

B-1 List of Samples from the Orange Area (3)

No.	Sample No.	X m	Y m	Depth m	Rock Name	Rock Code	Analytical methods														
							Year	REE	WR	TS	PS	PO	XR	EA	IA	PA					
158	Da510	-550.0	-225.0	-	Beforsite	Mcb1	93	○													
159	Da515	-525.0	-225.0	-	Beforsite, Ank	Mcb1	94	○													
160	Da520	-500.0	-225.0	-	Beforsite	Mcb1	93	○						○	○						
161	Da525	-475.0	-225.0	-	Beforsite, Ank	Mcb1	94	○													
162	Da600	-450.0	-225.0	-	Beforsite	Mcb1	93	○													
163	Da610	-423.0	-225.0	-	Beforsite	Mcb1	93	○													
164	Da700	-300.0	-225.0	-	Beforsite	Mcb1	93	○													
165	Da705	-275.0	-225.0	-	Beforsite, Ank	Mcb1	94	○													
166	Da710	-250.0	-225.0	-	Beforsite	Mcb1	93	○						○							
167	Da715	-225.0	-225.0	-	Beforsite, Ank	Mcb1	94	○													
168	Da720	-200.0	-225.0	-	Syenite, bre.	Mfn	93	○													
169	Da800	-150.0	-225.0	-	Gneiss, Qtz-Fd, fenitised	Ngn	93	○													
170	Da810	-100.0	-225.0	-	Gneiss, Qtz-Fd, fenitised	Ngn	93	○		○					○						
171	Db305	-872.0	-187.6	-	Syenite, Agt-Hbl	Msu	94	○													
172	Db310	-850.1	-187.6	-	Syenite, Agt-Hbl	Msu	94	○													
173	Db315	-825.1	-187.6	-	Fenite	Mfn	94	○													
174	Db320	-800.1	-187.6	-	Beforsite	Mcb1	94	○													
175	Db325	-774.0	-187.6	-	Beforsite	Mcb1	94	○													
176	Db400	-750.1	-184.6	-	Beforsite	Mcb1	94	○	○												
177	Db405	-726.8	-187.6	-	Beforsite	Mcb1	94	○													
178	Db410	-699.4	-187.6	-	Beforsite	Mcb1	94	○													
179	Db415	-674.4	-188.6	-	Beforsite	Mcb1	94	○	○												
180	Db420	-648.9	-187.6	-	Beforsite, Ap	Mcb1	94	○													
181	Db425	-624.9	-187.5	-	Beforsite	Mcb1	94	○													
182	Db505	-574.9	-187.5	-	Beforsite	Mcb1	94	○					○		○						
183	Db510	-550.0	-185.7	-	Beforsite	Mcb1	94	○					○								
184	Db515	-524.0	-185.7	-	Beforsite	Mcb1	94	○	○				○		○						
185	Db520	-497.9	-185.7	-	Beforsite, Ap	Mcb1	94	○													
186	Db600	-456.8	-185.7	-	Beforsite	Mcb1	94	○	○												
187	Db610	-422.0	-185.7	-	Beforsite	Mcb1	94	○													
188	Db620	-350.8	-187.5	-	Beforsite	Mcb1	94	○													
189	Db700	-300.0	-187.5	-	Beforsite	Mcb1	94	○	○												
190	Db705	-275.0	-187.5	-	Beforsite, Ank	Mcb1	94	○													
191	Db710	-250.0	-187.5	-	Beforsite	Mcb1	94	○													
192	Db715	-225.0	-187.5	-	Beforsite, Ank	Mcb1	94	○	○												
193	Db720	-200.0	-187.5	-	Fenite	Mfn	94	○													
194	Dc320	-799.4	-262.5	-	Fenite, Agt-Pl	Mfn	94	○	○												
195	Dc405	-724.4	-262.5	-	Beforsite	Mcb1	94	○	○												
196	Dc410	-699.8	-262.5	-	Beforsite	Mcb1	94	○													
197	Dc415	-674.3	-262.5	-	Beforsite	Mcb1	94	○	○												
198	Dc420	-649.6	-262.5	-	Beforsite	Mcb1	94	○													
199	Dc425	-624.9	-262.5	-	Beforsite	Mcb1	94	○													
200	Dc500	-600.0	-262.5	-	Beforsite	Mcb1	94	○	○												
201	Dc505	-575.0	-262.5	-	Beforsite	Mcb1	94	○													
202	Dc510	-550.0	-262.5	-	Beforsite	Mcb1	94	○													
203	Dc515	-525.0	-262.5	-	Beforsite, Ank	Mcb1	94	○	○												
204	Dc520	-500.0	-262.5	-	Beforsite	Mcb1	94	○													
205	Dc525	-475.0	-262.5	-	Beforsite, Ank	Mcb1	94	○													
206	Dc600	-450.0	-262.5	-	Granophyre	Mgr	94	○	○												
207	Dc605	-425.0	-262.5	-	Beforsite, Ank	Mcb1	94	○													
208	Dc610	-395.0	-262.5	-	Beforsite	Mcb1	94	○													
209	Dc615	-375.0	-262.5	-	Beforsite, Ank	Mcb1	94	○	○												
210	Dc620	-350.0	-262.5	-	Beforsite	Mcb1	94	○													
211	Dc625	-325.0	-262.5	-	Beforsite, Ank	Mcb1	94	○													
212	Dc700	-300.0	-262.5	-	Beforsite	Mcb1	94	○	○												
213	Dc705	-275.0	-262.5	-	Beforsite, Ank	Mcb1	94	○													
214	Dc710	-249.0	-262.5	-	Beforsite	Mcb1	94	○													
215	Dc715	-225.0	-262.5	-	Sovite, Px-Pl	Mcs	94	○													
216	E 100	-1162.5	-147.8	-	Gneiss, Qtz-Fd	Ngn	93	○													
217	E 220	-950.0	-147.8	-	Syenite, banded	Msu	93	○													
218	E 300	-900.0	-147.8	-	Beforsite, Ank	Mcb1	93,94	○													
219	E 305	-876.1	-147.8	-	Syenite	Msu	94	○													
220	E 310	-850.0	-147.8	-	Syenite, banded	Msu	93	○		○					○						
221	E 315	-825.5	-147.8	-	Fenite	Mfn	94	○													
222	E 320	-800.0	-147.8	-	Beforsite, Pl-Hbl	Mcb1	93	○													
223	E 325	-774.3	-147.8	-	Beforsite	Mcb1	94	○													
224	E 400	-750.0	-147.8	-	Beforsite	Mcb1	93	○													
225	E 405	-725.6	-147.8	-	Beforsite	Mcb1	94	○													
226	E 410	-700.0	-147.3	-	Beforsite	Mcb1	93	○													
227	E 415	-676.5	-147.8	-	Beforsite, Ap	Mcb1	94	○													
228	E 420	-650.0	-147.8	-	Beforsite	Mcb1	93	○													
229	E 425	-624.7	-148.8	-	Beforsite	Mcb1	94	○													
230	E 500	-600.0	-147.8	-	Beforsite	Mcb1	93	○		○				○	○						
231	E 505	-574.7	-147.8	-	Beforsite	Mcb1	94	○													
232	E 510	-549.7	-147.8	-	Beforsite	Mcd	94	○					○		○					○	
233	E 515	-525.0	-147.8	-	Beforsite	Mcb1	94	○													
234	E 520	-500.0	-147.8	-	Beforsite	Mcb1	93	○													
235	E 600	-450.0	-147.8	-	Beforsite	Mcb1	93	○													
236	E 610	-400.0	-147.8	-	Beforsite	Mcb1	93	○													

B-1 List of Samples from the Orange Area (4)

No.	Sample No.	X m	Y m	Depth m	Rock Name	Rock Code	Analytical methods													
							Year	REE	WR	TS	PS	PO	XR	EA	IA	PA				
237	E 620	-350.0	-147.8	-	Beforsite	Mcb1	93	○												
238	E 700	-300.0	-147.8	-	Beforsite	Mcb1	93	○												
239	E 705	-275.0	-147.8	-	Beforsite	Mcb1	94	○												
240	E 710	-250.0	-147.8	-	Beforsite	Mcb1	93	○												
241	E 715	-225.0	-147.8	-	Beforsite, Ank	Mcb1	94	○												
242	E 720	-196.0	-138.8	-	Beforsite	Mcb1	93	○												
243	E 800	-133.0	-147.8	-	Syenite, bre.	Msu	93	○												
244	E 810	-100.0	-147.8	-	Gneiss, Qtz-Fd, fenitised	Ngn	93	○												
245	E 900	0.0	-147.8	-	Gneiss, Qtz-Fd	Ngn	93	○												
246	Ea420A	-654.4	-74.7	-	White mineral vein in beforstitevein		94													○
247	Ea510A	-550.7	-77.7	-	Beforsite, Ca bearing	Mcd	93													
248	Ea220	-950.0	-74.7	-	Syenite	Msu	93	○		○					○					
249	Ea300	-898.6	-74.7	-	Beforsite, Agt agregation	Mcb1	93	○	○	○										
250	Ea305	-873.5	-74.7	-	Beforsite	Mcb1	94	○												
251	Ea310	-855.2	-73.2	-	Beforsite, Fd bearing	Mcd	93	○												
252	Ea313	-830.1	-74.7	-	Syenite, Agt-Hbl	Msu	94	○												
253	Ea317	-815.1	-74.7	-	Beforsite	Mcb1	94	○												
254	Ea320	-808.4	-73.3	-	Sovite, Ap	Msu	93	○	○	○						○				
255	Ea325	-775.3	-74.7	-	Beforsite	Mcb1	94	○												
256	Ea400	-744.9	-74.3	-	Beforsite	Mcb1	93	○												
257	Ea405	-727.2	-74.7	-	Beforsite	Mcb1	94	○												
258	Ea410	-706.1	-74.7	-	Beforsite	Mcb1	93	○	○	○					○		○			
259	Ea415	-676.4	-74.7	-	Beforsite	Mcb1	94	○												
260	Ea420	-654.4	-74.7	-	Beforsite	Mcb1	93	○												
261	Ea425	-627.6	-74.7	-	Beforsite	Mcb1	94	○												
262	Ea500	-597.5	-74.7	-	Beforsite	Mcb1	93	○												
263	Ea505	-572.1	-74.7	-	Beforsite	Mcb1	94	○												
264	Ea510	-547.7	-74.7	-	Beforsite with Dol mega-crystal	Mcb1	93	○							○					
265	Ea515	-521.1	-74.7	-	Beforsite	Mcb1	94	○												
266	Ea520	-497.7	-74.7	-	Beforsite	Mcb1	93	○												
267	Ea525	-477.3	-74.7	-	Beforsite	Mcb1	94	○												
268	Ea600	-446.0	-74.7	-	Beforsite	Mcb1	93	○	○	○										
269	Ea605	-428.0	-74.7	-	Beforsite	Mcb1	94	○												
270	Ea610	-392.6	-74.7	-	Beforsite with Dol mega-crystal	Mcb1	93	○												
271	Ea620	-341.6	-74.7	-	Beforsite	Mcb1	93	○												
272	Ea700	-298.0	-70.2	-	Beforsite	Mcb1	93	○												
273	Ea705	-273.0	-70.2	-	Beforsite, Ank	Mcb1	94	○												
274	Ea710	-248.0	-70.2	-	Beforsite	Mcb1	93	○	○	○										
275	Ea715	-222.6	-70.2	-	Beforsite, Ank	Mcb1	94	○												
276	Ea720	-197.2	-70.2	-	Beforsite	Mcb1	93	○												
277	Ea800	-154.4	-70.2	-	Sovite	Mcs	93	○												
278	Ea810	-100.0	-70.2	-	Syenite, leuco-	Msu	93	○												
279	Eb300	-904.8	-33.7	-	Syenite, Agt, fenitized	Msu	94	○												
280	Eb305	-880.1	-33.7	-	Beforsite	Mcb1	94	○												
281	Eb310	-855.2	-33.7	-	Beforsite	Mcb1	94	○												
282	Eb315	-830.2	-33.7	-	Beforsite, Gn bearing	Mcb1	94	○	○											○
283	Eb320	-803.6	-34.7	-	Syenite, Agt, fenitized	Msu	94	○												
284	Eb325	-779.6	-33.7	-	Beforsite, Agt segregate	Mcb1	94	○												
285	Eb400	-754.7	-33.7	-	Beforsite	Mcb1	94	○	○											
286	Eb405	-729.9	-33.7	-	Beforsite	Mcb1	94	○												
287	Eb410	-705.2	-33.7	-	Beforsite	Mcb1	94	○												
288	Eb415	-680.1	-33.7	-	Beforsite	Mcb1	94	○	○											
289	Eb420	-655.1	-33.7	-	Beforsite	Mcb1	94	○												
290	Eb425	-629.7	-33.7	-	Beforsite	Mcb1	94	○												
291	Eb500	-604.5	-33.7	-	Beforsite	Mcb1	94	○	○											
292	Eb505	-579.5	-33.7	-	Beforsite	Mcb1	94	○												
293	Eb510	-554.5	-33.7	-	Beforsite	Mcb1	94	○												
294	Eb515	-529.4	-33.7	-	Beforsite, Agt?	Mcb1	94	○	○											
295	Eb520	-504.3	-33.7	-	Beforsite, Agt?	Mcb1	94	○												
296	Eb523	-516.8	-33.7	-	Beforsite	Mcb1	94	○												○
297	Eb525	-479.3	-33.7	-	Beforsite	Mcb1	94	○												
298	Eb600	-454.4	-33.7	-	Beforsite	Mcb1	94	○												
299	Eb605	-429.5	-33.7	-	Beforsite	Mcb1	94	○												
300	Eb610	-404.9	-33.7	-	Beforsite	Mcb1	94	○	○											
301	Eb620	-354.7	-33.7	-	Beforsite	Mcb1	94	○												
302	Eb700	-298.0	-33.7	-	Beforsite	Mcb1	94	○	○											
303	Eb705	-272.8	-32.2	-	Beforsite, Ank	Mcb1	94	○												
304	Eb710	-247.5	-32.2	-	Beforsite	Mcb1	94	○												
305	Eb715	-222.4	-32.2	-	Beforsite, Ank	Mcb1	94	○	○											
306	Eb720	-197.2	-32.2	-	Beforsite	Mcb1	94	○												
307	Ec300	-899.6	-109.8	-	Beforsite	Mcb1	94	○	○											
308	Ec305	-876.1	-113.8	-	Syenite, cut by Ank vein	Msu	94	○												
309	Ec310	-849.9	-113.8	-	Syenite	Msu	94	○	○											
310	Ec315	-824.7	-113.8	-	Fenite, carbonatised	Mfn	94	○												
311	Ec320	-798.8	-109.8	-	Beforsite, Agt-Phl	Mcb1	94	○												
312	Ec325	-774.9	-110.8	-	Beforsite	Mcb1	94	○												
313	Ec400	-750.3	-112.8	-	Beforsite	Mcb1	94	○	○											
314	Ec405	-724.9	-112.8	-	Beforsite	Mcb1	94	○												
315	Ec410	-699.6	-112.8	-	Beforsite	Mcb1	94	○												

