	8	>200	8500	15	4	6300	<1
PNA95 C5-3	<2	5700	34	<1	62	1	<1	<1	11	130	5100	28	6	1800	<1
PNA95 C6-1	<2	5100	34	1	23	1	<1	<1	29	>200	4100	22	12	1800	<1
PNA95 C6-2	<2	99*	29	<1	14	<1	<1	<1	24	>200	110*	14	11	2400	<1
PNA95 C7-1	<2	2500	63	<1	55	4	<1	<1	46	160	1200	89	8	1200	1.1
PNA95 C8-1	<2	610	33	<1	13	1	<1	<1	7	>200	530	27	9	800	<1
PNA95 C8-2	<2	130*	27	<1	32	<1	<1	<1	10	>200	190*	27	29	9600	<1
PNA95 C9-1	<2	1600	27	1	7	<1	<1	<1	12	>200	1400	34	8	2100	<1
PNA95 C9-2	2	4500	27	1	13	1	<1	<1	15	>200	3100	22	8	9200	<1
PNA95 C9-3	2	1800	25	<1	72	<1	<1	<1	5	>200	1000	29	5	9100	<1
PNA95 C9-4	<2	120*	29	<1	31	1	<1	<1	1	130	160*	10	8	1900	<1
PNA95 C10-1N	<2	2200	25	<1	4	<1	<1	<1	16	53	1900	6	6	630	<1
PNA95 C10-2	<2	1500	28	<1	30	<1	<1	<1	17	89	4800	9	4	1800	<1
PNA95 C11-1N	<2	6400	25	<1	8	<1	<1	<1	23	95	5800	11	4	8600	<1
PNA95 C11-2N	<2	4900	28	1	12	<1	<1	<1	19	>200	4500	19	13	2000	<1
PNA95 C11-3	4	36000	43	1	56	2	<1	<1	28	>200	29000	80	17	8000	<1
PNA95 C12-1	<2	390	47	<1	53	1	<1	<1	10	33	280	56	9	750	1.0
PNA95 C13-1	<2	930	42	<1	25	2	<1	<1	13	32	300	66	20	110	1.1
PNA95 C13-2	<2	120*	38	<1	22	1	<1	<1	16	51	130*	72	13	310	2.8
PNA95 C13-3	<2	180*	62	<1	31	4	<1	<1	16	11	220	158	32	380	1.2
PNA95 C13-4	<2	350	120	1	150	9	<1	<1	28	12	460	396	67	560	1.2
PNA95 C14-1	<2	610	67	1	130	4	<1	<1	14	22	270	192	21	220	1.3
PNA95 C14-2	<2	870	53	<1	54	3	<1	<1	16	42	540	108	10	1000	1.3
PNA95 C14-3N	<2	85*	27	<1	18	<1	<1	<1	6	24	230	25	4	720	<1
PNA95 C15-2	<2	2700	36	<1	65	2	<1	<1	25	15	980	69	9	490	<1
PNA95 C15-3	<2	430	79	<1	190	4	<1	<1	17	28	290	158	8	890	1.4
PNA95 C19-1	6	3100	91	1	390**	11	<1	<1	89	>200	1700	49	18	7000	3.2

