APPENDIX 7—Water chemistry, isotopes and age data

See Appendix 1 for all site locations.

CODE	MEANING	UNIT
3H	Tritium	Tritium Units (TU)
^{3}H:^{3}He Age	Age of Water using dissolved gases	years
Ag	Silver	mg/L
Al	Aluminum	mg/L
ALK	Alkalinity, Total	mg/L
As	Arsenic	mg/L
B	Boron	mg/L
Ba	Barium	mg/L
Be	Beryllium	mg/L
Br	Bromide	mg/L
C13r	^{13}C:^{12}C ratio	ratio
C14	^{14}C content	percent modern carbon
C14 (years)	^{14}C Apparent age (uncorrected)	years
Ca	Calcium	mg/L
Cd	Cadmium	mg/L
CFC11	Chlorofluorocarbon-11 age	years
CFC113	Chlorofluorocarbon-113 age	years
CFC113/12	Chlorofluorocarbon-113/12 ratio age	years
CFC12	Chlorofluorocarbon-12 age	years
Cl	Chloride	mg/L
Co	Cobalt	mg/L
CONDLAB	Conductivity, lab	µs/cm
Cr	Chromium	mg/L
Cu	Copper	mg/L
$\delta^{34}S$	Sulfate 34 isotope ratio	per mil (o/oo)
DO	Dissolved Oxygen, field	mg/L
F	Fluoride	mg/L
Fe	Iron	mg/L
H_2r	Deuterium:Hydrogen ratio	ratio
HCO_3	Bicarbonate	mg/L
Hg	Mercury	mg/L
HRD	Hardness ($CaCO_3$)	mg/L
IONBAL	Ion Balance	%
K	Potassium	mg/L
Li	Lithium	mg/L
Mg	Magnesium	mg/L
Mn	Manganese	mg/L
Mo	Molybdenum	mg/L
Na	Sodium	mg/L
Ni	Nickel	mg/L
NO_2	Nitrite (as NO_2)	mg/L
NO_3	Nitrate (as NO_3)	mg/L
$O^{18}r$	^{18}O:^{16}O ratio	per mil (o/oo)
ORP	Oxidation-Reduction Potential	mV
Pb	Lead	mg/L
pHF	pH, field	pH units
pHL	pH, laboratory	pH units
PO_4	Phosphate	mg/L
Sb	Antimony	mg/L
Se	Selenium	mg/L
Si	Silicon	mg/L
SiO_2	Silica	mg/L
Sn	Tin	mg/L
SO_4	Sulfate	mg/L
Sr	Strontium	mg/L
T	Temperature, field	degrees celsius
TAn	Total Anions	epm
TCat	Total Cations	epm
TDS	Total Dissolved Solids	mg/L
Th	Thorium	mg/L
Ti	Titanium	mg/L
Tl	Thallium	mg/L
U	Uranium (total, by ICP-MS)	mg/L
V	Vanadium	mg/L
Zn	Zinc	mg/L

Sample Type

CODE	MEANING
SD	Standard
RE	Repeat
PR	Precipitation collection

Point ID	UTM NAD83 Easting	UTM NAD83 Northing	Sample Point ID	Sample Type	Collection Date	Site Types	^3H	^3H:^3He Age	Ag	Al	As	B	Ba	Be	Br	C13r	C14	C14 (years)	Ca	Cd	CFC 11	CFC 113	CFC 113_12	CFC 12	Cl	Co	COND LAB	Cr	Cu	$\delta^{34}S$	DO	ERT	F	Fe	H_2r
SM-0001	425532	3617549	SM-0001A	SD	7/10/07	GW	1.32	0	<0.005	<0.005	<0.005	0.051	0.023	<0.005	0.24				195	<0.005		20			78	<0.005	1420	<0.005	<0.005		6.9		<0.5	<0.05	-68
SM-0028	423989	3642203	SM-0028A	SD	8/13/08	GW			<0.005	<0.005	<0.005	0.036	0.03	<0.005	0.04				110	<0.005					20	<0.005	870	<0.005	<0.005	11.8	3.15		<0.5	<0.25	-69.1
SM-0028	423989	3642203	SM-0028B	RE	10/11/10	GW																									8.8				-67.16
SM-0029	421203	3650539	SM-0029A	SD	8/13/08	GW			<0.01	<0.01	<0.01	0.057	<0.05	<0.01	0.064				200	<0.01					125	<0.01	1650	<0.01	0.02	11.4	4.8		<2.5	<1	-63.3
SM-0029	421203	3650539	SM-0029B	RE	4/13/10	GW																									7.2				-66.17
SM-0032	422587	3645221	SM-0032A	SD	8/13/08	GW			<0.01	<0.01	<0.01	0.17	<0.05	<0.01	0.17				190	<0.01		27	24	31	110	<0.01	2020	<0.01	0.011	10	0.72		<2.5	<1	-64.9
SM-0037	418745	3651181	SM-0037A	SD	4/13/10	GW																									5.8				-65.62
SM-0037	418745	3651181	SM-0037B	RE	10/11/10	GW																									6.1				-64.99
SM-1019	422342	3651992	SM-1019A	FP	3/21/06	SP																													
SM-1022	423236	3651989	SM-1022A	FP	3/21/06	SP																									6.13				
SM-1023	427522	3651672	SM-1023A	FP	3/21/06	SP																									8.84				
SM-1023	427522	3651672	SM-1023B	SD	11/13/06	SP	2.99		<0.001	0.004	<0.001	0.019	0.031	<0.001	<0.04				135	<0.001		21	21	22	30	<0.001	930	0.001	0.033		7.61		0.1	0.016	-66
SM-1025	424456	3650067	SM-1025A	FP	3/21/06	SP																									6.97				
SM-1025	424456	3650067	SM-1025B	SD	11/6/06	SP	1.63		<0.001	<0.001	<0.001	0.063	0.031	<0.001	<0.5	-9.6	62.05	3830	180	<0.001					505	<0.001	2650	0.001	0.021		5		<0.5	<0.01	-68
SM-1050	422853	3631247	SM-1050A	FP	8/23/06	SP																									2.08				
SM-1051	422649	3632336	SM-1051A	FP	8/23/06	SP																									7.45				
SM-1051	422649	3632336	SM-1051B	SD	11/6/06	SP	2.91		<0.001	0.002	<0.001	0.012	0.037	<0.001	0.03				92	<0.001		21	20	22	9.5	<0.001	600	<0.001	0.005		5.6		0.13	<0.01	-69
SM-1053	422750	3633345	SM-1053A	FP	8/23/06	SP																									1.49				
TB-0001	414805	3663276	TB-0001A	SD	8/3/10	GW			<0.005	<0.005	<0.005	0.089	<0.025	<0.005	0.2				260	<0.005	0	21		25	210	<0.005	2400	<0.005	<0.005		7.3		0.82	<0.02	-66.19
TB-0007	404909	3661699	TB-0007A	SD	8/2/10	GW	1.14		<0.01	<0.01	<0.01	0.15	<0.05	<0.01	0.21	-13.4	84.64	1340	480	<0.01	0	24		23	170	<0.01	3600	<0.01	<0.01		7.1		0.52	<0.05	-60.31
TB-0007	404909	3661699	TB-0007B	RE	11/30/10	GW																									6.47				-58.08
TB-0008	406824	3661354	TB-0008A	SD	4/18/10	GW																									6.8				-59.86
TB-0012	434100	3716936	TB-0012A	SD	4/21/10	GW																									4				-62.68
TB-0012	434100	3716936	TB-0012B	RE	10/13/10	GW																									4.9				-61.74
TB-0016	417110	3669776	TB-0016A	SD	8/3/10	GW			<0.02	<0.02	<0.02	0.35	<0.1	<0.02	0.6				655	<0.02					720	<0.02	5500	<0.02	<0.02		4.9		2.1	0.045	-58.26
TB-0016	417110	3669776	TB-0016B	RE	10/6/10	GW									0.64				675						715		5020				5		2.1		-57.69
TB-0016	417110	3669776	TB-0016C	RE	12/3/10	GW	1.51														37	29		35							5.07				-58.39
TB-0017	416068	3669782	TB-0017A	SD	10/6/10	GW									0.66				675						730		4810				2.8		1.7		-59.21
TB-0018	418499	3670756	TB-0018A	SD	10/6/10	GW									0.55				615						645		4760				6.4		1.2		-65.66
TB-0020	434473	3713353	TB-0020A	SD	4/23/10	GW																									8				-61.08
TB-0020	434473	3713353	TB-0020B	RE	10/12/10	GW																									5.2				-60.09
TB-0021	434563	3713343	TB-0021A	SD	4/23/10	GW																									4.4				-60.67
TB-0021	434563	3713343	TB-0021B	RE	10/12/10	GW																									6.7				-60.53
TB-0024	401667	3681938	TB-0024A	SD	12/19/08	GW			<0.01	<0.05	<0.002	0.12	<0.1	<0.001					560	<0.001					320		3500	<0.01	<0.05				1.7	<0.1	
