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**This document has been checked for information on Native American burials. No images considered to be culturally insensitive, including images and drawings of burials, Ancestors, funerary objects, and other NAGPRA material were found.**

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**MAPPING THE NEISLER MOUND,  
9TR1**

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# **Mapping the Neisler Mound, 9TR1**

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In the late fall of 2016 I contacted Dr. John Worth, now a professor at the University of West Florida, about his 1986-1988 Master's Degree archaeology project at the University of Georgia Department of Anthropology (Worth 1988). This had been a survey and minimal testing of several archaeological sites in the upper Flint River basin of west-central Georgia. John graciously returned his original field notes for permanent curation at the UGA Laboratory of Archaeology in Athens, where the artifacts from his project have been curated since his project was completed almost 35 years ago. Included in his notes was a series of elevation point data taken by him and several volunteers at the Neisler Mound site (9TR1) in May of 1988, just before his thesis was completed and signed on June 6 of that year.

The Neisler mound is located on western bank of the Flint River in Taylor County, Georgia. These mapping data were collected by Worth and his colleagues, but a contour map was never created from their data, unfortunately, and therefore one was not included in his thesis (Worth 1988). I vaguely remember urging John to map the site back then, but I never knew that he had actually collected the data to create such a map. With the benefit of computer technology, it is now much easier to create contour maps from such elevation data, and I have proceeded to do so for this short paper. The data were gathered in five work days between May 13 and May 22 of 1988. For purposes of documentation, the field work, as best I can determine from the field notes, can be summarized in the following Table 1.

Date	General Location	Dataset	Points	Crew
May 13	East of Mound	1	1-228	John Worth, David Hally
May 15	East of Mound	1	229-361	John Worth, Maxwell Duke
May 20	Mound Summit	2	1-154	John Worth, Maxwell Duke, Rick Hill, Bob Cramer
May 21	Mound Summit	2	155-286	John Worth, Maxwell Duke, Maxwell Duke, Jr, Frances Carter, Bob Hartig
May 22	Mound Summit	2	287-393	John Worth, John Whatley
May 22	East of Mound	3	1-43	John Worth, John Whatley
May 22	Southeast of Mound	4	1-199	Maxwell Duke, Bob Evans
May 22	Southwest of Mound	5	1-64	John Worth, John Whatley

**Table 1. Work Crews by Work Days.**

The total number of elevation points taken was 1001. All readings were in meters.

Although these are organized into five datasets as shown in the table above, there were actually only four transit locations used for the project—Datasets 1 and 3 were made from the same location. It should be noted also that all measurements were made using a traditional optical transit and stadia rod, rather than the now universal electronic Total Station. The archaeology program at UGA did not receive its first Total Station until 1996.

The notes were a bit cryptic (not unusual), but I was eventually possible to tie all five separate datasets together. All the data were first entered into five separate Excel files. Modern mapping programs require the data include X, Y, and Z values, and assume that the data represent known locations within a Cartesian coordinate system. The limited nature of Worth's work at the site led him to forgo the implementation of a formal grid over the site. Instead he opted for a commonly used stratagem from the pre-Total Station period—he recorded elevations at fixed intervals along multiple lines of sight set at specific angles away from the fixed transit location. Traditionally these data then would be replicated in small scale on a large piece of paper, the values labeled in tiny script on the map, and contours would be hand drawn on the paper maps. This tedious and laborious method worked to create contour maps, but has been

completely pushed into the technological past by computer programs such as *Surfer* and *ArcGIS*. There remained two problems, however. First, an artificial grid still needed to be imposed on the data set to use modern mapping software. For this map, I have arbitrarily designated the transit point near the base of the mound on its northeastern side as 200 North, 200 East so that all points made were well above the arbitrary 0 North, 0 East point somewhere well southwest of the mound. The second problem was that of converting the angles and distances of all the elevation points into actual North and East locations within this newly imposed grid. This is where trigonometry solved the problem. In Excel, formulas using trigonometric functions permitted conversion all the points to known X Y coordinates. After conversion and consolidation, a single file with 1001 points in an X, Y, Z system was created. These data were then brought into the computer program *Surfer* by Golden Software of Golden, Colorado (Version 13) to create the maps presented below. All of these data are presented in the Appendix to this brief report for others to examine and use if they wish.

Figure 1 below shows the location of all 1001 elevation data points within the new grid. In Figure 1, the transit locations are marked by the large dots, and numbered to match the locations referenced in the data table above. The large spider web looking area in the center (Dataset 2) represents the location of the measurements taken from the top of the Neisler mound. As can be seen immediately, there was very limited survey coverage of the areas away from the mound except on its eastern side. There are essentially no points in the village area north, west, and south of the mound, although a few points were made to southwest of the mound.

Figure 2 shows a contour map of derived from the elevation data using 10 centimeter contour intervals in *Surfer*, along with the locations of elevations from Figure 1 overlaid on the map. I have had the Surfer program blank out areas well away from any data, and perhaps in

some areas a further narrowing of the map might be in order. Obviously, a new data set for the village will eventually need to be gathered. Perhaps the ideal solution will be when aerial based LiDAR data becomes available for this area.

Figure 3 shows the same 10 centimeter contour map with the elevation points removed from the map, while Figure 4 shows the data mapped with a color overlay that helps the observer see the higher and lower areas of the mapped area more easily. There obviously are three high areas to the east / northeast of the large mound. Worth interpreted these as parts of a natural river levee in this area on the western side of the Flint River. I would like to offer the possibility that these might be three badly eroded low mounds associated with the site. Only additional archaeological field work can determine if this is a valid observation. Figure 4 also shows a very low area just southwest of the mound. This might have been a borrow pit for the earth used to create the large mound. In my experience most mound sites in Georgia, however, do not have their borrow pits located so close to the mound. We do not yet know the full extent or shape of the aboriginal village surrounding the Neisler mound.

With respect to the large mound itself, Figure 2 shows a slight mound shape aberration based upon the software and the data point locations. In looking carefully at the shape of the mound, particularly on the northwestern edge, its outer edge seems to billow out at the base of the mound between the radiating lines of elevation points. Clearly this billowing is not an accurate representation of the mound base shape, but a function of the software's interpolation routines.

Figure 5 is a close-in map of just the large mound, with the contour interval halved to 5 centimeters. I wish here to discuss the shape of the mound summit. Clearly there is a large looter's pothole in the center part of the northwestern part of the summit. To the northeast of this

pothole, however, there is a trench running to edge of the mound summit. I believe this eroded trench is the remains of a trench excavated in the late 1920s by Margaret Ashley. The late Frank Schnell, Jr. published an important paper on her 1926-1928 work in Georgia, including her October 1928 work at the Neisler site (Schnell 1999:32-33). Included in his paper is a photograph of the summit excavations that shows this long trench on the western part of the summit (his Figure 2.4), and two smaller trenches running to the east, along with a number of round holes. From the topographic map presented here it would appear that some of Ashley's trenches were backfilled, but others left open. There are apparent linear backdirt piles visible in the Figure 5 topographic map immediately northwest and southeast of the Ashley trench. Likely the deep pothole shown on Figure 5 was dug by unknown parties since the Ashley trench was excavated.

Regardless of the trench(s) and the pothole(s), there is an interesting and clear pattern visible on the mound summit that likely is related to the final use of the mound by the prehistoric native inhabitants. It is clear that the northwestern 2/3 of the summit is higher than the southeastern part. The overall shape of the mound summit is generally round, but the lower summit platform area to the southeast of the summit gives the mound a very slight hint of rectangularity in the northwest-southeast direction. The higher northwestern part of the summit, however, seems, in spite of the trenching and looting, to show a raised rim or doughnut shape, with center being lower than the summit perimeter. This pattern is also identical to that of Mound A at the Lamar site (9BI2) as described in my report of mapping and test excavations at that site in 1996 (Williams 1999:13, 17-18). In that report I suggested that the round doughnut form on the summit of Mound A represented a collapsed earthlodge, and I believe that this is quite likely also the origin of the feature on the northwestern summit of the Neisler mound. In

both cases, the structure is on the northwestern part of the summit and a narrow, lower summit platform is present to the southeast. In short, I believe the structure of the summits of both mounds was identical.

In conclusion, I am delighted to present this initial map of the Neisler mound site, a long ignored Georgia Mississippian mound and village site. The site needs to have additional testing to determine the size and shape of the village surrounding the mound, and a better map needs to be created. Hopefully LiDAR data will be available for this stretch of the Flint River valley in the near future. In the meantime, we can all thank John Worth for gatherings this important data. As I have said many times, accurate maps of mound sites are important artifacts of our past societies in Georgia.