**Cations in Pore Water Samples**

C7-Cations-Pore-1995

Variable	Se	Sr	Tl	U	V	Zn
Units	ppb	ppb	ppb	ppb	ppb	ppb
Determination Limits	10	1	1	1	1	10
Analytical Method	ICPMS-120	ICPES-120	ICPMS-120	ICPMS-120	ICPMS-120	ICPMS-120
PNA95 C1-1	<10	340	<1	10	5	66
PNA95 C1-3	<10	140	<1	8	38	70
PNA95 C2-1	<10	270	<1	8	2	37
PNA95 C2-2	<10	270	<1	6	44	130
PNA95 C2-3	<10	220	<1	8	30	41
PNA95 C3-1	<10	290	<1	18	6	55
PNA95 C3-2	<10	360	<1	20	9	14
PNA95 C4-1	<10	210	<1	1	7	110
PNA95 C4-2	<10	280	<1	<1	11	80
PNA95 C5-1	<10	720	<1	1	8	1600**
PNA95 C5-2	<10	270	<1	1	8	150
PNA95 C5-3	<10	290	<1	<1	12	190
PNA95 C6-1	<10	280	<1	3	16	48
PNA95 C6-2	<10	150	<1	11	14	<10
PNA95 C7-1	<10	650	<1	19	37	150
PNA95 C8-1	<10	350	<1	5	11	42
PNA95 C8-2	<10	230	<1	7	19	14
PNA95 C9-1	<10	500	<1	20	4	70
PNA95 C9-2	10	390	<1	23	16	120
PNA95 C9-3	11	190	<1	7	17	62
PNA95 C9-4	<10	160	<1	3	14	14
PNA95 C10-1N	<10	650	<1	6	2	140
PNA95 C10-2	16	850	<1	39	6	35
PNA95 C11-1N	19	560	<1	4	4	550**
PNA95 C11-2N	17	730	<1	8	6	170
PNA95 C11-3	17	870	<1	32	30	1100**
PNA95 C12-1	11	140	<1	2	14	54
PNA95 C13-1	15	190	<1	1	23	60
PNA95 C13-2	10	110	<1	3	17	40
PNA95 C13-3	<10	130	<1	8	41	70
PNA95 C13-4	<10	210	<1	15	93	130
PNA95 C14-1	10	180	<1	1	45	120
PNA95 C14-2	12	310	<1	4	27	83
PNA95 C14-3N	13	200	<1	9	10	20
PNA95 C15-2	15	390	<1	<1	15	190
PNA95 C15-3	18	260	<1	2	47	180
PNA95 C19-1	18	160	<1	2	220	110

Anions in Pore Water Samples

C8-Anions-Pore-1995

Report No.	Variable	NO2	NO3	F	PO4	Br	SO4	Cl
50-95	Units	ppb	ppb	ppb	ppb	ppb	ppm	ppm
	Determination Limits	50	50	50	50	50	0.05	0.05
	Analytical Method	IC-110	IC-110	IC-110	IC-110	IC-110	IC-110	IC-110
	PNA95 C1-1	<50	<50	<50	<50	nd	864	23.0
	PNA95 C2-1	<50	<50	<50	<50	nd	600	31.5
	PNA95 C2-3 *	<50	<50	nd	<50	<50	nd	nd
	PNA95 C3-1 *	nd	nd	nd	<50	<50	nd	nd
	PNA95 C3-2	1590	1040	<50	<50	<50	312	28.30
	PNA95 C4-1	1550	9520	<50	<50	<50	377	15.20
	PNA95 C4-2	<50	<50	<50	<50	nd	399	14.50
	PNA95 C5-1	nd	24700	nd	nd	nd	2300	9.86
	PNA95 C5-2	<50	<50	<50	<50	nd	652	9.57
	PNA95 C5-3	3030	nd	nd	nd	nd	1520	15.70
	PNA95 C6-1	<50	<50	<50	<50	<50	390	22.60
	PNA95 C7-1N	nd	<50	<50	<50	nd	1410	75.50
	PNA95 C8-1	<50	187	<50	<50	nd	637	32.50
	PNA95 C8-2 *	<50	266	<50	<50	<50	nd	nd
	PNA95 C9-1	<50	<50	<50	<50	nd	1630	16.30
	PNA95 C9-2	<50	<50	<50	<50	nd	979	12.70
	PNA95 C9-3	<50	<50	<50	<50	<50	369	13.60
	PNA95 C9-4	<50	<50	<50	<50	<50	383	22.80
	PNA95 C10-1	<50	<50	nd	<50	nd	2150	17.60
	PNA95 C11-1	<50	<50	nd	<50	nd	1420	20.90
	PNA95 C11-2 *	<50	<50	nd	<50	nd	nd	nd
	PNA95 C12-1	<50	2960	<50	<50	<50	247	30.90
	PNA95 C13-1	<50	22100	<50	<50	<50	542	16.20
	PNA95 C13-2 *	<50	<50	<50	<50	<50	nd	nd
	PNA95 C14-3	<50	<50	<50	<50	<50	225	16.20
	PNA95 C15-3N	<50	<50	nd	<50	nd	1670	11.50