B-1 List of Samples from the Orange Area (5)

No.	Sample No.	X m	Y m	Depth m	Rock Name	Rock Code	Analytical methods														
							Year	BEE	WR	TS	PS	PO	XR	EA	IA	PA					
316	Ec415	-675.6	-112.3	-	Beforsite, Agt	Mcb1	94	○													
317	Ec420	-649.7	-112.8	-	Beforsite	Mcb1	94	○													
318	Ec425	-624.5	-112.8	-	Beforsite	Mcb1	94	○													
319	Ec500	-601.0	-112.8	-	Beforsite	Mcb1	94	○													
320	Ec505	-570.9	-112.8	-	Beforsite	Mcb1	94	○													
321	Ec510	-549.4	-112.8	-	Beforsite	Mcb1	94	○													
322	Ec515	-524.6	-112.8	-	Beforsite	Mcb1	94	○													
323	Ec520	-500.0	-120.8	-	Beforsite	Mcb1	94	○													
324	Ec525	-474.3	-115.0	-	Beforsite	Mcb1	94	○													
325	Ec600	-448.8	-115.0	-	Beforsite, Agt	Mcb1	94	○	○												
326	Ec605	-423.0	-115.0	-	Beforsite	Mcb1	94	○													
327	Ec610	-397.8	-115.0	-	Beforsite	Mcb1	94	○													
328	Ec620	-350.4	-115.0	-	Beforsite	Mcb1	94	○	○												
329	Ec700	-321.9	-115.0	-	Beforsite	Mcb1	94	○	○												
330	Ec705	-272.5	-108.7	-	Beforsite	Mcb1	94	○													
331	Ec710	-247.5	-102.3	-	Beforsite	Mcb1	94	○													
332	Ec715	-225.1	-102.3	-	Beforsite, Ank	Mcb1	94	○	○												
333	Ec720	-202.7	-102.3	-	Beforsite	Mcb1	94	○													
334	F 200	-1050.0	0.0	-	Gneiss, Qtz-Fd, fenitised	Ngn	93	○													
335	F 300	-900.0	0.0	-	Syenite, porphyritic	Msu	93	○													
336	F 310	-850.0	0.0	-	Beforsite, Hbl	Mcb1	93	○													
337	F 320	-800.0	0.0	-	Beforsite with Mag layers	Mcb1	93	○													
338	F 400	-750.0	0.0	-	Beforsite	Mcb1	93	○													
339	F 410	-700.0	0.0	-	Beforsite	Mcb1	93	○													
340	F 415	-674.8	0.0	-	Beforsite	Mcb1	94	○													
341	F 420	-650.0	0.0	-	Beforsite	Mcb1	93	○													
342	F 425	-624.3	0.0	-	Beforsite	Mcb1	94	○													
343	F 500	-600.0	0.0	-	Beforsite	Mcb1	93	○													
344	F 505	-574.5	0.0	-	Beforsite	Mcb1	94	○													
345	F 510	-550.0	0.0	-	Beforsite	Mcb1	93	○													
346	F 515	-526.6	0.0	-	Beforsite	Mcb1	94	○													
347	F 520	-500.0	0.0	-	Beforsite	Mcb1	93	○													
348	F 525	-474.9	0.0	-	Beforsite	Mcb1	94	○													
349	F 600	-450.0	0.0	-	Beforsite	Mcb1	93	○													
350	F 605	-425.0	0.0	-	Beforsite	Mcb1	94	○													
351	F 610	-400.0	0.0	-	Beforsite	Mcb1	93	○													
352	F 615	-374.6	0.0	-	Beforsite	Mcb1	94	○													
353	F 620	-354.4	0.0	-	Beforsite	Mcb1	93	○													
354	F 625	-324.9	0.0	-	Beforsite	Mcb1	94	○													
355	F 700	-305.2	-4.4	-	Beforsite	Mcb1	93	○	○	○											
356	F 705	-280.3	-4.4	-	Beforsite	Mcb1	94	○													
357	F 710	-250.0	0.0	-	Beforsite	Mcb1	93	○		○											
358	F 715	-228.7	0.0	-	Beforsite, Ap	Mcb1	94	○													
359	F 720	-200.0	0.0	-	Beforsite, Pl	Mcb1	93	○													
360	F 800	-150.0	0.0	-	Syenite, Ne with Cal matrix	Msu	93	○													
361	F 810	-100.0	0.0	-	Syenite, Ne with Cal matrix	Msu	93	○	○	○											
362	F 900	0.0	0.0	-	Gneiss, Qtz-Fd	Ngn	93	○													
363	Fa310	-842.5	70.0	-	Beforsite	Mcb1	93	○													
364	Fa320	-792.5	70.0	-	Beforsite	Mcb1	93	○													
365	Fa400	-750.0	70.0	-	Beforsite, Bt	Mcb1	93	○													
366	Fa410	-700.0	70.0	-	Beforsite	Mcb1	93	○													
367	Fa415	-675.0	70.0	-	Beforsite	Mcb1	94	○													
368	Fa420	-650.0	70.0	-	Beforsite	Mcb1	93	○													
369	Fa425	-625.2	68.0	-	Beforsite	Mcb1	94	○													
370	Fa500	-600.0	70.0	-	Beforsite	Mcb1	93	○													
371	Fa505	-576.6	70.0	-	Beforsite	Mcb1	94	○													
372	Fa510	-548.6	67.4	-	Beforsite	Mcb1	93	○													
373	Fa515	-526.6	70.0	-	Beforsite	Mcb1	94	○													
374	Fa520	-500.0	70.0	-	Beforsite	Mcb1	93	○													
375	Fa525	-480.7	73.6	-	Beforsite	Mcb1	94	○													
376	Fa600	-450.0	70.0	-	Beforsite	Mcb1	93	○													
377	Fa605	-429.2	70.6	-	Beforsite	Mcb1	94	○													
378	Fa610	-400.0	70.0	-	Beforsite	Mcb1	93	○													
379	Fa615	-379.7	70.6	-	Beforsite	Mcb1	94	○													
380	Fa620	-360.1	64.2	-	Beforsite	Mcb1	93	○													
381	Fa625	-330.2	64.6	-	Beforsite	Mcb1	94	○													
382	Fa700	-308.1	66.1	-	Beforsite	Mcb1	93	○													
383	Fa705	-280.2	64.6	-	Beforsite	Mcb1	94	○													
384	Fa710	-259.5	62.6	-	Beforsite	Mcb1	93	○													
385	Fa715	-230.2	64.6	-	Beforsite	Mcb1	94	○													
386	Fa720	-204.2	61.1	-	Beforsite	Mcb1	93	○													
387	Fa800	-150.0	70.0	-	Syenite, Ne with Cal matrix	Msu	93	○													
388	Fa810	-100.0	70.0	-	Syenite, Ne with Cal matrix	Msu	93	○													
389	Fb320	-784.7	98.6	-	Beforsite	Mcb1	94	○													
390	Fb400	-759.7	98.6	-	Beforsite	Mcb1	94	○	○												
391	Fb410	-709.7	98.6	-	Beforsite	Mcb1	94	○													
392	Fb415	-684.7	98.6	-	Beforsite	Mcb1	94	○	○												
393	Fb420	-659.7	98.6	-	Beforsite	Mcb1	94	○													
394	Fb425	-634.7	98.6	-	Beforsite	Mcb1	94	○													

B-1 List of Samples from the Orange Area (6)