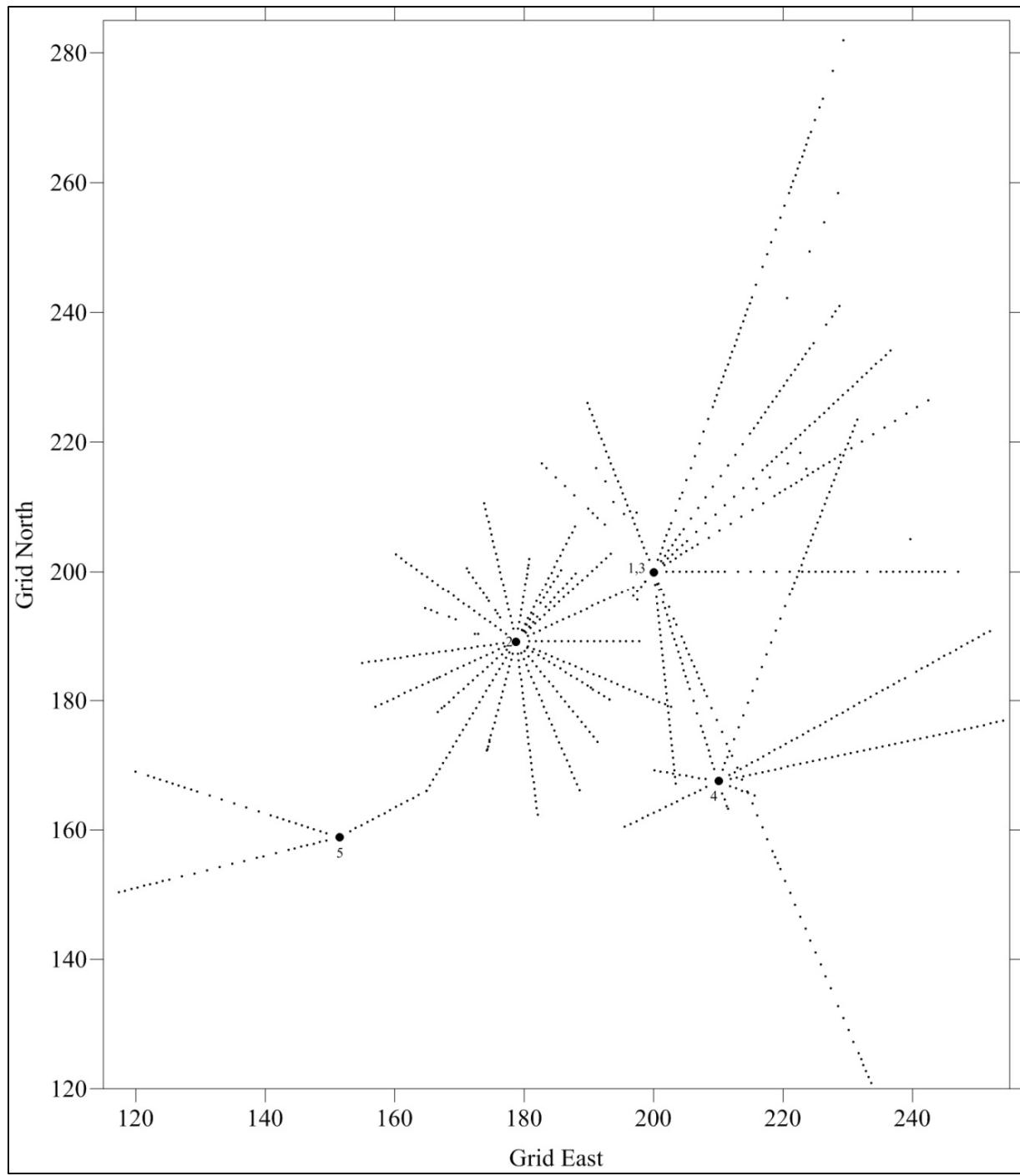


Figure 1. All Elevation Point Locations.

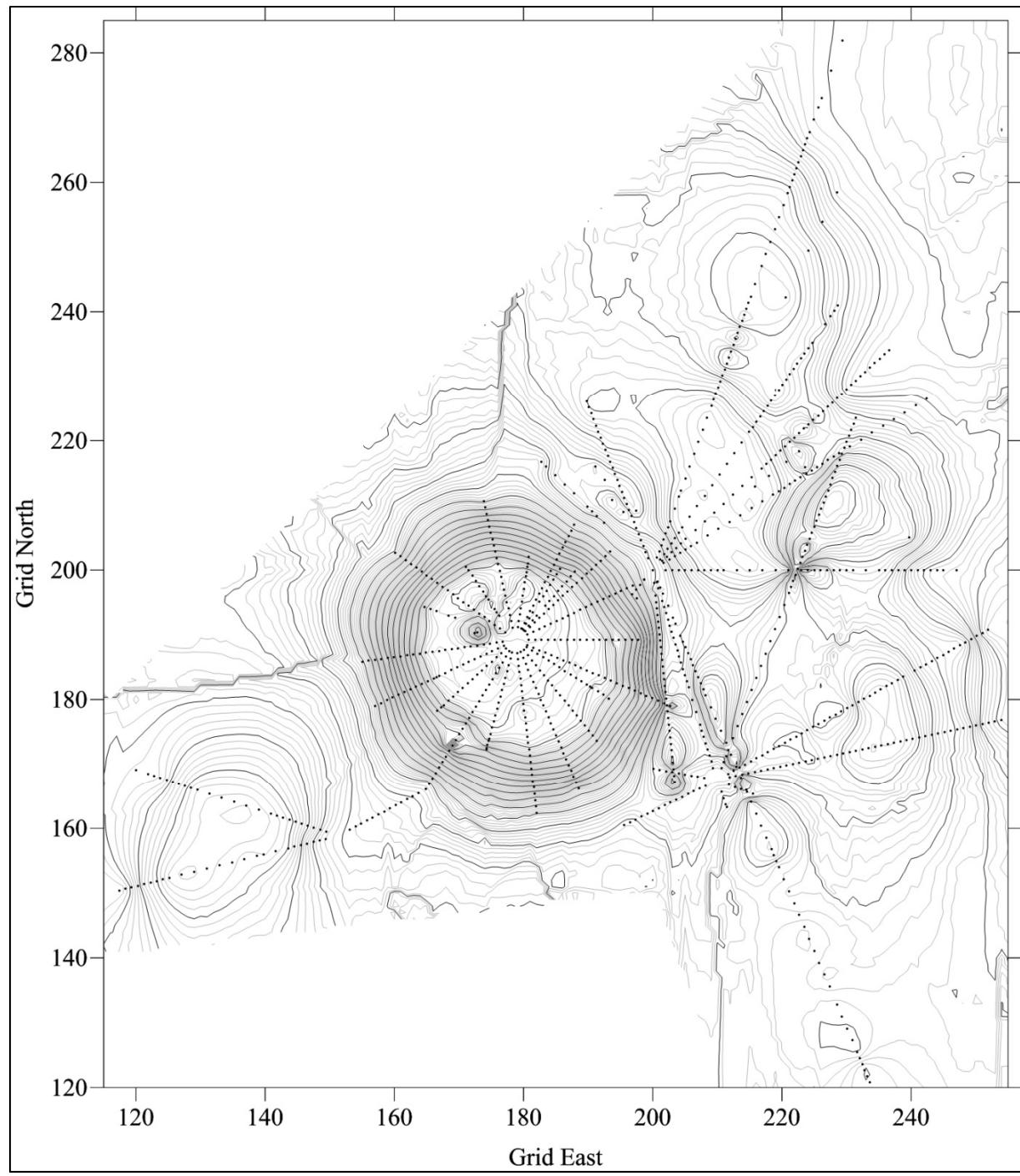


Figure 2. 10 Centimeter Contour Map with Elevation Points Included.

