LEGEND

Tehek Lake sector (north of Chesterfield fault zone)

- 11 late Granite
- 10e Dubawnt group (dykes)
- 9 Hb syenite stocks
- 8a northeast trending metadiabase dykes
- 7 Chesterfield fault zone rocks
- 4 Tehek Lake plutonic complex
- 3 Akutuak River gneiss complex
- 2 Quoich River gneiss complex
- 1 Katyet River group
  - 1v mafic volcanics: flows, breccias & intrusions
  - 1q quartzites & quartzose muscovite schist
  - 1c conglomerates
  - 1i iron formation
  - 1l carbonate horizons
  - 1g quartzose greywackes
  - 1s slate-shale

Chesterfield fault zone

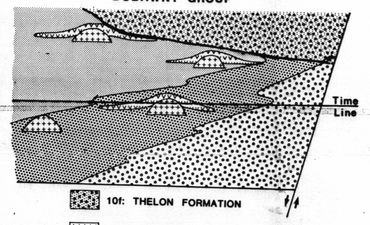
- 11 late Granite
- 10e Dubawnt group (dykes)
- 9 Hb syenite stocks
- 8a northeast trending metadiabase dykes
- 7 Chesterfield fault zone rocks
  - 7c mylonites
  - 7b white granodiorite
  - 7a porphyritic granodiorite with garnet & hornblende

Baker Lake sector (south of Chesterfield fault zone)

- 11? late? Granite
- 10 Dubawnt group
  - 10f Thelon formation
  - 10e Martell syenites & related dykes
  - 10d Christopher Island formation
  - 10c Red Point member: Kazan formation
  - 10b Kazan formation
  - 10a South Channel formation
- 8c gabbro stocks
- 8b Bowell Island dyke swarm
- 8a northeast trending metadiabase dykes
- 7 Chesterfield fault zone rocks
- 6 Ingilik Point gneiss complex porphyritic granite
- 5 Kramanituar complex
  - 5c Marker beds
  - 5b Anorthosite suite
  - 5a Granulite suite

Figure 2

CONCEPTUAL STRATIGRAPHIC MODEL of the DUBAWNT GROUP



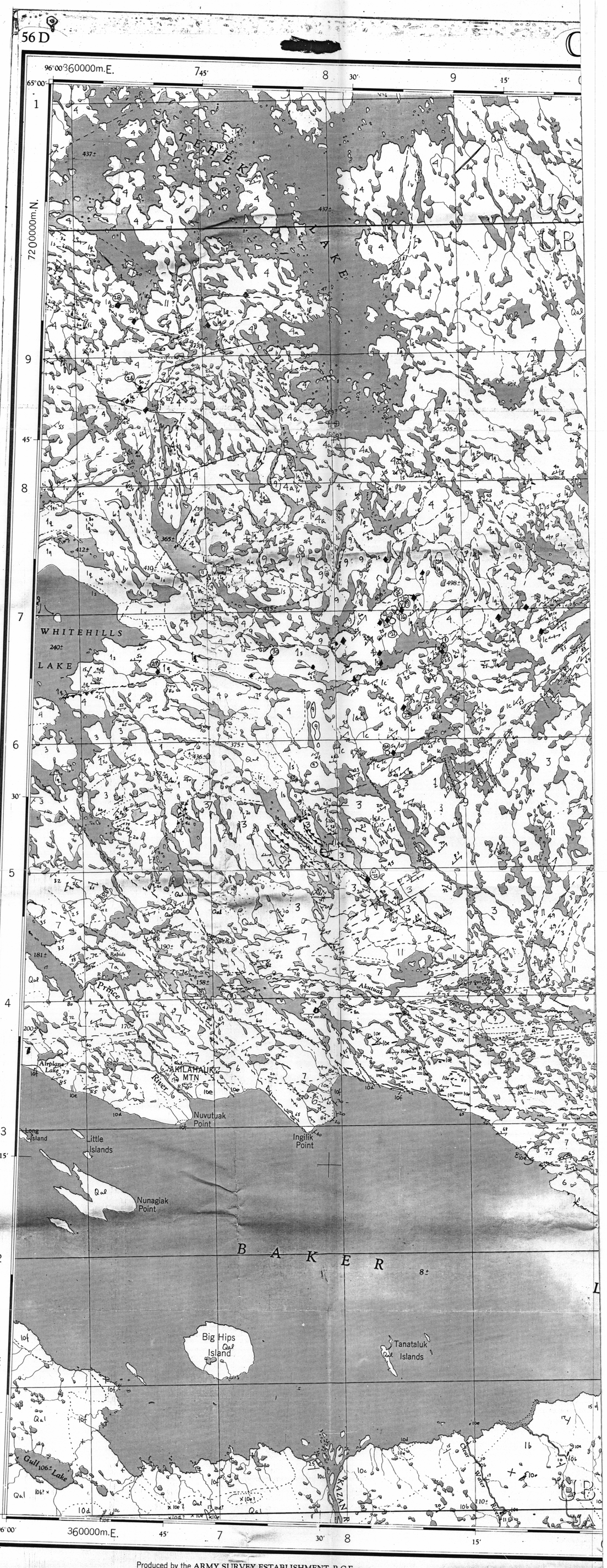
- Geological boundary (defined, approximate, assumed)
- Geological boundary (gradational)
- Bedding, tops known, unknown
- Foliation and/or gneissosity
- Lineation, undifferentiated
- Structural trend
- Lineament
- Fault
- Reverse fault with moderate dip
- Mineral occurrence
- Gossan
- Anomalous till
- (F) Pleistocene fossil locality

