

Supplemental Data

Table 3 – LOI results with depths and ages

Drive	Drive Depth (cm)	Total Depth (cm)	Bchron output median age (yr BP)	% Organic Matter	% Carbonate	% Residual
A16 Ext Surface	0.25	0.25	-64	22.2	56.5	21.3
A16 Ext Surface	0.75	0.75	-59	26.8	46.5	26.7
A16 Ext Surface	1.25	1.25	-54	27.9	46.3	25.8
A16 Ext Surface	1.75	1.75	-49	24.2	54.2	21.6
A16 Ext Surface	2.25	2.25	-44	17.5	65.2	17.3
A16 Ext Surface	2.75	2.75	-40	19.5	55.6	24.9
A16 Ext Surface	3.25	3.25	-35	14.3	75.9	9.8
A16 Ext Surface	3.75	3.75	-30	19.1	66.5	14.5
A16 Ext Surface	4.25	4.25	-25	19.6	64.3	16.1
A16 Ext Surface	4.75	4.75	-20	15.6	69.6	14.8
A16 Ext Surface	5.25	5.25	-15	15.9	66.3	17.8
A16 Ext Surface	5.75	5.75	-7	16.4	64.2	19.4
A16 Ext Surface	6.25	6.25	3	16.9	63.3	19.8
A16 Ext Surface	6.75	6.75	13	18.5	81.1	0.4
A16 Ext Surface	7.25	7.25	23	14.2	71.7	14.1
A16 Ext Surface	7.75	7.75	32	13.3	74.1	12.7
A16 Ext Surface	8.75	8.75	51	13.0	78.5	8.5
A16 Ext Surface	9.25	9.25	59	10.4	81.8	7.9
A16 Ext Surface	9.75	9.75	68	12.1	79.3	8.6
A16 Ext Surface	10.25	10.25	77	11.1	79.1	9.7
A16 Ext Surface	10.75	10.75	85	15.9	69.7	14.4
A16 Ext Surface	11.25	11.25	94	17.3	65.1	17.5
A16 Ext Surface	11.75	11.75	103	16.0	66.5	17.5
A16 Ext Surface	12.25	12.25	111	12.7	74.5	12.8
A16 Ext Surface	12.75	12.75	120	20.1	59.9	20.0
A16 Ext Surface	13.25	13.25	128	15.8	80.1	4.1
A16 Ext Surface	13.75	13.75	137	14.7	68.2	17.1
A16 Ext Surface	14.75	14.75	154	16.2	60.2	23.6
A16 Ext Surface	15.25	15.25	162	16.8	61.3	21.9
A16 Ext Surface	15.75	15.75	171	18.2	60.7	21.1
A16 Ext Surface	16.25	16.25	180	18.9	61.3	19.8
A16 Ext Surface	16.75	16.75	191	17.2	66.8	16.0

A16 Ext Surface	17.25	17.25	209	13.9	84.5	1.6
A16 Ext Surface	17.75	17.75	258	15.1	67.6	17.3
A16 Ext Surface	18.25	18.25	298	14.7	67.8	17.4
A16 Ext Surface	18.75	18.75	329	13.1	77.8	9.2
A16 Ext Surface	19.75	19.75	396	17.1	61.6	21.2
A16 Ext Surface	20.75	20.75	465	14.6	64.7	20.7
A16 Ext Surface	21.25	21.25	500	13.2	69.3	17.5
A16 Ext Surface	21.75	21.75	534	13.1	70.8	16.1
A16 Ext Surface	22.25	22.25	570	12.6	71.3	16.1
A16 Ext Surface	22.75	22.75	605	4.8	65.9	29.3
A16 Ext Surface	23.25	23.25	640	13.8	70.3	15.8
A16 Ext Surface	23.75	23.75	675	12.9	71.0	16.0
A16 Ext Surface	24.25	24.25	710	14.0	70.2	15.8
A16 Ext Surface	24.75	24.75	744	12.7	71.4	15.9
A16 Ext Surface	25.25	25.25	779	13.4	71.1	15.5
A16 Ext Surface	25.75	25.75	814	18.3	50.6	31.0
A16 Ext Surface	26.25	26.25	850	9.7	67.5	22.8
A16 Ext Surface	28.25	28.25	993	14.4	68.6	17.0
A16 Ext Surface	28.75	28.75	1029	10.7	77.2	12.1
A16 Ext Surface	29.5	29.5	1082	9.5	80.2	10.2
A16 D1	1	31.00	1185	25.9	46.0	28.1
A16 D1	3	33.00	1311	11.5	72.7	15.8
A16 D1	5	35.00	1387	8.7	78.3	13.1
A16 D1	7	37.00	1462	10.6	76.3	13.1
A16 D1	9	39.00	1537	11.1	72.9	16.0
A16 D1	11	41.00	1612	12.0	67.3	20.7
A16 D1	13	43.00	1685	8.5	76.8	14.8
A16 D1	15	45.00	1760	8.5	75.0	16.5
A16 D1	17	47.00	1835	18.0	55.9	26.1
A16 D1	19	49.00	1910	14.4	66.8	18.8
A16 D1	21	51.00	1995	13.2	67.4	19.4
A16 D1	23	53.00	2049	8.2	77.4	14.4
A16 D1	25	55.00	2091	11.0	70.6	18.4
A16 D1	27	57.00	2132	11.0	75.5	13.5
A16 D1	29	59.00	2174	8.0	78.8	13.2
A16 D1	31	61.00	2218	27.0	42.1	30.9
A16 D1	33	63.00	2271	9.2	78.9	11.9
A16 D1	35	65.00	2479	17.3	61.3	21.4
A16 D1	37	67.00	2637	12.9	68.6	18.5
A16 D1	39	69.00	2702	7.8	76.3	15.9
A16 D1	41	71.00	2734	11.1	71.0	17.9
A16 D1	43	73.00	2763	10.1	77.0	12.9

A16 D1	45	75.00	2792	9.7	77.9	12.4
A16 D1	47	77.00	2821	9.0	77.3	13.7
A16 D1	49	79.00	2849	9.8	74.9	15.3
A16 D1	51	81.00	2880	10.1	69.5	20.5
A16 D1	53	83.00	2977	10.7	76.6	12.8
A16 D1	55	85.00	3072	8.9	80.5	10.6
A16 D1	57	87.00	3167	7.9	82.7	9.4
A16 D1	59	89.00	3263	6.7	85.4	7.9
A16 D1	61	91.00	3360	11.1	75.1	13.8
A16 D1	63	93.00	3455	8.9	78.1	13.0
A16 D1	65	95.00	3534	9.7	77.8	12.6
A16 D1	67	97.00	3614	10.2	77.3	12.5
A16 D1	69	99.00	3694	10.4	77.9	11.7
A16 D1	71	101.00	3774	7.2	83.6	9.2
A16 D1	73	103.00	3853	6.8	82.4	10.7
A16 D1	75	105.00	3932	6.5	85.2	8.3
A16 D1	77	107.00	4011	5.6	87.7	6.7
A16 D1	79	109.00	4090	5.2	88.9	5.9
A16 D1	81	111.00	4174	7.7	84.4	8.0
A16 D1	83	113.00	4237	8.5	81.7	9.8
A16 D1	85	115.00	4298	8.9	78.6	12.6
A16 D1	87	117.00	4358	6.1	85.6	8.3
A16 D1	89	119.00	4416	22.9	44.8	32.4
A16 D1	91	121.00	4477	9.7	73.6	16.6
A16 D1	93	123.00	4536	15.0	62.1	23.0
A16 D1	95	125.00	4595	7.5	80.3	12.3
A16 D1	97	127.00	4655	5.1	84.2	10.6
A16 D1	99	129.00	4731	20.5	58.7	20.8
A16 D1	101	131.00	4852	9.7	91.7	-1.4
A16 D1	103	133.00	4948	10.8	61.6	27.6
A16 D1	105	135.00	5048	11.9	63.4	24.8
A16 D1	107	137.00	5148	7.9	5.1	87.0
A16 D1	109	139.00	5249	10.3	76.4	13.3
A16 D1	111	141.00	5351	10.7	75.0	14.3
A16 D1	113	143.00	5454	7.9	79.3	12.8
A16 D1	115	145.00	5650	31.1	47.8	21.1
A16 D1	117	147.00	5913	11.1	72.8	16.1
A16 D1	119	149.00	6178	7.3	81.3	11.4
A16 D1	121	151.00	6438	7.1	80.8	12.2
A16 D1	123	153.00	6576	13.9	58.7	27.4
A16 D1	125	155.00	6653	6.8	81.4	11.9
A16 D1	127	157.00	6728	18.6	51.7	29.7
A16 D1	129	159.00	6802	8.8	72.0	19.3
A16 D1	131	161.00	6877	10.4	72.5	17.1
A16 D1	133	163.00	6949	14.8	52.6	32.6

A16 D1	135	165.00	7021	15.4	54.8	29.8
A16 D1	137	167.00	7100	10.3	69.5	20.2
A16 D1	139	169.00	7135	10.1	73.9	16.0
A16 D1	141	171.00	7167	6.4	77.2	16.3
A16 D1	143	173.00	7199	7.9	76.8	15.3
A16 D1	145	175.00	7232	9.3	70.4	20.4
A17 D3	53	177.00	7267	12.0	62.4	25.7
A17 D3	55	179.00	7333	8.9	67.2	23.9
A17 D3	57	181.00	7393	7.7	73.3	19.0
A17 D3	59	183.00	7451	8.1	68.0	23.9
A17 D3	61	185.00	7509	6.3	72.9	20.8
A17 D3	63	187.00	7566	6.4	66.9	26.7
A17 D3	65	189.00	7605	3.0	0.0	97.0
A17 D3	67	191.00	7605	2.9	0.7	96.5
A17 D4	19	199.50	7605	2.7	0.0	97.3
A17 D4	29	209.50	7605	2.9	0.0	97.1
A17 D4	39	219.50	7605	3.0	0.0	97.0
A17 D4	49	229.50	7605	2.8	0.2	96.9
A17 D4	59	239.50	7605	2.8	0.0	97.2
A17 D5	1	245.00	7605	2.5	0.9	96.6
A17 D5	11	255.00	7605	2.6	5.7	91.7
A17 D5	21	265.00	7859	8.7	78.4	12.9
A17 D5	23	267.00	8149	6.0	87.4	6.6
A17 D5	25	269.00	8337	4.9	90.2	4.8
A17 D5	27	271.00	8519	4.8	90.0	5.2
A17 D5	29	273.00	8701	4.9	89.3	5.8
A17 D5	31	275.00	8881	4.7	89.0	6.3
A17 D5	33	277.00	9058	7.1	85.4	7.5
A17 D5	35	279.00	9237	4.9	89.3	5.8
A17 D5	37	281.00	9413	5.2	89.8	5.0
A17 D5	39	283.00	9596	4.2	91.9	3.8
A17 D5	41	285.00	9777	4.3	91.4	4.3
A17 D5	43	287.00	9957	4.7	90.4	4.9
A17 D5	45	289.00	10196	5.5	90.8	3.7
A17 D5	47	291.00	10470	6.2	85.3	8.5
A17 D5	49	293.00	10670	4.9	90.0	5.1
A17 D5	51	295.00	10740	6.5	85.7	7.9
A17 D5	53	297.00	10810	9.9	39.6	50.5
A17 D5	55	299.00	10879	3.9	89.4	6.7
A17 D5	59	303.00	11011	5.2	83.8	11.0
A17 D5	61	305.00	11074	3.5	87.9	8.6
A17 D5	63	307.00	11131	4.5	68.7	26.9
A17 D5	65	309.00	11181	2.4	57.2	40.4

Table 4 – Sediment density, sedimentation rate and flux (total and LOI component)

Total Depth (cm)	Dry BD (g/cm³)	Linear Sed Rate (cm/yr)	Sed Flux (g/cm²/1kyr)	Organic Flux (g/cm²/1kyr)	Carbonate Flux (g/cm²/1kyr)	Residual Flux (g/cm²/1kyr)
0.25	0.081	0.100	8.085	1.797	4.569	1.719
0.75		0.100				
1.25	0.085	0.100	8.458	2.360	3.914	2.184
1.75		0.111				
2.25	0.105	0.111	11.691	2.042	7.621	2.028
2.75		0.100				
3.25	0.135	0.100	13.486	1.923	10.237	1.327
3.75		0.100				
4.25	0.105	0.100	10.469	2.052	6.735	1.682
4.75		0.100				
5.25	0.088	0.067	5.860	0.933	3.886	1.041
5.75		0.050				
6.25	0.091	0.050	4.538	0.767	2.874	0.897
6.75		0.050				
7.25	0.120	0.056	6.694	0.951	4.802	0.942
7.75		0.054				
8.75	0.143	0.059	8.437	1.094	6.624	0.718
9.25	0.141	0.056	7.837	0.812	6.410	0.615
9.75		0.057				
10.25	0.151	0.061	9.123	1.017	7.218	0.888
10.75		0.056				
11.25	0.100	0.056	5.557	0.964	3.618	0.974
11.75		0.063				
12.25	0.119	0.059	7.009	0.889	5.221	0.900
12.75		0.059				
13.25	0.113	0.059	6.648	1.050	5.325	0.273
13.75	0.150	0.057	8.571	1.260	5.849	1.462
14.75		0.063				
15.25	0.115	0.059	6.746	1.133	4.135	1.478
15.75		0.053				
16.25	0.111	0.048	5.293	1.000	3.246	1.047
16.75		0.027				
17.25	0.163	0.010	1.677	0.232	1.418	0.027
17.75		0.012				

18.25	0.166	0.016	2.683	0.396	1.820	0.467
18.75		0.015				
19.75	0.165	0.015	2.406	0.412	1.483	0.511
20.75	0.159	0.014	2.274	0.332	1.470	0.471
21.25	0.154	0.015	2.244	0.297	1.556	0.392
21.75		0.014				
22.25	0.138	0.014	1.967	0.247	1.403	0.317
22.75		0.014				
23.25	0.132	0.014	1.890	0.261	1.329	0.299
23.75		0.014				
24.25	0.145	0.015	2.129	0.298	1.494	0.336
24.75		0.014				
25.25	0.127	0.014	1.815	0.243	1.291	0.281
25.75		0.014				
26.25	0.171	0.014	2.390	0.232	1.613	0.544
28.25	0.156	0.014	2.172	0.312	1.491	0.369
28.75		0.014				
29.5	0.288	0.015	4.198	0.400	3.369	0.429
31	0.143	0.016	2.276	0.589	1.048	0.639
33	0.274	0.026	7.216	0.828	5.248	1.140
35	0.332	0.027	8.843	0.766	6.923	1.154
37	0.390	0.027	10.389	1.100	7.930	1.359
39	0.279	0.027	7.429	0.823	5.419	1.188
41	0.245	0.027	6.715	0.805	4.521	1.389
43	0.315	0.027	8.405	0.712	6.452	1.241
45	0.316	0.027	8.413	0.716	6.313	1.385
47	0.185	0.027	4.944	0.890	2.762	1.291
49	0.223	0.024	5.256	0.755	3.514	0.988
51	0.216	0.037	8.015	1.057	5.405	1.552
53	0.332	0.048	15.795	1.299	12.219	2.277
55	0.238	0.049	11.624	1.275	8.210	2.139
57	0.261	0.048	12.429	1.365	9.385	1.679
59	0.281	0.045	12.777	1.019	10.075	1.684
61	0.129	0.038	4.857	1.311	2.044	1.502
63	0.279	0.010	2.683	0.247	2.118	0.318
65	0.174	0.013	2.201	0.382	1.349	0.470
67	0.219	0.031	6.729	0.868	4.613	1.248
69	0.311	0.063	19.425	1.509	14.824	3.092
71	0.183	0.069	12.648	1.405	8.976	2.266
73	0.269	0.069	18.517	1.872	14.255	2.390
75	0.283	0.069	19.524	1.892	15.213	2.420
77	0.284	0.071	20.286	1.826	15.681	2.779