No.	Sample No.	X m	Y m	Depth m	Rock Name	Rock Code	Analytical methods													
							Year	REE	WR	TS	PS	PO	XR	EA	IA	PA				
395	Fb500	-609.7	98.6	-	Beforsite	Mcb1	94	○	○											
396	Fb505	-584.7	98.6	-	Beforsite	Mcb1	94	○												
397	Fb510	-559.7	98.6	-	Beforsite	Mcb1	94	○												
398	Fb515	-534.7	98.6	-	Beforsite	Mcb1	94	○	○											
399	Fb520	-509.7	98.6	-	Beforsite	Mcb1		○												
400	Fb525	-484.7	98.6	-	Beforsite	Mcb1	94	○												
401	Fb600	-459.7	98.6	-	Beforsite	Mcb1	94	○	○											
402	Fb605	-435.1	98.6	-	Beforsite	Mcb1	94	○												
403	Fb610	-413.7	98.6	-	Beforsite	Mcb1	94	○												
404	Fb615	-386.7	98.6	-	Beforsite	Mcb1	94	○	○											
405	Fb620	-361.5	98.6	-	Beforsite	Mcb1	94	○												
406	Fb625	-336.9	98.6	-	Beforsite	Mcb1	94	○												
407	Fb700	-312.0	98.6	-	Beforsite	Mcb1	94	○	○											
408	Fb705	-284.2	98.6	-	Beforsite	Mcb1	94	○												
409	Fb710	-258.7	98.6	-	Beforsite	Mcb1	94	○												
410	Fb715	-233.1	98.6	-	Beforsite	Mcb1	94	○	○											
411	Fb720	-208.2	98.6	-	Fenite, Agt-Phl	Mfn	94	○												
412	Fc310	-851.9	33.1	-	Beforsite	Mcb1	94	○												
413	Fc320	-802.0	33.1	-	Beforsite	Mcb1	94	○												
414	Fc400	-751.4	33.1	-	Beforsite	Mcb1	94	○	○											
415	Fc410	-704.2	33.1	-	Beforsite	Mcb1	94	○	○											
416	Fc415	-677.5	34.1	-	Beforsite	Mcb1	94	○	○											
417	Fc420	-653.5	33.1	-	Beforsite	Mcb1	94	○												
418	Fc425	-628.4	30.1	-	Beforsite	Mcb1	94	○												
419	Fc500	-604.2	33.1	-	Beforsite	Mcb1	94	○	○											
420	Fc505	-578.9	31.1	-	Beforsite	Mcb1	94	○												
421	Fc510	-554.3	33.1	-	Beforsite	Mcb1	94	○												
422	Fc515	-529.3	33.1	-	Beforsite	Mcb1	94	○	○											
423	Fc520	-504.5	33.1	-	Beforsite	Mcb1	94	○												
424	Fc525	-479.5	33.1	-	Beforsite	Mcb1	94	○												
425	Fc600	-454.3	33.1	-	Beforsite	Mcb1	94	○	○											
426	Fc605	-429.2	33.1	-	Beforsite	Mcb1	94	○												
427	Fc610	-404.2	33.1	-	Beforsite	Mcb1	94	○												
428	Fc615	-379.3	33.1	-	Beforsite	Mcb1	94	○	○											
429	Fc620	-354.4	33.1	-	Beforsite	Mcb1	94	○												
430	Fc625	-330.0	33.1	-	Beforsite	Mcb1	94	○												
431	Fc700	-305.2	33.1	-	Beforsite	Mcb1	94	○												
432	Fc705	-274.4	37.9	-	Beforsite	Mcb1	94	○												
433	Fc710	-249.8	37.9	-	Beforsite	Mcb1	94	○											○	
434	Fc715	-225.0	37.9	-	Beforsite	Mcb1	94	○	○											
435	Fc720	-200.0	37.9	-	Beforsite	Mcb1	94	○												
436	G 200	-1060.0	122.1	-	Fenite (no quartz)	Ngn	93	○												
437	G 300	-910.0	122.1	-	Syenite, Ne with Cal matrix	Msu	93	○												
438	G 310	-860.0	122.1	-	Syenite, Ne	Msu	93	○												
439	G 320	-810.0	122.1	-	Syenite(1), beforsite vein(2)	Msu	93	○												
440	G 400	-760.0	122.1	-	Beforsite, Phl	Mcb1	93	○						○						
441	G 410	-710.0	122.1	-	Beforsite, Phl	Mcb1	93	○												
442	G 415	-685.0	122.1	-	Beforsite	Mcb1	94	○												
443	G 420	-660.0	122.1	-	Beforsite	Mcb1	93	○												
444	G 425	-635.0	122.1	-	Beforsite	Mcb1	94	○												
445	G 500	-610.0	122.1	-	Beforsite	Mcb1	93	○												
446	G 505	-585.0	122.1	-	Beforsite	Mcb1	94	○												
447	G 510	-560.0	122.1	-	Beforsite	Mcb1	93	○												
448	G 515	-535.0	122.1	-	Beforsite	Mcb1	94	○												
449	G 520	-510.0	122.1	-	Beforsite	Mcb1	93	○												
450	G 525	-485.0	122.1	-	Beforsite	Mcb1	94	○												
451	G 600	-460.0	122.1	-	Beforsite	Mcb1	93	○												
452	G 605	-444.3	128.3	-	Beforsite	Mcb1	94	○												
453	G 610	-410.0	122.1	-	Beforsite, Phl	Mcb1	93	○												
454	G 615	-385.1	122.1	-	Beforsite	Mcb1	94	○												
455	G 620	-360.0	122.4	-	Beforsite	Mcb1	93	○												
456	G 625	-335.6	122.1	-	Beforsite	Mcb1	94	○												
457	G 700	-311.7	125.1	-	Beforsite	Mcb1	93	○												
458	G 705	-288.5	122.1	-	Beforsite	Mcb1	94	○												
459	G 710	-267.6	128.6	-	Beforsite, Phl	Mcb1	93	○												
460	G 715	-235.3	122.1	-	Syenite, Agt	Msu	94	○												
461	G 720	-210.0	122.1	-	Sovite-beforsite, Phl	Mcs	93	○						○						
462	G 800	-160.0	122.1	-	Syenite	Msu	93	○												
463	G 900	-10.0	122.1	-	Gneiss, Qtz-Fd, fenitised	Ngn	93	○												
464	Ga310	-877.2	214.5	-	Syenite, Ne	Msu	93	○												
465	Ga320	-827.2	214.5	-	Syenite, Ne	Msu	93	○												
466	Ga400	-777.2	214.5	-	Beforsite dyke with Phl	Mcd	93	○												
467	Ga410	-727.2	214.5	-	Syenite	Msu	93	○												
468	Ga415	-702.2	214.5	-	Syenite, fenitised	Msu	94	○												
469	Ga420	-677.6	212.9	-	Beforsite, Phl	Mcb1	93	○												
470	Ga425	-655.1	214.5	-	Beforsite	Mcb1	94	○												
471	Ga500	-630.1	210.5	-	Beforsite	Mcb1	93	○												
472	Ga505	-605.1	214.5	-	Beforsite	Mcb1	94	○												
473	Ga510	-573.0	213.0	-	Beforsite	Mcb1	93	○												

B-1 List of Samples from the Orange Area (7)

No.	Sample No.	X m	Y m	Depth m	Rock Name	Rock Code	Analytical methods														
							Year	REE	WR	TS	PS	PO	XR	EA	IA	PA					
474	Ga515	-548.0	213.0	-	Beforsite	Mcbl	94	○													
475	Ga520	-522.7	210.2	-	Beforsite	Mcbl	93	○													
476	Ga525	-498.1	213.0	-	Beforsite	Mcbl	94	○													
477	Ga600	-474.0	210.2	-	Beforsite	Mcbl	93	○													
478	Ga605	-447.8	213.0	-	Beforsite	Mcbl	94	○													
479	Ga610	-422.7	212.5	-	Beforsite	Mcbl	93	○													
480	Ga615	-397.4	213.0	-	Beforsite	Mcbl	94	○													
481	Ga620	-371.8	211.0	-	Sovite, Phl-Px	Mcs	93	○												○	
482	Ga625	-347.5	213.0	-	Syenite, Agt-Ne	Msu	94	○													
483	Ga700	-322.5	213.0	-	Syenite, Ne with Cal matrix	Msu	93	○													
484	Ga710	-297.5	213.0	-	Sovite, Agt-Phl rich	Mcs	93	○												○	
485	Ga720	-272.5	213.0	-	Sovite	Mcs	93	○												○	
486	Gb500	-615.5	239.9	-	Beforsite	Mcbl	94	○	○												
487	Gb505	-590.6	239.9	-	Beforsite	Mcbl	94	○													
488	Gb510	-558.4	239.9	-	Beforsite	Mcbl	94	○													
489	Gb515	-533.4	239.9	-	Beforsite, Gn bearing	Mcbl	94	○	○				○							○	
490	Gb520	-508.5	239.9	-	Beforsite	Mcbl	94	○													
491	Gb525	-483.6	239.9	-	Beforsite	Mcbl	94	○													
492	Gb600	-458.5	239.9	-	Beforsite	Mcbl	94	○	○												
493	Gb605	-433.2	239.9	-	Beforsite	Mcbl	94	○													
494	Gb610	-408.0	239.9	-	Beforsite	Mcbl	94	○													
495	Gc400	-769.5	166.2	-	Beforsite	Mcbl	94	○	○												
496	Gc410	-719.5	166.2	-	Beforsite	Mcbl	94	○													
497	Gc415	-694.7	166.2	-	Beforsite	Mcbl	94	○	○												
498	Gc420	-669.7	166.2	-	Beforsite	Mcbl	94	○													
499	Gc425	-643.8	166.2	-	Beforsite	Mcbl	94	○													
500	Gc500	-619.7	166.2	-	Beforsite	Mcbl	94	○	○												
501	Gc505	-594.6	166.2	-	Beforsite	Mcbl	94	○													
502	Gc510	-569.8	166.2	-	Beforsite	Mcbl	94	○													
503	Gc515	-545.2	166.2	-	Beforsite	Mcbl	94	○	○												
504	Gc520	-519.7	163.2	-	Beforsite	Mcbl	94	○													
505	Gc525	-495.1	166.2	-	Beforsite	Mcbl	94	○													
506	Gc600	-470.0	166.2	-	Beforsite	Mcbl	94	○	○												
507	Gc605	-444.3	166.2	-	Beforsite	Mcbl	94	○													
508	Gc610	-419.6	166.2	-	Beforsite	Mcbl	94	○													
509	Gc615	-385.1	166.2	-	Beforsite	Mcbl	94	○	○												
510	Gc620	-366.6	166.2	-	Beforsite	Mcbl	94	○													
511	Gc625	-342.3	166.2	-	Beforsite	Mcbl	94	○													
512	Gc700	-317.3	166.2	-	Beforsite	Mcbl	94	○	○												
513	Gc705	-292.4	166.2	-	Beforsite	Mcbl	94	○													
514	Gc710	-267.6	166.2	-	Granule conglomerate	Oth	94	○													
515	H 200	-1063.3	278.3	-	Gneiss, Qtz-Fd, fenitised	Ngn	93	○													
516	H 300	-913.3	278.3	-	Sovite, Px-Phl-Ne	Mcs	93	○													
517	H 400	-763.3	278.3	-	Syenite, Ne	Msu	93	○													
518	H 500	-613.3	278.3	-	Sovite, Px-Ne-Phl	Mcs	93	○													
519	H 600	-463.3	278.3	-	Sovite, Phl-Agt	Mcs	93	○													
520	H 700	-313.3	278.3	-	Sovite, Px-Ne-Phl	Mcs	93	○	○	○										○	
521	H 800	-163.3	278.3	-	Px-Fd rock, coarse grained	Msu	93	○													
522	I 100	-1186.8	413.5	-	Gneiss, Qtz-Fd, bre.	Ngn	93	○													
523	I 300	-929.3	413.5	-	Gneiss, Qtz-Fd	Ngn	93	○													
524	I 500	-629.3	413.5	-	Syenite, porphyritic	Msu	93	○	○	○										○	
525	I 600	-496.8	413.5	-	Sovite, banded	Mcs	93	○													
526	I 700	-329.3	413.5	-	Syenite - albitite	Msu	93	○													
527	I 800	-179.3	413.5	-	Syenite, porphyritic	Msr	93	○	○	○										○	
528	I 900	-29.3	413.5	-	Gneiss, Qtz-Fd	Ngn	93	○													
529	Ia710	-266.3	501.4	-	Syenite, Hbl-Ne	Msu	93	○													
530	Ia720	-196.4	501.4	-	Gneiss, Qtz-Fd, fenitised	Ngn	93	○													
531	Ia800	-166.2	501.4	-	Gneiss, Qtz-Fd	Ngn	93	○													
532	Ia810	-116.0	501.4	-	Gneiss, Qtz-Fd	Ngn	93	○													
533	Ia820	-65.6	501.4	-	Gneiss, Qtz-Fd	Ngn	93	○													
534	Ia900	-28.2	508.5	-	Beforsite	Mcbl	93	○													
535	J 400A	-345.6	592.7	-	Iron ore, Mag-Hem	Mcs	93	○												○	○
536	J 200	-1025.2	590.2	-	Gneiss, Qtz-Fd	Ngn	93	○													
537	J 400	-726.0	592.5	-	Sovite	Mcs	93	○													
538	J 500	-571.0	593.8	-	Sovite, Hbl	Mcs	93	○													
539	J 600	-426.2	594.7	-	Sovite, Phl	Mcs	93	○													
540	J 700	-270.6	596.0	-	Gneiss, Qtz-Fd	Ngn	93	○													
541	J 710	-224.6	596.4	-	Sovite-beforsite	Mcs	93	○													
542	J 720	-166.4	597.8	-	Gneiss, Qtz-Fd	Ngn	93	○													
543	J 800	-121.5	602.2	-	Gneiss, Qtz-Fd	Ngn	93	○													
544	J 820	-18.9	599.6	-	Granitic rock, leuco-	Mgr	93	○													○
545	J 900	-26.8	587.6	-	Granitic rock	Mgr	93	○	○	○										○	○
546	Ja800A	-111.1	658.0	-	Trachyte-dacite, siliceous dyke	Ktd	93	○													○
547	Ja710	-265.2	653.5	-	Gneiss, Qtz-Fd	Ngn	93	○													
548	Ja715	-238.4	653.5	-	Granophyre	Mgr	94	○	○												
549	Ja720	-216.4	653.5	-	Sovite, Phl-Hbl	Mcs	93	○													
550	Ja725	-188.6	653.5	-	Granophyre	Mgr	94	○													
551	Ja800	-165.1	652.0	-	Beforsite	Mcbl	93	○													
552	Ja805	-138.3	653.5	-	Syenite, cut by green network	Msu	94	○													

B-1 List of Samples from the Orange Area (8)