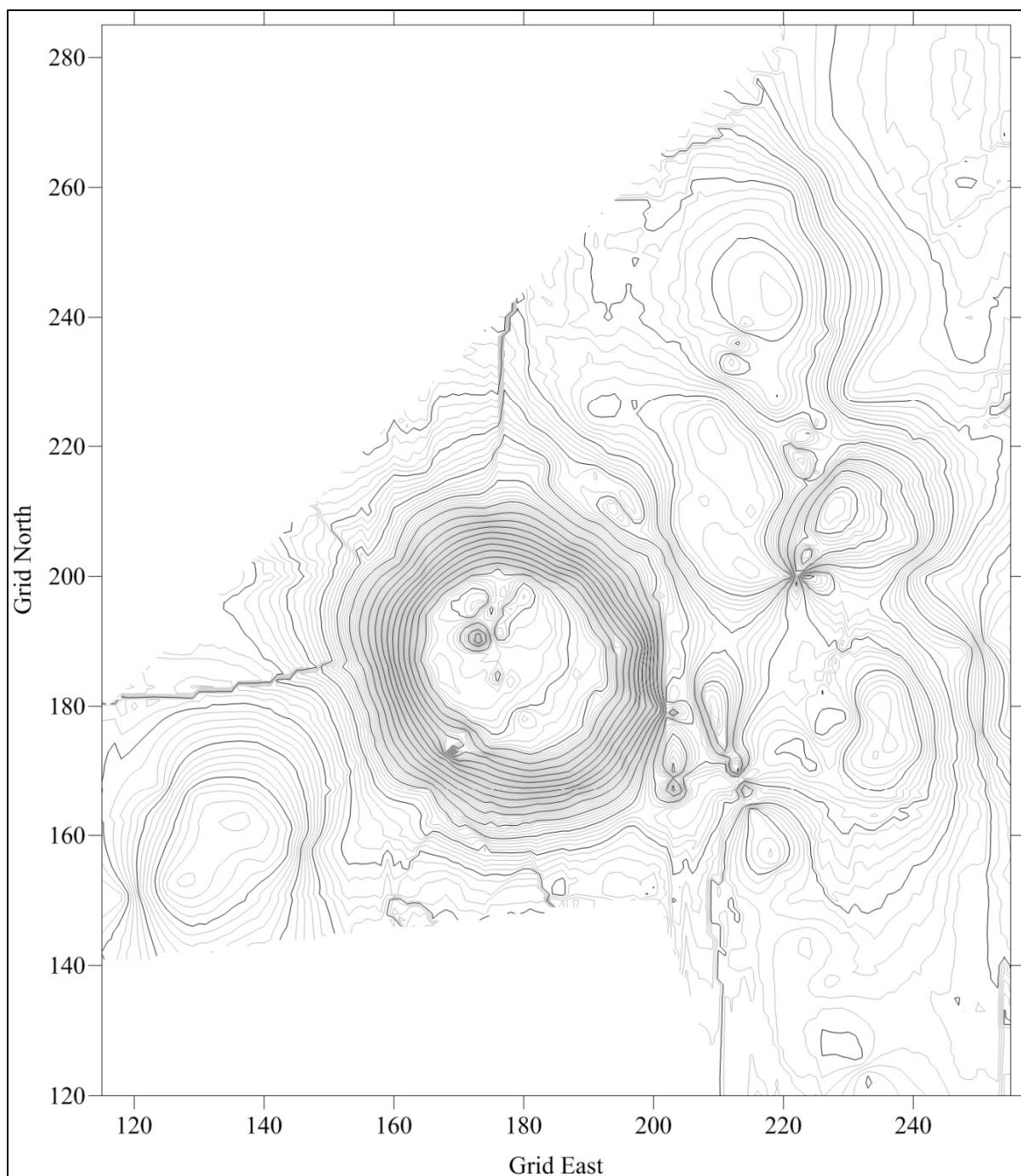


Figure 3. 10 Centimeter Contour Map without Elevation Points.

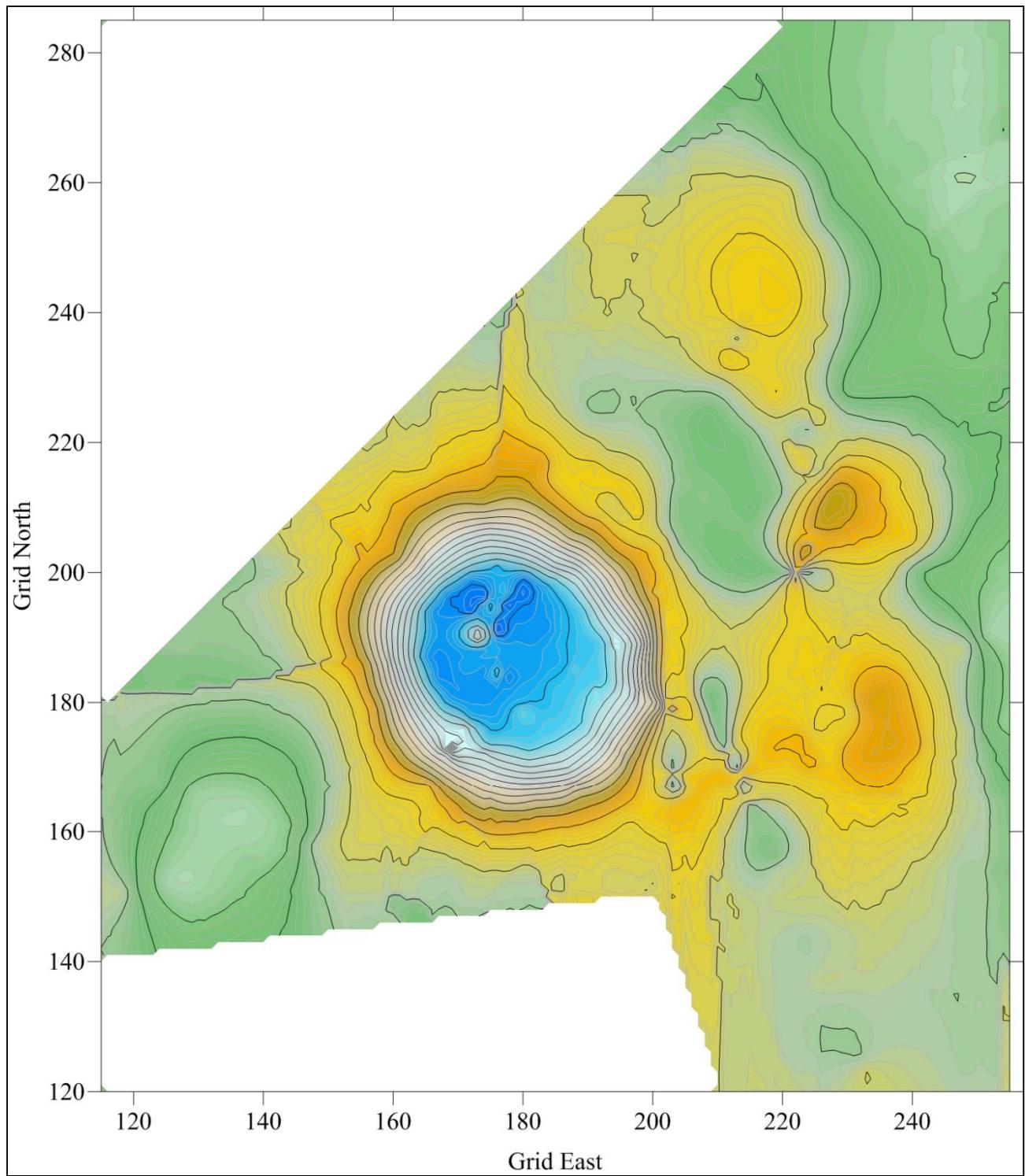


Figure 4. 10 Centimeter Contour Map with Color Shading.