79	0.240	0.065	15.497	1.519	11.600	2.378
81	0.264	0.021	5.437	0.547	3.777	1.113
83	0.271	0.021	5.697	0.609	4.361	0.726
85	0.287	0.021	6.038	0.535	4.862	0.641
87	0.315	0.021	6.565	0.517	5.429	0.619
89	0.363	0.021	7.474	0.504	6.383	0.587
91	0.223	0.021	4.688	0.519	3.523	0.646
93	0.300	0.025	7.590	0.676	5.928	0.986
95	0.260	0.025	6.510	0.628	5.064	0.817
97	0.250	0.025	6.250	0.636	4.834	0.780
99	0.279	0.025	6.978	0.724	5.436	0.817
101	0.382	0.025	9.681	0.695	8.092	0.893
103	0.479	0.025	12.127	0.830	9.995	1.302
105	0.381	0.025	9.643	0.630	8.213	0.800
107	0.458	0.025	11.597	0.653	10.170	0.774
109	0.460	0.024	10.960	0.573	9.738	0.648
111	0.389	0.032	12.356	0.948	10.423	0.984
113	0.330	0.033	10.826	0.921	8.844	1.061
115	0.343	0.033	11.417	1.013	8.969	1.434
117	0.404	0.034	13.914	0.850	11.906	1.157
119	0.151	0.033	4.954	1.133	2.217	1.604
121	0.277	0.034	9.403	0.917	6.924	1.562
123	0.201	0.034	6.817	1.021	4.231	1.565
125	0.390	0.033	12.997	0.970	10.430	1.597
127	0.541	0.026	14.245	0.733	12.001	1.511
129	0.202	0.017	3.342	0.685	1.961	0.696
131	0.281	0.021	5.844	0.566	5.360	-0.082
133	0.271	0.020	5.422	0.583	3.341	1.498
135	0.252	0.020	5.048	0.599	3.199	1.251
137	0.663	0.020	13.125	1.036	0.671	11.418
139	0.229	0.020	4.484	0.461	3.427	0.596
141	0.288	0.019	5.590	0.600	4.190	0.800
143	0.370	0.010	3.776	0.299	2.995	0.481
145	0.170	0.008	1.290	0.401	0.616	0.273
147	0.302	0.008	2.280	0.253	1.660	0.366
149	0.396	0.008	3.047	0.223	2.477	0.347
151	0.426	0.014	6.167	0.435	4.980	0.752
153	0.269	0.026	6.987	0.974	4.099	1.915
155	0.346	0.027	9.232	0.624	7.513	1.096
157	0.231	0.027	6.251	1.163	3.229	1.859
159	0.348	0.027	9.280	0.816	6.678	1.786
161	0.492	0.028	13.658	1.420	9.897	2.341
163	0.261	0.028	7.261	1.074	3.819	2.368
165	0.246	0.025	6.218	0.956	3.406	1.855
167	0.332	0.057	18.983	1.951	13.195	3.837

169	0.373	0.063	23.325	2.344	17.237	3.743
171	0.314	0.063	19.600	1.260	15.141	3.199
173	0.454	0.061	27.533	2.163	21.154	4.217
175	0.283	0.057	16.160	1.497	11.373	3.290
177	0.297	0.030	9.012	1.077	5.620	2.315
179	0.334	0.033	11.120	0.995	7.472	2.653
181	0.422	0.034	14.552	1.120	10.670	2.762
183	0.390	0.034	13.455	1.091	9.154	3.210
185	0.457	0.035	16.032	1.010	11.681	3.340
187	0.443	0.051	22.723	1.462	15.198	6.063
189	0.874					
191	0.868					
199.5	0.947					
209.5	0.917					
219.5	0.765					
229.5	1.118					
239.5	0.919					
245	0.862					
255	0.811	0.039	31.909	0.836	1.818	29.256
265	0.440	0.007	3.037	0.263	2.383	0.391
267	0.529	0.011	5.628	0.337	4.921	0.369
269	0.589	0.011	6.471	0.320	5.840	0.311
271	0.635	0.011	6.974	0.332	6.280	0.362
273	0.565	0.011	6.280	0.307	5.607	0.366
275	0.566	0.011	6.400	0.301	5.697	0.402
277	0.525	0.011	5.871	0.416	5.012	0.443
279	0.551	0.011	6.266	0.305	5.598	0.362
281	0.537	0.011	5.864	0.304	5.266	0.295
283	0.589	0.011	6.508	0.276	5.982	0.250
285	0.460	0.011	5.111	0.218	4.672	0.222
287	0.519	0.008	4.340	0.204	3.925	0.211
289	0.469	0.007	3.423	0.188	3.107	0.128
291	0.520	0.010	5.201	0.322	4.434	0.444
293	0.579	0.029	16.551	0.805	14.899	0.847
295	0.516	0.029	14.751	0.955	12.638	1.159
297	0.745	0.029	21.606	2.142	8.547	10.917
299	0.555	0.030	16.809	0.663	15.024	1.122
303	0.540	0.032	17.127	0.888	14.347	1.892
305	0.618	0.035	21.873	0.759	19.223	1.891
307	0.659	0.040	26.356	1.175	18.096	7.085
309	1.695	0.028	46.848	1.116	26.814	18.918

Table 5 – Local water sample results and locations

Date	Site Name	Type	$\delta^{18}\text{O}$ VSMOW	δD VSMOW	Latitude (UTM)	Longitude (UTM)
6/30/2017	Embayment Riverside 1	Lake	-19.59	-148.73	50.71357	-115.208
6/29/2017	Spray Lake (central area)	Lake	-18.67	-142.02	50.93841	-115.319
6/29/2017	Spray Lake (north)	Lake	-18.55	-141.85	50.99524	-115.375
6/29/2017	Quicksand Lake	Lake	-17.68	-143.33	50.86805	-115.352
6/29/2017	Mud Lake	Lake	-19.81	-150.54	50.79123	-115.305
6/29/2017	Shark Lake 1	Lake	-19.96	-149.87	50.84106	-115.398
6/30/2017	Lake 4 (Turquoise waters)	Lake	-18.89	-146.13	50.71693	-115.21
6/30/2017	Lake 5 (Lower Kanakankis Lake north)	Lake	-18.85	-143.94	50.69307	-115.136
6/30/2017	Green Lake (Lake 6)	Lake	-18.78	-146.94	50.69945	-115.135
6/30/2017	Lower Kanakankis Lake (south)	Lake	-18.49	-140.97	50.6348	-115.126
6/30/2017	Upper Kanakankis Lake (#1) northern	Lake	-18.40	-140.08	50.61575	-115.16
6/30/2017	Upper Kanakankis Lake (#2) middle	Lake	-18.42	-140.24	50.60999	-115.12
7/1/2017	Upper Hogarth Lake	Lake	-17.06	-134.70	50.74235	-115.318
7/1/2017	Lower Hogarth Lake 1	Lake	-18.91	-144.32	50.79668	-115.323
7/1/2017	Middle Hogarth Lake	Lake	-18.05	-139.87	50.79482	-115.322

7/1/2017	Lower Hogarth Lake 2 (shallow)	Lake	-18.43	-142.03	50.79706	-115.323
6/29/2017	Stream #1 (east) going into Spray Lake	Stream	-20.10	-152.30	50.92593	-115.319
6/29/2017	Stream #1 (west) going into Spray Lake	Stream	-19.89	-150.58	50.92593	-115.319
6/29/2017	Stream #2	Stream	-19.60	-148.96	50.85788	-115.349
6/29/2017	Stream #3	Stream	-19.87	-151.20	50.79123	-115.305
6/29/2017	Stream #4 (Headwall Creek)	Stream	-20.15	-152.40	50.77478	-115.28
6/29/2017	Stream #5 (James Walker Creek)	Stream	-20.55	-155.76	50.74928	-115.251
6/29/2017	Shark Lake Inflow 1	Stream	-20.20	-151.34	50.84003	-115.399
6/29/2017	Shark Lake Inflow 2	Stream	-20.26	-152.48	50.83999	-115.399
6/29/2017	Shark Lake Inflow 3	Stream	-19.35	-147.22	50.84111	-115.397
6/29/2017	Shark Lake Outflow 3	Stream	-19.68	-148.78	50.84249	-115.398
6/30/2017	Kanakankis River (R1)	Stream	-18.77	-142.99	50.70092	-115.119
6/30/2017	SKCK1 (spring out of hill)	Stream	-19.73	-149.46	50.84884	-115.387
6/30/2017	SKCK2 (creek 1/2 way back to parking lot)	Stream	-19.13	-146.38	50.85133	-115.381
6/30/2017	SKCK3 (culvert near parking lot area)	Stream	-19.39	-147.26	50.84698	-115.358
6/30/2017	Smith Dornenonek Streams	Stream	-19.84	-149.87	50.70614	-115.199

	(Stream 9)					
6/30/2017	Stream 6 (near Sarrail campsite)	Stream	-18.63	-141.45	50.61665	-115.119
6/30/2017	Stream 7	Stream	-19.76	-149.77	50.63289	-115.108
6/30/2017	Stream 8 (snowmill)	Stream	-19.73	-149.82	50.74805	-115.245
6/30/2017	Stream 10 (Kent Creek)	Stream	-20.12	-152.30	50.6941	-115.136
6/30/2017	Stream 11	Stream	-20.12	-152.44	50.69818	-115.135
7/1/2017	Watridge Lake Trail Water (1)	Stream	-20.03	-150.51	50.85273	-115.404
7/1/2017	Watridge Lake Trail Water (2)	Stream	-18.78	-144.39	50.85239	-115.407
7/1/2017	Watridge Lake Trail Water (3)	Stream	-18.68	-142.73	50.85394	-115.399
7/1/2017	Watridge Lake	Stream	-17.88	-139.23	50.85039	-115.425
7/1/2017	Hogarth Lake (creek by Hogarth)	Stream	-19.69	-149.09	50.79032	-115.315
08/02/16	Marl Lake	Lake	-13.82	-121.48	50.65771	-115.113
08/03/16	Hogarth Stream	Stream	-18.83	-140.33	50.79032	-115.315
08/03/16	Hogarth North	Lake	-17.33	-135.23	50.79668	-115.323
08/03/16	Hogarth Middle	Lake	-17.30	-134.74	50.79482	-115.322
08/03/16	Mud Lake	Lake	-16.92	-132.98	50.79104	-115.304
08/06/16	Shark Creek 1	Stream	-18.86	-143.46	50.85793	-115.38
08/06/16	Shark creek 2	Stream	-19.36	-146.51	50.84878	-115.387
08/06/16	Shark trailhead creek	Stream	-19.04	-144.20	50.84694	-115.358
08/06/16	Shark Lake	Lake	-18.90	-141.88	50.84111	-115.398
08/06/16	Shark inflow 1	Stream	-19.74	-149.45	50.84175	-115.397
08/06/16	Shark	Stream	-18.80	-140.91	50.84	-115.299

	inflow 2					
08/06/16	Shark outflow	Stream	-18.81	-141.58	50.84222	-115.398
8/13/2015	Marl Lake	Lake	-8.85	-99.68	50.65771	-115.113
8/14/2015	Hogarth South	Lake	-15.29	-125.30	50.79316	-115.32
8/14/2015	Hogarth Stream	Stream	-18.30	-136.49	50.79032	-115.315
8/15/2015	Upper Kananaskis Lake	Lake	-18.29	-140.16	50.61329	-115.12
8/15/2015	Lower Kananaskis Lake	Lake	-18.16	-138.10	50.63417	-115.122
8/15/2015	Bolton Creek	Stream	-18.84	-141.70	50.63327	-115.109
8/15/2015	Kananaskis River	Stream	-18.46	-140.56	50.70122	-115.119
8/15/2015	James Walker Creek	Stream	-18.34	-137.92	50.74899	-115.251
8/15/2015	Headwall Creek	Stream	-18.24	-137.84	50.77485	-115.28
8/15/2015	Mud Lake	Stream	-17.99	-134.46	50.79104	-115.304
8/15/2015	Dorrian Creek	Stream	-18.05	-136.19	50.82057	-115.33
8/15/2015	Smuts Creek	Stream	-18.16	-135.22	50.83767	-115.343
8/15/2015	Watridge Creek	Stream	-18.62	-139.73	50.35944	-115.387
8/15/2015	Watridge Lake	Lake	-17.21	-134.63	50.84971	-115.424
8/15/2015	Shark Lake	Lake	-19.28	-144.11	50.84185	-115.397
8/15/2015	Shark Creek	Stream	-18.74	-142.41	50.85193	-115.38
8/15/2015	Spray Lake	Lake	-18.19	-139.21	50.93864	-115.318
8/15/2015	Goat Pond	Lake	-18.26	-141.04	50.01734	-115.395