TB-0056	400771	3686941	TB-0056A	SD	9/8/10	GW	3.78		<0.02	<0.005	<0.005	0.039	<0.025	<0.005	0.27				340	<0.005					210	<0.005	2320	<0.005	<0.005		8.4		0.68	<0.02	-60.81
TB-0058	401575	3688079	TB-0058A	SD	8/12/10	GW	1.49		<0.01	<0.01	<0.01	0.079	<0.05	<0.01	0.26				340	<0.01					240	<0.01	2450	<0.01	<0.01		4.3		0.55	0.084	-64.06
TB-0070	417478	3696072	TB-0070A	SD	8/12/10	GW	0.5	>60	<0.005	<0.005	<0.005	0.028	<0.25	<0.005	0.077	-14.8	75.67	2240	94	<0.005	44	33		41	65	<0.005	1020	<0.005	<0.005		0.9	15.04	0.18	<0.02	-64.77
TB-0070	417478	3696072	TB-0070B	RE	12/17/10	GW																									3.7				-62.4
TB-0074	404430	3675023	TB-0074A	SD	8/2/10	GW	0.12		<0.01	<0.01	<0.01	0.058	<0.05	<0.01	0.66				520	<0.01	49	41		50	310	<0.01	3450	<0.01	<0.01		7		0.75	<0.05	-63.2
TB-0088	403115	3642807	TB-0088A	SD	4/13/10	GW																									4.7				-63.32
TB-0088	403115	3642807	TB-0088B	FP	10/11/10	GW																									4.5				
TB-0091	406684	3643831	TB-0091A	SD	8/3/10	GW	0.09		<0.005	0.008	<0.005	0.057	<0.025	<0.005	0.13	-8.6	49.93	5580	175	<0.005	46	34		42	250	<0.005	2080	<0.005	<0.005		4.7		<0.5	<0.1	-62.6
TB-0091	406684	3643831	TB-0091B	RE	10/11/10	GW																									3.1				-61.57
TB-0094	434613	3709464	TB-0094A	SD	4/21/10	GW																									6.2				-59.31
TB-0094	434613	3709464	TB-0094B	RE	10/12/10	GW																									6.8				-58.92
TB-0097	418954	3722038	TB-0097A	SD	4/15/10	GW																									8.4				-64.6
TB-0100	416802	3724830	TB-0100A	SD	4/15/10	GW																									5				-64.36
TB-0100	416802	3724830	TB-0100B	SD	8/6/10	GW			<0.01	<0.01	<0.01	0.093	<0.05	<0.01	0.65				240	<0.01					275	<0.01	2300	<0.01	<0.01		3.3		0.47	0.049	-65.82
TB-0100	416802	3724830	TB-0100C	RE	12/3/10	GW	0.21	>60													40	34		40							4.09	16.71			-64.85
TB-0109	431148	3720440	TB-0109A	SD	4/23/10	GW																									7.6				-58.92
TB-0111	401989	3705340	TB-0111A	SD	4/15/10	GW																									0.62				-77.37

Point ID	Sample Point ID	HCO_3	Hg	HRD	IONBAL	K	Li	Mg	Mn	Mo	Na	Ni	NO_2	NO_3	$O^{18}r$	ORP	Pb	pHF	pHL	PO_4	Sb	Se	Si	SiO_2	Sn	SO_4	Sr	T	TAn	TCat	TDS	Th	Ti	Tl	U	V	Zn
SM-0001	SM-0001A	345		749	-1.85	0.48	0.014	66	<0.005	<0.005	42	<0.005	<1	1.4	-10.2		<0.005	7.2	7.2	<2.5	<0.005	0.005	7.3	16	<0.005	460	1.6	16	17.46	16.82	1032	<0.005	<0.005	<0.005	<0.005	<0.005	0.008
SM-0028	SM-0028A	315		418	-0.96	0.68	0.006	36	<0.025	<0.005	21	<0.005	<0.5	0.78	-10.5		<0.005	7.6	7.4	<2.5	<0.025	<0.025	10	4.7	<0.005	180	1	16	9.49	9.31	536	<0.005	<0.005	<0.005	<0.005	<0.005	0.63
SM-0028	SM-0028B														-9.8													10.4									
SM-0029	SM-0029A	350		742	1.86	1.5	0.015	61	<0.05	<0.01	73	<0.01	<2.5	2.7	-10		<0.01	7	7.3	<12.5	<0.05	<0.05	6.4	14	<0.01	390	2.4	16.6	17.43	18.09	1044	<0.01	<0.01	<0.01	<0.01	<0.01	0.01
SM-0029	SM-0029B														-9.96			7.6										15.4									
SM-0032	SM-0032A	425		824	-0.21	1.8	0.031	87	<0.05	<0.01	145	0.01	<2.5	<2.5	-9.6		<0.01	6.9	7.2	<12.5	<0.05	<0.05	8.8	19	<0.01	620	2.5	16	22.98	22.88	1388	<0.01	<0.01	<0.01	0.01	<0.01	0.014
SM-0037	SM-0037A														-9.69			7.1										16.2									
SM-0037	SM-0037B														-9.4													16.4									
SM-1019	SM-1019A																	8.19										8.8									
SM-1022	SM-1022A																	7.39										13.4									
SM-1023	SM-1023A																	7.47										7.4									
SM-1023	SM-1023B	340		450	0.42	0.86	0.003	29	<0.001	0.001	27	0.003	<0.06	2	-10.4		<0.001	7.8	7.6	<0.2	<0.001	0.001	5.7	12	<0.001	180	0.94	8.9	10.21	10.29	589	<0.001	0.001	<0.001	0.002	0.002	0.001
SM-1025	SM-1025A																	7.19										13.3									
SM-1025	SM-1025B	365		623	-2.03	1.1	0.011	44	0.001	0.001	305	0.003	<0.5	2.5	-11.2		<0.001	7.1	7.6	<2.5	<0.001	0.002	5.8	12	<0.001	320	1.8	13	26.86	26.93	1556	<0.001	0.001	<0.001	0.002	0.002	0.001
SM-1050	SM-1050A																	7.14										10.2									
SM-1051	SM-1051A																	7.35										10.4									
SM-1051	SM-1051B	325		316	-0.66	0.5	0.002	22	<0.001	0.001	9.3	0.002	<0.02	2.4	-10.8		<0.001	7.4	7.7	<0.25	<0.001	0.001	4.8	10	<0.001	60	0.53	9.8	6.89	6.8	370	<0.001	0.001	<0.001	0.001	0.002	0.001
SM-1053	SM-1053A																	7.02										13.6									
TB-0001	TB-0001A	260		1020	0.8	2.3	0.026	90	<0.025	<0.005	155	0.005	<0.5	4.6	-9.55		<0.005	7.2	7.3	<2.5	<0.025	<0.025	7.4	17	<0.005	790	3.8	19.5	26.75	27.18	1664	<0.005	<0.005	<0.005	<0.005	<0.005	0.081
TB-0007	TB-0007A	300		2002	1.18	3.5	0.026	195	<0.05	<0.01	190	<0.01	<0.5	13	-8.49		<0.01	6.8	7	<2.5	<0.05	<0.05	11	23	<0.01	1790	7.3	18	47.22	48.35	3023	<0.01	<0.01	<0.01	<0.01	<0.01	0.012
TB-0007	TB-0007B														-8.15			6.89										16.47									
TB-0008	TB-0008A														-8.73			7.2										16.3									
TB-0012	TB-0012A														-9.08			7.5										14.2									
TB-0012	TB-0012B														-8.73			6.8										15.6									
TB-0016	TB-0016A	95		2707	0.84	7.6	0.058	260	<0.1	<0.02	315	<0.02	<1	110	-8.82		<0.02	7.2	7.3	<5	<0.1	<0.1	8.5	22	<0.02	2070	14	19.1	66.85	67.98	4223	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
TB-0016	TB-0016B	105		2715	0.83	6.8		250			310		<0.5	105	-8.51			6.5	7.2	<2.5				21		2070		19	66.8	67.91	4208						
TB-0016	TB-0016C														-8.66			7.3										18.84									
TB-0017	TB-0017A	75		2633	0.59	10		230			275		<0.5	5.3	-8.52			6.6	7.2	<2.5				20		2020		21.3	64.06	64.83	4005						
TB-0018	TB-0018A	58		2360	1.16	4		200			375		<0.5	<0.5	-9.25			7.1	7.5	<2.5				24		2060		24	62.11	63.56	3954						
TB-0020	TB-0020A														-8.9			7.3										13.2									
TB-0020	TB-0020B														-8.72													13.4									
TB-0021	TB-0021A														-8.92			7.4										13.1									
TB-0021	TB-0021B														-8.72													13									
TB-0024	TB-0024A	88	<0.001	2000		7		160	<0.01		150	<0.01		2.4			0.0098		7.3		<0.006	0.0071				2200					3400	<0.001				0.0048	<0.05