Geology by Blake (1980), Donaldson (1965), Heywood and Schau (1980), Miller (1980), Nadeau (1981), Schau and Ashton (1979, 1980), Schau and Hulbert (1977), Schau, Tremblay and Christopher (1982b) and Wright (1967).

Compiled by Schau 1982, 1983.

Table 1. Chemical analysis of clay from mudboils Baker Lake region

ID	UTMN	UTME	CU	PB	ZN	CO	NI	AG	CR	U	MO	MN	FE	AS	UNIT
76 68	7193800	363700	133	76	152	27	35			4.8	7	484	22.8		1
76 69	7193850	363750	70	51	134	26	44			10.8	9	820	8.3		1
76 81	7188250	400200													1
76 82	7188200	400250	102	57	156	36	78			15.2	6	820	6.3		1
76 124	7177900	419950	89	46	102	25	40			30.0	6	660	4.3		1
76 123	7175350	417300	133	1870	182	29	23			1.4	57	249	31.0		1
76 67	7169100	364800	100	66	139	29	44			12.2	15	600	7.9		1
76 70	7160000	369100	159	58	212	64	185			11.4	16	980	8.7		1
76 71	7166400	375000	80	88	119	18	34			6.6	15	680	8.0		1
76 72	7166450	374950	31	305	35	21	12			1.0	114	170	27.0		1
76 125	7183150	433300	39	31	127	25	54			0.0	6	746	3.3		2
76 122	7170700	409400	50	32	114	25	46			10.8	5	600	4.3		3
76 121	7160100	396650	84	32	177	34	70			8.7	6	880	7.5		3
76 75	7202100	364300	42	40	96	30	48			9.5	5	840	5.6		4
76 76	7200800	383600	24	14	54	13	24			7.7	6	435	3.3		4
76 77	7206150	402700	57	34	132	30	65			15.4	6	860	5.1		4
76 79	7197800	429300	105	38	140	43	65			0.0	8	914	5.6		4
76 83	7175000	398100	24	14	54	13	24			7.7	6	435	3.3		4
76 127	7186300	442400	21	36	106	16	31			28.0	8	455	3.2		4
76 110	7112100	447000	40	33	103	23	39			9.9	6	765	3.8		5
76 111	7124100	427700	44	34	180	24	46			14.2	4	1000	3.3	0	6
76 66	7140000	355000	78	32	129	28	64			1.7	3	700	5.9		7
76 27	7139000	363200	50	32	141	28	52			5.4	7	720	6.2		7
76 116	7136700	383500	53	47	138	36	48			0.0	7	809	6.2		7
76 115	7130400	409100	39	24	198	24	38			11.6	3	900	5.8		7
76 132	7128200	394600	48	36	243	29	44			6.9	3	1196	6.9		7
76 114	7129400	448000	32	33	134	21	41			13.2	3	765	3.9		7
76 107	7104000	410000	39	30	104	15	31			2.5	3	570	3.4		10
76 108	7107400	425100	38	28	123	24	46			2.5	4	765	3.8		10
Fb 109	7100000	437800	38	32	109	18	39			6.6	2	725	3.4		10
76 78	7201000	422800	51	28	82	24	45			18.3	5	512	3.3		11
76 126	7170000	431800	88	46	125	24	48			130.	24	530	4.5		11
76 120	7158200	413700	38	40	134	26	38			18.2	7	680	5.0		11
76 118	7144000	399500	40	32	173	26	40			16.8	6	900	5.7		11
80 53	7148801	382001	130	52	110	13	28		55	11.0	14	390	11.0		1
80 290	7167201	388401	90	200	147	11	27		51	11.6	13	375	8.4		1
80 533	7179600	357900	27	14	113	18	38		68	2.9	3	980	4.0		1