Table 6 – Sediment isotope results

Sample Name	Total Depth (cm)	Total Depth Mazama Tephra Removed (cm)	$\delta^{13}\text{C}$	$\delta^{18}\text{O}$
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A16-0.5/WAGNER/K1062	0.25	0.25	1.09	-17.65
A16-1.0/WAGNER/K1062	0.75	0.75	1.25	-17.71
A16-1.5/WAGNER/K1062	1.25	1.25	1.01	-17.79
A16-2.0/WAGNER/K1062	1.75	1.75	1.31	-17.83
A16-2.5/WAGNER/K1062	2.25	2.25	1.25	-18.10
A16-3.0/WAGNER/K1062	2.75	2.75	1.18	-18.06
A16-3.5/WAGNER/K1062	3.25	3.25	1.07	-17.90
A16-4.0/WAGNER/K1062	3.75	3.75	1.03	-18.02
A16-4.5/WAGNER/K1062	4.25	4.25	1.19	-18.12
A16-5.0/WAGNER/K1062	4.75	4.75	0.91	-18.28
A16-5.5/WAGNER/K1062	5.25	5.25	1.07	-18.43
A16-6.0/WAGNER/K1062	5.75	5.75	1.20	-18.29
SLA16-6.5/WAGNER/K1112	6.25	6.25	1.57	-18.36
A16-7.0/WAGNER/K1062	6.75	6.75	1.70	-18.37
SLA16-7.0/WAGNER/K1112	7.25	7.25	1.76	-18.30
A16-8.0/WAGNER/K1062	7.75	7.75	1.39	-18.35
SLA16-8.0/WAGNER/K1112	8.25	8.25	1.22	-18.37
A16-9.0/WAGNER/K1062	8.75	8.75	0.39	-18.33
SLA16-9.0/WAGNER/K1112	9.25	9.25	0.76	-18.50
A16-10.0/WAGNER/K1062	9.75	9.75	1.18	-18.50
SLA16-10.0/WAGNER/K1112	10.25	10.25	0.92	-18.73
A16-11.0/WAGNER/K1062	10.75	10.75	1.21	-18.65
SLA16-11.0/WAGNER/K1112	11.25	11.25	1.53	-18.59
A16-12.0/WAGNER/K1062	11.75	11.75	1.37	-18.52
SLA16-12.0/WAGNER/K1112	12.25	12.25	1.64	-18.60
A16-13.0/WAGNER/K1062	12.75	12.75	1.19	-18.55
SLA16-13.0/WAGNER/K1112	13.25	13.25	1.38	-18.60
A16-14.0/WAGNER/K1062	13.75	13.75	1.52	-18.47
A16-15.0/WAGNER/K1062	14.75	14.75	1.50	-18.60
SLA16-15.0/WAGNER/K1112	15.25	15.25	1.81	-18.75
A16-16.0/WAGNER/K1062	15.75	15.75	1.72	-18.73
SLA16-16.0/WAGNER/K1112	16.25	16.25	1.64	-18.86
SLA16-16.5/WAGNER/K1112	16.75	16.75	1.67	-18.74
SLA16-17.0/WAGNER/K1112	17.25	17.25	1.98	-18.79
SLA16-17.5/WAGNER/K1112	17.75	17.75	1.55	-18.70
SLA16-18.0/WAGNER/K1112	18.25	18.25	1.16	-18.89
SLA16-18.5/WAGNER/K1112	18.75	18.75	1.38	-18.72
SLA16-19.5/WAGNER/K1112	19.75	19.75	1.53	-18.68
SLA16-20.5/WAGNER/K1112	20.75	20.75	1.72	-18.77
SLA16-21.0/WAGNER/K1112	21.25	21.25	1.90	-18.73
SLA16-21.5/WAGNER/K1112	21.75	21.75	1.74	-18.67
SLA16-22.0/WAGNER/K1112	22.25	22.25	1.68	-18.79
SLA16-22.5/WAGNER/K1112	22.75	22.75	1.69	-18.48
SLA16-23.0/WAGNER/K1112	23.25	23.25	1.74	-18.62
SLA16-23.5/WAGNER/K1112	23.75	23.75	1.86	-18.69

SLA16-24.0/WAGNER/K1112	24.25	24.25	1.98	-18.61
SLA16-24.5/WAGNER/K1112	24.75	24.75	1.70	-18.79
SLA16-25.0/WAGNER/K1112	25.25	25.25	1.94	-18.71
SLA16-25.5/WAGNER/K1112	25.75	25.75	1.68	-18.52
SLA16-26.0/WAGNER/K1112	26.25	26.25	1.37	-18.65
SLA16-26.5/WAGNER/K1112	26.75	26.75	1.40	-18.72
SLA16-27.0/WAGNER/K1112	27.25	27.25	0.95	-18.69
SLA16-27.5/WAGNER/K1112	27.75	27.75	1.57	-18.56
SLA16-28.0/WAGNER/K1112	28.25	28.25	2.05	-18.64
A16-28.5/WAGNER/K1112	28.75	28.75	2.38	-18.71
SLA16-29.0/WAGNER/K1112	29.5	29.5	2.23	-18.77
43-118/WAGNER SL/K1129	30.25	30.25	1.98	-18.78
45-122/WAGNER SL/K1129	31.25	31.25	1.01	-18.81
SL 47-126/WAGNER/K1112	32.25	32.25	2.26	-18.45
SL 49-130/WAGNER/K1112	33.25	33.25	1.97	-18.53
51-134/WAGNER SL/K1129	34.25	34.25	2.07	-18.61
SL 54-140/WAGNER/K1112	35.75	35.75	2.32	-18.79
SL 55-142/WAGNER/K1112	36.25	36.25	2.26	-18.72
SL 57-146/WAGNER/K1112	37.25	37.25	1.94	-18.65
SL 59-150/WAGNER/K1112	38.25	38.25	2.60	-18.84
SL 60-152/WAGNER/K1112	38.75	38.75	2.21	-18.85
61-154/WAGNER SL/K1129	39.25	39.25	2.33	-18.65
SL 64-160/WAGNER/K1112	40.75	40.75	1.99	-18.85
SL 65-162/WAGNER/K1112	41.25	41.25	1.79	-18.96
SL 67-166/WAGNER/K1112	42.25	42.25	1.88	-18.78
SL 69-170/WAGNER/K1112	43.25	43.25	1.41	-18.75
SL 70-172/WAGNER/K1112	43.75	43.75	1.50	-18.77
71-174/WAGNER SL/K1129	44.25	44.25	3.25	-18.44
SL 74-180/WAGNER/K1112	45.75	45.75	2.67	-18.89
SL 75-182/WAGNER/K1112	46.25	46.25	2.28	-18.72
SL 77-186/WAGNER/K1112	47.25	47.25	2.69	-18.66
SL 79-190/WAGNER/K1112	48.25	48.25	2.00	-18.83
SL 80-192/WAGNER/K1112	48.75	48.75	2.50	-18.31
81-194/WAGNER SL/K1129	49.25	49.25	2.55	-18.74
SL 84-200/WAGNER/K1112	50.75	50.75	2.41	-18.70
SL 85-202/WAGNER/K1112	51.25	51.25	2.42	-18.71
SL 87-206/WAGNER/K1112	52.25	52.25	2.80	-18.70
SL 89-210/WAGNER/K1112	53.25	53.25	2.46	-18.58
SL 90-212/WAGNER/K1112	53.75	53.75	2.64	-18.41
91-214/WAGNER SL/K1129	54.25	54.25	2.20	-18.59
SL 94-220/WAGNER/K1112	55.75	55.75	2.90	-18.21
SL 95-222/WAGNER/K1112	56.25	56.25	2.50	-18.56
SL 97-226/WAGNER/K1112	57.25	57.25	2.75	-18.47
SL 99-230/WAGNER/K1112	58.25	58.25	3.09	-18.23
SL 100-232/WAGNER/K1112	58.75	58.75	2.96	-18.57

101-234/WAGNER SL/K1129	59.25	59.25	2.70	-18.46
SL 104-240/WAGNER/K1112	60.75	60.75	3.03	-18.36
SL 105-242/WAGNER/K1112	61.25	61.25	2.76	-18.35
SL 107-246/WAGNER/K1112	62.25	62.25	2.83	-18.58
SL 109-250/WAGNER/K1112	63.25	63.25	2.77	-18.52
SL 110-252/WAGNER/K1112	63.75	63.75	2.25	-18.73
111-254/WAGNER SL/K1129	64.25	64.25	2.54	-18.66
SL 114-260/WAGNER/K1112	65.75	65.75	2.86	-18.98
SL 115-262/WAGNER/K1112	66.25	66.25	2.98	-18.93
SL 117-266/WAGNER/K1112	67.25	67.25	2.71	-18.52
SL 119-270/WAGNER/K1112	68.25	68.25	2.38	-18.58
121-274/WAGNER SL/K1129	69.25	69.25	1.47	-18.73
SL 124-280/WAGNER/K1112	70.75	70.75	1.15	-18.76
125-282/WAGNER SL/K1129	71.25	71.25	2.07	-18.76
SL 127-286/WAGNER/K1112	72.25	72.25	2.01	-18.37
SL 129-290/WAGNER/K1112	73.25	73.25	2.00	-18.64
131-294/WAGNER SL/K1129	74.25	74.25	3.23	-18.48
SL 134-300/WAGNER/K1112	75.75	75.75	2.64	-18.63
135-302/WAGNER SL/K1129	76.25	76.25	2.99	-18.63
SL 137-306/WAGNER/K1112	77.25	77.25	3.17	-18.76
SL 139-310/WAGNER/K1112	78.25	78.25	1.91	-18.77
141-314/WAGNER SL/K1129	79.25	79.25	2.51	-18.72
SL 144-320/WAGNER/K1112	80.75	80.75	1.97	-19.09
145-322/WAGNER SL/K1129	81.25	81.25	1.64	-18.84
SL 147-326/WAGNER/K1112	82.25	82.25	2.09	-18.63
SL 149-330/WAGNER/K1112	83.25	83.25	1.67	-18.83
151-334/WAGNER SL/K1129	84.25	84.25	1.91	-18.66
SL 154-340/WAGNER/K1112	85.75	85.75	3.08	-18.60
155-342/WAGNER SL/K1129	86.25	86.25	2.71	-18.59
SL 157-346/WAGNER/K1112	87.25	87.25	2.58	-18.62
SL 159-350/WAGNER/K1112	88.25	88.25	2.02	-18.71
161-354/WAGNER SL/K1129	89.25	89.25	1.94	-18.62
SL 164-360/WAGNER/K1112	90.75	90.75	1.71	-18.91
165-362/WAGNER SL/K1129	91.25	91.25	1.95	-18.80
SL 168-368/WAGNER/K1112	92.75	92.75	1.91	-18.66
SL 169-370/WAGNER/K1112	93.25	93.25	1.67	-18.94
171-374/WAGNER/K1129	94.25	94.25	1.61	-18.72
SL 174-380/WAGNER/K1112	95.75	95.75	2.20	-18.37
175-382/WAGNER SL/K1129	96.25	96.25	1.76	-18.62
SL 178-388/WAGNER/K1112	97.75	97.75	1.98	-18.49
SL 179-390/WAGNER/K1112	98.25	98.25	1.83	-18.40
181-394/WAGNER SL/K1129	99.25	99.25	1.78	-18.57
SL 184-400/WAGNER/K1112	100.75	100.75	1.72	-18.76
185-402/WAGNER SL/K1129	101.25	101.25	1.62	-18.94
SL 188-408/WAGNER/K1112	102.75	102.75	0.85	-18.80

SL 189-410/WAGNER/K1112	103.25	103.25	0.75	-18.81
191-414/WAGNER SL/K1129	104.25	104.25	1.68	-18.57
SL 194-420/WAGNER/K1112	105.75	105.75	2.30	-18.60
195-422/WAGNER SL/K1129	106.25	106.25	2.46	-18.56
SL 198-428/WAGNER/K1112	107.75	107.75	2.13	-18.37
SL 199-430/WAGNER/K1112	108.25	108.25	2.17	-18.63
201-434/WAGNER SL/K1129	109.25	109.25	1.98	-18.78
SL 204-440/WAGNER/K1112	110.75	110.75	1.96	-18.93
205-442/WAGNER SL/K1129	111.25	111.25	1.74	-18.88
SL 208-448/WAGNER/K1112	112.75	112.75	2.03	-18.91
SL 210-452/WAGNER/K1112	113.75	113.75	1.94	-19.24
211-452/WAGNER SL/K1129	114.25	114.25	1.62	-19.09
SL 214-460/WAGNER/K1112	115.75	115.75	1.51	-18.97
215-462/WAGNER SL/K1129	116.25	116.25	1.57	-18.90
SL 218-468/WAGNER/K1112	117.75	117.75	1.94	-18.67
SL 220-472/WAGNER/K1112	118.75	118.75	1.57	-18.85
221-474/WAGNER SL/K1129	119.25	119.25	1.53	-18.71
SL 224-480/WAGNER/K1112	120.75	120.75	1.87	-19.07
225-482/WAGNER SL/K1129	121.25	121.25	2.28	-18.86
SL 228-488/WAGNER/K1112	122.75	122.75	1.66	-18.32
SL 230-492/WAGNER/K1112	123.75	123.75	1.21	-18.88
231-494/WAGNER SL/K1129	124.25	124.25	1.34	-18.82
SL 234-500/WAGNER/K1112	125.75	125.75	1.34	-19.00
235-502/WAGNER SL/K1129	126.25	126.25	1.31	-19.14
SL 238-508/WAGNER/K1112	127.75	127.75	2.15	-18.57
SL 240-512/WAGNER/K1112	128.75	128.75	1.46	-18.85
241-514/WAGNER SL/K1129	129.25	129.25	1.40	-19.00
SL 244-520/WAGNER/K1112	130.75	130.75	1.90	-18.92
245-522/WAGNER SL/K1129	131.25	131.25	1.25	-19.07
SL 248-528/WAGNER/K1112	132.75	132.75	1.00	-19.01
SL 250-532/WAGNER/K1112	133.75	133.75	2.00	-18.99
251-534/WAGNER SL/K1129	134.25	134.25	2.37	-18.93
SL 254-540/WAGNER/K1112	135.75	135.75	1.01	-18.82
255-542/WAGNER/K1129	136.25	136.25	1.36	-18.89
260-553/WAGNER/K1129	137.75	137.75	3.25	-18.73
SL 262-556/WAGNER/K1112	138.75	138.75	2.44	-18.61
263-558/WAGNER/K1129	139.25	139.25	1.90	-18.87
SL 266-564/WAGNER/K1112	140.75	140.75	1.58	-19.09
267-566/WAGNER/K1129	141.25	141.25	2.53	-18.99
SL 269-570/WAGNER/K1112	142.25	142.25	1.53	-18.89
SL 271-574/WAGNER/K1112	143.25	143.25	1.77	-18.77
273-578/WAGNER/K1129	144.25	144.25	1.81	-18.89
SL 276-584/WAGNER/K1112	145.75	145.75	0.76	-18.80
277-586/WAGNER/K1129	146.25	146.25	0.82	-18.91
SL 279-590/WAGNER/K1112	147.25	147.25	0.65	-18.79

SL 281-594/WAGNER/K1112	148.25	148.25	0.30	-18.58
283-598/WAGNER/K1129	149.25	149.25	1.34	-18.92
SL 286-604/WAGNER/K1112	150.75	150.75	0.73	-18.79
287-606/WAGNER/K1129	151.25	151.25	1.31	-18.66
SL 289-610/WAGNER/K1112	152.25	152.25	0.62	-18.65
SL 291-614/WAGNER/K1112	153.25	153.25	0.96	-18.46
293-618/WAGNER/K1129	154.25	154.25	0.92	-19.06
SL 296-624/WAGNER/K1112	155.75	155.75	0.84	-19.02
297-626/WAGNER/K1129	156.25	156.25	1.05	-18.86
SL 299-630/WAGNER/K1112	157.25	157.25	0.73	-19.25
SL 301-634/WAGNER/K1112	158.25	158.25	1.17	-19.06
303-638/WAGNER/K1129	159.25	159.25	1.57	-18.84
SL 306-644/WAGNER/K1112	160.75	160.75	1.26	-19.06
307-646/WAGNER/K1129	161.25	161.25	1.12	-19.04
SL 309-650/WAGNER/K1112	162.25	162.25	0.53	-19.20
SL 311-654/WAGNER/K1112	163.25	163.25	0.53	-19.09
313-658/WAGNER/K1129	164.25	164.25	0.34	-19.11
SL 316-664/WAGNER/K1112	165.75	165.75	-0.03	-18.95
317-666/WAGNER/K1129	166.25	166.25	0.25	-19.04
SL 319-670/WAGNER/K1112	167.25	167.25	0.33	-19.42
SL 321-674/WAGNER/K1112	168.25	168.25	0.01	-19.16
323-678/WAGNER/K1129	169.25	169.25	0.36	-18.97
SL 326-684/WAGNER/K1112	170.75	170.75	1.27	-19.04
327-686/WAGNER/K1129	171.25	171.25	2.11	-18.72
SL 329-690/WAGNER/K1112	172.25	172.25	2.46	-18.86
SL 331-694/WAGNER/K1112	173.25	173.25	2.39	-19.10
333-698/WAGNER/K1129	174.25	174.25	2.29	-19.10
SL 336-704/WAGNER/K1112	175.75	175.75	1.62	-19.41
337-706/WAGNER/K1129	176.25	176.25	1.05	-19.20
SL 339-710/WAGNER/K1112	177.25	177.25	1.97	-18.97
SL 341-714/WAGNER/K1112	178.25	178.25	2.28	-18.54
343-718/WAGNER/K1129	179.25	179.25	-0.33	-18.28
SL 346-724/WAGNER/K1112	180.75	180.75	0.94	-18.68
347-726/WAGNER/K1129	181.25	181.25	1.60	-18.34
SL 349-730/WAGNER/K1112	182.25	182.25	3.41	-18.81
SL 351-734/WAGNER/K1112	183.25	183.25	2.98	-18.62
353-738/WAGNER/K1129	184.25	184.25	2.93	-18.70
SL 358-748/WAGNER/K1112	185.75	185.75	3.46	-18.74
SL 361-754/WAGNER/K1112	187.25	187.25	3.57	-18.77
SL 363-758/WAGNER/K1112	264.25	188.25	3.45	-19.06
365-762/WAGNER/K1129	265.25	189.25	4.30	-18.95
369-770/WAGNER/K1129	267.25	191.25	3.02	-18.96
SL 371-774/WAGNER/K1112	268.25	192.25	3.21	-18.79
SL 373-778/WAGNER/K1112	269.25	193.25	3.52	-18.91
375-782/WAGNER/K1129	270.25	194.25	3.18	-18.51