TB-0056	TB-0056A	195		1063	-1.15	1.1	<0.005	52	<0.025	0.009	115	0.006	<0.4	2.1	-8.79		<0.02	7	7.2	<2	<0.025	<0.025	12	26	<0.005	850	3.8	17.4	26.89	26.28	1698	<0.02	<0.005	<0.02	<0.02	<0.005	0.006
TB-0058	TB-0058A	230		1179	0.03	1.9	<0.01	80	<0.05	<0.01	120	<0.01	<0.4	1	-9.31		<0.01	6.7	7.1	<2	<0.05	<0.05	11	24	<0.01	875	5.4	19	28.8	28.82	1803	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TB-0070	TB-0070A	92		337	1.23	0.19	<0.005	25	<0.25	0.006	84	<0.005	<0.1	0.27	-9		<0.005	7.7	7.9	<0.5	<0.25	<0.25	12	25	<0.005	325	2.9	17.8	10.13	10.38	667	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB-0070	TB-0070B														-8.36			7.72										17.22									
TB-0074	TB-0074A	140		1875	0.63	4.7	0.02	140	<0.05	<0.01	150	<0.01	<0.5	26	-9.43		<0.01	7	7.1	<2.5	<0.05	<0.05	15	31	<0.01	1540	8.7	21.6	43.56	44.11	2802	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TB-0088	TB-0088A														-9.36			7.3										19.2									
TB-0088	TB-0088B																											19.7									
TB-0091	TB-0091A	225		734	0.76	2.1	0.017	72	<0.025	<0.005	160	<0.005	<0.5	5.6	-9.05		<0.005	7.1	7.3	<2.5	<0.025	<0.025	8.2	19	<0.005	505	2.6	20.7	21.35	21.67	1304	<0.005	<0.005	<0.005	<0.005	<0.005	0.085
TB-0091	TB-0091B														-8.96													21									
TB-0094	TB-0094A														-8.71			7.3										13									
TB-0094	TB-0094B														-8.36													13.7									
TB-0097	TB-0097A														-9.43			7.6										15.7									
TB-0100	TB-0100A														-9.36			7.5										18									
TB-0100	TB-0100B	195		896	-1.6	1.8	0.032	72	<0.05	<0.01	160	<0.01	<0.2	3.3	-8.55		<0.01	7	7.2	<1	<0.05	<0.05	12	28	<0.01	705	5.1	17.3	25.72	24.91	1589	<0.01	<0.01	<0.01	<0.01	<0.01	0.03
TB-0100	TB-0100C														-9.1			7.31										16.44									
TB-0109	TB-0109A														-8.76			7.5										15.8									
TB-0111	TB-0111A														-10.83			7.9										21									

Point ID	UTM NAD83 Easting	UTM NAD83 Northing	Sample Point ID	Sample Type	Collection Date	Site Types	^{3}H	^{3}H:^{3}He Age	Ag	Al	As	B	Ba	Be	Br	C13r	C14	C14 (years)	Ca	Cd	CFC 11	CFC 113	CFC 113_12	CFC 12	Cl	Co	COND LAB	Cr	Cu	$\delta^{34}S$	DO	ERT	F	Fe	H_2r
TB-0111	401989	3705340	TB-0111B	RE	10/18/10	GW																									0.16				-76.26
TB-0113	415828	3720705	TB-0113A	SD	4/15/10	GW																									0.46				-69.9
TB-0113	415828	3720705	TB-0113B	RE	10/14/10	GW																									0.09				-68.74
TB-0117	397722	3708600	TB-0117A	SD	4/18/10	GW																									4.8				-62.62
TB-0117	397722	3708600	TB-0117B	SD	8/5/10	GW	0.14		<0.01	<0.01	<0.01	0.34	<0.05	<0.01	1	-6.5	17.57	13970	595	<0.01	52	35		54	750	<0.01	5575	<0.01	<0.01		4.75		1.3	<0.1	-63.08
TB-0117	397722	3708600	TB-0117C	RE	10/18/10	GW																									6.2				-62.18
TB-0131	408071	3706050	TB-0131A	SD	4/18/10	GW																													-68.45
TB-0131	408071	3706050	TB-0131B	RE	10/15/10	GW																									7.8				-67.51
TB-0137	407096	3650150	TB-0137A	SD	8/10/10	GW			<0.01	<0.01	<0.01	0.073	<0.05	<0.01	0.15				285	<0.01					285	<0.01	2760	<0.01	<0.01		6.8		<0.4	0.023	-63.05
TB-0161	434453	3711985	TB-0161A	SD	4/21/10	GW																									7.6				-61.66
TB-0161	434453	3711985	TB-0161B	SD	8/9/10	GW	3.25		<0.01	<0.01	<0.01	<0.05	<0.05	<0.01	0.14				250	<0.01	49	25			97	<0.01	1980	<0.01	0.017		5.3		0.46	<0.02	-62.79
TB-0166	434371	3711404	TB-0166A	SD	4/21/10	GW																									6.96				-61.61
TB-0170	432443	3709231	TB-0170A	SD	4/21/10	GW																									7.1				-64.68
TB-0170	432443	3709231	TB-0170B	RE	10/12/10	GW																									6.2				-64.16
TB-0171	427256	3720584	TB-0171A	SD	8/9/10	GW	-0.1		<0.01	<0.01	<0.01	0.068	<0.05	<0.01	0.73	-8.9	29.6	9780	275	<0.01	44	33		43	280	<0.01	2380	<0.01	<0.01		6.9		<0.2	<0.02	-59.84
TB-0179	405225	3706244	TB-0179A	SD	8/5/10	GW			<0.01	<0.01	<0.01	<0.05	<0.05	<0.01	0.36				185	<0.01	38	29			235	<0.01	1990	<0.01	<0.01		9.1		0.26	<0.02	-70.3
TB-0182	409901	3709188	TB-0182A	SD	8/11/10	GW			<0.01	<0.01	<0.01	0.054	<0.05	<0.01	0.37				225	<0.01					255	<0.01	2180	<0.01	<0.01		9.6		<0.4	<0.1	-65.43
TB-0188	414574	3714509	TB-0188A	SD	8/24/10	GW			<0.005	<0.005	<0.005	0.095	<0.025	<0.005	0.37				235	<0.005					245	<0.005	2470	<0.005	0.026		6.6		0.79	<0.1	-58.36
TB-0188	414574	3714509	TB-0188B	RE	10/15/10	GW																									5				-59.2
TB-0191	420518	3711063	TB-0191A	SD	4/19/10	GW																									7.2				-66.89
TB-0191	420518	3711063	TB-0191B	RE	10/15/10	GW																									8.2				-65.93
TB-0192	417985	3706677	TB-0192A	SD	8/11/10	GW	1.94	46.2	<0.01	<0.01	<0.01	0.067	<0.05	<0.01	0.21	-12.9	102.39	<60	245	<0.01	32	25		28	145	<0.01	2020	<0.01	<0.01			16.25	0.27	<0.02	-64.29
TB-0192	417985	3706677	TB-0192B	RE	10/15/10	GW																									6.2				-65.35
TB-0192	417985	3706677	TB-0192C	RE	11/30/10	GW																									6.64				-65.55
TB-0193	411501	3706629	TB-0193A	SD	4/19/10	GW																									5.7				-68.85
TB-0199	406653	3699724	TB-0199A	SD	4/14/10	GW																									6.6				-66.26
TB-0200	403690	3699223	TB-0200A	SD	4/14/10	GW																									7.14				-57.29
TB-0200	403690	3699223	TB-0200B	SD	9/7/10	GW			<0.1	<0.005	<0.005	0.22	<0.025	<0.005	0.7				520	<0.005					660	<0.005	4240	<0.005	0.016		7.3		<1	<0.1	-57.02
TB-0200	403690	3699223	TB-0200C	RE	10/14/10	GW																									6.3				-56.32
TB-0206	409095	3719607	TB-0206A	SD	8/2/10	GW	0.11		<0.005	<0.005	<0.005	0.074	<0.025	<0.005	0.45				185	<0.005					230	<0.005	2060	<0.005	<0.005		6.2		0.59	<0.05	-65.87
TB-0206	409095	3719607	TB-0206B	RE	10/14/10	GW																									6.8				-65.28
TB-0208	428019	3731876	TB-0208A	SD	9/7/10	GW	0.18		<0.02	<0.005	<0.005	0.26	<0.025	<0.005	0.53				280	<0.005					200	<0.005	2450	<0.005	<0.005		1.8		1.4	0.05	-67.74
TB-0210	421234	3738617	TB-0210A	SD	9/7/10	GW	0.07		<0.02	<0.005	<0.005	0.44	<0.025	<0.005	0.6	-9.4	3.26	27500	170	<0.005					320	<0.005	2890	<0.005	0.013		1.8		1	0.41	-79.88