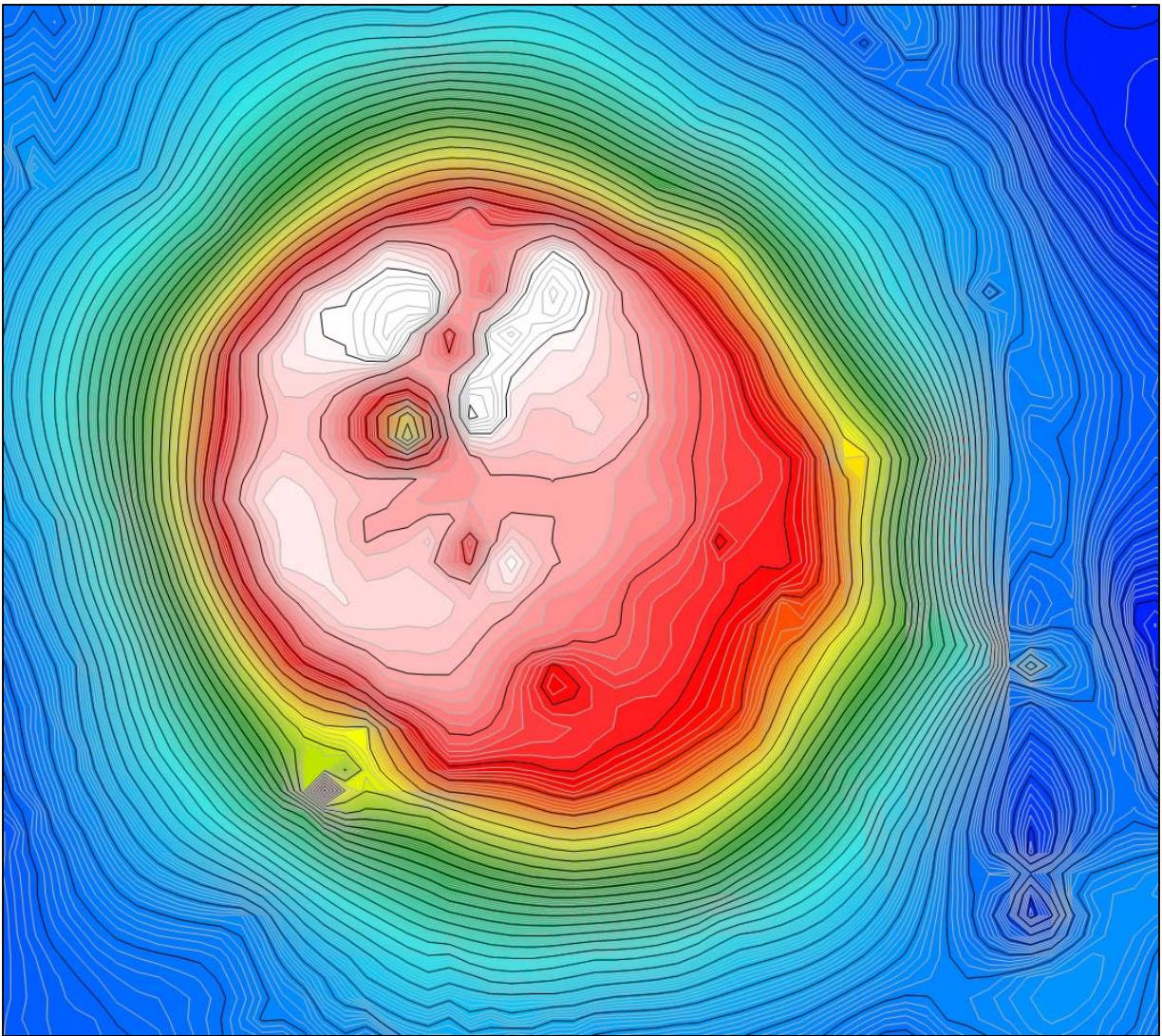


Figure 5. Mound Summit, 5 Centimeter Contour Interval.

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## Appendix: Elevation Data

New East	New North	Elevation	Dataset	Point
201.70	201.06	12.2	1	1
202.54	201.59	11.87	1	2
203.39	202.12	11.48	1	3
204.24	202.65	11.20	1	4
205.09	203.18	10.97	1	5
205.94	203.71	10.83	1	6
206.78	204.24	10.74	1	7
208.48	205.30	10.67	1	8
210.18	206.36	10.68	1	9
211.87	207.42	10.73	1	10
213.57	208.48	10.71	1	11
215.26	209.54	10.53	1	12
216.96	210.60	10.71	1	13
218.66	211.66	10.79	1	14
219.51	212.19	10.90	1	15
220.35	212.72	11.08	1	16
221.20	213.25	11.28	1	17
222.05	213.78	11.31	1	18
222.90	214.31	11.33	1	19
223.75	214.84	11.43	1	20
224.59	215.37	11.36	1	21
225.44	215.90	11.29	1	22
226.29	216.43	11.40	1	23
227.14	216.96	11.68	1	24
227.99	217.49	11.70	1	25
228.83	218.02	11.65	1	26
230.53	219.08	11.62	1	27
232.23	220.14	11.66	1	28
233.92	221.20	11.30	1	29
235.62	222.26	11.14	1	30
237.31	223.32	10.97	1	31
239.01	224.38	10.76	1	32
240.71	225.44	10.65	1	33
242.40	226.50	10.48	1	34
223.54	215.88	11.95	1	35
215.85	212.84	10.70	1	36
217.95	214.54	10.81	1	37
220.67	216.74	11.39	1	38
222.69	218.38	12.04	1	39
200.67	201.88	12.29	1	40
201.01	202.82	12.21	1	41
201.35	203.77	11.99	1	42
201.69	204.71	11.81	1	43
202.02	205.65	11.43	1	44
202.36	206.59	11.14	1	45
202.70	207.53	10.96	1	46

New East	New North	Elevation	Dataset	Point
203.37	209.41	10.85	1	47
204.05	211.30	10.76	1	48
204.38	212.24	10.82	1	49
205.06	214.12	10.85	1	50
205.73	216.00	10.73	1	51
206.40	217.89	10.70	1	52
207.08	219.77	10.64	1	53
207.75	221.65	10.56	1	54
208.43	223.54	10.56	1	55
209.10	225.42	10.63	1	56
209.44	226.36	10.82	1	57
209.78	227.30	11.01	1	58
210.11	228.24	11.13	1	59
210.45	229.19	11.23	1	60
210.79	230.13	11.62	1	61
211.12	231.07	11.92	1	62
211.46	232.01	12.20	1	63
211.80	232.95	12.24	1	64
212.14	233.89	12.24	1	65
212.47	234.83	11.75	1	66
212.81	235.78	11.38	1	67
213.15	236.72	11.57	1	68
213.48	237.66	11.87	1	69
213.82	238.60	12.35	1	70
214.16	239.54	12.28	1	71
214.50	240.48	12.13	1	72
214.83	241.42	12.13	1	73
215.17	242.37	12.15	1	74
215.84	244.25	12.18	1	75
216.85	247.07	12.20	1	76
217.53	248.96	12.16	1	77
218.20	250.84	12.00	1	78
218.88	252.72	11.88	1	79
219.55	254.61	11.75	1	80
220.23	256.49	11.70	1	81
220.90	258.37	11.60	1	82
221.24	259.31	11.50	1	83
221.57	260.25	11.35	1	84
221.91	261.20	11.21	1	85
222.25	262.14	11.02	1	86
222.59	263.08	10.90	1	87
222.92	264.02	10.69	1	88
223.26	264.96	10.52	1	89
223.60	265.90	10.33	1	90
223.93	266.84	10.27	1	91
224.27	267.79	10.20	1	92
224.95	269.67	10.10	1	93

New East	New North	Elevation	Dataset	Point
225.62	271.55	10.06	1	94
226.12	272.96	10.05	1	95
227.64	277.20	9.98	1	96
229.33	281.91	9.96	1	97
202.00	200.00	12.24	1	98
203.00	200.00	11.98	1	99
204.00	200.00	11.65	1	100
205.00	200.00	11.46	1	101
206.00	200.00	11.24	1	102
207.00	200.00	11.02	1	103
208.00	200.00	10.90	1	104
209.00	200.00	10.83	1	105
210.00	200.00	10.78	1	106
211.00	200.00	10.70	1	107
213.00	200.00	10.65	1	108
215.00	200.00	10.56	1	109
217.00	200.00	10.62	1	110
219.00	200.00	10.66	1	111
221.00	200.00	10.70	1	112
223.00	200.00	10.75	1	113
224.00	200.00	10.90	1	114
225.00	200.00	11.04	1	115
226.00	200.00	11.27	1	116
227.00	200.00	11.31	1	117
228.00	200.00	11.69	1	118
229.00	200.00	11.77	1	119
230.00	200.00	11.82	1	120
231.00	200.00	11.84	1	121
233.00	200.00	11.85	1	122
235.00	200.00	11.80	1	123
236.00	200.00	11.72	1	124
237.00	200.00	11.57	1	125
238.00	200.00	11.33	1	126
239.00	200.00	11.06	1	127
240.00	200.00	10.80	1	128
241.00	200.00	10.60	1	129
242.00	200.00	10.50	1	130
243.00	200.00	10.40	1	131
244.00	200.00	10.35	1	132
245.00	200.00	10.32	1	133
247.00	200.00	10.27	1	134
200.77	198.15	12.43	1	135
201.17	197.24	12.45	1	136
201.56	196.32	12.40	1	137
202.34	194.48	12.33	1	138
203.13	192.64	12.27	1	139
203.52	191.72	12.22	1	140