SL 378-788/WAGNER/K1112	271.75	195.75	3.52	-18.83
379-790/WAGNER/K1129	272.25	196.25	3.40	-18.49
SL 381-794/WAGNER/K1112	273.25	197.25	3.55	-18.67
SL 383-798/WAGNER/K1112	274.25	198.25	4.13	-18.67
385-802/WAGNER/K1129	275.25	199.25	4.57	-18.48
SL 388-808/WAGNER/K1112	276.75	200.75	4.73	-18.60
389-810/WAGNER/K1129	277.25	201.25	4.34	-18.29
SL 391-814/WAGNER/K1112	278.25	202.25	4.36	-18.81
SL 393-818/WAGNER/K1112	279.25	203.25	4.80	-18.57
395-822/WAGNER/K1129	280.25	204.25	4.95	-18.42
SL 398-828/WAGNER/K1112	281.75	205.75	4.89	-18.61
399-830/WAGNER/K1129	282.25	206.25	4.23	-18.50
SL 401-834/WAGNER/K1112	283.25	207.25	4.77	-18.51
SL 403-838/WAGNER/K1112	284.25	208.25	4.60	-18.44
405-842/WAGNER/K1129	285.25	209.25	4.39	-18.26
SL 408-848/WAGNER/K1112	286.75	210.75	5.29	-18.38
409-850/WAGNER/K1129	287.25	211.25	4.85	-18.20
SL 411-854/WAGNER/K1112	288.25	212.25	4.47	-18.30
SL 413-858/WAGNER/K1112	289.25	213.25	4.65	-18.54
415-862/WAGNER/K1129	290.25	214.25	5.01	-18.40
SL 418-868/WAGNER/K1112	291.75	215.75	4.70	-18.73
419-870/WAGNER/K1129	292.25	216.25	4.65	-18.41
SL 421-874/WAGNER/K1112	293.25	217.25	2.04	-18.33
SL 423-878/WAGNER/K1112	294.25	218.25	3.91	-17.47
425-882/WAGNER/K1129	295.25	219.25	3.91	-18.23
SL 428-888/WAGNER/K1112	296.75	220.75	4.96	-18.28
429-890/WAGNER/K1129	297.25	221.25	4.81	-17.96
SL 431-894/WAGNER/K1112	298.25	222.25	4.23	-18.01
SL 433-898/WAGNER/K1112	299.25	223.25	4.51	-17.81
435-902/WAGNER/K1129	300.25	224.25	4.41	-17.72
SL 438-908/WAGNER/K1112	301.75	225.75	4.33	-17.63
439-910/WAGNER/K1129	302.25	226.25	4.53	-16.96

Table 7 – XRD data represented in Figure 8

SL258-548 (137 cm)		SL16 D1 144 (174 cm)		SL399-830 (206 cm)		SL17 D5 80 cm (230 cm)	
Position (°2θ)	Counts	Position (°2θ)	Counts	Position (°2θ)	Counts	Position (°2θ)	Counts
5.025	87	5.025	96	5.025	90	5.025	86
5.075	92	5.075	76	5.075	66	5.075	81
5.125	87	5.125	82	5.125	78	5.125	98
5.175	93	5.175	84	5.175	92	5.175	72
5.225	77	5.225	83	5.225	80	5.225	82
5.275	75	5.275	82	5.275	88	5.275	70

5.325	78	5.325	86	5.325	65	5.325	89
5.375	81	5.375	85	5.375	73	5.375	81
5.425	87	5.425	82	5.425	68	5.425	81
5.475	83	5.475	70	5.475	66	5.475	71
5.525	73	5.525	77	5.525	75	5.525	63
5.575	72	5.575	84	5.575	71	5.575	71
5.625	79	5.625	75	5.625	93	5.625	75
5.675	74	5.675	74	5.675	71	5.675	59
5.725	86	5.725	86	5.725	69	5.725	63
5.775	70	5.775	83	5.775	68	5.775	63
5.825	74	5.825	71	5.825	69	5.825	56
5.875	68	5.875	95	5.875	66	5.875	77
5.925	91	5.925	49	5.925	52	5.925	53
5.975	82	5.975	69	5.975	65	5.975	79
6.025	68	6.025	68	6.025	64	6.025	65
6.075	72	6.075	61	6.075	51	6.075	62
6.125	60	6.125	83	6.125	56	6.125	60
6.175	78	6.175	76	6.175	78	6.175	64
6.225	53	6.225	66	6.225	72	6.225	61
6.275	67	6.275	78	6.275	61	6.275	63
6.325	68	6.325	61	6.325	67	6.325	61
6.375	82	6.375	74	6.375	57	6.375	64
6.425	69	6.425	74	6.425	54	6.425	59
6.475	56	6.475	64	6.475	72	6.475	56
6.525	69	6.525	76	6.525	62	6.525	58
6.575	64	6.575	65	6.575	53	6.575	60
6.625	69	6.625	62	6.625	60	6.625	49
6.675	66	6.675	64	6.675	59	6.675	54
6.725	77	6.725	58	6.725	66	6.725	38
6.775	56	6.775	84	6.775	69	6.775	53
6.825	64	6.825	47	6.825	54	6.825	77
6.875	63	6.875	66	6.875	53	6.875	54
6.925	57	6.925	60	6.925	61	6.925	67
6.975	65	6.975	62	6.975	41	6.975	52
7.025	62	7.025	60	7.025	64	7.025	57
7.075	63	7.075	60	7.075	61	7.075	46
7.125	47	7.125	80	7.125	64	7.125	54
7.175	61	7.175	63	7.175	45	7.175	51
7.225	57	7.225	65	7.225	46	7.225	69
7.275	54	7.275	64	7.275	44	7.275	52
7.325	60	7.325	55	7.325	61	7.325	66

7.375	51	7.375	58	7.375	56	7.375	55
7.425	72	7.425	42	7.425	54	7.425	53
7.475	53	7.475	58	7.475	56	7.475	47
7.525	69	7.525	63	7.525	46	7.525	49
7.575	61	7.575	55	7.575	48	7.575	50
7.625	53	7.625	55	7.625	49	7.625	48
7.675	55	7.675	62	7.675	54	7.675	45
7.725	42	7.725	63	7.725	40	7.725	51
7.775	50	7.775	55	7.775	49	7.775	46
7.825	71	7.825	52	7.825	41	7.825	49
7.875	53	7.875	59	7.875	48	7.875	48
7.925	46	7.925	59	7.925	46	7.925	44
7.975	56	7.975	45	7.975	43	7.975	52
8.025	58	8.025	47	8.025	30	8.025	39
8.075	55	8.075	52	8.075	49	8.075	51
8.125	50	8.125	70	8.125	53	8.125	51
8.175	51	8.175	41	8.175	52	8.175	49
8.225	48	8.225	52	8.225	35	8.225	33
8.275	47	8.275	53	8.275	44	8.275	56
8.325	69	8.325	50	8.325	33	8.325	39
8.375	46	8.375	48	8.375	45	8.375	46
8.425	42	8.425	51	8.425	35	8.425	45
8.475	54	8.475	42	8.475	41	8.475	31
8.525	44	8.525	51	8.525	47	8.525	36
8.575	48	8.575	54	8.575	37	8.575	53
8.625	49	8.625	45	8.625	36	8.625	44
8.675	50	8.675	46	8.675	36	8.675	49
8.725	46	8.725	44	8.725	46	8.725	44
8.775	43	8.775	47	8.775	44	8.775	53
8.825	58	8.825	47	8.825	45	8.825	60
8.875	47	8.875	43	8.875	39	8.875	50
8.925	50	8.925	51	8.925	47	8.925	50
8.975	52	8.975	47	8.975	34	8.975	44
9.025	37	9.025	38	9.025	39	9.025	31
9.075	67	9.075	32	9.075	35	9.075	44
9.125	59	9.125	42	9.125	26	9.125	40
9.175	44	9.175	39	9.175	49	9.175	33
9.225	30	9.225	50	9.225	46	9.225	32
9.275	46	9.275	35	9.275	24	9.275	40
9.325	43	9.325	45	9.325	35	9.325	47
9.375	41	9.375	41	9.375	48	9.375	39

9.425	37	9.425	50	9.425	41	9.425	36
9.475	47	9.475	50	9.475	37	9.475	38
9.525	42	9.525	37	9.525	43	9.525	43
9.575	43	9.575	47	9.575	43	9.575	30
9.625	40	9.625	32	9.625	32	9.625	40
9.675	35	9.675	42	9.675	30	9.675	42
9.725	43	9.725	38	9.725	34	9.725	24
9.775	50	9.775	36	9.775	29	9.775	38
9.825	46	9.825	35	9.825	27	9.825	32
9.875	34	9.875	49	9.875	30	9.875	32
9.925	39	9.925	42	9.925	25	9.925	28
9.975	33	9.975	26	9.975	40	9.975	26
10.025	35	10.025	29	10.025	28	10.025	27
10.075	39	10.075	46	10.075	32	10.075	31
10.125	41	10.125	40	10.125	41	10.125	42
10.175	41	10.175	49	10.175	38	10.175	30
10.225	44	10.225	36	10.225	38	10.225	34
10.275	31	10.275	28	10.275	27	10.275	34
10.325	40	10.325	35	10.325	25	10.325	28
10.375	33	10.375	36	10.375	24	10.375	37
10.425	37	10.425	39	10.425	34	10.425	26
10.475	38	10.475	40	10.475	35	10.475	24
10.525	25	10.525	49	10.525	37	10.525	33
10.575	37	10.575	36	10.575	32	10.575	26
10.625	36	10.625	47	10.625	32	10.625	28
10.675	44	10.675	36	10.675	31	10.675	40
10.725	30	10.725	49	10.725	33	10.725	35
10.775	38	10.775	35	10.775	34	10.775	36
10.825	44	10.825	42	10.825	24	10.825	23
10.875	38	10.875	49	10.875	34	10.875	34
10.925	34	10.925	39	10.925	28	10.925	23
10.975	33	10.975	38	10.975	38	10.975	21
11.025	35	11.025	44	11.025	34	11.025	26
11.075	35	11.075	47	11.075	32	11.075	27
11.125	40	11.125	40	11.125	31	11.125	30
11.175	43	11.175	34	11.175	31	11.175	31
11.225	40	11.225	43	11.225	30	11.225	30
11.275	26	11.275	37	11.275	26	11.275	26
11.325	36	11.325	39	11.325	22	11.325	29
11.375	32	11.375	36	11.375	29	11.375	27
11.425	40	11.425	35	11.425	27	11.425	18

11.475	36	11.475	37	11.475	30	11.475	24
11.525	32	11.525	36	11.525	34	11.525	26
11.575	34	11.575	27	11.575	34	11.575	18
11.625	34	11.625	34	11.625	25	11.625	17
11.675	23	11.675	38	11.675	24	11.675	21
11.725	33	11.725	37	11.725	22	11.725	42
11.775	37	11.775	46	11.775	30	11.775	35
11.825	41	11.825	26	11.825	31	11.825	30
11.875	28	11.875	36	11.875	28	11.875	15
11.925	34	11.925	25	11.925	24	11.925	31
11.975	35	11.975	44	11.975	26	11.975	21
12.025	37	12.025	29	12.025	41	12.025	15
12.075	44	12.075	32	12.075	24	12.075	23
12.125	34	12.125	34	12.125	27	12.125	32
12.175	29	12.175	38	12.175	22	12.175	29
12.225	37	12.225	32	12.225	26	12.225	28
12.275	30	12.275	33	12.275	25	12.275	28
12.325	41	12.325	42	12.325	21	12.325	41
12.375	39	12.375	41	12.375	28	12.375	32
12.425	39	12.425	33	12.425	24	12.425	31
12.475	38	12.475	29	12.475	33	12.475	29
12.525	35	12.525	28	12.525	27	12.525	23
12.575	36	12.575	44	12.575	31	12.575	28
12.625	34	12.625	29	12.625	36	12.625	24
12.675	32	12.675	30	12.675	21	12.675	30
12.725	36	12.725	23	12.725	25	12.725	25
12.775	27	12.775	41	12.775	18	12.775	23
12.825	34	12.825	33	12.825	31	12.825	30
12.875	47	12.875	39	12.875	22	12.875	20
12.925	30	12.925	28	12.925	28	12.925	23
12.975	42	12.975	34	12.975	29	12.975	27
13.025	29	13.025	37	13.025	18	13.025	39
13.075	31	13.075	27	13.075	21	13.075	28
13.125	31	13.125	31	13.125	31	13.125	23
13.175	38	13.175	32	13.175	26	13.175	23
13.225	22	13.225	29	13.225	26	13.225	24
13.275	36	13.275	39	13.275	23	13.275	26
13.325	28	13.325	35	13.325	23	13.325	17
13.375	22	13.375	49	13.375	25	13.375	25
13.425	22	13.425	31	13.425	23	13.425	24
13.475	26	13.475	38	13.475	23	13.475	21