Note: \* indicates insufficient sample available for dilution and analysis

Cations in Pore Water Samples

C9-U 0f S Pore Waters

Pore Waters from Cores PNAC-16, 17 and 18 (analyzed at the Department of Geological Sciences, University of Saskatchewan)

Description	Variable	Ag	Al	As	Au	Ba	Be	Ca	Cd	Co	Cr	Cu	Fe	Hg
	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
	Detection Limits	0.01	1.3	0.16	0.02	0.1	1.5	79	0.01	0.04	0.05	0.2	3.5	0.1
	Analytical Method	ICPMS	ICPMS	ICPMS	ICPMS	ICPMS	ICPMS	ICPMS	ICPMS	ICPMS	ICPMS	ICPMS	ICPMS	ICPMS
Nipissing low grade	PNAC-16	0.42	19.0	263200	<0.02	13.6	<1.5	360800	1.49	347.2	3.92	22.9	383	<0.1
Nipissing high grade	PNAC-18	0.01	10.2	73650	<0.02	22.1	<1.5	139600	1.46	214.1	<0.05	4.0	144	<0.1
Low grade tails near lower dam	PNAC-172	0.02	19.2	149300	<0.02	17.2	<1.5	204300	0.56	732.8	1.99	55.6	210	<0.1
Clear filtrate	PNAC-173f	98.0	364.7	114800	<0.02	14.2	<1.5	40800	2.36	3721	16.57	1291	879	226.6
Organic layer	PNAC-173s	1631	463.2	117100	0.04	17.3	3.9	41530	3.16	3779	14.91	1383	1039	1374
Clear filtrate	PNAC-174f	20.37	19100	207600	0.02	69.8	39.0	49970	3.02	3899	125.3	1750	31670	24.2
Organic layer	PNAC-174s	2775	27150	210000	0.09	88.9	28.6	51620	6.77	5728	167.3	4116	38020	2677
Blank	bk60-95	0.01	1.5	0.28	<0.02	0.11	6.3	309	0.01	0.04	0.07	0.35	5.0	<0.1
Reference standard	SLRS-2	<0.01	84.7	0.49	<0.02	14.0	<1.5	5131	0.05	0.14	0.52	3.09	127	<0.1
Reference standard	SLRS-2	0.01	82.9	0.72	<0.02	14.3	2.2	5243	0.02	0.14	0.59	2.74	132	<0.1
	Recommended value	-	84.4	0.77	-	13.8	-	5700	0.028	0.063	0.45	2.76	129	-

Cations in Pore Water Samples

C9-U 0f S Pore Waters

Pore Waters from Cores PNAC-16, 17 and 18 (analyzed at the Department of Geological Sciences, University of Saskatchewan)