TB-0211	422743	3725792	TB-0211A	SD	9/8/10	GW			<0.02	0.013	<0.005	0.059	<0.025	<0.005	0.49				265	<0.005					190	<0.005	2100	<0.005	<0.005		8		0.57	<0.02	-60.77
TB-0214	434450	3712681	TB-0214A	SD	4/21/10	GW																									4.7				-61.31
TB-0214	434450	3712681	TB-0214B	RE	10/12/10	GW																									3.9				-61.37
TB-0230	433003	3715742	TB-0230A	SD	8/9/10	GW			<0.005	<0.005	<0.005	0.03	<0.025	<0.005	0.22				165	<0.005					100	<0.005	1640	<0.005	<0.005		6.9		0.35	0.027	-59.05
TB-0245	404308	3677264	TB-0245A	SD	3/30/05	GW			<0.005	<0.02	0.001		0.022						590	<0.002					1600		8900	<0.006	<0.006				2.2	0.4	
TB-0246	401554	3676497	TB-0246A	SD	5/6/05	GW			<0.005	<0.02	<0.001		0.02						390	<0.002					68		3200	<0.006	0.019				0.59	0.63	
TB-0247	403127	3675126	TB-0247A	SD	2/4/06	GW			<0.005	<0.02	<0.001		<0.02						410	<0.002					170		2800	<0.006	<0.006				0.69	0.14	
TB-0248	404521	3674170	TB-0248A	SD	3/17/05	GW			<0.005	<0.02	<0.001		<0.02						440	<0.002					160		2900	<0.006	0.012				0.59	0.27	
TB-0249	428989	3722660	TB-0249A	SD	4/7/11	GW			<0.005	<0.005	<0.005	0.057	<0.025	<0.005	0.36				250	<0.005					160	<0.005	1950	<0.005	<0.005		7.4		0.56	0.03	-63.19
TB-0250	429144	3722626	TB-0250A	SD	5/12/98	GW																			177								0.8		
TB-1001	422190	3652705	TB-1001A	SD	5/11/10	SP	1.52		<0.005	<0.005	<0.005	0.044	<0.025	<0.005	0.052				190	<0.005	24	23		24	78	<0.005	1200	<0.005	<0.005		7.9		0.19	<0.01	-66.68
TB-1006	435052	3709810	TB-1006A	SD	6/14/10	SP			<0.005	<0.005	<0.005	<0.025	<0.025	<0.005	0.24				290	<0.005					125		2060	<0.005	<0.005		5.9		<0.5	<0.05	-70.2
TB-1009	404978	3681003	TB-1009A	SD	5/12/10	SP			<0.01	<0.01	<0.01	0.29	<0.05	<0.01	0.38				635	<0.01					450	<0.01	4020	<0.01	<0.01		5.11		0.75	<0.05	-52.51
TB-1010	411010	3674472	TB-1010A	SD	5/11/10	SP	0.71		<0.01	<0.01	<0.01	0.051	<0.05	<0.01	0.18	-9.9	24.16	11410	420	<0.01	42	44		41	130	<0.01	6130	<0.01	<0.01		4.4		0.89	<0.05	-64.25
TB-1011	404457	3705968	TB-1011A	SD	8/31/10	SP	0.13		<0.005	<0.005	<0.005	0.046	<0.025	<0.005	0.49	-10.2	73.07	2520	240	<0.005					365	<0.005	2260	<0.005	<0.005		4.9		<0.5	<0.02	-68.69
TB-1012	413576	3699612	TB-1012A	FP	9/16/09	SP																									4.7				
TB-1014	406629	3716393	TB-1014A	SD	6/7/10	SP			<0.02	<0.02	<0.02	0.19	<0.1	<0.02	0.95				365	<0.02					500	<0.02	3980	<0.02	<0.02		3.2		0.86	0.051	-68
TB-1018	416764	3705943	TB-1018A	SD	5/13/10	SP			<0.005	0.059	<0.005	0.055	<0.025	<0.005	0.13				155	<0.005					62	<0.005	1350	<0.005	<0.005		12.5		0.29	0.036	-64.05

Point ID	Sample Point ID	HCO_3	Hg	HRD	IONBAL	K	Li	Mg	Mn	Mo	Na	Ni	NO_2	NO_3	$O^{18}r$	ORP	Pb	pHF	pHL	PO_4	Sb	Se	Si	SiO_2	Sn	SO_4	Sr	T	TAn	TCat	TDS	Th	Ti	Tl	U	V	Zn
TB-0111	TB-0111B														-10.48			7										19.5									
TB-0113	TB-0113A														-10.19			7.9										23									
TB-0113	TB-0113B														-9.83	248.7		7.5										18.5									
TB-0117	TB-0117A														-9.03			7.2										21.2									
TB-0117	TB-0117B	160		2227	-1.54	3.5	0.094	180	<0.05	<0.01	460	<0.01	<1	5	-8.83		<0.01	6.7	7.1	<5	<0.05	<0.05	13	28	<0.01	2050	11	22.2	66.62	64.6	4164	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TB-0117	TB-0117C														-8.76			6.8										21.6									
TB-0131	TB-0131A														-9.78			7.6										18.5									
TB-0131	TB-0131B														-9.44			6.7										18.3									
TB-0137	TB-0137A	190		1165	2.34	2	0.013	110	<0.05	<0.01	220	<0.01	<0.4	8.9	-9.12		<0.01	6.8	7.2	<2	<0.05	<0.05	7.2	15	<0.01	965	3.9	20.1	31.39	32.89	1990	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TB-0161	TB-0161A														-8.95			7.9										13.3									
TB-0161	TB-0161B	315		875	-1.61	1.4	<0.01	61	<0.05	<0.01	98	<0.01	<0.2	0.41	-8.82		<0.01	6.6	7.2	<1	<0.05	<0.05	13	28	<0.01	700	3.4	13.1	22.51	21.8	1398	<0.01	<0.01	<0.01	<0.01	<0.01	0.021
TB-0166	TB-0166A														-9.05			7.4										12.7									
TB-0170	TB-0170A														-9.62			7.5										10.4									
TB-0170	TB-0170B														-9.46													11.3									
TB-0171	TB-0171A	90		997	-2.12	3.5	0.028	75	<0.05	<0.01	105	<0.01	<0.2	6.8	-8.48		<0.01	7.3	7.5	<1	<0.05	<0.05	12	26	<0.01	775	6.9	17.9	25.64	24.57	1600	<0.01	<0.01	<0.01	<0.01	<0.01	0.021
TB-0179	TB-0179A	205		730	-1.33	1.2	0.014	65	<0.05	<0.01	130	<0.01	<0.2	5.1	-9.93		<0.01	6.4	7.3	<1	<0.05	<0.05	15	32	<0.01	515	3.9	18.8	20.81	20.27	1275	<0.01	<0.01	<0.01	<0.01	<0.01	0.019
TB-0182	TB-0182A	160		830	-2.69	0.95	<0.01	65	<0.05	<0.01	140	<0.01	<0.4	11	-9.14		<0.01	7.2	7.4	<2	<0.05	<0.05	13	29	<0.01	670	4	19.2	23.95	22.69	1480	<0.01	<0.01	<0.01	<0.01	0.011	<0.01
TB-0188	TB-0188A	320		965	-0.52	2.7	0.041	92	<0.025	<0.005	195	0.005	<0.4	<0.4	-8.42		<0.005	6.6	7.2	<2	<0.025	<0.025	14	30	<0.005	765	4.7	20.1	28.13	27.84	1730	<0.005	<0.005	<0.005	<0.005	<0.005	0.091
TB-0188	TB-0188B														-8.41			6.9										22.1									
TB-0191	TB-0191A														-9.98			7.7										16									
TB-0191	TB-0191B														-9.66			6.2										18.8									
TB-0192	TB-0192A	280		875	0.11	1.8	0.017	64	<0.05	<0.01	115	<0.01	<0.2	3.4	-8.9		<0.01	7.1	7.2	<1	<0.05	<0.05	13	27	<0.01	660	3.2	16.4	22.49	22.54	1405	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TB-0192	TB-0192B														-9.3			6.3										16.4									
TB-0192	TB-0192C														-9.23			7.11										16.21									
TB-0193	TB-0193A														-10			7.6										18.5									
TB-0199	TB-0199A														-9.32			7.6										19.6									
TB-0200	TB-0200A														-8.11			7.7										20.9									
TB-0200	TB-0200B	70		1875	-0.35	2.2	0.017	140	<0.025	0.006	265	0.01	<1	17	-7.81		<0.01	7.2	7.6	<5	<0.025	<0.025	13	28	<0.005	1410	14	21.5	49.4	49.05	3091	<0.1	<0.005	<0.01	<0.01	0.019	0.091
TB-0200	TB-0200C														-7.74			7										22.6									