13.525	43	13.525	37	13.525	29	13.525	20
13.575	33	13.575	28	13.575	25	13.575	24
13.625	26	13.625	39	13.625	25	13.625	26
13.675	30	13.675	25	13.675	16	13.675	27
13.725	33	13.725	29	13.725	19	13.725	20
13.775	29	13.775	33	13.775	22	13.775	20
13.825	39	13.825	21	13.825	25	13.825	15
13.875	39	13.875	25	13.875	19	13.875	23
13.925	31	13.925	23	13.925	24	13.925	16
13.975	28	13.975	31	13.975	21	13.975	18
14.025	45	14.025	27	14.025	25	14.025	18
14.075	26	14.075	37	14.075	16	14.075	19
14.125	34	14.125	20	14.125	21	14.125	14
14.175	29	14.175	24	14.175	21	14.175	15
14.225	33	14.225	33	14.225	14	14.225	27
14.275	29	14.275	18	14.275	20	14.275	12
14.325	27	14.325	28	14.325	11	14.325	23
14.375	30	14.375	40	14.375	22	14.375	25
14.425	47	14.425	26	14.425	16	14.425	25
14.475	29	14.475	26	14.475	28	14.475	17
14.525	27	14.525	25	14.525	19	14.525	17
14.575	30	14.575	25	14.575	24	14.575	19
14.625	30	14.625	26	14.625	23	14.625	19
14.675	33	14.675	19	14.675	22	14.675	19
14.725	29	14.725	27	14.725	15	14.725	23
14.775	35	14.775	26	14.775	16	14.775	18
14.825	24	14.825	23	14.825	31	14.825	16
14.875	35	14.875	30	14.875	22	14.875	20
14.925	28	14.925	26	14.925	17	14.925	19
14.975	33	14.975	25	14.975	18	14.975	18
15.025	30	15.025	25	15.025	20	15.025	14
15.075	30	15.075	22	15.075	22	15.075	24
15.125	31	15.125	22	15.125	25	15.125	31
15.175	34	15.175	22	15.175	11	15.175	17
15.225	31	15.225	28	15.225	27	15.225	15
15.275	29	15.275	24	15.275	21	15.275	23
15.325	30	15.325	25	15.325	18	15.325	15
15.375	37	15.375	17	15.375	31	15.375	21
15.425	31	15.425	30	15.425	21	15.425	20
15.475	31	15.475	26	15.475	21	15.475	6
15.525	25	15.525	18	15.525	19	15.525	11

15.575	28	15.575	22	15.575	18	15.575	11
15.625	27	15.625	30	15.625	19	15.625	31
15.675	39	15.675	28	15.675	24	15.675	18
15.725	33	15.725	31	15.725	24	15.725	12
15.775	36	15.775	30	15.775	24	15.775	23
15.825	30	15.825	35	15.825	16	15.825	19
15.875	33	15.875	19	15.875	27	15.875	16
15.925	30	15.925	21	15.925	15	15.925	18
15.975	31	15.975	20	15.975	17	15.975	13
16.025	26	16.025	18	16.025	17	16.025	24
16.075	37	16.075	35	16.075	26	16.075	17
16.125	37	16.125	20	16.125	21	16.125	17
16.175	39	16.175	17	16.175	25	16.175	28
16.225	31	16.225	22	16.225	22	16.225	17
16.275	28	16.275	23	16.275	28	16.275	19
16.325	38	16.325	19	16.325	28	16.325	29
16.375	31	16.375	26	16.375	10	16.375	23
16.425	34	16.425	20	16.425	20	16.425	25
16.475	31	16.475	23	16.475	24	16.475	13
16.525	36	16.525	17	16.525	29	16.525	21
16.575	28	16.575	19	16.575	20	16.575	17
16.625	31	16.625	25	16.625	30	16.625	26
16.675	29	16.675	34	16.675	18	16.675	16
16.725	40	16.725	16	16.725	21	16.725	22
16.775	17	16.775	19	16.775	26	16.775	19
16.825	24	16.825	23	16.825	22	16.825	24
16.875	32	16.875	28	16.875	19	16.875	32
16.925	36	16.925	19	16.925	19	16.925	26
16.975	33	16.975	28	16.975	13	16.975	11
17.025	31	17.025	20	17.025	21	17.025	11
17.075	33	17.075	29	17.075	15	17.075	26
17.125	28	17.125	23	17.125	14	17.125	8
17.175	29	17.175	22	17.175	18	17.175	21
17.225	26	17.225	21	17.225	23	17.225	16
17.275	36	17.275	22	17.275	28	17.275	18
17.325	33	17.325	30	17.325	23	17.325	23
17.375	39	17.375	23	17.375	19	17.375	9
17.425	29	17.425	17	17.425	20	17.425	29
17.475	40	17.475	30	17.475	16	17.475	27
17.525	31	17.525	18	17.525	25	17.525	16
17.575	43	17.575	20	17.575	13	17.575	23

17.625	34	17.625	26	17.625	18	17.625	24
17.675	40	17.675	18	17.675	26	17.675	19
17.725	48	17.725	21	17.725	23	17.725	21
17.775	54	17.775	23	17.775	19	17.775	24
17.825	43	17.825	19	17.825	19	17.825	20
17.875	46	17.875	22	17.875	15	17.875	20
17.925	54	17.925	20	17.925	24	17.925	16
17.975	32	17.975	19	17.975	14	17.975	21
18.025	33	18.025	27	18.025	21	18.025	14
18.075	28	18.075	22	18.075	19	18.075	21
18.125	52	18.125	24	18.125	23	18.125	17
18.175	46	18.175	28	18.175	22	18.175	16
18.225	50	18.225	22	18.225	16	18.225	13
18.275	49	18.275	18	18.275	17	18.275	12
18.325	41	18.325	25	18.325	26	18.325	14
18.375	44	18.375	27	18.375	24	18.375	12
18.425	45	18.425	29	18.425	25	18.425	9
18.475	35	18.475	21	18.475	21	18.475	15
18.525	54	18.525	17	18.525	14	18.525	17
18.575	42	18.575	18	18.575	14	18.575	16
18.625	49	18.625	26	18.625	19	18.625	18
18.675	43	18.675	20	18.675	26	18.675	16
18.725	52	18.725	23	18.725	20	18.725	26
18.775	40	18.775	32	18.775	27	18.775	26
18.825	38	18.825	27	18.825	18	18.825	22
18.875	54	18.875	27	18.875	11	18.875	24
18.925	67	18.925	24	18.925	24	18.925	13
18.975	38	18.975	23	18.975	17	18.975	11
19.025	56	19.025	28	19.025	15	19.025	12
19.075	42	19.075	19	19.075	12	19.075	15
19.125	42	19.125	21	19.125	24	19.125	13
19.175	42	19.175	20	19.175	15	19.175	6
19.225	55	19.225	17	19.225	16	19.225	17
19.275	44	19.275	33	19.275	14	19.275	15
19.325	51	19.325	19	19.325	18	19.325	17
19.375	47	19.375	20	19.375	16	19.375	15
19.425	48	19.425	21	19.425	18	19.425	17
19.475	56	19.475	26	19.475	26	19.475	17
19.525	64	19.525	26	19.525	25	19.525	19
19.575	55	19.575	23	19.575	19	19.575	14
19.625	63	19.625	20	19.625	22	19.625	25

19.675	57	19.675	24	19.675	24	19.675	16
19.725	83	19.725	13	19.725	27	19.725	25
19.775	70	19.775	31	19.775	13	19.775	26
19.825	60	19.825	22	19.825	28	19.825	24
19.875	65	19.875	27	19.875	28	19.875	28
19.925	56	19.925	24	19.925	15	19.925	27
19.975	72	19.975	21	19.975	16	19.975	25
20.025	66	20.025	21	20.025	14	20.025	24
20.075	52	20.075	20	20.075	18	20.075	18
20.125	54	20.125	22	20.125	16	20.125	19
20.175	43	20.175	21	20.175	14	20.175	19
20.225	67	20.225	27	20.225	21	20.225	19
20.275	70	20.275	18	20.275	15	20.275	18
20.325	55	20.325	24	20.325	21	20.325	11
20.375	56	20.375	15	20.375	14	20.375	21
20.425	67	20.425	23	20.425	15	20.425	14
20.475	62	20.475	18	20.475	18	20.475	10
20.525	73	20.525	15	20.525	25	20.525	12
20.575	45	20.575	25	20.575	17	20.575	26
20.625	75	20.625	18	20.625	19	20.625	17
20.675	76	20.675	13	20.675	16	20.675	14
20.725	103	20.725	16	20.725	23	20.725	26
20.775	137	20.775	24	20.775	17	20.775	33
20.825	185	20.825	35	20.825	17	20.825	46
20.875	207	20.875	24	20.875	27	20.875	85
20.925	119	20.925	16	20.925	24	20.925	105
20.975	84	20.975	18	20.975	29	20.975	69
21.025	81	21.025	20	21.025	21	21.025	52
21.075	67	21.075	23	21.075	24	21.075	29
21.125	70	21.125	20	21.125	19	21.125	26
21.175	65	21.175	18	21.175	15	21.175	23
21.225	79	21.225	20	21.225	14	21.225	10
21.275	53	21.275	24	21.275	13	21.275	19
21.325	64	21.325	15	21.325	13	21.325	11
21.375	52	21.375	24	21.375	12	21.375	16
21.425	60	21.425	25	21.425	24	21.425	11
21.475	61	21.475	22	21.475	18	21.475	14
21.525	67	21.525	25	21.525	18	21.525	10
21.575	64	21.575	19	21.575	19	21.575	10
21.625	80	21.625	11	21.625	18	21.625	5
21.675	64	21.675	22	21.675	17	21.675	11

21.725	67	21.725	23	21.725	16	21.725	12
21.775	74	21.775	25	21.775	22	21.775	14
21.825	63	21.825	19	21.825	16	21.825	16
21.875	84	21.875	32	21.875	17	21.875	8
21.925	91	21.925	25	21.925	16	21.925	12
21.975	103	21.975	17	21.975	25	21.975	15
22.025	76	22.025	25	22.025	17	22.025	23
22.075	91	22.075	16	22.075	12	22.075	30
22.125	63	22.125	24	22.125	16	22.125	26
22.175	60	22.175	25	22.175	18	22.175	20
22.225	66	22.225	16	22.225	14	22.225	13
22.275	59	22.275	18	22.275	20	22.275	8
22.325	75	22.325	14	22.325	18	22.325	26
22.375	68	22.375	24	22.375	16	22.375	16
22.425	60	22.425	26	22.425	17	22.425	22
22.475	75	22.475	22	22.475	15	22.475	14
22.525	77	22.525	20	22.525	11	22.525	24
22.575	70	22.575	10	22.575	11	22.575	20
22.625	83	22.625	27	22.625	13	22.625	12
22.675	58	22.675	25	22.675	18	22.675	15
22.725	65	22.725	18	22.725	10	22.725	16
22.775	78	22.775	35	22.775	17	22.775	13
22.825	86	22.825	49	22.825	15	22.825	18
22.875	80	22.875	60	22.875	18	22.875	18
22.925	75	22.925	83	22.925	24	22.925	20
22.975	71	22.975	107	22.975	31	22.975	22
23.025	60	23.025	104	23.025	54	23.025	33
23.075	82	23.075	87	23.075	69	23.075	55
23.125	62	23.125	28	23.125	136	23.125	59
23.175	70	23.175	22	23.175	183	23.175	41
23.225	75	23.225	16	23.225	113	23.225	32
23.275	75	23.275	18	23.275	60	23.275	27
23.325	63	23.325	15	23.325	19	23.325	25
23.375	68	23.375	17	23.375	15	23.375	26
23.425	88	23.425	13	23.425	16	23.425	19
23.475	87	23.475	17	23.475	16	23.475	21
23.525	79	23.525	18	23.525	9	23.525	18
23.575	83	23.575	19	23.575	17	23.575	21
23.625	85	23.625	18	23.625	14	23.625	22
23.675	87	23.675	22	23.675	26	23.675	23
23.725	87	23.725	18	23.725	13	23.725	18

23.775	73	23.775	19	23.775	17	23.775	18
23.825	77	23.825	14	23.825	13	23.825	23
23.875	84	23.875	20	23.875	15	23.875	12
23.925	73	23.925	14	23.925	21	23.925	15
23.975	58	23.975	22	23.975	19	23.975	25
24.025	74	24.025	22	24.025	22	24.025	41
24.075	78	24.075	17	24.075	14	24.075	65
24.125	67	24.125	13	24.125	17	24.125	54
24.175	64	24.175	12	24.175	10	24.175	33
24.225	74	24.225	14	24.225	14	24.225	20
24.275	81	24.275	9	24.275	9	24.275	19
24.325	78	24.325	20	24.325	11	24.325	19
24.375	60	24.375	17	24.375	12	24.375	13
24.425	70	24.425	12	24.425	17	24.425	18
24.475	72	24.475	15	24.475	11	24.475	12
24.525	82	24.525	15	24.525	9	24.525	12
24.575	68	24.575	12	24.575	10	24.575	21
24.625	67	24.625	17	24.625	12	24.625	12
24.675	78	24.675	17	24.675	11	24.675	16
24.725	65	24.725	19	24.725	5	24.725	11
24.775	73	24.775	13	24.775	13	24.775	16
24.825	60	24.825	19	24.825	13	24.825	15
24.875	46	24.875	15	24.875	17	24.875	21
24.925	65	24.925	14	24.925	12	24.925	16
24.975	59	24.975	15	24.975	8	24.975	24
25.025	51	25.025	14	25.025	22	25.025	24
25.075	77	25.075	9	25.075	14	25.075	15
25.125	61	25.125	18	25.125	12	25.125	15
25.175	57	25.175	16	25.175	13	25.175	23
25.225	67	25.225	12	25.225	17	25.225	22
25.275	72	25.275	16	25.275	9	25.275	20
25.325	61	25.325	16	25.325	12	25.325	24
25.375	74	25.375	22	25.375	16	25.375	20
25.425	68	25.425	18	25.425	11	25.425	22
25.475	74	25.475	18	25.475	10	25.475	14
25.525	83	25.525	16	25.525	14	25.525	18
25.575	73	25.575	17	25.575	16	25.575	15
25.625	92	25.625	15	25.625	13	25.625	26
25.675	78	25.675	18	25.675	21	25.675	31
25.725	65	25.725	24	25.725	15	25.725	34
25.775	54	25.775	15	25.775	11	25.775	24

25.825	51	25.825	16	25.825	13	25.825	21
25.875	69	25.875	19	25.875	13	25.875	18
25.925	72	25.925	16	25.925	7	25.925	12
25.975	61	25.975	20	25.975	8	25.975	10
26.025	54	26.025	17	26.025	13	26.025	12
26.075	65	26.075	16	26.075	6	26.075	19
26.125	75	26.125	19	26.125	17	26.125	16
26.175	63	26.175	14	26.175	8	26.175	10
26.225	73	26.225	19	26.225	18	26.225	11
26.275	60	26.275	20	26.275	12	26.275	8
26.325	92	26.325	28	26.325	13	26.325	18
26.375	90	26.375	14	26.375	9	26.375	13
26.425	146	26.425	23	26.425	8	26.425	29
26.475	208	26.475	25	26.475	18	26.475	42
26.525	371	26.525	39	26.525	20	26.525	64
26.575	660	26.575	34	26.575	22	26.575	116
26.625	758	26.625	21	26.625	26	26.625	197
26.675	511	26.675	26	26.675	55	26.675	378
26.725	232	26.725	28	26.725	70	26.725	407
26.775	139	26.775	25	26.775	51	26.775	232
26.825	96	26.825	9	26.825	27	26.825	105
26.875	78	26.875	13	26.875	21	26.875	54
26.925	88	26.925	22	26.925	21	26.925	51
26.975	69	26.975	7	26.975	16	26.975	50
27.025	56	27.025	18	27.025	15	27.025	46
27.075	78	27.075	21	27.075	21	27.075	36
27.125	63	27.125	15	27.125	13	27.125	49
27.175	72	27.175	20	27.175	10	27.175	30
27.225	62	27.225	17	27.225	20	27.225	35
27.275	71	27.275	16	27.275	11	27.275	28
27.325	77	27.325	15	27.325	7	27.325	25
27.375	85	27.375	18	27.375	10	27.375	16
27.425	91	27.425	12	27.425	7	27.425	28
27.475	96	27.475	13	27.475	14	27.475	46
27.525	83	27.525	15	27.525	10	27.525	60
27.575	91	27.575	19	27.575	16	27.575	48
27.625	98	27.625	12	27.625	10	27.625	40
27.675	91	27.675	17	27.675	14	27.675	25
27.725	113	27.725	20	27.725	10	27.725	24
27.775	118	27.775	16	27.775	12	27.775	15
27.825	105	27.825	16	27.825	15	27.825	13