809187	7174700	366200	84	32	132	28	40		63	17.7	8	750	4.9		1
809191	7172450	367000	103	63	155	29	46		65	12.4	10	525	5.6		1
80 515	7173750	404000	270	57	170	61	68		57	10.6	9	1150	7.8		1
809151	7165500	366000	110	178	128	8	24		45	5.4	18	240	10.3		1
809220	7167500	377000	122	34	157	14	30		71	17.5	13	400	8.4		1
809250	7166400	378700	131	57	180	14	34		70	13.6	12	515	8.9		1
809208	7164400	374500	108	41	128	11	26		55	9.1	13	370	8.5		1
809287	7164000	372000	107	40	133	14	28		62	13.1	12	465	8.5		1
809222	7163200	377800	103	53	150	15	30		62	8.5	14	420	8.2		1
809277	7160200	370300	122	38	130	14	30		60	8.8	13	450	9.6		1
809274	7160500	373950	113	46	145	11	24		53	7.0	12	465	8.2		1
809246	7168000	382000	110	48	142	13	32		64	12.5	14	435	9.1		1
80 290	7167200	388400	103	1020	45	3	5		34	1.8	81	115	25.0		1
80 291	7166850	388100	134	570	117	11	25		46	7.9	19	370	13.0		1
80 311	7165400	389800	95	65	175	20	37		51	12.2	12	595	7.5		1
80 286	7162400	385400	103	148	68	4	9		52	4.5	275	135	35.5		1
809260	7161400	382200	118	55	130	12	28		60	12.2	14	460	9.0		1
80 300	7161000	391000	106	65	155	21	35		57	13.4	12	495	7.7		1
809336	7158800	366800	200	42	104	22	40		66	11.8	8	595	6.6		1
809339	7158600	365800	148	51	140	26	74		127	8.6	8	695	7.6		1
809329	7157000	367600	142	57	155	26	48		63	10.4	12	600	7.8		1
809304	7157700	372100	107	51	112	15	33		56	5.9	14	410	8.8		1
809313	7156950	371400	128	25	120	10	34		60	11.6	15	495	9.6		1
809306	7156500	372400	131	52	170	14	35		68	9.4	18	570	9.8		1
809327	7156500	370500	148	40	140	16	41		66	12.0	12	545	8.5		1
80 584	7153700	377000	180	137	125	14	33		55	4.2	26	310	19.0		1
80 42	7151700	378500	123	74	170	28	41		79	12.3	11	555	8.2		1
80 46	7150050	380050	47	32	114	8	22		27	10.2	7	235	2.2		1
80 335	7158600	391000	110	44	175	23	57		60	11.8	12	530	6.6		1
80 53	7148900	382000	130	740	16	2	0		6	5	240	35	33.0		1
80 291	7153000	373400	180	48	200	24	68		55	14.4	15	730	8.2		3
809098	7150700	377500	106	50	138	18	40		62	9.7	11	400	9.1		3
809094	7150200	377900	124	80	185	23	52		72	10.2	16	550	9.4		3
80 298	7149200	375600	122	64	117	19	37		60	12.9	18	500	7.8		3
80 98	7146400	374800	120	52	135	21	41		57	8.0	11	700	6.9		3
80 91	7146000	379000	133	70	153	21	39		70	11.7	16	690	9.2		3
80 408	7185200	368450	89	170	154	16	36		24	.6	69	135	27.0		4
809417	7181600	374500	116	50	158	25	32		56	47.5	11	465	5.3		4
809104	7170500	369800	103	46	123	16	34		53	20.0	14	925	5.2		4
809381	7176400	371400	107	42	176	30	44		70	12.9	10	930	7.4		4
809429	7176700	375200	77	32	123	30	43		68	41.5	10	1100	6.6		4