No.	Sample No.	X m	Y m	Depth m	Rock Name	Rock Code	Analytical methods														
							Year	REE	WR	TS	PS	PO	XR	EA	IA	PA					
553	Ja810	-113.6	653.5	-	Gneiss, Qtz-Fd, fenitised	Ngn	93	○													
554	Ja815	-88.5	653.5	-	Beforsite, Ap	Mcb2	94	○													
555	Ja820	-63.5	653.5	-	Beforsite, Agt-Dol	Mcb2	93	○													
556	Ja825	-39.0	653.5	-	Beforsite, Ap	Mcb2	94	○													
557	Ja900	-14.0	653.5	-	Beforsite, Ank	Mcb2	93	○													
558	Ja905	10.6	653.5	-	Beforsite, Ap	Mcb2	94	○													
559	Jb720	-215.1	686.8	-	Sovite, Ap-Agt	Mcs	94	○													
560	Jb725	-190.5	686.8	-	Beforsite, Ap	Mcb2	94	○													
561	Jb800	-165.9	686.8	-	Beforsite, Agt	Mcb2	94	○	○												
562	Jb805	-141.3	686.8	-	Beforsite, Ap	Mcb2	94	○													
563	Jb810	-115.9	686.8	-	Beforsite, Ap	Mcb2	94	○													
564	Jb815	-90.8	686.8	-	Beforsite	Mcb2	94	○	○												
565	Jb820	-65.4	686.8	-	Beforsite	Mcb2	94	○													
566	Jb825	-40.8	686.8	-	Quartzite	Nsh	94	○													
567	Jb900	-16.0	686.8	-	Beforsite	Mcb2	94	○													
568	Jb910	33.5	686.8	-	Beforsite, Ap	Mcb2	94	○													
569	K 400A	-612.8	876.5	-	Sovite, Bt	Mcs	93	○	○	○											
570	K 800A	-23.0	722.1	-	Andesite-Fine granophyre?	Ktd	93			○	○										
571	K 800B	-55.0	719.9	-	Dolerite	Kdd	93			○											
572	K 100	-1172.8	727.6	-	Gneiss, Qtz-Pd	Ngn	93	○													
573	K 200	-1023.5	728.3	-	Gneiss, Qtz-Fd, fenitised	Ngn	93	○													
574	K 300	-874.5	697.8	-	Sovite, Phl	Mcs	93	○													
575	K 500	-598.2	725.6	-	Syenite, Agt-Phl-Ne	Msu	93	○	○	○											
576	K 600	-454.8	724.3	-	Sovite, Agt?	Mcs	93	○													
577	K 700	-287.9	724.1	-	Sovite-beforsite	Mcs	93	○													
578	K 710	-261.0	724.0	-	Gneiss, Qtz-Fd	Ngn	93	○													
579	K 720	-205.7	723.8	-	Gneiss, Qtz-Fd	Ngn	93	○													
580	K 725	-182.7	719.4	-	Gneiss, Qtz-Fd, fenitised	Ngn	94	○													
581	K 800	-156.3	721.2	-	Beforsite, Ap	Mcb2	93	○													
582	K 805	-131.3	719.4	-	Beforsite, Ap	Mcb2	94	○													
583	K 810	-100.0	720.3	-	Beforsite, Dol	Mcb2	93	○													
584	K 815	-74.1	716.4	-	Beforsite	Mcb2	94	○													
585	K 820	-50.6	719.8	-	Beforsite, Dol	Mcb2	93	○													
586	K 825	-24.5	719.4	-	Trachyte	Ktd	94	○	○												
587	K 900	0.0	719.4	-	Beforsite, cut by Carbonate vein	Mcb2	93	○	○	○											
588	Ka600A	-394.0	831.1	-	Syenite, Px	Msu	93	○													
589	Ka110	-1133.8	807.5	-	Syenite-albite, bre.	Msw	93	○													
590	Ka120	-1083.8	807.5	-	Syenite-albite, bre.	Msw	93	○													
591	Ka200	-1033.8	807.5	-	Syenite, porphyritic	Msp	93	○													
592	Ka210	-991.8	807.5	-	Syenite, porphyritic	Msp	93	○													
593	Ka220	-938.8	817.5	-	Syenite, porphyritic	Msw	93	○													
594	Ka610	-394.0	806.7	-	Syenite, Phl-Px	Msu	93	○													
595	Ka620	-341.4	806.7	-	Sovite, Phl-Px	Mcs	93	○													
596	Ka700	-290.7	806.7	-	Sovite, Phl, banded	Mcs	93	○													
597	Ka710	-240.8	806.6	-	Beforsite-sovite(?), Phl	Mcb2	93	○													
598	Ka715	-221.9	803.3	-	Fenite, gneiss origin?	Mfn	94	○													
599	Ka720	-190.4	806.6	-	Beforsite, Phl-Ap-Dol	Mcb2	93	○													
600	Ka725	-171.3	803.3	-	Beforsite	Mcb2	94	○													
601	Ka800	-140.6	806.5	-	Beforsite, Ap-Dol	Mcb2	93	○													
602	Ka805	-121.7	803.3	-	Beforsite	Mcb2	94	○													
603	Ka810	-96.8	803.3	-	Beforsite, Cal bearing Phl	Mcb2	93	○													
604	Ka815	-74.9	797.3	-	Beforsite, Ap	Mcb2	94	○													
605	Ka820	-50.0	797.3	-	Beforsite, Phl	Mcb2	93	○													
606	Ka825	-25.2	797.3	-	Beforsite, Ap	Mcb2	94	○													
607	Ka900	1.2	797.3	-	Beforsite	Mcb2	93	○													
608	Kb610	-391.0	837.8	-	Syenite, Agt	Msu	94	○													
609	Kb620	-338.3	836.8	-	Beforsite, Cal bearing	Mcb2	94	○	○												
610	Kb700	-290.3	837.8	-	Shale, black hard	Nsh	94	○													
611	Kb710	-237.5	834.8	-	Fenite, gneiss origin?	Mfn	94	○													
612	Kb715	-212.5	835.8	-	Beforsite	Mcb2	94	○	○												
613	Kb720	-189.6	837.8	-	Beforsite	Mcb2	94	○													
614	Kb725	-161.4	840.8	-	Beforsite	Mcb2	94	○													
615	Kb800	-139.6	837.8	-	Beforsite	Mcb2	94	○													
616	Kb805	-115.1	837.8	-	Beforsite	Mcb2	94	○													
617	Kb810	-93.0	834.8	-	Beforsite	Mcb2	94	○													
618	Kb815	-65.6	837.8	-	Beforsite	Mcb2	94	○	○												
619	Kb820	-40.7	836.8	-	Beforsite	Mcb2	94	○													
620	Kc720	-208.7	763.1	-	Beforsite	Mcb2	94	○													
621	Kc725	-180.5	763.1	-	Beforsite	Mcb2	94	○													
622	Kc800	-157.8	765.1	-	Beforsite	Mcb2	94	○	○												
623	Kc805	-130.6	762.1	-	Beforsite	Mcb2	94	○													
624	Kc810	-105.8	762.6	-	Beforsite	Mcb2	94	○													
625	Kc815	-80.1	762.1	-	Beforsite	Mcb2	94	○	○												
626	Kc820	-55.4	765.1	-	Beforsite	Mcb2	94	○													
627	Kc825	-31.4	762.1	-	Beforsite	Mcb2	94	○													
628	Kc900	-5.5	762.1	-	Beforsite	Mcb2	94	○													
629	L 800A	-146.2	874.6	-	Hbl, green network	Nsh	93														
630	L 100	-1179.5	884.2	-	Gneiss, Qtz-Fd, fenitised	Ngn	93	○													
631	L 110	-1129.5	884.2	-	Syenite, porphyritic	Msw	93	○	○	○											

B-1 List of Samples from the Orange Area (9)

No.	Sample No.	X m	Y m	Depth m	Rock Name	Rock Code	Analytical methods														
							Year	REE	WR	TS	PS	PO	XR	EA	IA	PA					
632	L 120	-1079.5	884.2	-	Syenite, porphyritic	Msw	93	○													
633	L 200	-1029.5	884.2	-	Syenite, porphyritic	Msp	93	○							○						
634	L 210	-979.5	884.2	-	Syenite, porphyritic	Msp	93	○													
635	L 220	-922.5	876.5	-	Syenite - albitite	Msp	93	○													
636	L 600	-419.4	883.1	-	Sovite, Px	Mcs	93	○													
637	L 610	-386.7	883.0	-	Syenite ?	Msu	93	○													
638	L 615	-368.0	874.6	-	Sovite	Mcs	94	○													
639	L 620	-345.2	890.0	-	Beforsite-sovite	Mcb2	93	○							○						
640	L 625	-314.7	874.6	-	Dolerite	Xdd	94	○	○												
641	L 700	-290.7	875.0	-	Gneiss, Qtz-Fd	Ngn	93	○													
642	L 705	-267.7	874.6	-	Beforsite/sovite	Mcb2	94	○													
643	L 710	-241.8	869.9	-	Beforsite	Mcb2	93	○													
644	L 715	-222.7	874.6	-	Beforsite, Ap	Mcb2	94	○												○	
645	L 720	-193.6	874.8	-	Beforsite	Mcb2	93	○													
646	L 725	-173.3	874.6	-	Beforsite	Mcb2	94	○													
647	L 800	-147.9	874.6	-	Beforsite	Mcb2	93	○	○	○					○						
648	L 805	-122.9	874.5	-	Beforsite	Mcb2	94	○													
649	L 810	-98.1	874.5	-	Beforsite	Mcb2	93	○													
650	L 820	-48.2	874.5	-	Beforsite, Dol	Mcb2	93	○													
651	L 900	-0.1	874.5	-	Shale, black hard	Nsh	93	○							○						
652	La200A	1006.8	965.5	-	Beforsite/sovite	Mcd	94	○													○
653	La120	-1083.8	951.5	-	Syenite, porphyritic	Msp	93	○													
654	La200	-1033.8	951.5	-	Syenite, porphyritic	Msp	93	○	○	○					○	○					
655	La210	-983.8	951.5	-	Syenite, porphyritic	Msp	93	○													
656	La220	-933.8	951.5	-	Sovite	Mcs	93	○													
657	La610	-390.0	950.0	-	Sovite-beforsite, Px-Phl	Mcs	93	○													
658	La615	-368.8	950.1	-	Beforsite	Mcb2	94	○													
659	La620	-343.6	950.2	-	Sovite-beforsite, Px-Phl	Mcs	93	○													○
660	La625	-317.4	950.2	-	Beforsite	Mcb2	94	○													
661	La700	-291.1	950.2	-	Beforsite, Ap	Mcb2	93	○													
662	La710	-243.4	953.3	-	Beforsite	Mcb2	93	○													
663	La715	-219.3	950.3	-	Beforsite	Mcb2	94	○													
664	La720	-195.2	950.3	-	Beforsite	Mcb2	93	○													
665	La725	-170.4	950.3	-	Beforsite	Mcb2	94	○													
666	La800	-145.5	950.4	-	Beforsite, Ap	Mcb2	93	○													
667	La805	-121.0	950.4	-	Beforsite	Mcb2	94	○													
668	La810	-96.4	950.4	-	Quartzite, bre.	Nsh	93	○													
669	La900	2.4	950.4	-	Shale, black hard	Nsh	93	○													
670	Lb605	-419.5	992.0	-	Beforsite	Mcb2	94	○	○												
671	Lb610	-394.5	997.0	-	Beforsite	Mcb2	94	○													
672	Lb615	-371.2	993.5	-	Beforsite	Mcb2	94	○	○												
673	Lb620	-344.9	992.0	-	Beforsite	Mcb2	94	○													
674	Lb625	-319.3	992.0	-	Beforsite, Ap-Agt	Mcb2	94	○							○					○	○
675	Lb700	-291.3	993.0	-	Beforsite	Mcb2	94	○	○												
676	Lb705	-269.6	992.0	-	Beforsite	Mcb2	94	○													
677	Lb710	-244.6	997.0	-	Beforsite	Mcb2	94	○													
678	Lb715	-217.0	994.0	-	Beforsite	Mcb2	94	○	○												
679	Lb720	-194.5	994.0	-	Beforsite	Mcb2	94	○													
680	Lb725	-168.7	992.0	-	Beforsite	Mcb2	94	○													
681	Lb800	-144.8	992.0	-	Beforsite	Mcb2	94	○	○												
682	Lb805	-120.1	990.0	-	Beforsite	Mcb2	94	○													
683	Lc610	-394.5	912.5	-	Sovite	Mcs	94	○													
684	Lc615	-369.5	912.5	-	Sovite	Mcs	94	○	○												
685	Lc620	-344.5	912.5	-	Beforsite	Mcb2	94	○													
686	Lc625	-319.5	912.5	-	Beforsite	Mcb2	94	○							○					○	○
687	Lc700	-294.5	912.5	-	Beforsite	Mcb2	94	○	○												
688	Lc705	-269.5	912.5	-	Beforsite	Mcb2	94	○													
689	Lc710	-244.5	912.5	-	Beforsite	Mcb2	94	○													
690	Lc715	-219.5	912.5	-	Beforsite	Mcb2	94	○	○												
691	Lc720	-194.5	912.5	-	Beforsite	Mcb2	94	○													
692	Lc725	-169.5	912.5	-	Beforsite	Mcb2	94	○													
693	Lc800	-144.5	912.5	-	Beforsite	Mcb2	94	○	○												
694	Lc805	-119.5	912.5	-	Beforsite	Mcb2	94	○													
695	M 100	-1179.8	1026.5	-	Syenite-albitite, bre.	Msw	93	○													
696	M 110	-1133.8	1026.5	-	Syenite-albitite, bre.	Msw	93	○													
697	M 120	-1083.8	1026.5	-	Syenite, porphyritic, bre.	Msw	93	○													
698	M 200	-1033.8	1026.5	-	Syenite	Msp	93	○													
699	M 210	-983.8	1026.5	-	Syenite	Msp	93	○													○
700	M 220	-933.8	1026.5	-	Sovite, Hbl	Mcd	93	○	○	○											○
701	M 300	-883.8	1027.4	-	Sovite	Mcs	93	○													
702	M 400	-732.4	1031.7	-	Sovite-beforsite, Px-Phl	Mcs	93	○													
703	M 500	-579.4	1027.9	-	Sovite	Mcs	93	○													
704	M 600	-422.3	1028.2	-	Sovite	Mcs	93	○													
705	M 605	-402.0	1028.2	-	Beforsite	Mcb2	94	○													
706	M 610	-375.8	1028.3	-	Beforsite	Mcb2	93	○													
707	M 615	-350.8	1038.2	-	Beforsite	Mcb2	94	○													
708	M 620	-325.9	1028.5	-	Beforsite, Ap-Ank	Mcb2	93	○													
709	M 625	-305.3	1028.2	-	Beforsite	Mcb2	94	○													
710	M 700	-288.2	1028.6	-	Beforsite, Hbl	Mcb2	93	○													