27.875	105	27.875	13	27.875	22	27.875	29
27.925	84	27.925	10	27.925	21	27.925	19
27.975	85	27.975	21	27.975	13	27.975	11
28.025	75	28.025	20	28.025	20	28.025	10
28.075	80	28.075	13	28.075	13	28.075	10
28.125	56	28.125	12	28.125	12	28.125	10
28.175	69	28.175	18	28.175	15	28.175	16
28.225	59	28.225	28	28.225	15	28.225	16
28.275	54	28.275	17	28.275	13	28.275	13
28.325	58	28.325	21	28.325	15	28.325	6
28.375	56	28.375	19	28.375	10	28.375	16
28.425	58	28.425	23	28.425	17	28.425	18
28.475	54	28.475	23	28.475	11	28.475	11
28.525	48	28.525	18	28.525	11	28.525	13
28.575	49	28.575	15	28.575	17	28.575	15
28.625	39	28.625	21	28.625	14	28.625	14
28.675	56	28.675	18	28.675	21	28.675	14
28.725	40	28.725	21	28.725	7	28.725	13
28.775	49	28.775	22	28.775	14	28.775	9
28.825	43	28.825	31	28.825	10	28.825	7
28.875	46	28.875	19	28.875	8	28.875	13
28.925	42	28.925	35	28.925	20	28.925	12
28.975	48	28.975	49	28.975	13	28.975	15
29.025	59	29.025	79	29.025	19	29.025	18
29.075	47	29.075	83	29.075	26	29.075	13
29.125	46	29.125	118	29.125	26	29.125	23
29.175	41	29.175	257	29.175	37	29.175	18
29.225	55	29.225	385	29.225	42	29.225	31
29.275	62	29.275	641	29.275	58	29.275	39
29.325	57	29.325	996	29.325	125	29.325	83
29.375	50	29.375	1084	29.375	244	29.375	170
29.425	43	29.425	777	29.425	468	29.425	309
29.475	49	29.475	372	29.475	1111	29.475	551
29.525	55	29.525	154	29.525	1574	29.525	419
29.575	42	29.575	75	29.575	1293	29.575	285
29.625	65	29.625	29	29.625	627	29.625	124
29.675	46	29.675	36	29.675	224	29.675	55
29.725	51	29.725	18	29.725	79	29.725	37
29.775	48	29.775	16	29.775	56	29.775	31
29.825	50	29.825	15	29.825	39	29.825	36
29.875	53	29.875	22	29.875	25	29.875	25

29.925	61	29.925	19	29.925	26	29.925	25
29.975	64	29.975	12	29.975	21	29.975	20
30.025	52	30.025	18	30.025	14	30.025	17
30.075	56	30.075	17	30.075	14	30.075	28
30.125	47	30.125	22	30.125	12	30.125	14
30.175	54	30.175	15	30.175	11	30.175	7
30.225	56	30.225	10	30.225	7	30.225	22
30.275	48	30.275	12	30.275	11	30.275	20
30.325	44	30.325	24	30.325	5	30.325	12
30.375	45	30.375	17	30.375	7	30.375	18
30.425	59	30.425	16	30.425	11	30.425	19
30.475	54	30.475	12	30.475	15	30.475	16
30.525	58	30.525	11	30.525	17	30.525	23
30.575	45	30.575	12	30.575	11	30.575	24
30.625	39	30.625	19	30.625	11	30.625	30
30.675	49	30.675	16	30.675	11	30.675	33
30.725	58	30.725	18	30.725	13	30.725	69
30.775	51	30.775	12	30.775	16	30.775	87
30.825	50	30.825	18	30.825	14	30.825	137
30.875	36	30.875	19	30.875	17	30.875	322
30.925	45	30.925	15	30.925	23	30.925	536
30.975	38	30.975	19	30.975	30	30.975	960
31.025	43	31.025	8	31.025	33	31.025	1049
31.075	36	31.075	8	31.075	44	31.075	704
31.125	53	31.125	10	31.125	25	31.125	315
31.175	34	31.175	14	31.175	20	31.175	115
31.225	51	31.225	23	31.225	8	31.225	61
31.275	50	31.275	16	31.275	11	31.275	37
31.325	58	31.325	26	31.325	15	31.325	30
31.375	54	31.375	33	31.375	11	31.375	21
31.425	45	31.425	41	31.425	22	31.425	23
31.475	45	31.475	23	31.475	20	31.475	27
31.525	47	31.525	23	31.525	31	31.525	30
31.575	43	31.575	18	31.575	45	31.575	15
31.625	41	31.625	9	31.625	35	31.625	19
31.675	35	31.675	14	31.675	20	31.675	12
31.725	41	31.725	16	31.725	14	31.725	9
31.775	54	31.775	14	31.775	6	31.775	15
31.825	43	31.825	8	31.825	18	31.825	11
31.875	44	31.875	14	31.875	14	31.875	7
31.925	39	31.925	10	31.925	4	31.925	8

31.975	37	31.975	6	31.975	3	31.975	18
32.025	45	32.025	10	32.025	10	32.025	19
32.075	43	32.075	13	32.075	11	32.075	14
32.125	35	32.125	13	32.125	7	32.125	8
32.175	42	32.175	6	32.175	10	32.175	16
32.225	43	32.225	12	32.225	8	32.225	14
32.275	56	32.275	13	32.275	5	32.275	19
32.325	24	32.325	10	32.325	12	32.325	18
32.375	30	32.375	11	32.375	7	32.375	15
32.425	35	32.425	2	32.425	10	32.425	13
32.475	37	32.475	8	32.475	6	32.475	10
32.525	28	32.525	7	32.525	8	32.525	9
32.575	34	32.575	18	32.575	11	32.575	10
32.625	26	32.625	5	32.625	9	32.625	7
32.675	37	32.675	6	32.675	8	32.675	13
32.725	25	32.725	18	32.725	6	32.725	6
32.775	29	32.775	11	32.775	9	32.775	13
32.825	30	32.825	6	32.825	5	32.825	10
32.875	36	32.875	14	32.875	4	32.875	10
32.925	39	32.925	12	32.925	10	32.925	13
32.975	36	32.975	6	32.975	10	32.975	15
33.025	49	33.025	8	33.025	8	33.025	19
33.075	26	33.075	13	33.075	14	33.075	21
33.125	43	33.125	13	33.125	9	33.125	28
33.175	32	33.175	11	33.175	9	33.175	18
33.225	31	33.225	6	33.225	9	33.225	13
33.275	27	33.275	13	33.275	7	33.275	11
33.325	37	33.325	7	33.325	6	33.325	11
33.375	31	33.375	11	33.375	10	33.375	14
33.425	34	33.425	10	33.425	5	33.425	13
33.475	38	33.475	13	33.475	10	33.475	27
33.525	29	33.525	16	33.525	10	33.525	48
33.575	31	33.575	9	33.575	6	33.575	73
33.625	29	33.625	11	33.625	10	33.625	70
33.675	33	33.675	11	33.675	10	33.675	55
33.725	36	33.725	10	33.725	3	33.725	21
33.775	33	33.775	8	33.775	5	33.775	15
33.825	25	33.825	9	33.825	2	33.825	9
33.875	31	33.875	11	33.875	5	33.875	13
33.925	32	33.925	9	33.925	6	33.925	9
33.975	32	33.975	14	33.975	8	33.975	7

34.025	35	34.025	9	34.025	10	34.025	12
34.075	31	34.075	15	34.075	7	34.075	11
34.125	41	34.125	8	34.125	8	34.125	6
34.175	33	34.175	12	34.175	8	34.175	16
34.225	32	34.225	10	34.225	13	34.225	12
34.275	32	34.275	7	34.275	15	34.275	7
34.325	38	34.325	14	34.325	7	34.325	10
34.375	39	34.375	11	34.375	6	34.375	19
34.425	38	34.425	8	34.425	10	34.425	20
34.475	35	34.475	10	34.475	8	34.475	19
34.525	46	34.525	6	34.525	10	34.525	15
34.575	42	34.575	11	34.575	8	34.575	28
34.625	35	34.625	7	34.625	12	34.625	15
34.675	56	34.675	8	34.675	9	34.675	26
34.725	46	34.725	16	34.725	9	34.725	22
34.775	30	34.775	12	34.775	10	34.775	34
34.825	54	34.825	14	34.825	10	34.825	26
34.875	40	34.875	12	34.875	10	34.875	32
34.925	48	34.925	11	34.925	12	34.925	31
34.975	61	34.975	9	34.975	9	34.975	17
35.025	44	35.025	10	35.025	7	35.025	29
35.075	52	35.075	10	35.075	8	35.075	22
35.125	41	35.125	6	35.125	10	35.125	14
35.175	37	35.175	16	35.175	9	35.175	29
35.225	40	35.225	16	35.225	8	35.225	18
35.275	39	35.275	12	35.275	10	35.275	46
35.325	37	35.325	10	35.325	9	35.325	64
35.375	49	35.375	9	35.375	11	35.375	70
35.425	40	35.425	11	35.425	11	35.425	47
35.475	27	35.475	14	35.475	8	35.475	42
35.525	37	35.525	16	35.525	10	35.525	26
35.575	30	35.575	9	35.575	7	35.575	14
35.625	33	35.625	26	35.625	9	35.625	17
35.675	34	35.675	20	35.675	5	35.675	9
35.725	32	35.725	38	35.725	10	35.725	13
35.775	34	35.775	43	35.775	17	35.775	7
35.825	35	35.825	76	35.825	13	35.825	12
35.875	26	35.875	120	35.875	21	35.875	16
35.925	45	35.925	157	35.925	20	35.925	18
35.975	23	35.975	124	35.975	45	35.975	41
36.025	30	36.025	93	36.025	117	36.025	47

36.075	40	36.075	48	36.075	205	36.075	66
36.125	28	36.125	17	36.125	226	36.125	51
36.175	30	36.175	25	36.175	141	36.175	34
36.225	38	36.225	15	36.225	72	36.225	22
36.275	33	36.275	5	36.275	31	36.275	13
36.325	36	36.325	8	36.325	18	36.325	11
36.375	42	36.375	11	36.375	14	36.375	7
36.425	56	36.425	17	36.425	8	36.425	16
36.475	55	36.475	6	36.475	17	36.475	13
36.525	78	36.525	10	36.525	8	36.525	14
36.575	74	36.575	10	36.575	13	36.575	25
36.625	57	36.625	7	36.625	9	36.625	35
36.675	43	36.675	11	36.675	8	36.675	36
36.725	31	36.725	9	36.725	11	36.725	26
36.775	33	36.775	13	36.775	12	36.775	10
36.825	30	36.825	18	36.825	9	36.825	7
36.875	40	36.875	10	36.875	9	36.875	12
36.925	44	36.925	11	36.925	5	36.925	15
36.975	26	36.975	3	36.975	9	36.975	13
37.025	33	37.025	6	37.025	11	37.025	12
37.075	27	37.075	5	37.075	8	37.075	20
37.125	28	37.125	10	37.125	7	37.125	29
37.175	24	37.175	9	37.175	6	37.175	26
37.225	19	37.225	8	37.225	12	37.225	20
37.275	41	37.275	6	37.275	10	37.275	23
37.325	36	37.325	8	37.325	15	37.325	49
37.375	24	37.375	6	37.375	8	37.375	80
37.425	27	37.425	7	37.425	9	37.425	93
37.475	24	37.475	7	37.475	8	37.475	61
37.525	29	37.525	5	37.525	8	37.525	54
37.575	32	37.575	9	37.575	10	37.575	31
37.625	35	37.625	6	37.625	8	37.625	24
37.675	32	37.675	8	37.675	7	37.675	13
37.725	44	37.725	8	37.725	5	37.725	16
37.775	39	37.775	6	37.775	9	37.775	15
37.825	33	37.825	11	37.825	10	37.825	17
37.875	33	37.875	9	37.875	10	37.875	17
37.925	18	37.925	10	37.925	12	37.925	13
37.975	26	37.975	10	37.975	8	37.975	10
38.025	32	38.025	12	38.025	7	38.025	11
38.075	19	38.075	10	38.075	2	38.075	8

38.125	27	38.125	6	38.125	1	38.125	10
38.175	32	38.175	9	38.175	8	38.175	11
38.225	27	38.225	10	38.225	9	38.225	8
38.275	21	38.275	12	38.275	10	38.275	8
38.325	37	38.325	18	38.325	6	38.325	6
38.375	49	38.375	40	38.375	4	38.375	16
38.425	48	38.425	24	38.425	13	38.425	12
38.475	48	38.475	21	38.475	13	38.475	8
38.525	44	38.525	27	38.525	9	38.525	15
38.575	22	38.575	15	38.575	8	38.575	14
38.625	45	38.625	11	38.625	11	38.625	14
38.675	28	38.675	12	38.675	6	38.675	7
38.725	38	38.725	14	38.725	4	38.725	3
38.775	16	38.775	9	38.775	8	38.775	10
38.825	30	38.825	13	38.825	8	38.825	5
38.875	18	38.875	18	38.875	4	38.875	9
38.925	25	38.925	10	38.925	10	38.925	7
38.975	25	38.975	14	38.975	10	38.975	4
39.025	26	39.025	24	39.025	8	39.025	8
39.075	19	39.075	31	39.075	13	39.075	8
39.125	28	39.125	34	39.125	5	39.125	9
39.175	23	39.175	57	39.175	14	39.175	6
39.225	35	39.225	62	39.225	13	39.225	11
39.275	28	39.275	112	39.275	22	39.275	15
39.325	42	39.325	161	39.325	28	39.325	19
39.375	55	39.375	213	39.375	22	39.375	32
39.425	56	39.425	183	39.425	62	39.425	54
39.475	54	39.475	156	39.475	159	39.475	100
39.525	38	39.525	93	39.525	315	39.525	92
39.575	39	39.575	38	39.575	339	39.575	84
39.625	34	39.625	21	39.625	213	39.625	61
39.675	27	39.675	13	39.675	178	39.675	27
39.725	19	39.725	9	39.725	43	39.725	19
39.775	22	39.775	13	39.775	26	39.775	10
39.825	27	39.825	12	39.825	11	39.825	13
39.875	25	39.875	7	39.875	10	39.875	10
39.925	24	39.925	10	39.925	12	39.925	9
39.975	27	39.975	9	39.975	12	39.975	7
40.025	33	40.025	10	40.025	11	40.025	8
40.075	27	40.075	11	40.075	14	40.075	15
40.125	34	40.125	11	40.125	7	40.125	10