809171	7170000	377000	124	33	182	19	40		73	17.2	8	890	5.6		4
809342	7161600	365800	126	41	144	24	41		75	14.5	12	600	8.3		4
809338	7160600	369000	129	40	170	13	32		63	12.7	12	745	7.8		4
80 449	7134150	370750	77	32	149	33	55		65	12.2	12	440	9.4		4
80 87	7144400	379200	94	47	142	20	45		92	13.3	8	1065	5.6		6
80 122	7142000	374000	100	40	226	28	65		56	12.8	12	670	7.6		7
80 30	7140800	376200	82	34	210	21	63		68	16.2	8	740	7.8		7
80 458	7135500	371000	79	19	170	13	45		62	13.9	7	725	7.1		7
80 38	7135350	379000	125	46	233	33	70		50	6.5	7	405	4.0		7
80 152	7139600	390300	70	32	210	25	49		61	8.1	6	1100	8.2		7
80 71	7137400	396000	54	20	185	21	38		74	12.6	6	1030	6.4		7
80 58	7137200	397300	36	25	140	20	40		65	17.6	4	800	5.7		7
80 614	7139000	402700	46	25	165	20	34		46	14.2	6	1175	4.5		7
809448	7175500	378300	90	36	160	34	45		52	31.0	5	1040	6.8		9
809413	7174950	377500	115	33	145	30	50		87	8.8	7	940	6.3		9
809409	7172800	378600	85	40	140	22	36		98	25.0	10	1050	9.2		9
809215	7171800	377200	96	33	197	27	50		68	17.3	6	715	6.4		9
80 127	7142100	387000	44	28	122	14	30		66	5.6	4	375	4.9		11
816142	7176002	417301	160	840	240	18	48	.8	96	16.4	14	640	6.0	22	1
816142	7176003	417502	114	2700	210	10	26	3.4	72	3.4	40	310	19.0	16	1
816144	7178001	422001	240	46	135	30	54	0.0	44	19.0	8	590	5.7	3	1
813135	7202450	441400	82	35	88	20	40	.8	72	40.0	10	475	5.0	4	1
813085	7201950	441950	35	34	83	10	20	0.0	54	13.3	6	330	5.5	5	1
813169	7202000	444000	54	30	150	25	56	0.0	80	19.0	8	480	4.7	5	1
813103	7204600	448200	48	30	71	13	22	0.0	58	13.4	8	260	5.0	6	1
813124	7200000	440000	60	32	44	6	12	0.0	58	6.9	3	1196	6.9	7	1
813220	7195050	429100	118	40	180	25	60	0.0	104	22.0	15	665	5.9	3	1
813230	7197200	432100	230	44	60	8	22	0.0	72	3.3	8	225	20.0	3	1
813200	7197200	437000	108	30	72	10	20	0.0	76	64.0	17	170	4.5	2	1
816175	7188600	400800	106	44	146	24	58	0.0	86	16.6	8	660	4.9	12	1
816160	7184600	401600	142	70	105	22	56	0.0	96	16.4	16	660	7.4	17	1
816169	7188400	408200	116	98	74	12	30	1.2	88	5.8	15	395	15.0	6	1
813084	7177700	357400	130	57	150	20	46	0.0	66	12.5	14	540	5.1	46	1
81 193	7173600	387900	92	52	160	15	35	0.0	80	10.5	18	490	5.5	35	1
81 155	7170000	384800	78	78	64	4	10	.8	39	4.8	24	180	19.0	57	1
81 186	7170800	372000	174	138	104	11	25	1.0	56	17.0	40	375	8.7	132	1
816073	7178400	407000	108	145	100	16	29	.8	64	10.6	12	415	7.4	58	1
816074	7176400	408650	146	68	165	22	58	0.0	90	17.8	12	595	8.2	35	1
816084	7174450	404400	132	41	115	34	48	0.0	55	6.9	10	636	4.8	0	1