TB-0206	TB-0206A	175		750	-0.28	2	0.032	70	<0.025	<0.005	165	<0.005	<0.5	3.2	-9.35		<0.005	7.2	7.4	<2.5	<0.025	<0.025	14	30	<0.005	620	3.6	17.6	22.35	22.22	1397	<0.005	<0.005	<0.005	<0.005	<0.005	0.01
TB-0206	TB-0206B														-9.3			6.2										17.4									
TB-0208	TB-0208A	340		1086	-0.45	8.1	0.09	94	1.1	<0.005	145	0.005	<0.4	<0.4	-9.57		<0.02	6.5	7.2	<2	<0.025	<0.025	12	25	<0.005	825	4.6	16.6	28.47	28.22	1755	<0.02	<0.005	<0.02	<0.02	<0.005	<0.005
TB-0210	TB-0210A	560		878	-0.16	4.5	0.15	110	0.14	<0.005	335	<0.005	<0.4	<0.4	-10.92		<0.02	6.4	7	<2	<0.025	<0.025	6.2	13	<0.005	675	3.6	19.5	32.32	32.22	1913	<0.02	<0.005	<0.02	<0.02	<0.005	0.027
TB-0211	TB-0211A	175		897	-1.92	2.4	0.018	57	<0.025	<0.005	110	0.005	<0.4	5.1	-8.67		<0.01	6.7	7.4	<2	<0.025	<0.025	12	25	<0.005	735	2.8	16.6	23.65	22.76	1481	<0.02	<0.005	<0.01	<0.01	<0.005	0.023
TB-0214	TB-0214A														-9			7.4										13.6									
TB-0214	TB-0214B														-8.78													14.1									
TB-0230	TB-0230A	240		618	-0.36	1.5	<0.005	50	<0.025	<0.005	100	<0.005	<0.2	5.5	-8.41		<0.005	6.7	7.4	<1	<0.025	<0.025	12	29	<0.005	480	2.9	17.2	16.87	16.74	1055	<0.005	<0.005	<0.005	<0.005	<0.005	0.038
TB-0245	TB-0245A	130	<0.000	2500		12		240	0.061	<0.008	870	<0.01					<0.005	6.8	7.72			0.003	17			2600	12.4	24			6200				0.0006		<0.05
TB-0246	TB-0246A	64	<0.000	1300		5.9		66	0.44	0.048	320	<0.01					0.01	7.6	7.56			0.02	23			1600		26			2700				0.0009		<0.05
TB-0247	TB-0247A	120	<0.000	1400		4.3		98	0.021	<0.008	85	<0.01					<0.005	7.5	7.43			0.003	31			1400	7.15	26			2400				0.003		<0.05
TB-0248	TB-0248A	140	<0.000	1500		3.9		99	0.029	<0.008	88	<0.01					0.14	7.6	7.74			0.003	30			1300	7.4	28			2400				0.0028		0.34
TB-0249	TB-0249A	200		859	2.64	2.8	0.016	57	<0.025	<0.005	110	<0.005	<0.1	3.1	-9.21		<0.005	7.1	7.4	<0.5	<0.025	<0.025	10	21	<0.005	625	2.8	15.8	20.89	22.01	1333	<0.005	<0.005	<0.005	<0.005	<0.005	0.02
TB-0250	TB-0250A												<0.89	3.54												675											
TB-1001	TB-1001A	350		627	2.87	0.81	0.009	37	<0.025	<0.005	53	<0.005	<0.1	2.3	-9.84	128	<0.005	5.8	7.3	<0.5	<0.025	<0.025	5.1	11	<0.005	290	1.9	13.1	14.03	14.86	839	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
TB-1006	TB-1006A	255			-0.32	2.1	0.013	53	<0.025	0.002	99	0.007	<0.5	6.9	-9.76		<0.005	7.9	7.2	<2.5	<0.025	<0.025	12	25	<0.005	745	2.4	11.6	23.33	23.18	1476	<0.005	<0.005	<0.005	<0.005	<0.005	0.023
TB-1009	TB-1009A	170		2204	2.6	3.8	0.029	150	<0.05	0.012	295	0.012	0.56	14	-7.42	36.4	<0.01	6.9	7.4	<2.5	<0.05	<0.05	8.6	18	<0.01	1840	8.9	14.6	54.07	56.96	3502	<0.01	<0.01	<0.01	0.011	<0.01	<0.01
TB-1010	TB-1010A	155		1481	2.08	2.5	0.012	105	<0.05	<0.01	63	0.009	<0.5	2.3	-9.29	38.5	<0.01	6.3	7.4	<2.5	<0.05	<0.05	11	24	<0.01	1190	6.2	19.3	31.07	32.38	2021	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TB-1011	TB-1011A	200		921	0.43	1.3	0.011	78	<0.025	<0.005	170	<0.005	<0.5	2.9	-9.75	58	<0.005	6.4	7.5	<2.5	<0.025	<0.025	15	32	<0.005	575	4.9	20.3	25.6	25.82	1570	<0.005	<0.005	<0.005	<0.005	0.009	0.013
TB-1012	TB-1012A															32.4		7.6										24.4									
TB-1014	TB-1014A	205		1468	-0.49	4.8	0.055	135	<0.1	<0.02	305	<0.02	<0.5	<0.5	-8.99		<0.02	7.5	7.4	<2.5	<0.1	<0.1	20	43	<0.02	1230	8.2	22.2	43.13	42.71	2696	<0.02	<0.02	<0.02	<0.02	<0.02	0.046
TB-1018	TB-1018A	345		568	1.26	1.1	0.008	44	<0.025	<0.005	90	<0.005	<0.1	<0.1	-8.93	48.8	<0.005	7.5	7.9	<0.5	<0.025	<0.025	15	29	<0.005	360	2.3	21.4	14.93	15.31	917	<0.005	<0.005	<0.005	<0.005	0.014	<0.005

Point ID	UTM NAD83 Easting	UTM NAD83 Northing	Sample Point ID	Sample Type	Collection Date	Site Types	^3H	^3H:^3He Age	Ag	Al	As	B	Ba	Be	Br	C13r	C14	C14 (years)	Ca	Cd	CFC 11	CFC 113	CFC 113_12	CFC 12	Cl	Co	COND LAB	Cr	Cu	$\delta^{34}S$	DO	ERT	F	Fe	H_2r
TB-1022	430728	3711367	TB-1022A	SD	4/27/10	ES																									8				-67.08
TB-1023	431160	3710116	TB-1023A	SD	4/27/10	SP																									1.16				-64.18
TB-1024	431207	3710395	TB-1024A	SD	4/27/10	SP																									7				-60.32
TB-1025	430715	3710245	TB-1025A	SD	4/27/10	SP																									0.44				-60.54
TB-1027	409287	3667368	TB-1027A	SD	5/11/10	SP			<0.01	0.011	<0.01	0.17	<0.05	<0.01	0.76				665	<0.01					1010	<0.01	5870	<0.01	<0.01		3.42		1.2	<0.05	-56.65
TB-1028	398366	3663720	TB-1028A	SD	5/11/10	SP	-0.02		<0.01	<0.01	<0.01	0.065	<0.05	<0.01	0.14	-11.5	13.85	15880	420	<0.01					150	<0.01	2490	<0.01	<0.01		3.4		0.81	<0.1	-63.15
TB-1029	405686	3682995	TB-1029A	SD	5/12/10	SP			<0.02	<0.02	<0.02	0.25	<0.1	<0.02	0.59				630	<0.02					560	<0.02	4510	<0.02	<0.02		4.6		0.75	<0.1	-52.55
TB-1030	409584	3682527	TB-1030A	SD	5/12/10	SP			<0.01	<0.01	<0.01	0.13	<0.05	<0.01	0.33				615	<0.01					355	<0.01	3810	<0.01	<0.01		4		0.75	<0.05	-56.25
TB-1031	414959	3697448	TB-1031A	SD	5/12/10	SP			<0.005	0.025	<0.005	0.044	<0.025	<0.005	0.13				200	<0.005					62	<0.005	1410	<0.005	<0.005		3.6		0.25	0.016	-62.07
TB-1032	413708	3698768	TB-1032A	SD	5/12/10	SP			<0.005	<0.005	<0.005	0.067	<0.025	<0.005	0.2				275	<0.005					84	<0.005	1730	<0.005	<0.005		2.8		0.51	0.014	-62.03
TB-1033	410959	3701199	TB-1033A	SD	5/13/10	SP	2.58		<0.005	<0.005	<0.005	0.12	0.029	<0.005	0.37				335	<0.005					230	<0.005	2530	<0.005	<0.005		7.75		0.56	<0.05	-62.49
TB-1034	418392	3707822	TB-1034A	SD	5/13/10	SP			<0.005	0.051	<0.005	0.069	<0.025	<0.005	0.32				295	<0.005					195	<0.005	2170	<0.005	<0.005		6.12		<0.5	0.022	-62.35
TB-1035	418429	3712984	TB-1035A	SD	5/13/10	SP			<0.01	0.012	<0.01	0.14	<0.05	<0.01	1.2				310	<0.01					755	<0.01	4730	<0.01	<0.01		7.1		0.69	<0.05	-52.5
TB-1036	426303	3707196	TB-1036A	SD	6/14/10	SP	4.74		<0.001	0.009	<0.005	<0.005	0.028	<0.001	0.03				45	<0.001					8.5		390	<0.001	0.002		6.5		<0.01	<0.05	-75.9
TB-1037	419419	3725911	TB-1037A	SD	6/9/10	SP	0.45		<0.005	<0.005	<0.005	0.053	<0.025	<0.005	0.44	-13.8	84.11	1390	295	<0.005					210	<0.005	2380	<0.005	<0.005		7.2		0.65	<0.05	-61.18