New East	New North	Elevation	Dataset	Point
204.30	189.87	12.01	1	141
204.69	188.95	11.99	1	142
205.08	188.03	11.98	1	143
205.47	187.11	11.88	1	144
205.86	186.19	11.75	1	145
206.25	185.27	11.57	1	146
206.64	184.35	11.37	1	147
207.03	183.43	11.21	1	148
207.42	182.51	10.95	1	149
207.81	181.59	10.73	1	150
208.21	180.67	10.70	1	151
208.99	178.83	10.68	1	152
209.77	176.99	10.62	1	153
210.55	175.15	10.65	1	154
211.33	173.31	10.63	1	155
212.11	171.46	10.60	1	156
212.89	169.62	10.61	1	157
213.68	167.78	10.64	1	158
214.46	165.94	10.69	1	159
215.24	164.10	10.74	1	160
216.02	162.26	10.80	1	161
216.80	160.42	10.87	1	162
217.58	158.58	10.70	1	163
218.36	156.74	10.68	1	164
218.76	155.82	10.70	1	165
219.15	154.90	11.05	1	166
219.54	153.97	11.31	1	167
220.32	152.13	11.28	1	168
221.10	150.29	11.45	1	169
221.88	148.45	11.34	1	170
222.66	146.61	11.29	1	171
223.44	144.77	11.08	1	172
224.23	142.93	11.10	1	173
225.01	141.09	11.10	1	174
225.79	139.25	11.20	1	175
226.57	137.41	11.35	1	176
227.35	135.56	11.24	1	177
228.52	132.80	11.05	1	178
229.30	130.96	11.05	1	179
230.09	129.12	10.97	1	180
230.87	127.28	10.98	1	181
231.65	125.44	10.95	1	182
232.04	124.52	11.15	1	183
232.43	123.60	11.43	1	184
232.82	122.68	11.54	1	185
233.21	121.76	11.50	1	186
233.60	120.84	11.50	1	187

New East	New North	Elevation	Dataset	Point
199.27	201.86	12.51	1	188
198.90	202.79	12.56	1	189
198.53	203.72	12.48	1	190
198.17	204.65	12.23	1	191
197.80	205.58	12.05	1	192
197.43	206.51	11.92	1	193
197.07	207.44	11.91	1	194
196.70	208.37	11.97	1	195
196.33	209.30	12.05	1	196
195.97	210.23	12.18	1	197
195.60	211.17	12.21	1	198
195.24	212.10	12.26	1	199
194.87	213.03	12.23	1	200
194.50	213.96	12.14	1	201
194.14	214.89	12.06	1	202
193.77	215.82	11.94	1	203
193.40	216.75	11.78	1	204
193.04	217.68	11.69	1	205
192.67	218.61	11.54	1	206
192.30	219.54	11.48	1	207
191.94	220.47	11.48	1	208
191.57	221.40	11.38	1	209
191.20	222.33	11.24	1	210
190.84	223.26	11.11	1	211
190.47	224.19	11.03	1	212
190.10	225.12	11.00	1	213
189.74	226.05	11.00	1	214
197.38	209.13	12.29	1	215
195.46	208.91	11.65	1	216
193.75	210.83	11.60	1	217
192.58	213.95	12.22	1	218
191.13	216.01	12.23	1	219
192.45	207.29	12.56	1	220
191.37	208.34	12.48	1	221
190.65	209.03	12.30	1	222
189.93	209.73	12.21	1	223
187.77	211.81	12.21	1	224
186.33	213.20	12.20	1	225
184.89	214.59	12.20	1	226
183.46	215.98	12.61	1	227
182.74	216.67	12.86	1	228
201.15	201.64	12.24	1	229
201.72	202.46	12.02	1	230
202.29	203.28	11.77	1	231
202.87	204.10	11.43	1	232
203.44	204.91	11.08	1	233
204.02	205.73	10.86	1	234

New East	New North	Elevation	Dataset	Point
204.59	206.55	10.79	1	235
205.74	208.19	10.71	1	236
206.88	209.83	10.75	1	237
208.03	211.47	10.84	1	238
209.18	213.11	10.74	1	239
210.32	214.74	10.67	1	240
211.47	216.38	10.63	1	241
212.62	218.02	10.63	1	242
213.77	219.66	10.65	1	243
214.91	221.30	10.83	1	244
215.49	222.12	11.00	1	245
216.06	222.94	11.29	1	246
216.63	223.76	11.40	1	247
217.21	224.57	11.45	1	248
217.78	225.39	11.71	1	249
218.35	226.21	11.95	1	250
218.93	227.03	12.00	1	251
219.50	227.85	12.00	1	252
220.08	228.67	11.93	1	253
220.65	229.49	11.84	1	254
221.22	230.31	11.75	1	255
221.80	231.13	11.64	1	256
222.37	231.95	11.63	1	257
222.94	232.77	11.65	1	258
223.52	233.59	11.68	1	259
224.09	234.40	11.70	1	260
224.66	235.22	11.47	1	261
226.67	238.09	11.60	1	262
227.53	239.32	11.19	1	263
228.11	240.14	11.17	1	264
228.68	240.96	11.17	1	265
220.60	242.24	12.28	1	266
224.11	249.43	11.72	1	267
226.30	253.93	10.94	1	268
228.49	258.42	10.35	1	269
201.46	201.36	12.20	1	270
202.19	202.05	11.84	1	271
202.93	202.73	11.58	1	272
203.66	203.41	11.26	1	273
204.39	204.09	10.93	1	274
205.12	204.77	10.83	1	275
206.58	206.14	10.74	1	276
208.04	207.50	10.70	1	277
209.51	208.87	10.70	1	278
210.97	210.23	10.73	1	279
212.43	211.59	10.68	1	280
213.90	212.96	10.62	1	281

New East	New North	Elevation	Dataset	Point
215.36	214.32	10.68	1	282
216.82	215.69	10.78	1	283
217.55	216.37	10.82	1	284
218.28	217.05	11.00	1	285
219.02	217.73	11.15	1	286
219.75	218.41	11.30	1	287
220.48	219.10	11.65	1	288
221.21	219.78	11.90	1	289
221.94	220.46	11.00	1	290
222.67	221.14	10.98	1	291
223.40	221.82	11.00	1	292
224.13	222.51	10.94	1	293
224.87	223.19	11.71	1	294
225.60	223.87	11.60	1	295
226.33	224.55	11.54	1	296
227.06	225.23	11.37	1	297
227.79	225.92	11.11	1	298
228.52	226.60	10.79	1	299
229.25	227.28	10.53	1	300
229.99	227.96	10.41	1	301
230.72	228.64	10.28	1	302
231.45	229.33	10.25	1	303
232.18	230.01	10.21	1	304
232.91	230.69	10.22	1	305
233.64	231.37	10.16	1	306
234.37	232.05	10.14	1	307
235.10	232.74	10.12	1	308
235.84	233.42	10.11	1	309
236.57	234.10	10.10	1	310
198.71	198.47	12.78	1	311
198.07	197.70	13.18	1	312
197.43	196.94	13.54	1	313
196.82	196.21	13.92	1	314
197.50	195.67	13.78	1	315
176.96	188.32	18.75	2	1
176.05	187.90	18.66	2	2
175.14	187.48	18.66	2	3
174.24	187.06	18.66	2	4
173.33	186.63	18.66	2	5
172.43	186.21	18.71	2	6
171.52	185.79	18.73	2	7
170.61	185.37	18.71	2	8
169.71	184.94	18.86	2	9
168.80	184.52	18.91	2	10
167.89	184.10	18.91	2	11
166.99	183.68	18.93	2	12
166.53	183.46	18.84	2	13

New East	New North	Elevation	Dataset	Point
166.08	183.25	18.67	2	14
165.18	182.83	18.26	2	15
164.27	182.41	17.69	2	16
163.36	181.99	17.04	2	17
162.46	181.56	16.42	2	18
161.55	181.14	15.66	2	19
160.64	180.72	15.05	2	20
159.74	180.30	14.29	2	21
158.83	179.87	13.72	2	22
157.92	179.45	13.25	2	23
157.02	179.03	12.74	2	24
180.58	190.02	18.84	2	25
181.49	190.44	18.84	2	26
182.40	190.86	18.90	2	27
183.30	191.28	18.78	2	28
184.21	191.71	18.91	2	29
185.11	192.13	18.63	2	30
186.02	192.55	18.58	2	31
186.93	192.97	18.51	2	32
187.83	193.40	18.41	2	33
188.74	193.82	18.25	2	34
189.65	194.24	18.01	2	35
190.55	194.66	17.56	2	36
191.46	195.09	16.97	2	37
192.36	195.51	16.46	2	38
193.27	195.93	15.74	2	39
194.18	196.35	15.11	2	40
195.08	196.78	14.64	2	41
195.99	197.20	13.97	2	42
196.90	197.62	13.66	2	43
198.71	198.47	12.78	2	44
179.01	187.18	18.73	2	45
179.14	186.19	18.75	2	46
179.26	185.20	18.76	2	47
179.38	184.21	18.80	2	48
179.50	183.21	18.77	2	49
179.62	182.22	18.62	2	50
179.74	181.23	18.64	2	51
179.87	180.24	18.64	2	52
179.99	179.24	18.25	2	53
180.11	178.25	18.13	2	54
180.23	177.26	18.20	2	55
180.35	176.27	18.39	2	56
180.48	175.27	18.34	2	57
180.60	174.28	18.29	2	58
180.72	173.29	18.20	2	59
180.84	172.30	17.94	2	60