816066	7172500	405800	134	108	155	17	48	.8	58	18.0	10	540	7.0	52	1
816296	7170750	403000	108	58	140	26	58	0.0	74	8.4	12	620	6.3	46	1
816275	7170400	401600	105	190	170	18	40	.9	70	15.7	40	480	7.7	94	1
816039	7179550	415300	108	31	92	15	22	1.6	32	8.3	6	380	13.5	0	1
816030	7179550	412100	185	124	200	28	42	0.0	44	9.4	14	580	6.2	45	1
816047	7177400	411000	178	192	175	17	36	0.0	54	12.4	22	480	7.8	110	1
816135	7176600	416500	65	530	108	13	32	0.0	96	5.6	9	445	6.8	16	1
816142	7176000	417500	160	840	240	18	48	.8	96	16.4	14	640	6.0		1
816127	7173700	418950	67	36	97	29	23	0.0	27	20.0	6	390	3.4	0	1
816144	7178300	422000	240	46	135	30	54	0.0	44	19.0	8	590	3.9	2	1
816090	7178100	420200	1350	102	100	14	30	2.1	60	35.0	8	320	3.9	3	1
813258	7169200	383700	76	1350	41	2	0	12.6	24	.3	58	72	19.5	46	1
816255	7166250	385600	120	64	110	27	57	0.0	74	13.9	10	580	5.6	123	1
816256	7165400	385400	82	60	190	14	38	0.0	80	11.4	10	500	5.0	44	1
816304	7169600	396500	108	64	150	24	56	0.0	72	10.6	10	565	4.9	102	1
816305	7168400	397500	70	64	165	40	67	0.0	92	4.7	10	1100	6.4	54	1
816277	7169300	401400	152	110	190	43	84	0.0	96	8.4	12	950	3.4	116	1
81 134	7169600	423800	43	37	100	17	47	0.0	73	24.0	10	500	4.2	0	1
81 475	7163400	438300	37	64	152	17	38	0.0	76	28.0	11	678	5.3	0	1
816243	7159000	384400	55	140	10	0	0	2.0	6	4.2	287	8	4.4	169	1
81 344	7153800	383400	102	68	128	14	30	.5	72	13.5	20	380	6.0	97	1
813244	7200550	434850	136	44	96	14	31	0.0	88	112.	15	310	4.8	4	2
813103	7206300	443000	70	35	112	23	54	0.0	86	18.6	5	940	4.9	0	2
813191	7198350	439600	32	26	34	4	10	0.0	46	14.3	4	180	7.5	5	2
816244	7169200	414600	94	43	144	29	65	.3	108	10.1	6	1000	3.6	9	3
816243	7166000	411400	38	40	105	22	40	0.0	76	11.6	6	680	3.7	0	3
813380	7174400	407400	50	40	180	22	38	0.0	64	28.0	6	1000	4.9	7	3
81 134	7205200	391400	58	16	81	18	24	0.0	30	10.7	6	660	3.6	0	4
81 140	7196850	387400	76	40	105	17	35	0.0	56	27.0	7	470	3.2	35	4
81 130	7192800	394200	53	30	152	23	60	0.0	85	17.2	10	860	4.7	2	4
81 190	7199450	407100	23	20	56	12	24	0.0	33	6.6	3	352	2.3	0	4
81 186	7199600	429700	84	34	190	30	140	0.0	135	10.8	9	1100	5.8	2	4
81 146	7189150	391050	85	36	92	20	44	0.0	65	18.2	9	480	4.7	35	4
81 442	7177000	388800	98	70	170	13	32	0.0	68	30.0	17	415	5.7	78	4
816285	7175600	394600	122	30	180	32	67	0.0	134	13.6	6	1100	7.5	11	4
816281	7173800	392800	104	30	120	24	56	0.0	80	4.8	8	560	5.3	0	4
816290	7173800	398850	76	32	88	25	47	0.0	57	4.6	13	600	4.4	0	4
813419	7155600	432000	42	26	85	15	27	0.0	68	19.0	12	385	5.7	0	4