TB-1038	400294	3708451	TB-1038A	SD	6/8/10	SP																									3.5				-62.2
TB-1039	416436	3659153	TB-1039A	SD	6/8/10	SP			<0.005	<0.005	<0.005	0.15	<0.025	<0.005	0.4				360	<0.005					450	<0.005	3740	<0.005	<0.005		5.8		0.91	<0.05	-70.1
TB-1040	410689	3692435	TB-1040A	SD	6/7/10	SP			<0.01	<0.01	<0.01	<0.05	<0.05	<0.01	0.11				140	<0.01					79	<0.01	1270	<0.01	<0.01		1.7		0.54	<0.01	-72.6
TB-1042	408146	3659638	TB-1042A	SD	6/8/10	SP			<0.005	<0.005	<0.005	0.19	0.03	<0.005	1.4				755	<0.005					1780	0.008	9110	<0.005	0.006		2.2		1.5	<0.1	-61.2
TB-1043	436078	3724606	TB-1043A	SD	7/31/10	SP	0.21		<0.001	0.01	<0.001	0.016	<0.005	0.001	0.12				77	<0.001					33	<0.001	625	<0.001	0.002		6.5		1.8	<0.05	-71.92
TB-1044	434419	3712690	TB-1044A	FP	7/30/10	PS																									7.5				
TB-1045	434490	3714633	TB-1045A	SD	7/30/10	ES	3.58		<0.005	0.63	<0.005	<0.025	0.1	<0.005	0.15				220	<0.005					80	<0.005	1550	<0.005	<0.005		6.5		0.39	0.84	-62.45
TB-1046	431450	3712426	TB-1046A	SD	7/30/10	ES			<0.005	<0.005	<0.005	<0.025	0.036	<0.005	0.083				120	<0.005					43	<0.005	1090	<0.005	<0.005		10.6		0.36	<0.05	-64.94
TB-1047	397777	3705431	TB-1047A	SD	9/29/10	SP			<0.005	<0.005	<0.005	0.11	<0.025	<0.005	0.43				250	<0.005					295	<0.005	2670	<0.005	0.009		1.9		0.55	0.95	-67.77
TB-1048	422593	3669570	TB-1048A	FP	8/10/10	ES																									9.8				
TB-1049	409110	3662177	TB-1049A	SD	8/10/10	ES	1.14		<0.01	<0.01	<0.01	0.052	<0.05	<0.01	0.094				190	<0.01					80	<0.01	1540	<0.01	<0.01		8.4		0.44	<0.02	-59.96
TB-1050	413368	3694735	TB-1050A	SD	8/12/10	ES	4.73		<0.001	0.003	<0.001	0.015	0.027	<0.001	0.033				77	<0.001					19	<0.001	595	<0.001	<0.001		8.5		0.69	<0.02	-67.73
TB-1051	416266	3667524	TB-1051A	SD	10/6/10	PS			<0.005	<0.005	<0.005	0.046	<0.025	<0.005	0.098				185	<0.005					65	<0.005	1280	<0.005	<0.005		8.75		0.45	0.007	-60.4
TB-1052	412074	3652792	TB-1052A	SD	9/29/10	ES			0.006	0.074	<0.005	0.18	0.044	<0.005	0.46				650	<0.005					715	<0.005	5610	<0.005	0.016		7.1		<1	0.12	-58.2
TB-1053	425727	3710888	TB-1053A	SD	10/29/10	SP																									7.3				-65.54
TB-1054	428391	3711030	TB-1054A	SD	10/29/10	SP																									8.8				-65.05
TB-1055	427104	3710931	TB-1055A	SD	10/29/10	SP																									4				-64.55
TB-1056	428450	3709948	TB-1056A	SD	10/15/10	SP																									7.9				-63.76
TB-1057	428055	3709202	TB-1057A	SD	10/15/10	SP									0.077				145						40		1430				1.7		0.49		-65.77
TB-1058	425922	3703456	TB-1058A	SD	10/11/10	SP			<0.005	<0.005	<0.005	<0.025	<0.025	<0.005	0.1				185	<0.005					52	<0.005	1380	<0.005	<0.005		10.2		0.25	<0.02	-67.78
TB-1059	427083	3700097	TB-1059A	SD	10/12/10	SP			<0.001	0.003	<0.001	0.007	0.011	<0.001	0.033				26	<0.001					7	<0.001	260	<0.001	<0.001		13.6		0.85	<0.02	-68.99
TB-1060	426829	3700441	TB-1060A	SD	10/12/10	SP																													-72.9
TB-1061	427962	3703302	TB-1061A	SD	11/13/10	SP			<0.001	<0.001	<0.001	0.015	0.011	<0.001	0.097				140	<0.001					42	<0.001	1080	<0.001	0.001		10.6		0.24	<0.02	-62.81
TB-1062	426575	3701821	TB-1062A	SD	10/13/10	SP																													-64.38
TB-1063	424253	3695649	TB-1063A	SD	10/14/10	SP	4.99		<0.001	0.02	<0.001	0.005	0.008	<0.001	0.018				9	<0.001					2.9	<0.001	96	<0.001	<0.001		8.7		0.29	<0.02	-75.36
TB-1064	424788	3695449	TB-1064A	SD	10/14/10	SP																													-74.02
TB-1065	425154	3695526	TB-1065A	SD	10/14/10	SP																													-74.27
TB-1066	425549	3695460	TB-1066A	SD	10/14/10	SP																									9.4				-70.66
TB-1067	426136	3695424	TB-1067A	SD	10/14/10	SP																													-73.79
TB-1068	419245	3712507	TB-1068A	SD	7/13/11	SP			<0.0005	0.16	0.0023	0.055	0.12	<0.0005	0.51				195	<0.0005					310	0.0035	2160	0.0009	0.0029		6		0.65	1.1	-65.25
TB-1069	411626	3649733	TB-1069A	SD	4/1/11	ES																									9.68				-64.87
TB-1070	417512	3668201	TB-1070A	SD	4/1/11	PS																									11.04				-60.83
TB-1071	418255	3646393	TB-1071A	SD	4/1/11	PS																									12.88				-66.61
TB-2001	422073	3652505	TB-2001A	PR	9/1/09	M																													-31.46
TB-2001	422073	3652505	TB-2001B	PR	11/30/09	M																													-53.07
TB-2001	422073	3652505	TB-2001C	PR	3/1/10	M																													-85.03

Point ID	Sample Point ID	HCO_3	Hg	HRD	IONBAL	K	Li	Mg	Mn	Mo	Na	Ni	NO_2	NO_3	$O^{18}r$	ORP	Pb	pHF	pHL	PO_4	Sb	Se	Si	SiO_2	Sn	SO_4	Sr	T	TAn	TCat	TDS	Th	Ti	Tl	U	V	Zn
TB-1022	TB-1022A														-9.93			8.3										10.3									
TB-1023	TB-1023A														-9.45			7.6										9.3									
TB-1024	TB-1024A														-9.05			8.1										10.7									
TB-1025	TB-1025A														-9.06			7.3										15.8									
TB-1027	TB-1027A	145		2649	0.61	12	0.12	240	<0.05	<0.01	540	0.013	<0.1	6.4	-8.22	61.4	<0.01	6.6	7.8	<5	<0.05	<0.05	8.5	18	<0.01	2150	12	19.4	75.8	76.73	4727	<0.01	<0.01	<0.01	0.011	<0.01	<0.01
TB-1028	TB-1028A	150		1502	2.17	3.5	0.021	110	<0.05	<0.01	80	<0.01	<0.5	2.1	-9.2	-43.4	<0.01	6.5	7.4	<2.5	<0.05	<0.05	13	28	<0.01	1220	6.9	24	32.17	33.59	2029	<0.01	<0.01	<0.01	<0.01	<0.01	0.019
TB-1029	TB-1029A	335		2582	1.02	7.1	0.05	245	0.1	<0.02	280	<0.02	<0.5	7	-7.27	77.7	<0.02	6.8	7.9	<2.5	<0.1	<0.1	12	25	<0.02	1980	10	18.1	62.67	63.96	3914	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
TB-1030	TB-1030A	190		2133	0.84	7.6	0.049	145	<0.05	<0.01	210	0.013	<0.5	1.2	-7.66	79.3	<0.01	6.6	8	<2.5	<0.05	<0.05	9.6	21	<0.01	1820	9.2	13.5	51.08	51.95	3279	<0.01	<0.01	<0.01	<0.01	<0.01	0.036
TB-1031	TB-1031A	305		652	2.4	0.66	<0.005	37	<0.025	<0.005	98	0.005	<0.1	1.6	-8.47	96.1	<0.005	6.6	7.6	<0.5	<0.025	<0.025	19	40	<0.005	465	1.9	17	16.48	17.29	1059	<0.005	<0.005	<0.005	0.005	0.013	0.005
TB-1032	TB-1032A	245		843	3.25	0.55	0.029	38	<0.025	0.012	130	0.005	<0.1	0.43	-8.35	33.7	<0.005	6.4	7.7	<0.5	<0.025	<0.025	16	35	<0.005	705	2.7	16.65	21.1	22.52	1394	<0.005	<0.005	<0.005	0.005	0.009	0.019