New East	New North	Elevation	Dataset	Point
180.96	171.30	17.57	2	61
181.09	170.31	17.12	2	62
181.21	169.32	16.63	2	63
181.33	168.33	16.04	2	64
181.45	167.33	15.42	2	65
181.57	166.34	14.89	2	66
181.69	165.35	14.25	2	67
181.82	164.36	13.76	2	68
181.94	163.36	13.47	2	69
182.06	162.37	12.97	2	70
178.32	191.12	18.89	2	71
178.10	192.09	18.91	2	72
177.87	193.07	19.02	2	73
177.65	194.04	19.11	2	74
177.42	195.02	19.34	2	75
177.20	195.99	18.86	2	76
176.97	196.96	18.51	2	77
176.75	197.94	18.51	2	78
176.52	198.91	18.67	2	79
176.30	199.89	18.51	2	80
176.07	200.86	18.62	2	81
175.85	201.84	18.11	2	82
175.62	202.81	17.56	2	83
175.40	203.79	17.10	2	84
175.17	204.76	16.63	2	85
174.95	205.73	16.07	2	86
174.72	206.71	15.55	2	87
174.50	207.68	14.95	2	88
174.27	208.66	14.31	2	89
174.05	209.63	13.84	2	90
173.82	210.61	13.39	2	91
177.74	187.46	18.70	2	92
177.22	186.60	18.73	2	93
176.71	185.74	18.70	2	94
176.19	184.88	18.31	2	95
175.68	184.03	18.38	2	96
175.16	183.17	18.79	2	97
174.65	182.31	18.88	2	98
174.13	181.46	18.88	2	99
173.62	180.60	18.83	2	100
173.10	179.74	18.79	2	101
172.59	178.88	18.78	2	102
172.07	178.03	18.67	2	103
171.56	177.17	18.44	2	104
171.04	176.31	17.17	2	105
170.53	175.46	17.16	2	106
170.01	174.60	16.97	2	107

New East	New North	Elevation	Dataset	Point
169.50	173.74	16.40	2	108
168.98	172.88	18.87	2	109
168.47	172.03	15.58	2	110
167.95	171.17	15.23	2	111
167.44	170.31	14.70	2	112
166.92	169.46	14.09	2	113
166.41	168.60	13.54	2	114
165.89	167.74	12.86	2	115
165.38	166.88	12.29	2	116
164.86	166.03	12.25	2	117
180.03	187.62	18.76	2	118
180.66	186.84	18.71	2	119
181.29	186.06	18.73	2	120
181.92	185.28	18.75	2	121
182.55	184.51	18.68	2	122
183.18	183.73	18.61	2	123
183.80	182.95	18.48	2	124
184.43	182.18	18.41	2	125
185.06	181.40	18.37	2	126
185.69	180.62	18.34	2	127
186.32	179.84	18.33	2	128
186.95	179.07	18.25	2	129
187.58	178.29	18.17	2	130
188.21	177.51	18.10	2	131
188.84	176.74	18.04	2	132
189.47	175.96	17.81	2	133
190.10	175.18	17.48	2	134
190.73	174.40	17.00	2	135
191.36	173.63	16.53	2	136
180.77	189.17	18.84	2	137
181.77	189.17	18.83	2	138
182.77	189.17	18.77	2	139
183.77	189.17	18.72	2	140
184.77	189.17	18.62	2	141
185.77	189.17	18.55	2	142
186.77	189.17	18.50	2	143
187.77	189.17	18.42	2	144
188.77	189.17	18.36	2	145
189.77	189.17	18.35	2	146
190.77	189.17	18.31	2	147
191.77	189.17	18.21	2	148
192.77	189.17	18.08	2	149
193.77	189.17	17.21	2	150
194.77	189.17	17.40	2	151
195.77	189.17	17.05	2	152
196.77	189.17	16.45	2	153
197.77	189.17	16.02	2	154

New East	New North	Elevation	Dataset	Point
179.55	187.33	18.73	2	155
179.94	186.41	18.77	2	156
180.33	185.49	18.73	2	157
180.72	184.57	18.74	2	158
181.11	183.65	18.72	2	159
181.51	182.73	18.63	2	160
181.90	181.81	18.59	2	161
182.29	180.89	18.57	2	162
182.68	179.96	18.49	2	163
183.07	179.04	18.44	2	164
183.46	178.12	18.37	2	165
183.85	177.20	18.25	2	166
184.24	176.28	18.33	2	167
184.63	175.36	18.19	2	168
185.02	174.44	18.05	2	169
185.41	173.52	17.88	2	170
185.80	172.60	17.60	2	171
186.19	171.68	17.22	2	172
186.58	170.76	16.87	2	173
186.98	169.84	16.44	2	174
187.37	168.92	15.82	2	175
187.76	168.00	15.33	2	176
188.15	167.08	14.40	2	177
188.54	166.16	13.79	2	178
180.23	190.53	18.85	2	179
180.96	191.22	18.86	2	180
181.70	191.90	18.83	2	181
182.43	192.58	18.84	2	182
183.16	193.26	18.82	2	183
183.89	193.94	18.78	2	184
184.62	194.63	18.70	2	185
185.35	195.31	18.62	2	186
186.08	195.99	18.42	2	187
186.81	196.67	18.19	2	188
187.55	197.35	17.93	2	189
188.28	198.04	17.48	2	190
189.01	198.72	17.00	2	191
189.74	199.40	16.35	2	192
190.47	200.08	15.64	2	193
191.20	200.76	15.02	2	194
191.93	201.45	14.43	2	195
192.67	202.13	13.85	2	196
193.40	202.81	13.32	2	197
179.68	190.95	18.83	2	198
180.13	191.84	18.89	2	199
180.59	192.73	18.93	2	200
181.04	193.63	18.94	2	201

New East	New North	Elevation	Dataset	Point
181.49	194.52	18.93	2	202
181.95	195.41	18.91	2	203
182.40	196.30	18.89	2	204
182.86	197.19	18.82	2	205
183.31	198.08	18.60	2	206
183.76	198.97	18.21	2	207
184.22	199.86	17.71	2	208
184.67	200.75	17.07	2	209
185.13	201.64	16.30	2	210
185.58	202.54	15.95	2	211
186.03	203.43	15.29	2	212
186.49	204.32	14.63	2	213
186.94	205.21	14.03	2	214
187.40	206.10	13.60	2	215
187.85	206.99	13.30	2	216
180.61	188.39	18.76	2	217
181.53	188.00	18.73	2	218
182.45	187.61	18.68	2	219
183.37	187.22	18.69	2	220
184.29	186.83	18.68	2	221
185.21	186.43	18.65	2	222
186.13	186.04	18.57	2	223
187.05	185.65	18.48	2	224
187.98	185.26	18.16	2	225
188.90	184.87	18.33	2	226
189.82	184.48	18.21	2	227
190.74	184.09	18.31	2	228
191.66	183.70	18.25	2	229
192.58	183.31	18.05	2	230
193.50	182.92	17.88	2	231
194.42	182.53	17.52	2	232
195.34	182.14	16.92	2	233
196.26	181.75	16.69	2	234
197.18	181.36	16.25	2	235
198.10	180.96	15.20	2	236
199.02	180.57	14.97	2	237
199.94	180.18	14.52	2	238
200.86	179.79	13.98	2	239
201.78	179.40	13.43	2	240
202.70	179.01	13.21	2	241
176.79	188.89	18.76	2	242
175.80	188.75	18.66	2	243
174.81	188.61	18.66	2	244
173.82	188.47	18.70	2	245
172.83	188.33	18.74	2	246
171.84	188.20	18.73	2	247
170.85	188.06	18.76	2	248