40.175	46	40.175	6	40.175	9	40.175	2
40.225	39	40.225	8	40.225	6	40.225	13
40.275	44	40.275	9	40.275	12	40.275	13
40.325	37	40.325	12	40.325	5	40.325	19
40.375	30	40.375	10	40.375	4	40.375	20
40.425	26	40.425	13	40.425	6	40.425	11
40.475	25	40.475	10	40.475	17	40.475	14
40.525	25	40.525	4	40.525	6	40.525	13
40.575	23	40.575	10	40.575	11	40.575	10
40.625	22	40.625	10	40.625	12	40.625	6
40.675	33	40.675	10	40.675	13	40.675	7
40.725	23	40.725	6	40.725	8	40.725	22
40.775	22	40.775	8	40.775	5	40.775	20
40.825	22	40.825	5	40.825	10	40.825	20
40.875	25	40.875	18	40.875	5	40.875	18
40.925	22	40.925	11	40.925	12	40.925	27
40.975	24	40.975	9	40.975	8	40.975	23
41.025	22	41.025	6	41.025	6	41.025	44
41.075	25	41.075	17	41.075	11	41.075	82
41.125	26	41.125	5	41.125	9	41.125	158
41.175	23	41.175	4	41.175	16	41.175	257
41.225	31	41.225	8	41.225	12	41.225	210
41.275	24	41.275	10	41.275	7	41.275	167
41.325	16	41.325	11	41.325	6	41.325	115
41.375	34	41.375	4	41.375	6	41.375	55
41.425	22	41.425	13	41.425	8	41.425	22
41.475	24	41.475	8	41.475	6	41.475	22
41.525	35	41.525	8	41.525	7	41.525	19
41.575	22	41.575	14	41.575	5	41.575	12
41.625	35	41.625	10	41.625	3	41.625	14
41.675	30	41.675	11	41.675	5	41.675	10
41.725	30	41.725	11	41.725	9	41.725	10
41.775	36	41.775	14	41.775	9	41.775	16
41.825	39	41.825	7	41.825	9	41.825	9
41.875	30	41.875	12	41.875	12	41.875	11
41.925	24	41.925	6	41.925	4	41.925	11
41.975	15	41.975	4	41.975	4	41.975	12
42.025	27	42.025	8	42.025	10	42.025	17
42.075	29	42.075	7	42.075	9	42.075	10
42.125	18	42.125	7	42.125	4	42.125	13
42.175	33	42.175	16	42.175	8	42.175	8

42.225	25	42.225	11	42.225	10	42.225	9
42.275	34	42.275	8	42.275	7	42.275	11
42.325	38	42.325	13	42.325	8	42.325	8
42.375	58	42.375	9	42.375	8	42.375	10
42.425	65	42.425	14	42.425	7	42.425	16
42.475	63	42.475	12	42.475	10	42.475	28
42.525	63	42.525	8	42.525	17	42.525	40
42.575	46	42.575	10	42.575	7	42.575	17
42.625	35	42.625	14	42.625	8	42.625	25
42.675	28	42.675	19	42.675	10	42.675	17
42.725	28	42.725	19	42.725	8	42.725	15
42.775	23	42.775	27	42.775	12	42.775	10
42.825	28	42.825	28	42.825	10	42.825	13
42.875	20	42.875	30	42.875	14	42.875	8
42.925	25	42.925	32	42.925	10	42.925	19
42.975	26	42.975	68	42.975	13	42.975	14
43.025	31	43.025	93	43.025	14	43.025	15
43.075	31	43.075	128	43.075	16	43.075	14
43.125	24	43.125	180	43.125	27	43.125	18
43.175	27	43.175	175	43.175	47	43.175	35
43.225	20	43.225	112	43.225	132	43.225	76
43.275	17	43.275	70	43.275	257	43.275	71
43.325	15	43.325	47	43.325	322	43.325	54
43.375	17	43.375	21	43.375	168	43.375	39
43.425	30	43.425	8	43.425	147	43.425	22
43.475	28	43.475	8	43.475	80	43.475	17
43.525	22	43.525	9	43.525	24	43.525	15
43.575	25	43.575	8	43.575	12	43.575	9
43.625	22	43.625	9	43.625	15	43.625	14
43.675	17	43.675	16	43.675	17	43.675	17
43.725	29	43.725	12	43.725	12	43.725	15
43.775	22	43.775	11	43.775	7	43.775	42
43.825	21	43.825	9	43.825	5	43.825	40
43.875	30	43.875	12	43.875	15	43.875	38
43.925	24	43.925	8	43.925	10	43.925	31
43.975	27	43.975	10	43.975	4	43.975	26
44.025	23	44.025	11	44.025	6	44.025	16
44.075	29	44.075	13	44.075	7	44.075	12
44.125	20	44.125	9	44.125	8	44.125	14
44.175	27	44.175	10	44.175	15	44.175	15
44.225	28	44.225	9	44.225	8	44.225	10

44.275	21	44.275	10	44.275	13	44.275	8
44.325	26	44.325	9	44.325	8	44.325	7
44.375	28	44.375	9	44.375	10	44.375	4
44.425	21	44.425	18	44.425	5	44.425	8
44.475	36	44.475	33	44.475	4	44.475	7
44.525	37	44.525	36	44.525	11	44.525	14
44.575	64	44.575	61	44.575	6	44.575	12
44.625	79	44.625	81	44.625	7	44.625	14
44.675	77	44.675	70	44.675	10	44.675	6
44.725	85	44.725	53	44.725	10	44.725	15
44.775	48	44.775	43	44.775	9	44.775	21
44.825	44	44.825	22	44.825	6	44.825	14
44.875	35	44.875	10	44.875	16	44.875	40
44.925	37	44.925	10	44.925	7	44.925	91
44.975	22	44.975	10	44.975	7	44.975	139
45.025	21	45.025	10	45.025	8	45.025	113
45.075	28	45.075	14	45.075	5	45.075	89
45.125	25	45.125	7	45.125	7	45.125	77
45.175	25	45.175	11	45.175	9	45.175	30
45.225	29	45.225	12	45.225	12	45.225	23
45.275	30	45.275	10	45.275	9	45.275	18
45.325	29	45.325	15	45.325	6	45.325	17
45.375	31	45.375	12	45.375	8	45.375	14
45.425	36	45.425	7	45.425	12	45.425	15
45.475	28	45.475	6	45.475	7	45.475	19
45.525	37	45.525	7	45.525	15	45.525	23
45.575	35	45.575	7	45.575	11	45.575	15
45.625	37	45.625	10	45.625	9	45.625	18
45.675	39	45.675	8	45.675	11	45.675	15
45.725	38	45.725	13	45.725	7	45.725	14
45.775	50	45.775	9	45.775	7	45.775	14
45.825	36	45.825	10	45.825	10	45.825	22
45.875	31	45.875	9	45.875	13	45.875	27
45.925	30	45.925	8	45.925	11	45.925	16
45.975	25	45.975	10	45.975	9	45.975	16
46.025	25	46.025	9	46.025	8	46.025	21
46.075	22	46.075	8	46.075	12	46.075	14
46.125	26	46.125	9	46.125	10	46.125	11
46.175	21	46.175	10	46.175	13	46.175	3
46.225	18	46.225	17	46.225	13	46.225	12
46.275	21	46.275	11	46.275	4	46.275	11

46.325	22	46.325	8	46.325	8	46.325	8
46.375	18	46.375	15	46.375	11	46.375	8
46.425	28	46.425	7	46.425	10	46.425	6
46.475	19	46.475	9	46.475	8	46.475	8
46.525	20	46.525	7	46.525	9	46.525	5
46.575	21	46.575	16	46.575	7	46.575	7
46.625	20	46.625	23	46.625	9	46.625	5
46.675	25	46.675	18	46.675	8	46.675	9
46.725	26	46.725	22	46.725	8	46.725	4
46.775	30	46.775	17	46.775	6	46.775	6
46.825	21	46.825	17	46.825	8	46.825	4
46.875	28	46.875	27	46.875	9	46.875	15
46.925	24	46.925	27	46.925	15	46.925	5
46.975	26	46.975	63	46.975	15	46.975	11
47.025	30	47.025	85	47.025	14	47.025	13
47.075	24	47.075	89	47.075	16	47.075	17
47.125	25	47.125	93	47.125	21	47.125	16
47.175	24	47.175	86	47.175	44	47.175	36
47.225	20	47.225	67	47.225	82	47.225	40
47.275	19	47.275	70	47.275	111	47.275	34
47.325	14	47.325	65	47.325	84	47.325	25
47.375	16	47.375	104	47.375	76	47.375	19
47.425	22	47.425	152	47.425	58	47.425	30
47.475	17	47.475	167	47.475	44	47.475	33
47.525	17	47.525	187	47.525	60	47.525	56
47.575	23	47.575	144	47.575	93	47.575	66
47.625	15	47.625	124	47.625	206	47.625	102
47.675	19	47.675	69	47.675	242	47.675	70
47.725	24	47.725	30	47.725	197	47.725	68
47.775	18	47.775	18	47.775	135	47.775	43
47.825	24	47.825	18	47.825	94	47.825	31
47.875	18	47.875	7	47.875	53	47.875	15
47.925	23	47.925	24	47.925	24	47.925	10
47.975	27	47.975	14	47.975	19	47.975	12
48.025	22	48.025	23	48.025	9	48.025	7
48.075	23	48.075	34	48.075	16	48.075	10
48.125	25	48.125	23	48.125	11	48.125	9
48.175	21	48.175	32	48.175	12	48.175	14
48.225	24	48.225	37	48.225	18	48.225	6
48.275	31	48.275	42	48.275	19	48.275	9
48.325	22	48.325	65	48.325	12	48.325	14

48.375	23	48.375	90	48.375	17	48.375	15
48.425	19	48.425	154	48.425	15	48.425	21
48.475	17	48.475	210	48.475	35	48.475	31
48.525	11	48.525	208	48.525	53	48.525	48
48.575	14	48.575	158	48.575	95	48.575	73
48.625	22	48.625	130	48.625	228	48.625	92
48.675	13	48.675	86	48.675	273	48.675	43
48.725	19	48.725	52	48.725	206	48.725	68
48.775	18	48.775	21	48.775	190	48.775	38
48.825	21	48.825	16	48.825	112	48.825	29
48.875	16	48.875	9	48.875	64	48.875	18
48.925	22	48.925	11	48.925	24	48.925	18
48.975	14	48.975	15	48.975	12	48.975	9
49.025	22	49.025	4	49.025	12	49.025	11
49.075	21	49.075	7	49.075	16	49.075	15
49.125	20	49.125	13	49.125	8	49.125	6
49.175	18	49.175	11	49.175	10	49.175	26
49.225	27	49.225	10	49.225	10	49.225	22
49.275	22	49.275	16	49.275	14	49.275	24
49.325	19	49.325	5	49.325	6	49.325	37
49.375	17	49.375	9	49.375	9	49.375	27
49.425	19	49.425	9	49.425	11	49.425	23
49.475	24	49.475	7	49.475	8	49.475	20
49.525	21	49.525	7	49.525	9	49.525	11
49.575	28	49.575	9	49.575	6	49.575	13
49.625	26	49.625	8	49.625	2	49.625	7
49.675	23	49.675	11	49.675	6	49.675	11
49.725	29	49.725	9	49.725	10	49.725	5
49.775	17	49.775	4	49.775	12	49.775	10
49.825	19	49.825	8	49.825	9	49.825	5
49.875	21	49.875	13	49.875	4	49.875	3
49.925	34	49.925	10	49.925	6	49.925	10
49.975	34	49.975	5	49.975	4	49.975	13
50.025	63	50.025	10	50.025	8	50.025	11
50.075	83	50.075	8	50.075	5	50.075	14
50.125	95	50.125	6	50.125	4	50.125	22
50.175	66	50.175	7	50.175	18	50.175	55
50.225	60	50.225	10	50.225	10	50.225	55
50.275	42	50.275	7	50.275	13	50.275	38
50.325	32	50.325	6	50.325	8	50.325	34
50.375	26	50.375	7	50.375	7	50.375	41

50.425	20	50.425	10	50.425	9	50.425	52
50.475	28	50.475	10	50.475	6	50.475	70
50.525	16	50.525	12	50.525	2	50.525	103
50.575	34	50.575	7	50.575	11	50.575	161
50.625	22	50.625	10	50.625	6	50.625	137
50.675	29	50.675	8	50.675	9	50.675	112
50.725	31	50.725	10	50.725	8	50.725	94
50.775	26	50.775	9	50.775	4	50.775	83
50.825	22	50.825	13	50.825	10	50.825	59
50.875	18	50.875	4	50.875	11	50.875	48
50.925	27	50.925	5	50.925	4	50.925	51
50.975	18	50.975	10	50.975	5	50.975	49
51.025	18	51.025	10	51.025	3	51.025	90
51.075	20	51.075	7	51.075	8	51.075	140
51.125	32	51.125	8	51.125	9	51.125	182
51.175	17	51.175	9	51.175	10	51.175	132
51.225	29	51.225	5	51.225	7	51.225	115
51.275	25	51.275	11	51.275	9	51.275	108
51.325	13	51.325	11	51.325	6	51.325	73
51.375	20	51.375	9	51.375	7	51.375	41
51.425	14	51.425	10	51.425	7	51.425	37
51.475	20	51.475	6	51.475	2	51.475	21
51.525	15	51.525	7	51.525	6	51.525	16
51.575	16	51.575	8	51.575	7	51.575	17
51.625	14	51.625	13	51.625	5	51.625	13
51.675	25	51.675	7	51.675	8	51.675	13
51.725	18	51.725	4	51.725	6	51.725	9
51.775	20	51.775	8	51.775	5	51.775	7
51.825	14	51.825	10	51.825	3	51.825	11
51.875	19	51.875	5	51.875	4	51.875	8
51.925	22	51.925	6	51.925	3	51.925	6
51.975	14	51.975	4	51.975	4	51.975	8
52.025	24	52.025	8	52.025	7	52.025	6
52.075	18	52.075	7	52.075	6	52.075	5
52.125	17	52.125	7	52.125	7	52.125	8
52.175	20	52.175	6	52.175	2	52.175	0
52.225	17	52.225	12	52.225	2	52.225	6
52.275	25	52.275	7	52.275	6	52.275	7
52.325	15	52.325	7	52.325	5	52.325	7
52.375	16	52.375	4	52.375	5	52.375	4
52.425	22	52.425	6	52.425	2	52.425	6