TB-1033	TB-1033A	295		1113	1.68	<0.5	0.019	67	<0.025	0.005	195	0.007	<0.5	1.6	-8.5	101.1	<0.005	6.7	7.3	<2.5	<0.025	<0.025	22	47	<0.005	880	3.4	15.8	29.7	30.71	1907	<0.005	<0.005	<0.005	0.008	0.023	0.006
TB-1034	TB-1034A	300		976	0.78	1.3	0.026	58	<0.025	<0.005	135	0.006	<0.5	1.1	-8.76	61.8	<0.005	6.6	7.3	<2.5	<0.025	<0.025	17	34	<0.005	700	3.9	15.5	25.01	25.41	1573	<0.005	<0.005	<0.005	<0.005	0.012	0.006
TB-1035	TB-1035A	290		1763	1.15	9.7	0.11	240	<0.079	0.011	480	<0.01	<0.5	1.1	-6.94	60.8	<0.01	7.2	7.9	<2.5	<0.05	<0.05	11	25	<0.01	1390	11	19.7	55.06	56.35	3368	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TB-1036	TB-1036A	135		154	-2.39	0.5	<0.001	10	0.005	<0.001	13	0.001	<0.1	2.6	-10.99		<0.001	7.9	7.3	<0.5	<0.005	<0.025	8	16	<0.001	65	0.42	9.1	3.67	3.85	229	<0.001	0.001	<0.001	<0.001	<0.001	0.025
TB-1037	TB-1037A	185		976	-1.07	2.1	0.02	58	<0.025	<0.005	120	<0.005	<0.5	4.3	-9		<0.005	7.6	7.4	<2.5	<0.025	<0.025	12	26	<0.005	780	2.8	15.5	25.3	24.77	1591	<0.005	<0.005	<0.005	<0.005	<0.005	0.017
TB-1038	TB-1038A														-7.47			7.3										22.3									
TB-1039	TB-1039A	235		1435	-1.21	2.6	0.046	130	<0.025	<0.005	270	0.006	<0.5	5.6	-9.69		<0.005	8.1	7.9	<2.5	<0.025	<0.025	9.5	20	<0.005	1190	5.8	28.9	41.46	40.47	2552	<0.005	<0.005	<0.005	0.006	<0.005	0.02
TB-1040	TB-1040A	215		448	0.17	1.1	<0.01	24	<0.05	<0.01	78	<0.01	<0.1	0.54	-10.31		<0.01	7.9	7.3	<0.5	<0.05	<0.05	13	28	<0.01	315	1.5	17.1	12.35	12.39	776	<0.01	<0.01	<0.01	<0.01	<0.01	0.031
TB-1042	TB-1042A	290		3451	-1.99	3.8	0.098	380	1.2	0.006	710	0.013	<1	<1	-7.89		<0.005	7.2	7	<5	<0.025	<0.025	12	28	<0.005	2350	14	24	103.99	99.93	6170	<0.005	<0.005	<0.005	<0.005	<0.005	0.028
TB-1043	TB-1043A	130		245	2.05	0.93	0.01	13	<0.005	0.001	31	<0.001	<0.1	8.6	-10.68		<0.001	8.5	7	<0.5	<0.005	<0.005	22	48	<0.001	130	0.45	19.3	6.01	6.26	409	<0.001	0.002	<0.001	0.002	<0.001	0.015
TB-1044	TB-1044A																	9										21.3									
TB-1045	TB-1045A	235		759	2.85	3.5	0.006	51	0.092	<0.005	70	<0.005	<0.1	0.43	-8.97		<0.005	6.9	8.3	<0.5	<0.025	<0.025	12	26	<0.005	535	2.6	22.8	17.29	18.3	1108	<0.005	0.015	<0.005	<0.005	0.005	<0.005
TB-1046	TB-1046A	305		464	-0.21	1.5	<0.005	40	<0.005	<0.005	55	<0.005	<0.1	<0.1	-9.48		<0.005	8.7	8.3	<0.5	<0.025	<0.025	13	29	<0.005	265	2.4	19.8	11.75	11.7	709	<0.005	<0.005	<0.005	<0.005	<0.005	0.009
TB-1047	TB-1047A	230		974	0.52	1.4	0.03	85	0.69	<0.005	220	0.006	<0.5	<0.5	-9.55		<0.005	6.4	7.2	<2.5	<0.025	<0.025	13	31	<0.005	800	4.7	19.8	28.78	29.08	1804	<0.005	<0.005	<0.005	<0.005	<0.005	0.056
TB-1048	TB-1048A																	7.9										16.7									
TB-1049	TB-1049A	175		713	-0.36	1.6	<0.01	58	<0.05	<0.01	48	<0.01	<0.2	2.2	-8.94		<0.01	7.9	8.1	<1	<0.05	<0.05	8.3	18	<0.01	545	2.8	25.7	16.52	16.4	1033	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
TB-1050	TB-1050A	170		241	-0.29	0.86	<0.001	12	0.008	0.009	28	0.001	<0.1	0.4	-9.98		<0.001	7.8	7.9	<0.5	<0.005	<0.005	11	23	<0.001	130	0.81	18.6	6.06	6.03	375	<0.001	0.001	<0.001	<0.001	0.003	<0.001
TB-1051	TB-1051A	290		689	0.53	1.4	0.01	55	<0.025	<0.005	45	<0.005	<0.1	2.5	-8.75		<0.005	6.4	8	<0.5	<0.025	<0.025	7.4	17	<0.005	430	2.2	15.8	15.59	15.76	948	<0.005	<0.005	<0.005	<0.005	0.008	0.008
TB-1052	TB-1052A	155		2427	1.34	7.3	0.056	195	<0.025	<0.005	445	0.013	<1	<1	-7.45		<0.005	7.5	8	<5	<0.025	<0.025	8.4	19	<0.005	2090	8.9	21.8	66.22	68.03	4208	<0.005	<0.005	<0.005	<0.005	<0.005	0.039
TB-1053	TB-1053A														-9.69	108.7		7.3										8.9									
TB-1054	TB-1054A														-9.52	83.7		8.4										10.2									
TB-1055	TB-1055A														-9.67	75.8		7										9.2									
TB-1056	TB-1056A														-9.49	5.9		7.6										11.5									
TB-1057	TB-1057A	210		589	0.04	1.5		55			38		<0.1	<0.1	-9.72	-20		6.9	7.9	<0.5				28		425		10.2	13.45	13.46	838						
TB-1058	TB-1058A	220		635	1.87	1.5	0.015	42	0.59	0.007	50	0.013	<0.1	<0.1	-9.78	185.1	<0.005	7	7.9	<0.5	<0.025	<0.025	16	36	<0.005	445	1.2	13.3	14.35	14.9	924	<0.005	<0.005	<0.005	<0.005	<0.005	0.39
TB-1059	TB-1059A	48		90	-1.34	0.94	<0.001	6.2	0.007	0.007	8.3	0.003	<0.1	8.6	-10.5	169.8	<0.001	7.3	7.6	<0.5	<0.005	<0.005	6.7	15	<0.001	52	0.2	6.1	2.24	2.18	149	<0.001	<0.001	<0.001	<0.001	<0.001	0.016
TB-1060	TB-1060A														-10.89			7										8									
TB-1061	TB-1061A	220		477	-0.48	1.4	0.002	31	<0.005	0.001	39	0.003	<0.1	<0.1	-9.31	159.5	<0.001	6.9	6.9	<0.5	<0.005	<0.005	9.3	21	<0.001	315	0.95	9.75	11.36	11.25	701	<0.001	0.001	<0.001	<0.001	<0.001	0.009
TB-1062	TB-1062A														-9.61			4.3										10.2									
TB-1063	TB-1063A	16		28	-2.23	0.36	<0.001	1.2	<0.005	0.005	3.1	<0.001	<0.1	1.6	-11.46	150.5	<0.001	6.3	6.4	<0.5	<0.005	<0.005	4.6	10	<0.001	16	0.088	5.05	0.73	0.69	53	<0.001	<0.001	<0.001	<0.001	<0.001	0.022
TB-1064	TB-1064A														-11.19			6.4										8									
TB-1065	TB-1065A														-11.24			6.7										5.3									
TB-1066	TB-1066A														-10.63	159.9		6.4										4.2									
TB-1067	TB-1067A														-11.09			6.2										5.9									
TB-1068	TB-1068A	270		899	1.4	7.3	0.04	100	0.39	0.0033	160	0.0037	<0.2	3.7	-9.59	-106.5	0.0008	7.2	7.9	<1	<0.000	0.0072	15	33	<0.000	535	4.9	25.27	24.41	25.11	1487	<0.000	0.003	<0.000	0.0055	0.0018	0.028
TB-1069	TB-1069A														-9.29	162.2		8.36										17.33									
TB-1070	TB-1070A														-8.78	134.6		8.39										13.04									
TB-1071	TB-1071A														-9.73	209.3		8.46										9.37									
TB-2001	TB-2001A														-6.25																						
TB-2001	TB-2001B														-8.56																						
TB-2001	TB-2001C														-12.85																						

Point ID	UTM NAD83 Easting	UTM NAD83 Northing	Sample Point ID	Sample Type	Collection Date	Site Types	^3H	^3H:^3He Age	Ag	Al	As	B	Ba	Be	Br	C13r	C14	C14 (years)	Ca	Cd	CFC 11	CFC 113	CFC 113_12	CFC 12	Cl	Co	COND LAB	Cr	Cu	$\delta^{34}S$	DO	ERT	F	Fe	H_2r