81 436	7142200	446000	52	30	190	23	65	0.0	112	16.1	6	875	5.5	5	6
813278	7135000	358400	62	30	85	16	38	0.0	54	3.1	4	580	3.5	28	6
813281	7133100	360800	80	30	94	18	40	0.0	62	3.8	2	720	3.9	29	6
816016	7131600	367200	98	42	85	26	50	0.0	55	3.1	2	1500	4.6	34	6
81 231	7131400	442000	48	28	150	22	43	0.0	73	12.6	6	940	4.3	5	6
816217	7126000	402500	34	22	130	21	44	0.0	80	2.1	4	540	3.7	18	6
816196	7124450	402300	58	30	155	20	28	0.0	56	7.1	3	840	4.5	4	6
81 315	7125200	410400	70	14	115	10	28	0.0	32	7.0	7	300	2.6	2	6
81 329	7123300	415400	46	20	175	20	40	0.0	66	5.7	4	890	4.3	0	6
81 428	7126000	436600	29	27	62	11	19	0.0	31	4.9	3	344	2.6		6
816196	7124451	402301	45	35	120	14	29	0.0	82	8.4	11	390	3.9	26	6
813074	7140200	355800	138	46	180	25	78	0.0	78	9.3	8	800	5.4	63	7
813067	7142300	362800	58	30	165	28	54	0.0	72	7.3	6	830	5.0	34	7
813271	7141000	362200	104	46	130	27	50	0.0	64	4.5	4	760	5.9	45	7
81 126	7138400	378000	70	31	170	22	54	0.0	70	2.8	4	690	4.6	156	7
81 214	7139500	383500	104	47	175	25	52	0.0	69	17.8	10	720	5.5	97	7
81 218	7138000	382000	32	30	122	14	30	0.0	74	7.5	8	370	4.5	31	7
81 82	7136000	385400	83	35	185	22	50	.6	68	13.6	8	800	5.0	37	7
81 91	7134000	381000	70	38	115	23	44	0.0	70	10.1	8	660	5.4	22	7
813019	7136300	403200	31	21	92	14	23	0.0	40	8.3	4	920	3.3	3	7
816211	7130000	407000	42	38	120	23	37	0.0	63	11.6	8	685	4.5	0	7
816268	7134200	412800	21	21	90	14	21	0.0	40	5.5	4	500	2.8	2	7
816271	7131200	415100	46	25	175	20	40	0.0	72	15.5	4	800	4.5	4	7
816284	7133000	409700	26	28	130	15	24	0.0	45	19.2	3	530	3.3	2	7
81 225	7132300	437700	29	24	125	15	25	0.0	45	12.0	2	550	3.3	2	7
813294	7127400	395000	48	30	140	19	28	0.0	49		2	765	3.9		7
813025	7128300	403800	56	24	200	22	39	0.0	61	11.0	4	1000	4.9	4	7
816220	7128000	402600	37	20	151	20	41	0.0	86	7.9	3	600	4.3	20	7
816000	7128000	409950	35	18	180	20	40	0.0	68	9.8	3	1000	4.3	20	7
816214	7127000	409600	52	20	190	20	40	0.0	74	8.9	4	965	4.8	6	7
816207	7126800	416850	34	28	100	20	27	0.0	59	6.2	7	525	3.8	6	7
81 194	7160950	411800	27	38	120	18	30	0.0	56	8.5	6	775	3.9	6	9
81 206	7159600	409700	34	30	76	14	20	.5	30	9.6	6	620	2.9	3	9
812021	7104300	394600	33	22	84	14	28	0.0	41	5.2	4	580	2.8	12	13
812015	7103300	390600	36	29	86	19	31	0.0	46	7.0	4	1900	3.6	18	13
813323	7101550	414100	28	23	84	14	26	0.0	40	4.2	3	620	2.9	10	13
816088	7179600	419600	120	38	156	22	50	0.0	78	12.0	8	729	3.4	8	11



1962

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BAKE

Scale 1:

Kilometres 5 0 5 10

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