B-1 List of Samples from the Orange Area (10)

No.	Sample No.	X	Y	Depth	Rock Name	Rock Code	Analytical methods														
							Year	REE	WE	TS	PS	PO	XR	EA	IA	PA					
711	M 705	-261.9	1028.9	-	Beforsite	Mcb2	94	○													
712	M 710	-239.2	1028.7	-	Beforsite, Phl-Ank	Mcb2	93	○	○	○					○						
713	M 715	-213.7	1027.9	-	Beforsite	Mcb2	94	○													
714	M 720	-194.5	1028.9	-	Beforsite, Ank	Mcb2	93	○													
715	M 725	-174.6	1028.9	-	Beforsite	Mcb2	94	○													
716	M 800	-159.5	1028.9	-	Beforsite	Mcb2	93	○													
717	M 805	-130.0	1028.9	-	Beforsite, Cal bearing	Mcb2	94	○													
718	M 810	-98.0	1028.9	-	Shale, black hard	Nsh	93	○													
719	M 900	3.2	1028.9	-	Quartzite-grit	Nsh	93	○													
720	Ma600A	-415.9	1110.5	-	Apatite ?	Mcb2	93								○						
721	Ma120	-1075.8	1101.5	-	Syenite, porphyritic	Msw	93	○													
722	Ma200	-1033.8	1101.5	-	Syenite, porphyritic	Msp	93	○													
723	Ma210	-983.8	1101.5	-	Syenite, porphyritic	Msp	93	○													
724	Ma220	-933.8	1101.5	-	Syenite, porphyritic	Msp	93	○													
725	Ma225	-908.0	1101.5	-	Sovite	Mcs	94													○	
726	Ma510	-544.3	1111.1	-	Sovite	Mcs	93	○							○						
727	Ma520	-493.2	1110.9	-	Sovite, Hbl	Mcs	93	○													
728	Ma525	-457.6	1109.6	-	Beforsite, Cal bearing	Mcb2	94	○													
729	Ma600	-433.9	1110.6	-	Beforsite, Cal bearing	Mcb2	93	○													
730	Ma605	-408.3	1109.6	-	Beforsite	Mcb2	94	○													
731	Ma610	-384.2	1110.3	-	Beforsite, Cal bearing	Mcb2	93	○													
732	Ma615	-357.7	1109.6	-	Beforsite	Mcb2	94	○													
733	Ma620	-333.4	1110.1	-	Beforsite, Dol	Mcb2	93	○													
734	Ma625	-309.2	1109.6	-	Beforsite	Mcb2	94	○													
735	Ma700	-282.2	1109.6	-	Beforsite, Dol-Ank	Mcb2	93	○													
736	Ma710	-252.2	1112.8	-	Beforsite-sovite, Dol	Mcb2	93	○							○						
737	Ma715	-216.4	1112.8	-	Beforsite, Ap-Cal bearing	Mcb2	94	○													
738	Ma720	-195.6	1112.8	-	Shale, siliceous-calcareous	Nsh	93	○													
739	Ma800	-147.0	1112.8	-	Gneiss, Qtz-Fd	Ngn	93	○													
740	Ma820	-47.5	1112.8	-	Quartzite-chert	Nsh	93	○													
741	Mb525	-475.4	1148.4	-	Beforsite	Mcb2	94	○													
742	Mb600	-450.4	1148.4	-	Beforsite	Mcb2	94	○	○												
743	Mb605	-425.4	1148.4	-	Beforsite	Mcb2	94	○													
744	Mb610	-400.4	1148.4	-	Beforsite, Ap?	Mcb2	94	○													
745	Mb615	-375.4	1148.4	-	Beforsite	Mcb2	94	○	○												
746	Mb620	-350.4	1148.4	-	Beforsite	Mcb2	94	○													
747	Mb625	-325.4	1148.4	-	Beforsite	Mcb2	94	○													
748	Mb700	-300.4	1148.4	-	Beforsite	Mcb2	94	○	○												
749	Mb705	-275.4	1148.4	-	Beforsite	Mcb2	94	○													
750	Mc525	-505.5	1069.3	-	Sovite	Mcs	94	○													
751	Mc600	-480.5	1069.3	-	Beforsite	Mcb2	94	○	○												
752	Mc605	-455.5	1069.3	-	Beforsite/sovite	Mcb2	94	○													
753	Mc610	-430.5	1069.3	-	Beforsite	Mcb2	94	○													
754	Mc615	-405.5	1069.3	-	Beforsite	Mcb2	94	○	○												
755	Mc620	-380.5	1069.3	-	Beforsite	Mcb2	94	○													
756	Mc625	-355.5	1069.3	-	Beforsite	Mcb2	94	○													
757	Mc700	-330.5	1069.3	-	Beforsite	Mcb2	94	○	○												
758	Mc705	-305.5	1069.3	-	Beforsite	Mcb2	94	○													
759	Mc710	-280.5	1069.3	-	Beforsite	Mcb2	94	○													
760	Mc715	-255.5	1069.3	-	Beforsite	Mcb2	94	○	○												
761	Mc720	-230.5	1069.3	-	Beforsite	Mcb2	94	○													
762	Mc725	-205.5	1069.3	-	Beforsite	Mcb2	94	○													
763	Mc800	-180.5	1069.3	-	Beforsite	Mcb2	94	○	○												
764	Mc805	-155.5	1069.3	-	Sovite	Mcs	94	○													
765	N 10-1	-1184.5	1186.5	-	An-Ca network	Mcd	93								○						
766	N 190A	-1184.5	1246.5	-	Hbl, greenish	Msw	93								○						
767	N 820A	-884.6	1190.6	-	Sovite	Mcs	93							○							
768	N 100	-1184.5	1186.5	-	Syenite/gneiss, bre.	Ngn	93								○						
769	N 110	-1159.5	1186.5	-	Syenite, Ne?	Msp	93								○						
770	N 120	-1109.8	1186.5	-	Syenite, leuco-	Msw	93								○						
771	N 200	-1059.1	1186.5	-	Syenite, porphyritic	Msw	93	○													
772	N 210	-1007.5	1186.5	-	Syenite	Msp	93	○													
773	N 220	-959.4	1186.5	-	Syenite	Msp	93	○	○	○				○	○						
774	N 400	-756.6	1185.5	-	Sovite, Hbl	Mcs	93	○							○						
775	N 520	-500.6	1183.1	-	Beforsite, Dol	Mcb2	93								○						
776	N 525	-475.4	1182.9	-	Beforsite, Py bearing	Mcb2	94	○													
777	N 600	-450.1	1182.6	-	Beforsite, Dol	Mcb2	93,94	○													
778	N 605	-426.2	1182.4	-	Beforsite	Mcb2	94	○													
779	N 610	-410.2	1185.1	-	Beforsite	Mcb2	93	○													
780	N 615	-377.2	1181.6	-	Beforsite	Mcb2	94	○													
781	N 620	-352.1	1181.1	-	Beforsite	Mcb2	93,94	○													
782	N 625	-327.1	1180.9	-	Beforsite	Mcb2	94	○													
783	N 700	-302.1	1180.6	-	Beforsite	Mcb2	93	○							○						
784	N 705	-274.7	1183.6	-	Syenite, bre., carbonatised	Msu	94	○													
785	N 710	-284.7	1183.6	-	Syenite, bre., carbonatised	Msu	94	○													
786	N 720	-204.3	1187.6	-	Beforsite, Phl	Mcb2	93	○							○						
787	N 800	-147.4	1189.8	-	Sovite-beforsite	Mcs	93								○	○					
788	N 820	-47.5	1187.8	-	Bre. rock with Cal network	Nsh	93	○							○						
789	N 900	4.5	1187.8	-	Gneiss, Qtz-Fd	Ngn	93	○													

B-1 List of Samples from the Orange Area (11)