New East	New North	Elevation	Dataset	Point
169.86	187.92	18.82	2	249
168.87	187.78	18.86	2	250
167.88	187.64	18.90	2	251
166.89	187.50	18.92	2	252
165.90	187.36	18.90	2	253
164.91	187.22	18.79	2	254
163.92	187.08	18.44	2	255
162.93	186.94	17.85	2	256
161.94	186.80	17.15	2	257
160.95	186.66	16.58	2	258
159.95	186.53	15.89	2	259
158.96	186.39	14.87	2	260
157.97	186.25	14.42	2	261
156.98	186.11	13.78	2	262
155.99	185.97	13.21	2	263
155.00	185.83	12.91	2	264
177.15	190.35	18.99	2	265
176.34	190.93	19.40	2	266
175.53	191.52	19.21	2	267
174.72	192.11	18.61	2	268
173.92	192.70	18.76	2	269
173.11	193.28	18.58	2	270
172.30	193.87	19.11	2	271
171.49	194.46	19.28	2	272
170.68	195.05	19.02	2	273
169.87	195.64	18.99	2	274
169.06	196.22	19.03	2	275
168.25	196.81	18.86	2	276
167.44	197.40	18.50	2	277
166.63	197.99	17.81	2	278
165.83	198.57	17.19	2	279
165.02	199.16	16.53	2	280
164.21	199.75	15.75	2	281
163.40	200.34	15.02	2	282
162.59	200.93	14.60	2	283
161.78	201.51	14.09	2	284
160.97	202.10	13.48	2	285
160.16	202.69	13.03	2	286
180.08	190.68	18.79	2	287
180.74	191.43	18.87	2	288
181.39	192.19	18.86	2	289
182.05	192.94	18.88	2	290
183.36	194.45	18.81	2	291
184.02	195.21	18.75	2	292
184.67	195.96	18.61	2	293
185.33	196.72	18.46	2	294
185.99	197.47	18.19	2	295

New East	New North	Elevation	Dataset	Point
186.64	198.23	17.88	2	296
187.30	198.98	17.38	2	297
187.95	199.74	17.00	2	298
179.83	190.87	18.80	2	299
180.36	191.71	18.87	2	300
180.89	192.56	18.89	2	301
181.42	193.41	18.91	2	302
182.48	195.11	18.88	2	303
183.01	195.95	18.78	2	304
183.54	196.80	18.71	2	305
184.07	197.65	18.57	2	306
184.60	198.50	18.25	2	307
185.13	199.35	17.83	2	308
185.66	200.19	17.18	2	309
180.47	188.11	18.73	2	310
181.31	187.58	18.72	2	311
182.16	187.05	18.72	2	312
183.01	186.52	18.71	2	313
183.86	185.99	18.63	2	314
184.71	185.46	18.61	2	315
185.55	184.93	18.53	2	316
186.40	184.40	18.45	2	317
187.25	183.87	18.36	2	318
188.10	183.34	18.32	2	319
188.95	182.81	18.24	2	320
189.79	182.28	18.25	2	321
190.26	181.99	18.12	2	322
190.64	181.75	17.70	2	323
191.49	181.22	17.95	2	324
192.34	180.69	17.79	2	325
193.19	180.16	17.29	2	326
193.19	180.16	17.14	2	327
178.25	187.24	18.71	2	328
177.99	186.27	18.76	2	329
177.73	185.31	18.81	2	330
177.48	184.34	19.04	2	331
177.22	183.37	18.99	2	332
176.96	182.41	18.81	2	333
176.70	181.44	18.79	2	334
176.44	180.48	18.76	2	335
176.18	179.51	18.74	2	336
175.92	178.54	18.71	2	337
175.66	177.58	18.71	2	338
175.41	176.61	18.58	2	339
175.15	175.65	18.51	2	340
174.89	174.68	18.38	2	341
174.68	173.91	18.17	2	342

New East	New North	Elevation	Dataset	Point
174.60	173.62	18.04	2	343
174.42	172.94	17.70	2	344
174.29	172.46	17.42	2	345
174.24	172.27	16.99	2	346
177.28	187.83	18.75	2	347
176.54	187.16	18.72	2	348
175.80	186.49	18.71	2	349
175.05	185.82	18.79	2	350
174.31	185.16	18.91	2	351
173.57	184.49	18.81	2	352
172.82	183.82	18.86	2	353
172.08	183.15	18.86	2	354
171.34	182.48	18.83	2	355
170.60	181.81	18.91	2	356
169.85	181.14	18.87	2	357
169.11	180.47	18.74	2	358
168.37	179.80	18.57	2	359
167.62	179.13	18.15	2	360
167.25	178.80	17.93	2	361
166.62	178.23	17.41	2	362
166.55	193.62	18.89	2	363
165.61	193.96	18.75	2	364
164.67	194.30	18.37	2	365
169.37	192.59	18.86	2	366
168.43	192.93	18.87	2	367
172.37	190.30	17.51	2	368
172.88	190.31	16.57	2	369
176.25	192.90	19.15	2	370
175.86	193.48	18.73	2	371
175.53	193.98	18.47	2	372
174.58	195.39	18.37	2	373
174.18	195.97	19.21	2	374
173.74	196.63	19.29	2	375
173.18	197.46	19.06	2	376
172.62	198.29	18.98	2	377
172.06	199.12	18.90	2	378
171.50	199.95	18.54	2	379
171.11	200.53	18.06	2	380
179.08	191.15	18.82	2	381
179.24	192.13	18.91	2	382
179.40	193.12	18.93	2	383
179.55	194.11	18.93	2	384
179.71	195.10	19.01	2	385
179.87	196.08	19.20	2	386
180.02	197.07	19.23	2	387
180.18	198.06	19.13	2	388
180.33	199.05	19.01	2	389

New East	New North	Elevation	Dataset	Point
180.43	199.64	18.83	2	390
180.57	200.53	18.35	2	391
180.65	201.02	17.95	2	392
180.80	202.01	17.42	2	393
200.21	198.01	12.53	3	11
200.42	196.02	12.60	3	12
200.52	195.03	12.68	3	13
200.63	194.03	12.71	3	14
200.73	193.04	12.74	3	15
200.84	192.04	12.73	3	16
200.94	191.05	12.69	3	17
201.05	190.05	12.68	3	18
201.15	189.06	12.58	3	19
201.25	188.07	12.52	3	20
201.36	187.07	12.43	3	21
201.46	186.08	12.34	3	22
201.57	185.08	12.27	3	23
201.67	184.09	12.18	3	24
201.78	183.09	12.08	3	25
201.88	182.10	12.01	3	26
201.99	181.10	11.92	3	27
202.09	180.11	11.83	3	28
202.20	179.12	11.80	3	29
202.30	178.12	11.71	3	30
202.40	177.13	11.64	3	31
202.51	176.13	11.57	3	32
202.61	175.14	11.44	3	33
202.72	174.14	11.31	3	34
202.82	173.15	11.18	3	35
202.93	172.15	11.08	3	36
203.03	171.16	10.98	3	37
203.14	170.16	10.85	3	38
203.24	169.17	10.76	3	39
203.34	168.18	10.64	3	40
203.45	167.18	10.62	3	41
164.86	166.03	12.25	4	1
163.71	165.42	12.07	4	2
162.83	164.95	12.01	4	3
161.95	164.48	11.96	4	4
161.06	164.01	11.90	4	5
160.18	163.54	11.86	4	6
159.30	163.08	11.83	4	7
158.41	162.61	11.76	4	8
157.53	162.14	11.67	4	9
156.65	161.67	11.67	4	10
155.76	161.20	11.66	4	11
154.88	160.73	11.59	4	12

New East	New North	Elevation	Dataset	Point
154.00	160.26	11.60	4	13
153.12	159.79	11.57	4	14
149.41	158.37	11.31	4	15
148.44	158.12	11.23	4	16
147.47	157.88	11.01	4	17
146.50	157.64	10.83	4	18
145.53	157.40	10.45	4	19
144.56	157.16	10.16	4	20
143.59	156.91	9.98	4	21
141.65	156.43	9.87	4	22
139.71	155.95	9.78	4	23
138.74	155.71	9.84	4	24
136.80	155.22	9.87	4	25
134.85	154.74	9.75	4	26
132.91	154.25	9.72	4	27
130.97	153.77	9.66	4	28
129.03	153.29	9.58	4	29
127.09	152.80	9.58	4	30
125.15	152.32	9.65	4	31
124.18	152.08	9.84	4	32
123.21	151.83	10.03	4	33
122.24	151.59	10.15	4	34
121.27	151.35	10.25	4	35
120.30	151.11	10.64	4	36
119.33	150.87	10.94	4	37
118.36	150.62	11.22	4	38
117.39	150.38	11.26	4	39
149.45	159.47	11.26	4	40
148.50	159.78	11.00	4	41
147.55	160.09	10.67	4	42
146.59	160.40	10.48	4	43
145.64	160.70	10.26	4	44
144.69	161.01	10.04	4	45
143.74	161.32	9.92	4	46
142.79	161.63	9.85	4	47
141.84	161.94	9.80	4	48
140.89	162.25	9.72	4	49
138.99	162.87	9.67	4	50
137.08	163.49	9.58	4	51
135.18	164.10	9.64	4	52
133.28	164.72	9.68	4	53
131.38	165.34	9.72	4	54
129.48	165.96	9.77	4	55
128.52	166.27	9.92	4	56
127.57	166.58	10.06	4	57
126.62	166.88	10.29	4	58
125.67	167.19	10.33	4	59