52.475	15	52.475	5	52.475	3	52.475	6
52.525	18	52.525	4	52.525	5	52.525	9
52.575	15	52.575	7	52.575	7	52.575	4
52.625	20	52.625	6	52.625	8	52.625	7
52.675	13	52.675	11	52.675	12	52.675	1
52.725	16	52.725	7	52.725	4	52.725	6
52.775	18	52.775	8	52.775	7	52.775	7
52.825	15	52.825	11	52.825	5	52.825	5
52.875	17	52.875	6	52.875	4	52.875	1
52.925	19	52.925	4	52.925	5	52.925	5
52.975	14	52.975	4	52.975	4	52.975	2
53.025	14	53.025	5	53.025	6	53.025	2
53.075	19	53.075	7	53.075	4	53.075	8
53.125	15	53.125	8	53.125	6	53.125	6
53.175	29	53.175	7	53.175	3	53.175	5
53.225	23	53.225	4	53.225	7	53.225	10
53.275	13	53.275	7	53.275	4	53.275	7
53.325	22	53.325	8	53.325	6	53.325	5
53.375	20	53.375	6	53.375	9	53.375	4
53.425	16	53.425	8	53.425	5	53.425	5
53.475	21	53.475	9	53.475	1	53.475	12
53.525	26	53.525	5	53.525	2	53.525	3
53.575	26	53.575	4	53.575	9	53.575	9
53.625	19	53.625	7	53.625	1	53.625	5
53.675	25	53.675	9	53.675	4	53.675	4
53.725	30	53.725	11	53.725	3	53.725	4
53.775	26	53.775	3	53.775	2	53.775	3
53.825	22	53.825	5	53.825	8	53.825	5
53.875	17	53.875	6	53.875	11	53.875	5
53.925	26	53.925	10	53.925	7	53.925	13
53.975	18	53.975	5	53.975	7	53.975	7
54.025	25	54.025	2	54.025	4	54.025	3
54.075	23	54.075	5	54.075	4	54.075	2
54.125	23	54.125	15	54.125	4	54.125	9
54.175	23	54.175	5	54.175	5	54.175	7
54.225	23	54.225	10	54.225	4	54.225	6
54.275	14	54.275	6	54.275	8	54.275	8
54.325	17	54.325	6	54.325	8	54.325	12
54.375	19	54.375	3	54.375	8	54.375	11
54.425	18	54.425	10	54.425	7	54.425	4
54.475	17	54.475	8	54.475	3	54.475	7

54.525	29	54.525	4	54.525	6	54.525	9
54.575	26	54.575	9	54.575	3	54.575	10
54.625	23	54.625	7	54.625	9	54.625	5
54.675	27	54.675	11	54.675	5	54.675	9
54.725	25	54.725	4	54.725	2	54.725	8
54.775	38	54.775	8	54.775	5	54.775	11
54.825	50	54.825	6	54.825	7	54.825	9
54.875	39	54.875	6	54.875	6	54.875	7
54.925	40	54.925	8	54.925	15	54.925	22
54.975	30	54.975	8	54.975	10	54.975	19
55.025	29	55.025	15	55.025	10	55.025	18
55.075	21	55.075	8	55.075	3	55.075	11
55.125	25	55.125	9	55.125	12	55.125	6
55.175	27	55.175	5	55.175	8	55.175	10
55.225	33	55.225	8	55.225	5	55.225	7
55.275	30	55.275	9	55.275	3	55.275	12
55.325	35	55.325	4	55.325	6	55.325	17
55.375	20	55.375	7	55.375	12	55.375	16
55.425	32	55.425	11	55.425	7	55.425	12
55.475	18	55.475	11	55.475	6	55.475	10
55.525	25	55.525	5	55.525	4	55.525	17
55.575	26	55.575	8	55.575	5	55.575	7
55.625	18	55.625	9	55.625	4	55.625	10
55.675	21	55.675	15	55.675	8	55.675	6
55.725	27	55.725	7	55.725	4	55.725	13
55.775	28	55.775	10	55.775	9	55.775	7
55.825	27	55.825	4	55.825	7	55.825	5
55.875	23	55.875	8	55.875	7	55.875	7
55.925	22	55.925	7	55.925	6	55.925	11
55.975	22	55.975	9	55.975	10	55.975	4
56.025	18	56.025	11	56.025	3	56.025	10
56.075	12	56.075	6	56.075	9	56.075	7
56.125	22	56.125	12	56.125	4	56.125	10
56.175	18	56.175	17	56.175	2	56.175	14
56.225	23	56.225	15	56.225	2	56.225	16
56.275	21	56.275	25	56.275	2	56.275	18
56.325	16	56.325	15	56.325	5	56.325	10
56.375	19	56.375	25	56.375	9	56.375	12
56.425	14	56.425	30	56.425	5	56.425	16
56.475	22	56.475	37	56.475	5	56.475	17
56.525	27	56.525	47	56.525	6	56.525	9

56.575	23	56.575	51	56.575	10	56.575	12
56.625	15	56.625	50	56.625	24	56.625	23
56.675	16	56.675	26	56.675	33	56.675	22
56.725	20	56.725	22	56.725	52	56.725	17
56.775	18	56.775	26	56.775	48	56.775	17
56.825	24	56.825	16	56.825	32	56.825	18
56.875	14	56.875	16	56.875	27	56.875	14
56.925	19	56.925	14	56.925	23	56.925	7
56.975	18	56.975	22	56.975	18	56.975	7
57.025	14	57.025	19	57.025	11	57.025	9
57.075	24	57.075	25	57.075	10	57.075	7
57.125	21	57.125	38	57.125	8	57.125	9
57.175	24	57.175	44	57.175	8	57.175	4
57.225	19	57.225	36	57.225	3	57.225	10
57.275	14	57.275	72	57.275	10	57.275	10
57.325	12	57.325	86	57.325	12	57.325	15
57.375	33	57.375	119	57.375	20	57.375	19
57.425	11	57.425	115	57.425	25	57.425	23
57.475	15	57.475	96	57.475	53	57.475	32
57.525	16	57.525	64	57.525	121	57.525	37
57.575	14	57.575	58	57.575	189	57.575	26
57.625	17	57.625	46	57.625	105	57.625	27
57.675	17	57.675	26	57.675	82	57.675	24
57.725	26	57.725	14	57.725	102	57.725	24
57.775	15	57.775	9	57.775	48	57.775	10
57.825	30	57.825	6	57.825	31	57.825	12
57.875	21	57.875	13	57.875	14	57.875	11
57.925	41	57.925	11	57.925	8	57.925	10
57.975	19	57.975	12	57.975	6	57.975	9
58.025	18	58.025	12	58.025	4	58.025	10
58.075	15	58.075	21	58.075	8	58.075	6
58.125	20	58.125	18	58.125	2	58.125	5
58.175	12	58.175	15	58.175	11	58.175	7
58.225	11	58.225	15	58.225	15	58.225	6
58.275	13	58.275	14	58.275	13	58.275	13
58.325	20	58.325	11	58.325	14	58.325	7
58.375	35	58.375	7	58.375	15	58.375	5
58.425	22	58.425	10	58.425	12	58.425	7
58.475	24	58.475	9	58.475	6	58.475	8
58.525	27	58.525	6	58.525	9	58.525	8
58.575	14	58.575	7	58.575	8	58.575	9

58.625	30	58.625	9	58.625	6	58.625	10
58.675	27	58.675	12	58.675	3	58.675	6
58.725	18	58.725	9	58.725	2	58.725	14
58.775	17	58.775	6	58.775	7	58.775	12
58.825	23	58.825	8	58.825	4	58.825	23
58.875	23	58.875	3	58.875	5	58.875	23
58.925	21	58.925	11	58.925	6	58.925	21
58.975	21	58.975	14	58.975	5	58.975	34
59.025	20	59.025	7	59.025	7	59.025	19
59.075	21	59.075	8	59.075	5	59.075	23
59.125	27	59.125	7	59.125	6	59.125	17
59.175	17	59.175	9	59.175	7	59.175	14
59.225	20	59.225	8	59.225	6	59.225	13
59.275	24	59.275	5	59.275	5	59.275	9
59.325	31	59.325	10	59.325	6	59.325	6
59.375	18	59.375	11	59.375	3	59.375	14
59.425	26	59.425	7	59.425	4	59.425	11
59.475	36	59.475	11	59.475	7	59.475	6
59.525	15	59.525	8	59.525	5	59.525	11
59.575	22	59.575	6	59.575	4	59.575	10
59.625	29	59.625	3	59.625	2	59.625	14
59.675	29	59.675	5	59.675	6	59.675	18
59.725	26	59.725	7	59.725	6	59.725	18
59.775	35	59.775	8	59.775	6	59.775	35
59.825	37	59.825	12	59.825	7	59.825	57
59.875	60	59.875	12	59.875	9	59.875	77
59.925	57	59.925	9	59.925	11	59.925	63
59.975	60	59.975	6	59.975	14	59.975	48
60.025	45	60.025	7	60.025	9	60.025	64
60.075	42	60.075	6	60.075	5	60.075	49
60.125	40	60.125	4	60.125	7	60.125	25
60.175	33	60.175	11	60.175	9	60.175	30
60.225	24	60.225	13	60.225	9	60.225	23
60.275	23	60.275	13	60.275	7	60.275	12
60.325	32	60.325	17	60.325	4	60.325	11
60.375	21	60.375	17	60.375	9	60.375	14
60.425	18	60.425	27	60.425	9	60.425	11
60.475	16	60.475	24	60.475	4	60.475	9
60.525	16	60.525	21	60.525	6	60.525	6
60.575	24	60.575	40	60.575	13	60.575	7
60.625	20	60.625	50	60.625	12	60.625	9

60.675	27	60.675	63	60.675	16	60.675	19
60.725	21	60.725	65	60.725	23	60.725	29
60.775	21	60.775	47	60.775	39	60.775	23
60.825	22	60.825	47	60.825	75	60.825	24
60.875	26	60.875	40	60.875	78	60.875	20
60.925	19	60.925	44	60.925	41	60.925	24
60.975	28	60.975	37	60.975	55	60.975	17
61.025	17	61.025	41	61.025	50	61.025	24
61.075	18	61.075	30	61.075	32	61.075	17
61.125	18	61.125	20	61.125	27	61.125	13
61.175	16	61.175	22	61.175	32	61.175	15
61.225	24	61.225	30	61.225	32	61.225	10
61.275	25	61.275	34	61.275	20	61.275	15
61.325	27	61.325	35	61.325	25	61.325	21
61.375	33	61.375	29	61.375	19	61.375	8
61.425	23	61.425	27	61.425	14	61.425	14
61.475	28	61.475	30	61.475	22	61.475	16
61.525	26	61.525	24	61.525	40	61.525	15
61.575	22	61.575	15	61.575	25	61.575	13
61.625	30	61.625	16	61.625	27	61.625	19
61.675	27	61.675	7	61.675	13	61.675	15
61.725	31	61.725	9	61.725	26	61.725	21
61.775	22	61.775	10	61.775	18	61.775	18
61.825	30	61.825	10	61.825	17	61.825	15
61.875	26	61.875	11	61.875	7	61.875	16
61.925	15	61.925	10	61.925	9	61.925	18
61.975	33	61.975	7	61.975	8	61.975	7
62.025	24	62.025	6	62.025	6	62.025	16
62.075	29	62.075	5	62.075	4	62.075	25
62.125	28	62.125	9	62.125	5	62.125	15
62.175	19	62.175	10	62.175	3	62.175	11
62.225	24	62.225	6	62.225	12	62.225	9
62.275	19	62.275	3	62.275	4	62.275	12
62.325	27	62.325	12	62.325	6	62.325	1
62.375	22	62.375	11	62.375	4	62.375	12
62.425	25	62.425	7	62.425	5	62.425	9
62.475	22	62.475	5	62.475	5	62.475	8
62.525	23	62.525	8	62.525	7	62.525	3
62.575	17	62.575	8	62.575	6	62.575	9
62.625	17	62.625	14	62.625	2	62.625	8
62.675	24	62.675	9	62.675	4	62.675	10

62.725	28	62.725	12	62.725	2	62.725	10
62.775	19	62.775	10	62.775	8	62.775	7
62.825	23	62.825	9	62.825	3	62.825	11
62.875	25	62.875	15	62.875	3	62.875	9
62.925	25	62.925	20	62.925	4	62.925	2
62.975	22	62.975	24	62.975	8	62.975	8
63.025	20	63.025	16	63.025	5	63.025	6
63.075	17	63.075	27	63.075	13	63.075	11
63.125	15	63.125	27	63.125	15	63.125	12
63.175	17	63.175	24	63.175	19	63.175	10
63.225	17	63.225	21	63.225	35	63.225	14
63.275	28	63.275	16	63.275	22	63.275	13
63.325	18	63.325	5	63.325	18	63.325	18
63.375	17	63.375	10	63.375	14	63.375	29
63.425	27	63.425	10	63.425	19	63.425	38
63.475	29	63.475	4	63.475	18	63.475	42
63.525	17	63.525	12	63.525	11	63.525	34
63.575	19	63.575	9	63.575	6	63.575	34
63.625	26	63.625	6	63.625	6	63.625	18
63.675	25	63.675	9	63.675	4	63.675	21
63.725	21	63.725	6	63.725	5	63.725	20
63.775	19	63.775	8	63.775	7	63.775	13
63.825	32	63.825	11	63.825	5	63.825	5
63.875	30	63.875	7	63.875	7	63.875	10
63.925	36	63.925	6	63.925	5	63.925	11
63.975	27	63.975	9	63.975	7	63.975	8
64.025	30	64.025	3	64.025	3	64.025	8
64.075	24	64.075	13	64.075	7	64.075	11
64.125	26	64.125	7	64.125	6	64.125	17
64.175	26	64.175	14	64.175	1	64.175	8
64.225	23	64.225	17	64.225	5	64.225	13
64.275	17	64.275	14	64.275	7	64.275	14
64.325	25	64.325	13	64.325	4	64.325	8
64.375	18	64.375	23	64.375	9	64.375	13
64.425	14	64.425	30	64.425	2	64.425	8
64.475	26	64.475	21	64.475	4	64.475	24
64.525	25	64.525	26	64.525	4	64.525	23
64.575	18	64.575	42	64.575	9	64.575	36
64.625	28	64.625	60	64.625	11	64.625	19
64.675	20	64.675	70	64.675	18	64.675	24
64.725	25	64.725	69	64.725	20	64.725	45

64.775	26	64.775	67	64.775	50	64.775	40
64.825	27	64.825	42	64.825	99	64.825	29
64.875	20	64.875	40	64.875	92	64.875	30
64.925	24	64.925	27	64.925	52	64.925	25
64.975	33	64.975	32	64.975	45	64.975	17

Table 8 – Pb-210 and Cs-137 data

Depth (cm)	Unsupported Pb-210 (Bq/g)	Error (1s)	Cs- 137 (Bq/g)	Error (1s)	Cum. Wt. Flux (g/cm²)	Age (BP)	Date (CE)	Error (1s)
0.25	0.395	0.115	0	0	0	5.91	2010.1	3.62
1.25	0.4894	0.139	0	0	0.165	10.73	2005.3	3.98
2.25	0.563	0.139	0.014	0.013	0.271	19.22	1996.8	4.68
3.25	0.417	0.103	0.014	0.008	0.406	30.08	1985.9	6.02
4.25	0.4935	0.123	0.042	0.014	0.510	44.91	1971.1	8.86
5.25	0.4059	0.1230	0.163	0.028	0.598	61.60	1954.4	14.22
6.25	0.311	0.0921	0.108	0.018	0.689	86.49	1929.5	30.19
7.25	0.2	0.0682	0.000	0.000	0.809	-	-	-
8.25	0	0.000	0.0000	0.0000	0.953	191.82	1824.2	772.48
9.25	0.0474	0.0384	0.0000	0.0000	1.094	-	-	-
10.25	0	0.0000	0.0000	0.0000	1.244	-	-	-
11.25	0	0.0000	0.0000	0.0000	1.344	-	-	-
12.25	0	0.0000	0.0000	0.0000	1.464	-	-	-