No.	Sample No.	X	Y	Depth	Rock Name	Rock Code	Year	Analytical methods												
								REE	WR	TS	PS	PO	XR	EA	IA	PA				
790	Na 20A	1038.1	1261.2	-	Feldspar, mega-crystal	Msw	93													
791	Na110	1141.9	1261.2	-	Syenite, leuco-	Msw	93													
792	Na120	1087.9	1261.2	-	Syenite, with Pd mega-crystal	Msw	93													
793	Na200	1038.1	1261.2	-	Syenite, Hbl	Msw	93													
794	Na210	-988.0	1261.2	-	Syenite cut by Cal network	Msw	93													
795	Na220	-936.4	1261.2	-	Syenite, Bt-(Ne?)	Msp	93													
796	Na510	-544.3	1261.2	-	Syenite ?	Msw	93													
797	Na520	-492.0	1261.7	-	Beforsite, Cal bearing	Mcb2	93													
798	Na600	-437.9	1262.2	-	Bre. rock cut by Cal veins	Msw	93													
799	Na610	-386.5	1262.7	-	Beforsite cut by Ank network	Mcb2	93													
800	Na620	-335.5	1263.0	-	Syenite, leuco-	Msw	93													
801	Na700	-302.6	1263.2	-	Syenite, porphyritic	Msw	93													
802	Na710	-252.7	1268.5	-	Green Hbl-Agt rock	Nsh	93													
803	Na720	-202.7	1263.7	-	Syenite, leuco-, cut by Ank vien	Nsh	93													
804	Na800	-148.6	1264.3	-	Hbl-Agt rock cut by An network	Nsh	93													
805	Na820	-47.5	1265.0	-	Hbl-Agt rock cut by An network	Ngn	93													
806	Nc520	-492.0	1224.4	-	Beforsite, Cal bearing	Mcb2	94													
807	Nc600	-437.9	1224.4	-	Beforsite, Cal bearing	Mcb2	94													
808	Nc610	-386.5	1224.4	-	Syenite	Msu	94													
809	Nc620	-335.5	1224.4	-	Beforsite, Cal bearing Bt	Mcb2	94													
810	Nc700	-302.6	1224.4	-	Syenite	Msu	94													
811	O 400A	-675.4	1320.2	-	Syenite, Agt	Msw	93													
812	O 100	-1184.5	1337.6	-	Syenite, Ne porphyritic	Msw	93													
813	O 200	-1038.1	1337.6	-	Syenite, Ne porphyritic	Msw	93													
814	O 300	-907.6	1336.7	-	Syenite, Ne?-Bt-Aug	Msw	93													
815	O 400	-735.4	1320.3	-	Syenite, Bt, porphyritic	Msw	93													
816	O 500	-571.6	1319.9	-	Syenite, leuco-	Msw	93													
817	O 600	-417.5	1319.7	-	Syenite, leuco-	Msw	93													
818	O 610	-366.3	1319.6	-	Hbl-Agt rock cut by An network	Ngn	93													
819	O 620	-335.5	1335.0	-	Beforsite cut by Ank veins	Mcb2	93													
820	O 700	-285.4	1334.9	-	Gneiss, Qtz-Fd	Ngn	93													
821	O 800	-129.0	1334.6	-	Gneiss, Qtz-(Fd)	Ngn	93													
822	P 600A	-921.2	1477.7	-	Beforsite, Ank	Mcd	93													
823	P 100	-1184.5	1486.8	-	Syenite, Ne	Msw	93													
824	P 200	-1061.1	1486.3	-	Syenite, leuco-, cut by Cal veins	Msw	93													
825	P 400	-735.4	1476.4	-	Gneiss, cut by brown Cal veins	Ngn	93													
826	P 600	-438.9	1477.2	-	Gneiss, Qtz-Fd, cut by Cal veins	Ngn	93													
827	P 800	-129.0	1478.2	-	Gneiss, Bt-Qtz-Fd	Ngn	93													
828	T 1A	-172.5	-605.0	-	Beforsite, Ank	Mcd	93,94													
829	T 2A	-377.5	-458.0	-	Sovite	Mcs	93													
830	T 4A	-587.5	-180.0	-	Beforsite, Ank	Mcb1	93													
831	T 5A	-525.7	-92.2	-	Beforsite, Ank	Mcb1	93													
832	T 6A	-765.8	835.5	-	Gneiss, Qtz-Fd, fentised	Ngn	93													
833	T 7A	-1044.8	943.5	-	Syenite, Ne, porphyritic	Msp	93													
834	T 8A	-1016.8	972.5	-	Beforsite, Ank	Mcd	93													
835	T 9A	-693.8	959.7	-	Sovite, Hbl	Mcs	93,94													
836	T 10A	-89.0	-697.5	-	Gneiss, Qtz-Fd, fentised	Ngn	93													
837	T 11A	-369.3	311.3	-	Syenite	Msu	93													
838	T 12A	-203.3	548.4	-	Gneiss, Qtz-Fd, fentised	Ngn	93													
839	T 13A	-218.3	521.4	-	Sovite-beforsite	Mcs	93													
MJNO - 1																				
840	I- 0	-	-	0.0	Beforsite, weathered	Mcb1	94													
841	I- 5	-	-	5.0	Beforsite, weathered	Mcb1	94													
842	I- 10	-	-	10.0	Beforsite	Mcb1	94													
843	I- 15	-	-	15.0	Beforsite	Mcb1	94													
844	I- 20	-	-	20.0	Beforsite	Mcb1	94													
845	I- 25	-	-	25.0	Beforsite	Mcb1	94													
846	IX- 1	-	-	26.0	Beforsite	Mcb1	94													
847	I- 30	-	-	30.0	Beforsite	Mcb1	94													
848	I- 35	-	-	35.0	Beforsite, weathered	Mcb1	94													
849	I- 40	-	-	40.0	Beforsite	Mcb1	94													
850	I- 45	-	-	45.0	Beforsite	Mcb1	94													
851	I- 50	-	-	50.0	Beforsite	Mcb1	94													
852	I- 55	-	-	55.0	Arkose, Bre. & carbonated	Nsh	94													
853	I- 60	-	-	60.0	Arkose, Bre., cut by beforsite	Nsh	94													
854	IX- 2	-	-	65.0	Arkose, Bre. & carbonated	Nsh	94													
855	I- 65	-	-	65.0	Arkose, Bre. & carbonated	Nsh	94													
856	I- 70	-	-	70.0	Arkose, Bre. & carbonated	Nsh	94													
857	I- 75	-	-	75.0	Arkose, Bre. & carbonated	Nsh	94													
858	I- 80	-	-	80.0	Arkose, Bre. & carbonated	Nsh	94													
859	IT- 3	-	-	85.0	Beforsite, Py bearing	Mcb1	94													
860	I-110	-	-	110.0	Syenite, carbonated	Msu	94													
861	I-115	-	-	115.0	Syenite, carbonated	Msu	94													
862	I-117	-	-	117.3	Syenite, carbonated	Msu	94													
863	I-120	-	-	120.0	Syenite, carbonated	Msu	94													
864	I-122	-	-	122.3	Syenite, carbonated	Msu	94													
865	I-125	-	-	125.0	Syenite, carbonated	Msu	94													

B-1 List of Samples from the Orange Area (12)

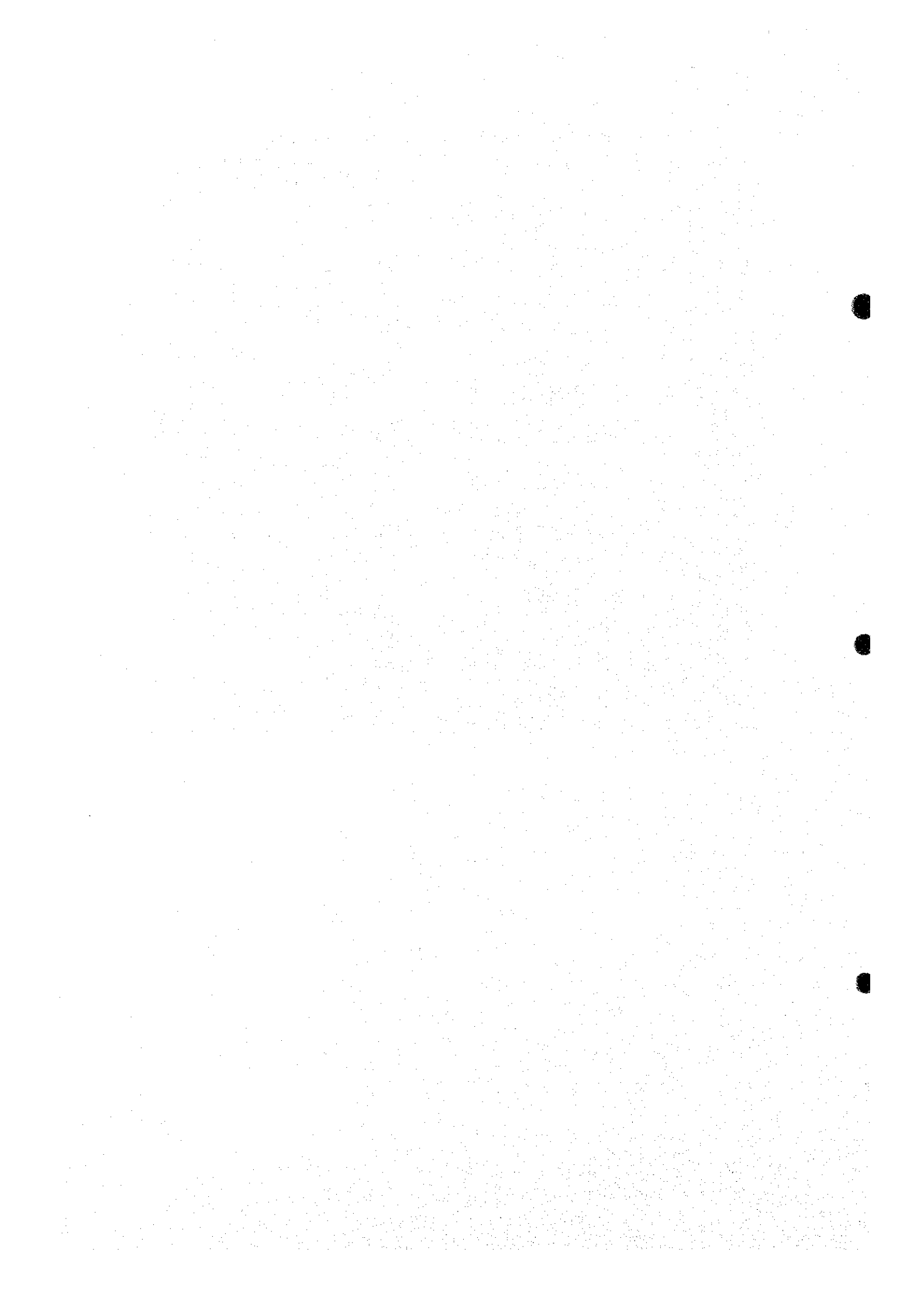
No.	Sample No.	X	Y	Depth	Rock Name	Rock Code	Year	Analytical methods												
								RRE	WR	TS	PS	PO	XB	EA	IA	PA				
865	1X- 3	-	-	126.0	Syenite, carbonated	Msu	94													
866	1-130	-	-	130.0	Syenite, carbonated	Msu	94	○	○											
867	1T- 4	-	-	131.5	Syenite, carbonated	Msu	94					○								
868	1-132	-	-	132.3	Syenite, carbonated	Msu	94	○												
869	1-135	-	-	135.0	Syenite, carbonated	Msu	94	○												
870	1-137	-	-	137.3	Syenite, carbonated	Msu	94	○												
871	1-140	-	-	140.0	Syenite, carbonated	Msu	94	○	○											
872	1-145	-	-	145.0	Syenite, carbonated	Msu	94	○												
873	1-147	-	-	147.3	Syenite, carbonated	Msu	94	○												
874	1T- 5	-	-	148.4	Syenite, carbonated	Msu	94					○								
	1X- 4	-	-										○							
875	1-150	-	-	150.0	Syenite, carbonated	Msu	94	○	○											
MJNO-2																				
876	2- 0	-	-	0.0	Beforsite, An	Mcb1	94	○												
877	2- 5	-	-	5.0	Beforsite, An	Mcb1	94	○												
878	2- 10	-	-	10.0	Beforsite, An	Mcb1	94	○												
879	2- 15	-	-	15.0	Beforsite, An	Mcb1	94	○												
	2T- 1	-	-									○								
880	2- 17	-	-	17.3	Beforsite, An	Mcb1	94	○												
881	2- 20	-	-	20.0	Beforsite, An	Mcb1	94	○	○											
882	2- 22	-	-	22.3	Beforsite, An	Mcb1	94	○												
883	2- 25	-	-	25.0	Beforsite, An	Mcb1	94	○												
884	2- 27	-	-	27.3	Beforsite, An	Mcb1	94	○												
885	2- 30	-	-	30.0	Beforsite, An	Mcb1	94	○	○											
886	2X- 1	-	-	32.2	Beforsite	Mcb1	94													○
887	2- 32	-	-	32.3	Beforsite, weathered	Mcb1	94	○												
888	2- 35	-	-	35.0	Beforsite, weathered	Mcb1	94	○												
889	2- 37	-	-	37.3	Beforsite, weathered	Mcb1	94	○												
890	2- 40	-	-	40.0	Beforsite, weathered	Mcb1	94	○	○											
891	2- 42	-	-	42.3	Beforsite, weathered	Mcb1	94	○												
892	2- 45	-	-	45.0	Beforsite, weathered	Mcb1	94	○												
893	2- 47	-	-	47.3	Beforsite, weathered	Mcb1	94	○												
894	2- 50	-	-	50.0	Beforsite, weathered	Mcb1	94	○	○											
895	2- 55	-	-	55.0	Beforsite, weathered	Mcb1	94	○												
896	2- 60	-	-	60.0	Beforsite, weathered	Mcb1	94	○	○											
897	2- 65	-	-	65.0	Beforsite, weathered	Mcb1	94	○	○											
898	2- 67	-	-	67.0	Beforsite, weathered	Mcb1	94	○												
899	2- 70	-	-	70.0	Beforsite, weathered	Mcb1	94	○	○											
900	2- 72	-	-	72.3	Beforsite, An	Mcb1	94	○												
901	2- 75	-	-	75.0	Beforsite, An	Mcb1	94	○	○											
	2T- 2	-	-									○								
902	2- 77	-	-	77.3	Beforsite, fractured	Mcb1	94	○												
903	2- 80	-	-	80.0	Beforsite, fractured	Mcb1	94	○												
904	2- 95	-	-	95.0	Beforsite, fractured	Mcb1	94	○												
905	2-109	-	-	109.0	Beforsite, fractured	Mcb1	94	○												
906	2X- 2	-	-	118.0	Beforsite	Mcb1	94													○
907	2-122	-	-	122.0	Beforsite, fractured	Mcb1	94	○												
908	2X- 3	-	-	127.0	Beforsite	Mcb1	94													○
909	2-135	-	-	135.0	Beforsite, fractured	Mcb1	94	○												
	2X- 4	-	-																	○
MJNO-3																				
910	3- 0	-	-	0.0	Beforsite, weathered	Mcb1	94	○												
911	3- 5	-	-	5.0	Beforsite, An	Mcb1	94	○												
912	3X- 1	-	-	5.7	Beforsite	Mcb1	94													○
913	3- 10	-	-	10.0	Beforsite, sulfide rich	Mcb1	94	○												
914	3- 15	-	-	15.0	Beforsite, sulfide rich	Mcb1	94	○												
915	3- 20	-	-	20.0	Beforsite, sulfide rich	Mcb1	94	○	○											
916	3R- 1	-	-	23.2	Beforsite, sulfide rich	Mcb1	94													○
	3X- 2	-	-																	○
917	3T- 1	-	-	23.4	Beforsite, sulfide rich	Mcb1	94					○								
918	3- 25	-	-	25.0	Beforsite, weathered	Mcb1	94	○												
919	3- 30	-	-	30.0	Beforsite, sulfide rich	Mcb1	94	○	○											
920	3- 35	-	-	35.0	Beforsite, weathered	Mcb1	94	○												
921	3- 40	-	-	40.0	Beforsite, weathered	Mcb1	94	○	○											
922	3- 45	-	-	45.0	Beforsite, weathered	Mcb1	94	○												
923	3- 50	-	-	50.0	Beforsite, sulfide rich	Mcb1	94	○												
924	3R- 2	-	-	53.7	Beforsite, weathered	Mcb1	94													
925	3- 55	-	-	55.0	Beforsite, sulfide rich	Mcb1	94	○												○
926	3- 60	-	-	60.0	Beforsite, weathered	Mcb1	94	○	○											
927	3T- 2	-	-	61.1	Beforsite, sulfide rich	Mcb1	94					○								
928	3- 65	-	-	65.0	Beforsite, weathered	Mcb1	94	○												
929	3- 70	-	-	70.0	Beforsite, sulfide rich	Mcb1	94	○												
930	3- 75	-	-	75.0	Beforsite, sulfide rich	Mcb1	94	○												
931	3T- 4	-	-	77.0	Beforsite, sulfide rich	Mcb1	94					○								○
932	3- 80	-	-	80.0	Beforsite, sulfide rich	Mcb1	94	○	○											
933	3- 85	-	-	85.0	Beforsite, weathered	Mcb1	94	○												
934	3R- 3	-	-	89.1	Beforsite, sulfide rich	Mcb1	94													○
935	3- 90	-	-	90.0	Beforsite, weathered	Mcb1	94	○												
936	3- 95	-	-	95.0	Beforsite, weathered	Mcb1	94	○												