Variable	La	Li	Mg	Mn	Mo	Na	Ni	P	Pb	Rb	S	Sb	Si	Sr	Ti	V
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Detection Limits	0.01	0.9	4	0.09	0.02	7	0.01	1.5	0.1	0.01	560	0.04	30	0.15	0.1	0.03
Analytical Method	ICPMS	ICPMS	ICPMS	ICPMS	ICPMS	ICPMS	ICPMS	ICPMS	ICPMS	ICPMS	ICPMS	ICPMS	ICPMS	ICPMS	ICPMS	ICPMS
PNAC-16	0.31	36.2	17870	19.27	1522	6451	274.0	368.8	1.15	14.03	224000	10890	25110	280.0	59.1	7.07
PNAC-18	0.03	3.7	10610	72.07	2194	2286	504.7	58.2	0.25	6.62	73700	591	12730	146.4	25.4	<0.03
PNAC-172	0.32	<0.9	19060	29.12	846.8	141000	888.4	238.3	8.95	4.19	209000	10680	15260	376.7	33.4	10.89
PNAC-173f	2.91	<0.9	3503	10.97	479.8	283900	1035	418.0	3091	25.58	159000	2949	11590	144.0	54.4	78.6
PNAC-173s	3.20	1.5	3631	11.26	545.7	243900	1046	709.1	2981	26.72	196000	3587	12090	143.9	62.1	80.47
PNAC-174f	25.75	30.2	12490	423.6	123.8	358900	2230	1667	6377	35.67	204000	4081	46560	195.5	532.8	392.3
PNAC-174s	28.88	14.1	12950	454.1	396.1	457800	2646	2728	6660	45.02	256000	11500	81700	204.4	1258	408.5
bk60-95	0.01	4.6	4	0.09	0.02	7	0.01	19.2	0.13	0.01	640	0.10	32	0.15	0.14	0.03
SLRS-2	0.41	1.8	1499	10.89	0.16	1678	0.68	10.6	0.17	1.57	5650	0.24	2194	29.56	2.37	0.22
SLRS-2	0.41	3.1	1519	10.62	0.12	1870	0.92	8.5	0.17	1.48	6440	0.29	2111	29.77	2.75	0.18
Recommended value	-	-	1510	10.1	0.16	1860	1.03	-	0.13	-	-	0.26	-	27.3	-	0.25

Pore Waters from Cores PNAC-16, 17 and 18 (analyzed at the Department of Geological Sciences, University of Saskatchewan)

Variable	W	Zn
Units	ppb	ppb
Detection Limits	0.01	0.08
Analytical Method	ICPMS	ICPMS
PNAC-16	0.97	6.89
PNAC-18	0.64	1.32
PNAC-172	0.66	5.39
PNAC-173f	2.28	12.85
PNAC-173s	2.69	21.33
PNAC-174f	1.49	259.0
PNAC-174s	5.40	296.9
bk60-95	0.02	0.66
SLRS-2	0.01	3.85
SLRS-2	0.01	3.97
Recommended value	-	3.33



Cations in Pore Water Samples

C10-CU Thesis Pore Waters

Pore Water from Cores A1, B1, B2 and B3 (Andrews 1996)

Report No.	Variable	Si	Ti	Al	Fe	Mn	Mg	Ca	Na	K	Ag	As	B
139-95	Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
	Determination Limits	10	1	100	3	4	2	5	20	20	4	500	16
	Analytical Method	ICPES-120	ICPES-120	ICPES-120	ICPES-120	ICPMS-120	ICPES-120	ICPES-120	ICPES-120	ICPES-120	ICPMS-120	ICPES-120	ICPMS-120
	Sample Number/Depth (m)												
	04 (0.6 m)	14000	7.0	130*	300	53	20000	150000	320000	53000	9.3	80000	570
	05 (0.8 m)	12000	10	200	290	96	25000	140000	420000	81000	<4	100000	500
	06 (1.1m)	7200	49	5100	3800	110	5600	36000	600000	89000	6.8	79000	170
	6b (1.1m)	7000	51	5400	4000	110	5300	35000	550000	81000	8.5	72000	62
	6c (1.1m)	7300	46	5800	4100	130	5600	37000	570000	85000	23	76000	210
	07 (1.2m)	7000	65	6300	7700	190	3700	32000	520000	80000	<4	63000	140
	7b (1.2m)	7100	61	6500	7600	200	3900	34000	500000	77000	<4	59000	210
	08 (1.3m)	7100	57	5600	3200	77	4700	37000	660000	97000	<4	170000	440
	8b (1.3m)	7800	63	6700	3400	83	5200	42000	690000	100000	<4	180000	550
	09 (1.3m)	13000	91	5700	9400	130	5700	41000	670000	84000	<4	120000	880
	10 (2.3m)	8000	56	3900	4400	74	2200	34000	660000	85000	<4	170000	1800
	10b (2.3m)	12000	230	6800	8700	120	3500	54000	880000	120000	6.4	220000	2400
	12 (2.6m)	7800	59	3100	2900	57	3600	20000	740000	110000	4.5	290000	2400
	12b (2.6m)	11000	67	4200	3100	63	4800	29000	990000	140000	5.2	380000	3200
	13 (2.79m)	11000	390	9700	3400	26	5100	41000	870000	150000	16	300000	3300
	13b (2.79m)	12000	450	11000	4000	24	5700	47000	940000	160000	12	320000	3600
	14 (2.84m)	12000	97	4300	5900	170	10000	28000	860000	150000	16	440000	2900
	15 (3.04m)	15000	190	3400	5800	160	30000	47000	1170000	210000	37	740000	2600
	16 (3.31m)	14000	280	4300	7800	150	15000	22000	940000	180000	46	580000	3200
	17 (3.49m)	20000	39	4200	4000	110	7300	27000	700000	130000	2.6	140000	10000
	19 (4.22m)	26000	230	5300	10000	98	12000	29000	2090000	460000	33	1570000	5000
	21 (4.54m)	10000	210	7200	9600	150	4500	57000	1080000	260000	9.2	350000	2300
	23 (surface)	20000	22	200	430	38	23000	97000	350000	41000	12	250000	530
	24 (surface)	18000	13	200*	420	33	24000	59000	390000	44000	<4	200000	450
	25 (surface)	18000	28	670	1000	41	20000	34000	490000	53000	<4	190000	480
	26 (surface)	29000	25	4700	12000	170	17000	20000	690000	77000	<4	220000	700