New East	New North	Elevation	Dataset	Point
124.72	167.50	10.71	4	60
123.77	167.81	10.79	4	61
122.82	168.12	10.84	4	62
121.87	168.43	10.86	4	63
119.97	169.05	10.87	4	64
211.69	168.46	12.47	5	1
212.56	168.94	12.44	5	2
213.44	169.43	12.19	5	3
214.31	169.91	12.41	5	4
215.19	170.40	12.44	5	5
216.06	170.88	12.38	5	6
216.94	171.37	12.38	5	7
217.81	171.85	12.49	5	8
218.69	172.34	12.51	5	9
219.56	172.82	12.50	5	10
220.44	173.31	12.51	5	11
221.31	173.79	12.52	5	12
222.18	174.28	12.55	5	13
223.06	174.76	12.52	5	14
223.93	175.25	12.35	5	15
224.81	175.73	12.01	5	16
225.68	176.22	11.91	5	17
226.56	176.70	11.97	5	18
227.43	177.19	11.99	5	19
228.31	177.67	11.98	5	20
229.18	178.16	11.93	5	21
230.06	178.64	11.99	5	22
230.93	179.13	12.27	5	23
231.81	179.61	12.69	5	24
232.68	180.10	12.91	5	25
233.55	180.58	12.94	5	26
234.43	181.06	12.96	5	27
235.30	181.55	12.96	5	28
236.18	182.03	12.89	5	29
237.05	182.52	12.81	5	30
237.93	183.00	12.69	5	31
238.80	183.49	12.50	5	32
239.68	205.00	12.27	5	33
240.55	184.46	11.99	5	34
241.43	184.94	11.75	5	35
242.30	185.43	11.59	5	36
243.18	185.91	11.52	5	37
244.05	186.40	11.49	5	38
244.92	186.88	11.42	5	39
245.80	187.37	11.30	5	40
246.67	187.85	11.38	5	41
247.55	188.34	11.41	5	42

New East	New North	Elevation	Dataset	Point
248.42	188.82	11.19	5	43
249.30	189.31	10.85	5	44
250.17	189.79	10.29	5	45
251.05	190.28	9.88	5	46
251.92	190.76	9.67	5	47
			5	48
211.90	167.91	12.41	5	49
212.87	168.11	12.53	5	50
213.85	168.32	12.37	5	51
214.83	168.53	12.29	5	52
215.81	168.74	12.24	5	53
216.79	168.95	12.22	5	54
217.77	169.15	12.22	5	55
218.74	169.36	12.23	5	56
219.72	169.57	12.29	5	57
220.70	169.78	12.21	5	58
221.68	169.98	12.31	5	59
222.66	170.19	12.48	5	60
223.63	170.40	12.51	5	61
224.61	170.61	12.55	5	62
225.59	170.82	12.50	5	63
226.57	171.02	12.20	5	64
227.55	171.23	12.27	5	65
228.52	171.44	12.34	5	66
229.50	171.65	12.57	5	67
230.48	171.86	12.79	5	68
231.46	172.06	12.76	5	69
232.44	172.27	12.83	5	70
233.42	172.48	12.92	5	71
234.39	172.69	12.91	5	72
235.37	172.90	12.89	5	73
236.35	173.10	12.91	5	74
237.33	173.31	12.90	5	75
238.31	173.52	12.90	5	76
239.28	173.73	12.75	5	77
240.26	173.94	12.73	5	78
241.24	174.14	12.52	5	79
242.22	174.35	12.26	5	80
243.20	174.56	12.01	5	81
244.18	174.77	11.79	5	82
245.15	174.97	11.63	5	83
246.13	175.18	11.53	5	84
247.11	175.39	11.50	5	85
248.09	175.60	11.35	5	86
249.07	175.81	11.14	5	87
250.04	176.01	10.86	5	88
251.02	176.22	10.29	5	89

New East	New North	Elevation	Dataset	Point
252.00	176.43	10.22	5	90
252.98	176.64	10.03	5	91
253.96	176.85	9.89	5	92
209.36	169.40	12.43	5	93
209.06	170.36	12.14	5	94
208.77	171.32	11.97	5	95
208.48	172.27	11.92	5	96
208.19	173.23	11.89	5	97
207.89	174.18	11.91	5	98
207.60	175.14	11.92	5	99
207.31	176.10	11.93	5	100
206.72	178.01	11.93	5	101
206.14	179.92	11.93	5	102
205.55	181.83	11.86	5	103
205.26	182.79	11.98	5	104
204.97	183.75	11.92	5	105
204.68	184.70	12.04	5	106
204.38	185.66	12.10	5	107
204.09	186.62	12.14	5	108
203.80	187.57	12.12	5	109
203.51	188.53	12.12	5	110
203.22	189.49	12.06	5	111
202.92	190.44	12.01	5	112
202.63	191.40	12.02	5	113
202.34	192.35	12.02	5	114
202.05	193.31	12.08	5	115
201.75	194.27	12.19	5	116
201.46	195.22	12.36	5	117
200.88	197.14	11.96	5	118
200.58	198.09	12.33	5	119
200.00	200.00	12.56	5	120
207.97	167.84	12.42	5	121
206.99	168.01	12.40	5	122
206.00	168.18	12.37	5	123
205.02	168.36	12.33	5	124
204.03	168.53	12.32	5	125
203.05	168.71	12.23	5	126
202.06	168.88	12.05	5	127
201.08	169.05	11.95	5	128
200.09	169.23	11.96	5	129
208.14	166.61	12.42	5	130
207.24	166.17	12.43	5	131
206.34	165.74	12.42	5	132
205.45	165.30	12.43	5	133
204.55	164.86	12.37	5	134
203.65	164.42	12.38	5	135
202.75	163.98	12.42	5	136

New East	New North	Elevation	Dataset	Point
201.85	163.54	12.38	5	137
200.95	163.11	12.33	5	138
200.05	162.67	12.30	5	139
199.15	162.23	12.30	5	140
198.26	161.79	12.14	5	141
197.36	161.35	11.98	5	142
196.46	160.91	11.90	5	143
195.56	160.48	11.92	5	144
210.62	165.61	12.01	5	145
210.97	164.67	11.96	5	146
211.31	163.73	11.96	5	147
211.48	163.26	11.96	5	148
215.54	165.34	11.96	5	149
214.61	165.70	11.96	5	150
213.67	166.06	11.98	5	151
212.74	166.41	12.14	5	152
211.81	166.77	12.36	5	153
210.66	169.36	12.43	5	154
211.02	170.29	12.11	5	155
211.37	171.22	11.94	5	156
211.73	172.16	11.88	5	157
212.45	174.03	11.83	5	158
213.17	175.89	11.92	5	159
213.88	177.76	11.89	5	160
214.60	179.63	11.88	5	161
215.32	181.49	11.83	5	162
216.03	183.36	11.84	5	163
216.75	185.23	11.94	5	164
217.47	187.10	11.98	5	165
218.18	188.96	11.96	5	166
218.90	190.83	11.95	5	167
219.62	192.70	11.90	5	168
220.33	194.56	12.04	5	169
221.05	196.43	12.10	5	170
221.41	197.36	12.33	5	171
221.77	198.30	12.58	5	172
222.12	199.23	12.64	5	173
222.48	200.17	12.81	5	174
222.84	201.10	12.98	5	175
223.20	202.03	13.05	5	176
223.56	202.97	13.23	5	177
223.92	203.90	13.25	5	178
224.27	204.83	12.45	5	179
224.63	205.77	12.42	5	180
224.99	206.70	13.02	5	181
225.35	207.63	13.07	5	182
225.71	208.57	13.13	5	183

New East	New North	Elevation	Dataset	Point
226.07	209.50	13.19	5	184
226.42	210.43	13.18	5	185
226.78	211.37	13.16	5	186
227.14	212.30	13.11	5	187
227.50	213.24	12.96	5	188
227.86	214.17	12.81	5	189
228.22	215.10	12.67	5	190
228.58	216.04	12.49	5	191
228.93	216.97	12.26	5	192
229.29	217.90	12.01	5	193
229.65	218.84	11.83	5	194
230.01	219.77	11.63	5	195
230.37	220.70	11.43	5	196
230.73	221.64	11.23	5	197
231.08	222.57	11.13	5	198
231.44	223.50	11.12	5	199