B-1 List of Samples from the Orange Area (13)

No.	Sample No.	X m	Y m	Depth m	Rock Name	Rock Code	Analytical methods														
							Year	REE	NR	TS	PS	PO	XR	EA	IA	PA					
937	3-100	-	-	100.0	Beforsite, Fe oxide rich	Mcbl	94	○	○												
938	3-105	-	-	105.0	Beforsite, Fe oxide rich	Mcbl	94	○													
939	3-110	-	-	110.0	Beforsite, An	Mcbl	94	○													
940	3-115	-	-	115.0	Beforsite, weathered	Mcbl	94	○													
941	3-120	-	-	120.0	Beforsite, weathered	Mcbl	94	○	○												
942	3-125	-	-	125.0	Beforsite, sulfide rich	Mcbl	94	○													
943	3-130	-	-	130.0	Beforsite, sulfide rich	Mcbl	94	○													
944	3-135	-	-	135.0	Beforsite, sulfide rich	Mcbl	94	○													
945	3X-3	-	-	135.0	Beforsite, sulfide rich	Mcbl	94													○	
946	3-140	-	-	140.0	Beforsite, sulfide rich	Mcbl	94	○	○												
947	3-145	-	-	145.0	Beforsite, sulfide rich	Mcbl	94	○													
948	3T-5	-	-	146.7	Beforsite, sulfide rich	Mcbl	94					○									
949	3-150	-	-	150.0	Beforsite, sulfide rich	Mcbl	94	○													
MJNO-4																					
950	4-0	-	-	0.0	Beforsite, weathered	Mcbl	94	○													
951	4-5	-	-	5.0	Beforsite, weathered	Mcbl	94	○													
952	4-10	-	-	10.0	Beforsite, weathered	Mcbl	94	○													
953	4-15 4T-4	-	-	15.0	Beforsite, sulfide rich	Mcbl	94	○				○									
954	4-20	-	-	20.0	Beforsite, sulfide rich	Mcbl	94	○	○												
955	4T-1 4X-1	-	-	20.6	Beforsite, Fe oxide-rich	Mcbl	94					○								○	
956	4-25	-	-	25.0	Beforsite, Fe oxide rich	Mcbl	94	○													
957	4-30	-	-	30.0	Beforsite, Fe oxide rich	Mcbl	94	○	○												
958	4T-2	-	-	30.0	Beforsite, Fe oxide-rich	Mcbl	94					○									
959	4-35 4R-1	-	-	35.0	Beforsite, sulfide rich	Mcbl	94	○													○
960	4-40	-	-	40.0	Beforsite, Fe oxide rich	Mcbl	94	○	○												
961	4-45	-	-	45.0	Beforsite, weathered	Mcbl	94	○													
962	4-50	-	-	50.0	Beforsite, weathered	Mcbl	94	○													
963	4-55	-	-	55.0	Beforsite, weathered	Mcbl	94	○													
964	4-60	-	-	60.0	Beforsite, weathered	Mcbl	94	○	○												
965	4-65	-	-	65.0	Beforsite	Mcbl	94	○													
966	4-70	-	-	70.0	Beforsite	Mcbl	94	○													
967	4-75	-	-	75.0	Beforsite, weathered	Mcbl	94	○													
968	4-80	-	-	80.0	Beforsite	Mcbl	94	○	○												
969	4-85	-	-	85.0	Beforsite	Mcbl	94	○													
970	4-90	-	-	90.0	Beforsite	Mcbl	94	○													
971	4-95	-	-	95.0	Beforsite, weathered	Mcbl	94	○													
972	4-100	-	-	100.0	Beforsite, weathered	Mcbl	94	○	○												
973	4-105	-	-	105.0	Beforsite	Mcbl	94	○													
974	4-110	-	-	110.0	Beforsite, weathered	Mcbl	94	○													
975	4-115	-	-	115.0	Beforsite, weathered	Mcbl	94	○													
976	4-120	-	-	120.0	Beforsite, weathered	Mcbl	94	○	○												
977	4-125	-	-	125.0	Beforsite	Mcbl	94	○													
978	4-130	-	-	130.0	Beforsite, weathered	Mcbl	94	○													
979	4-135	-	-	135.0	Beforsite	Mcbl	94	○													
980	4-140	-	-	140.0	Beforsite, weathered	Mcbl	94	○	○												
981	4-145	-	-	145.0	Beforsite, sulfide rich	Mcbl	94	○													
982	4T-3	-	-	146.9	Beforsite, sulfide rich	Mcbl	94					○									
983	4X-2	-	-	148.7	Beforsite, sulfide rich	Mcbl	94													○	
984	4-150	-	-	150.0	Beforsite, sulfide rich	Mcbl	94	○													
MJNO-5																					
985	5-0	-	-	0.0	Beforsite, weathered	Mcbl	94	○													
986	5-5	-	-	5.0	Beforsite, weathered	Mcbl	94	○													
987	5-10	-	-	10.0	Beforsite, weathered	Mcbl	94	○													
988	5-15	-	-	15.0	Beforsite, weathered	Mcbl	94	○													
989	5-20	-	-	20.0	Beforsite, weathered	Mcbl	94	○													
990	5-25	-	-	25.0	Beforsite, Phl rich	Mcbl	94	○													
991	5-30	-	-	30.0	Beforsite, Phl rich	Mcbl	94	○	○												
992	5-34	-	-	34.0	Beforsite, Phl rich	Mcbl	94	○													
993	5X-1	-	-	35.0	Dolerite	Kdd	94													○	
994	5-40	-	-	40.0	Beforsite, Phl rich	Mcbl	94	○	○												
995	5-45	-	-	45.0	Beforsite, Phl rich	Mcbl	94	○													
996	5-47	-	-	47.3	Beforsite, Phl rich	Mcbl	94	○													
997	5-50	-	-	50.0	Beforsite, Phl rich	Mcbl	94	○	○												
998	5-55 5X-2	-	-	55.0	Beforsite, Phl rich	Mcbl	94	○													○
999	5-60	-	-	60.0	Beforsite, Phl rich	Mcbl	94	○	○												
1000	5-65	-	-	65.0	Beforsite, Fe oxide rich	Mcbl	94	○													
1001	5-67	-	-	67.3	Beforsite, Fe oxide rich	Mcbl	94	○													
1002	5-70	-	-	70.0	Beforsite, Fe oxide rich	Mcbl	94	○	○												
1003	5-75	-	-	75.0	Beforsite, Fe oxide rich	Mcbl	94	○													
1004	5-80	-	-	80.0	Beforsite, Fe oxide rich	Mcbl	94	○	○												
1005	5T-1	-	-	84.7	Beforsite, sulfide rich	Mcbl	94					○									
1006	5-85	-	-	85.0	Beforsite, sulfide rich	Mcbl	94	○													
1007	5-90	-	-	90.0	Beforsite, sulfide rich	Mcbl	94	○	○												
1008	5T-2	-	-	92.2	Beforsite, sulfide rich	Mcbl	94					○									
1009	5-92	-	-	92.3	Beforsite, sulfide rich	Mcbl	94	○													

B-1 List of Samples from the Orange Area (14)