\*ICPMS analyses

\*\*ICPES analyses

Cations in Pore Water Samples

C10-CU Thesis Pore Waters

Pore Water from Cores A1, B1, B2 and B3 (Andrews 1996)

Variable	Ba	Be	Bi	Cd	Co	Cr	Cs	Cu	Ga	In	Li	Mo	Ni
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Determination Limits	10	20	4	10	100	4	4	100	4	4	1	10	100
Analytical Method	ICPMS-120	ICPMS-120	ICPMS-120	ICPMS-120	ICPES-120	ICPMS-120	ICPMS-120	ICPES-120	ICPMS-120	ICPMS-120	ICPES-120	ICPMS-120	ICPES-120
Sample Number/Depth (m)													
04 (0.6 m)	28	<20	<4	<10	1000	13	<4	160*	<4	<4	2	2300	220
05 (0.8 m)	68	<20	<4	<10	1100	14	<4	150*	<4	<4	27	1800	130*
06 (1.1m)	72	<20	4.4	<10	3400	22	<4	430	<4	<4	20	350	500
6b (1.1m)	68	<20	4.0	<10	3100	21	<4	440	<4	<4	20	310	550
6c (1.1m)	74	<20	4.4	<10	3200	24	<4	430	<4	<4	14	320	520
07 (1.2m)	93	<20	<4	<10	5500	32	<4	780	4.1	<4	24	300	590
7b (1.2m)	100	<20	<4	<10	5300	31	<4	780	<4	<4	15	280	590
08 (1.3m)	84	<20	13	<10	4700	30	<4	240	<4	<4	20	510	380
8b (1.3m)	100	<20	16	<10	4800	31	<4	280	<4	<4	24	500	390
09 (1.3m)	72	<20	47	<10	4400	57	<4	25*	<4	<4	30	110	200*
10 (2.3m)	57	<20	34	<10	8100	38	<4	99*	6.1	<4	23	310	200*
10b (2.3m)	86	<20	160	<10	12000	70	<4	1100	12	<4	21	890	1800
12 (2.6m)	32	<20	38	<10	6100	33	<4	100*	4.0	<4	21	350	320
12b (2.6m)	49	<20	44	<10	7400	40	<4	120*	4.7	<4	18	370	350
13 (2.79m)	110	<20	13	<10	12000	72	<4	2500	8.7	<4	21	1300	3600
13b (2.79m)	110	<20	18	<10	14000	68	<4	3200	7.5	<4	14	1400	4600
14 (2.84m)	47	<20	43	<10	2900	53	<4	170*	<4	<4	28	510	1100
15 (3.04m)	75	<20	130	<10	6400	62	<4	1600	<4	<4	23	720	26000
16 (3.31m)	41	<20	120	<10	11000	80	<4	890	<4	<4	25	450	24000
17 (3.49m)	49	<20	26	<10	15000	33	<4	170*	<4	<4	23	140	370
19 (4.22m)	<10	<20	96	<10	44000	76	<4	2500	<4	<4	45	1000	85000
21 (4.54m)	10	<20	160	<10	23000	77	<4	3100	25	<4	18	630	4800
23 (surface)	11	<20	8.5	<10	590	19	<4	650	<4	<4	38	1000	3200
24 (surface)	28	<20	18	<10	410	18	<4	82*	<4	<4	37	410	5400
25 (surface)	18	<20	24	<10	620	26	<4	330	<4	<4	32	270	5500
26 (surface)	26	<20	11	<10	490	46	<4	55*	<4	<4	39	250	5100