TB-2001	422073	3652505	TB-2001D	PR	6/2/10	M																													-49.8
TB-2001	422073	3652505	TB-2001E	PR	9/1/10	M																													-68.3
TB-2001	422073	3652505	TB-2001F	PR	12/1/10	M																													-84.57
TB-2001	422073	3652505	TB-2001G	PR	3/2/11	M																													-87.44
TB-2001	422073	3652505	TB-2001H	PR	6/6/11	M																													-3.53
TB-2001	422073	3652505	TB-2001I	PR	9/1/11	M																													-20.04
TB-2002	404897	3661652	TB-2002A	PR	9/1/09	M																													-25.68
TB-2002	404897	3661652	TB-2002B	PR	11/30/09	M																													-52.55
TB-2002	404897	3661652	TB-2002C	PR	3/1/10	M																													-86.15
TB-2002	404897	3661652	TB-2002D	PR	6/2/10	M																													-60.4
TB-2002	404897	3661652	TB-2002E	PR	9/1/10	M																													-60.94
TB-2002	404897	3661652	TB-2002F	PR	12/1/10	M																													-92.42
TB-2002	404897	3661652	TB-2002G	PR	3/2/11	M																													-91.64
TB-2002	404897	3661652	TB-2002H	PR	6/6/11	M																													25.24
TB-2002	404897	3661652	TB-2002I	PR	9/1/11	M																													-14.75
TB-2003	406072	3689916	TB-2003A	PR	9/1/09	M																													-27.87
TB-2003	406072	3689916	TB-2003B	PR	11/30/09	M																													-47.57
TB-2003	406072	3689916	TB-2003C	PR	3/1/10	M																													-79.49
TB-2003	406072	3689916	TB-2003D	PR	6/2/10	M																													-90.5
TB-2003	406072	3689916	TB-2003E	PR	9/1/10	M																													-72.47
TB-2003	406072	3689916	TB-2003F	PR	12/1/10	M																													-74.63
TB-2003	406072	3689916	TB-2003G	PR	3/2/11	M																													-88.79
TB-2003	406072	3689916	TB-2003H	PR	9/1/11	M																													-37.11
TB-2004	414484	3727240	TB-2004A	PR	9/1/09	M																													-23.3
TB-2004	414484	3727240	TB-2004B	PR	11/30/09	M																													-45.85
TB-2004	414484	3727240	TB-2004C	PR	3/1/10	M																													-76.98
TB-2004	414484	3727240	TB-2004D	PR	6/2/10	M																													-73.9
TB-2004	414484	3727240	TB-2004E	PR	9/1/10	M																													-50.95
TB-2004	414484	3727240	TB-2004F	PR	12/1/10	M																													-40.76
TB-2004	414484	3727240	TB-2004G	PR	3/2/11	M																													-81.23
TB-2004	414484	3727240	TB-2004H	PR	6/6/11	M																													7.3
TB-2004	414484	3727240	TB-2004I	PR	9/1/11	M																													-22.3
TB-2005	434108	3716900	TB-2005A	PR	9/1/09	M																													-25.97
TB-2005	434108	3716900	TB-2005B	PR	11/30/09	M																													-47.13
TB-2005	434108	3716900	TB-2005C	PR	3/1/10	M																													-95.1
TB-2005	434108	3716900	TB-2005D	PR	6/10/10	M																													-72.3
TB-2005	434108	3716900	TB-2005E	PR	9/1/10	M																													-42.5
TB-2005	434108	3716900	TB-2005F	PR	12/1/10	M																													-49.07
TB-2005	434108	3716900	TB-2005G	PR	3/2/11	M																													-98.71
TB-2005	434108	3716900	TB-2005H	PR	6/6/11	M																													-43.61
TB-2005	434108	3716900	TB-2005I	PR	9/1/11	M																													-33.99

Point ID	Sample Point ID	HCO_3	Hg	HRD	IONB AL	K	Li	Mg	Mn	Mo	Na	Ni	NO_2	NO_3	$O^{18}r$	ORP	Pb	pHF	pHL	PO_4	Sb	Se	Si	SiO_2	Sn	SO_4	Sr	T	TAn	TCat	TDS	Th	Ti	Tl	U	V	Zn
TB-2001	TB-2001D														-8.39																						
TB-2001	TB-2001E														-9.36																						
TB-2001	TB-2001F														-12.1																						
TB-2001	TB-2001G														-12.04																						
TB-2001	TB-2001H														0.24																						
TB-2001	TB-2001I														-3.39																						
TB-2002	TB-2002A														-5.42																						
TB-2002	TB-2002B														-8.21																						
TB-2002	TB-2002C														-12.78																						
TB-2002	TB-2002D														-8.31																						
TB-2002	TB-2002E														-7.95																						
TB-2002	TB-2002F														-13.14																						
TB-2002	TB-2002G														-12.66																						
TB-2002	TB-2002H														5.02																						
TB-2002	TB-2002I														-3.52																						
TB-2003	TB-2003A														-5.11																						
TB-2003	TB-2003B														-7.88																						
TB-2003	TB-2003C														-11.91																						
TB-2003	TB-2003D														-12.3																						
TB-2003	TB-2003E														-9.82																						
TB-2003	TB-2003F														-10.7																						
TB-2003	TB-2003G														-12.48																						
TB-2003	TB-2003H														-5.46																						
TB-2004	TB-2004A														-4.09																						
TB-2004	TB-2004B														-7.65																						
TB-2004	TB-2004C														-11.63																						
TB-2004	TB-2004D														-10.18																						
TB-2004	TB-2004E														-6.92																						
TB-2004	TB-2004F														-6.71																						
TB-2004	TB-2004G														-10.59																						
TB-2004	TB-2004H														4.5																						
TB-2004	TB-2004I														-3.82																						
TB-2005	TB-2005A														-5.12																						
TB-2005	TB-2005B														-8.1																						
TB-2005	TB-2005C														-13.78																						
TB-2005	TB-2005D														-10.3																						
TB-2005	TB-2005E														-6.46																						
TB-2005	TB-2005F														-7.54																						
TB-2005	TB-2005G														-13.48																						
TB-2005	TB-2005H														-6.79																						
TB-2005	TB-2005I														-5.6																						