\*ICPMS analyses

\*\*ICPES analyses

Cations in Pore Water Samples

C10-CU Thesis Pore Waters

Pore Water from Cores A1, B1, B2 and B3 (Andrews 1996)

Variable	Pb	Rb	Sc	Se	Sr	Tl	U	V	Zn
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Determination Limits	100	4	1	40	1	4	4	4	40
Analytical Method	ICPES-120	ICPMS-120	ICPES-120	ICPMS-120	ICPES-120	ICPMS-120	ICPMS-120	ICPMS-120	ICPMS-120
Sample Number/Depth (m)									
04 (0.6 m)	68*	<4	<1	<40	180	<4	0.2	63*	47
05 (0.8 m)	42*	<4	<1	<40	180	<4	0.3	27*	53
06 (1.1m)	70*	5.8	2.4	<40	40	<4	18	220	89
6b (1.1m)	75*	5.7	<1	<40	38	<4	16	200*	78
6c (1.1m)	88*	6.0	2.5	<40	41	<4	18	220	87
07 (1.2m)	42*	7.5	5.4	<40	33	<4	19	340	120
7b (1.2m)	69*	7.8	5.3	<40	37	<4	16	310	140
08 (1.3m)	190*	7.2	4.0	<40	53	<4	37	380	140
8b (1.3m)	240	7.7	5.0	<40	63	<4	36	400	170
09 (1.3m)	1200	5.5	3.4	<40	120	<4	19	180*	70
10 (2.3m)	700	7.6	4.2	<40	80	<4	28	870	95
10b (2.3m)	2100	14	3.5	<40	140	<4	84	1300	160
12 (2.6m)	820	7.9	2.3	<40	51	<4	48	750	60
12b (2.6m)	810	9.5	1.3	<40	83	<4	52	890	92
13 (2.79m)	260	17	8.9	<40	92	<4	260	750	340**
13b (2.79m)	400	17	8.9	<40	110	<4	250	800	380**
14 (2.84m)	540	9.1	3.2	<40	60	<4	52	210	100
15 (3.04m)	840	19	4.0	<40	160	<4	37	200	190
16 (3.31m)	1300	15	4.8	<40	78	<4	73	290	110
17 (3.49m)	750	6.8	2.5	<40	42	<4	13	870	62
19 (4.22m)	930	28	3.1	<40	11	<4	80	540	97
21 (4.54m)	1600	6.0	<1	<40	7.2	<4	150	3200	87
23 (surface)	58*	11	<1	<40	250	<4	6.0	120*	320**
24 (surface)	120*	18	2.4	<40	240	<4	15	120*	29
25 (surface)	420	23	<1	<40	180	<4	25	140*	27
26 (surface)	100*	26	5.2	<40	110	<4	8.0	170*	86

\*ICPMS analyses

\*\*ICPES analyses