No.	Sample No.	X m	Y m	Depth m	Rock Name	Rock Code	Analytical methods											
							Year	REE	WR	TS	PS	PO	XR	EA	IA	PA		
1010	5-95	-	-	95.0	Beforsite, sulfide rich	Mcb1	94	○										
1011	5-100	-	-	100.0	Beforsite, sulfide rich	Mcb1	94	○	○									
1012	5-105	-	-	105.0	Beforsite, sulfide rich	Mcb1	94	○										
MJNO-6																		
1013	6-0	-	-	0.0	Beforsite, weathered	Mcb2	94	○										
1014	6-5	-	-	5.0	Beforsite, sulfide rich	Mcb2	94	○										
1015	6-10	-	-	10.0	Beforsite, sulfide rich	Mcb2	94	○	○									
1016	6-15	-	-	15.0	Beforsite, sulfide rich	Mcb2	94	○										
1017	6T-1	-	-	17.5	Beforsite, sulfide rich	Mcb2	94					○						
1018	6-20	-	-	20.0	Beforsite, sulfide rich	Mcb2	94	○										
1019	6-25	-	-	25.0	Beforsite, sulfide rich	Mcb2	94	○										
1020	6-30	-	-	30.0	Beforsite, sulfide rich	Mcb2	94	○	○									
1021	6-35	-	-	35.0	Beforsite, sulfide rich	Mcb2	94	○										
1022	6-40	-	-	40.0	Beforsite, sulfide rich	Mcb2	94	○										
1023	6X-1a	-	-	42.2	Beforsite, Phl rich	Mcb2	94										○	
1024	6X-1b	-	-	42.3	Beforsite, Phl rich	Mcb2	94										○	
1025	6-45	-	-	45.0	Beforsite, Phl rich	Mcb2	94	○										
1026	6-50	-	-	50.0	Beforsite, Phl rich	Mcb2	94	○	○									
1027	6-55	-	-	55.0	Beforsite, sulfide rich	Mcb2	94	○										
1028	6-60	-	-	60.0	Beforsite, sulfide rich	Mcb2	94	○										
1029	6-65	-	-	65.0	Beforsite, sulfide rich	Mcb2	94	○										
1030	6-70	-	-	70.0	Beforsite, sulfide rich	Mcb2	94	○	○									
1031	6-75	-	-	75.0	Beforsite, Phl rich	Mcb2	94	○										
1032	6-80	-	-	80.0	Beforsite	Mcb2	94	○										
1033	6-85	-	-	85.0	Beforsite	Mcb2	94	○										
1034	6-90	-	-	90.0	Beforsite, sulfide rich	Mcb2	94	○	○									
1035	6-95	-	-	95.0	Beforsite, sulfide rich	Mcb2	94	○										
1036	6-100	-	-	100.0	Beforsite, sulfide rich	Mcb2	94	○										
1037	6-105	-	-	105.0	Beforsite, sulfide rich	Mcb2	94	○										
1038	6X-2	-	-	105.5	Beforsite, Ap rich	Mcb2	94										○	
1039	6-110	-	-	110.0	Beforsite, Ap rich	Mcb2	94	○	○									
1040	6-115	-	-	115.0	Beforsite, Ap rich	Mcb2	94	○										
	6R-1	-	-															○
1041	6T-2	-	-	117.0	Beforsite, Ap rich	Mcb2	94					○					○	
1042	6-120	-	-	120.0	Beforsite, Ap rich	Mcb2	94	○										
1043	6T-3	-	-	121.3	Beforsite, Ap rich	Mcb2	94					○						
1044	6-125	-	-	125.0	Beforsite, Ap rich	Mcb2	94	○										
1045	6-130	-	-	129.0	Beforsite, Ap rich	Mcb2	94	○	○									
1046	6-135	-	-	135.0	Beforsite, Ap rich	Mcb2	94	○										
1047	6-142	-	-	142.3	Beforsite, Phl rich	Mcb2	94	○										
1048	6-145	-	-	145.0	Beforsite, Phl rich	Mcb2	94	○										
1049	6T-4	-	-	148.7	Slate, Bre. & carbonated	Msu	94					○						
1050	6-150	-	-	150.0	Syenite	Msu	94	○	○									
MJNO-7																		
1051	7-0	-	-	0.0	Beforsite, weathered	Mcb2	94	○										
1052	7-5	-	-	5.0	Beforsite, Ap rich	Mcb2	94	○										
1053	7-10	-	-	10.0	Beforsite, Ap rich	Mcb2	94	○	○									
1054	7-15	-	-	15.0	Beforsite, Ap rich	Mcb2	94	○										
1055	7-20	-	-	20.0	Beforsite, Ap rich	Mcb2	94	○										
1056	7-25	-	-	25.0	Dolerite	Kdd	94	○										
1057	7-30	-	-	30.0	Beforsite	Mcb2	94	○	○									
1058	7-35	-	-	35.0	Beforsite, Fe oxide rich	Mcb2	94	○										
1059	7-40	-	-	40.0	Beforsite, Fe oxide rich	Mcb2	94	○										
1060	7-45	-	-	45.0	Beforsite, Fe oxide rich	Mcb2	94	○										
1061	7T-2	-	-	46.0	Beforsite, Fe oxide rich	Mcb2	94					○					○	
1062	7-50	-	-	50.0	Beforsite, Ap rich	Mcb2	94	○	○									
1063	7-55	-	-	55.0	Beforsite, Ap rich	Mcb2	94	○										
1064	7-60	-	-	60.0	Beforsite, Ap rich	Mcb2	94	○										
1065	7-65	-	-	65.0	Beforsite, Ap rich	Mcb2	94	○										
1066	7-70	-	-	70.0	Beforsite, Ap rich	Mcb2	94	○	○									
1067	7-75	-	-	75.0	Beforsite, Ap rich	Mcb2	94	○										
1068	7-80	-	-	80.0	Beforsite, Ap rich	Mcb2	94	○										
1069	7-85	-	-	85.0	Beforsite, Ap rich	Mcb2	94	○										
	7X-3	-	-															○
1070	7-90	-	-	90.0	Beforsite, Ap rich	Mcb2	94	○	○									
1071	7T-3	-	-	93.0	Beforsite, sulfide rich	Mcb2	94					○						
1072	7-95	-	-	95.0	Beforsite, Ap rich	Mcb2	94	○										
1073	7-100	-	-	100.0	Beforsite, Ap rich	Mcb2	94	○										
1074	7-105	-	-	105.0	Beforsite, Ap rich	Mcb2	94	○										
1075	7-110	-	-	110.0	Beforsite, Ap rich	Mcb2	94	○	○									
1076	7-115	-	-	115.0	Beforsite, Ap rich	Mcb2	94	○										
1077	7-120	-	-	120.0	Beforsite, Ap rich	Mcb2	94	○										
1078	7-125	-	-	125.0	Beforsite, Ap rich	Mcb2	94	○										
1079	7T-4	-	-	129.3	Beforsite, Ap rich	Mcb2	94					○						
1080	7-130	-	-	130.0	Beforsite, Ap rich	Mcb2	94	○	○									
1081	7-135	-	-	135.0	Beforsite, Ap rich	Mcb2	94	○										
1082	7X-1a	-	-	136.6	Beforsite, Ap rich	Mcb2	94											○
1083	7X-1b	-	-	136.7	Beforsite, Ap rich	Mcb2	94											○
1084	7-140	-	-	140.0	Beforsite, Ap rich	Mcb2	94	○										



**B-2 Whole Rock Analyses and Normative mineral Assemblages
of the Orange Area**

Abbreviation of the normative minerals in the list

Q:	quartz	SiO ₂
C:	corundum	Al ₂ O ₃
or:	orthoclase	K ₂ O.Al ₂ O ₃ .6SiO ₂
ab:	albite	Na ₂ O.Al ₂ O ₃ .6SiO ₂
an:	anorthite	CaO.Al ₂ O ₃ .2SiO ₂
lc:	leucite	K ₂ O.Al ₂ O ₃ .4SiO ₂
ne:	nepheline	Na ₂ O.Al ₂ O ₃ .2SiO ₂
kp:	kaliophilite	K ₂ O.Al ₂ O ₃ .2SiO ₂
ac:	acmite	Na ₂ O.Fe ₂ O ₃ .4SiO ₂
ns:	sodium metasilicate	Na ₂ O.SiO ₂
ks:	potassium metasilicate	K ₂ O.SiO ₂
cs:	calcium orthosilicate	CaO.SiO ₂
mt:	magnetite	FeO.Fe ₂ O ₃
hm:	hematite	Fe ₂ O ₃
tn:	titanite	CaO.TiO ₂ .SiO ₂
pf:	perovskite	CaO.TiO ₂
ru:	rutile	TiO ₂
ap:	apatite	3(3CaO.P ₂ O ₅).CaF ₂
wo-di:	wollastonite	CaO.SiO ₂
en-di:	MgSiO ₃ in diopside	MgO.SiO ₂
fs-di:	FeSiO ₃ in hedenbergite	FeO.SiO ₂
en-hy:	enstatite	MgO.SiO ₂
fs-hy:	ferrosillite	FeO.SiO ₂
fo-ol:	forsterite	2MgO.SiO ₂
fa-ol:	fayalite	2FeO.SiO ₂
ca:	calcite	CaO.CO ₂
ma:	magnesite	MgO.CO ₂
sd:	siderite	FeO.CO ₂
sr:	sirontianite	SrO.CO ₂
NaCO ₃ :	sodium carbonate	Na ₂ O.CO ₂
K ₂ CO ₃ :	potassium carbonate	K ₂ O.CO ₂

B-2 Whole Rock Analyses and Normative mineral Assemblage of the Orange Area (2)

No.	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Sample No.	Dh15	Dh515	Dh600	Dh700	Dh715	Dc320	Dc405	Dc415	Dc500	Dc515	Dc600	Dc615	Dc700	Ea300	Ea320	Ea410	Ea600	Ea710	Eh315	Eh400
Rock code	Mcbi	Mcbi	Mcbi	Mcbi	Mcbi	Mfn	Mcbi	Mcbi	Mcbi	Mcbi	Mcbi	Mcbi	Mcbi	Mcbi	Mcbi	Mcbi	Mcbi	Mcbi	Mcbi	Mcbi
SiO2	0.48	0.26	0.42	0.04	0.26	23.08	0.26	0.48	0.24	0.34	67.26	0.24	1.20	2.13	25.59	0.58	0.40	0.34	1.46	0.36
TiO2	0.01	0.01	0.01	< 0.01	0.38	0.01	0.38	0.01	0.01	0.01	0.02	0.01	< 0.01	0.10	0.27	0.01	0.02	0.01	< 0.01	< 0.01
Al2O3	0.04	0.04	0.07	0.01	0.05	11.22	0.12	0.06	0.02	0.13	12.96	0.10	0.06	0.35	6.28	0.01	0.01	0.01	0.16	0.08
Fe2O3	1.27	1.73	8.38	1.91	5.11	3.14	0.67	4.83	3.24	5.54	6.76	5.00	7.92	1.64	1.39	11.42	3.43	2.97	2.97	5.82
FeO	3.35	3.22	1.83	3.15	2.16	2.32	3.79	3.19	2.36	0.17	0.43	1.16	1.90	5.03	2.74	0.16	2.13	1.74	6.97	2.69
MnO	0.92	0.98	1.18	0.82	1.06	0.26	0.81	1.01	0.86	0.69	0.01	1.08	0.91	1.05	0.25	1.22	0.86	0.83	0.91	1.09
MgO	18.44	17.75	17.83	18.24	19.38	1.57	19.51	19.06	18.78	18.06	0.66	19.54	17.57	16.94	1.69	19.90	19.96	20.34	11.64	17.88
CaO	27.79	27.08	25.70	28.80	27.32	26.81	28.21	26.67	28.23	29.16	0.28	26.99	24.99	27.36	33.82	23.46	27.52	27.65	25.90	26.97
Na2O	0.02	0.02	0.02	0.01	0.02	0.82	0.03	0.04	0.02	0.05	3.65	0.02	0.02	0.04	2.15	0.03	0.02	0.02	0.03	0.03
K2O	< 0.01	< 0.01	< 0.01	< 0.01	0.02	4.05	0.03	0.02	< 0.01	0.02	4.26	0.02	0.01	0.54	1.11	0.01	0.01	0.01	0.05	0.01
P2O5	< 0.01	< 0.01	< 0.01	< 0.01	0.05	1.86	0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.05	2.36	0.04	0.03	0.03	0.05	< 0.01
H2O(+)	1.32	0.66	2.43	0.70	0.48	2.73	0.99	0.98	0.50	1.48	0.47	0.99	1.47	0.90	2.00	0.98	0.54	0.46	0.64	0.70
H2O(-)	0.30	0.12	0.11	0.16	0.22	0.31	0.05	0.08	0.20	0.12	0.31	0.19	0.97	0.23	0.13	0.14	0.25	0.11	0.27	0.34
CO2	44.18	46.24	40.88	45.15	43.14	20.11	43.92	42.06	43.66	43.16	0.70	42.97	43.16	43.12	20.00	40.60	44.64	44.66	40.75	42.07
Sum	98.14	98.15	98.88	99.12	99.28	98.66	98.42	98.50	98.14	98.94	97.78	98.32	98.40	99.48	99.78	98.56	99.82	99.18	91.81	98.06

	Q	C	or	ab	an	lc	ne	kp	ac	ns	ks	cs	mt	ln	tn	pf	ru	ap	wo-di	en-di	fs-di	en-hy	fs-hy	fo-ol	fa-ol	ca	ma	sd	sr	Na2O3	X2O3
Weight percentage	0.25	0.24	0.04	0.05	0.15	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	
	5.01	5.01	21.84	6.33	0.04	0.07	0.07	0.13	0.13	0.11	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	
	30.27	0.04	0.04	0.10	0.15	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	
	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	
	1.80	2.00	1.80	2.00	1.80	2.00	1.80	2.00	1.80	2.00	1.80	2.00	1.80	2.00	1.80	2.00	1.80	2.00	1.80	2.00	1.80	2.00	1.80	2.00	1.80	2.00	1.80	2.00	1.80	2.00	
	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	0.48	
	57.00	56.36	53.71	57.96	55.52	51.94	59.67	55.64	57.81	59.65	0.64	55.72	53.61	56.32	52.96	49.20	55.00	56.15	55.42	55.58											
	33.88	33.09	33.38	32.88	35.35	1.49	36.98	35.62	34.45	33.09	0.97	36.14	33.77	30.74	37.45	35.77	37.04	22.36	33.01												
	4.91	6.91	2.71	6.05	0.83	0.59	1.88	1.04	1.88	1.04	0.48	3.24	7.72	1.63	0.84	1.63	1.43	13.36	2.93												
	1.49	1.74	0.96	1.13	1.06	0.59	1.17	1.10	1.16	0.67	1.14	0.88	0.85	0.85	0.59	0.77	2.52	0.92	4.42	1.12											
	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	

B-2 Whole Rock Analyses and Normative mineral Assemblage of the Orange Area (6)

No.	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
Sample No.	L800	La200	L8605	L8615	L8700	L8715	L8800	Lc615	Lc700	Lc715	Lc800	M220	M710	M8600	M8615	M8700	M8800	M8615	Mc700	Mc715
Rock code	Mcb2	Msp	Mcb2	Mcb2	Mcb2	Mcb2	Mcb2	Mcs	Mcb2	Mcb2	Mcb2	Mcd	Mcb2	Mcb2	Mcb2	Mcb2	Mcb2	Mcb2	Mcb2	Mcb2
Weight percentage	0.53	53.13	0.36	0.42	0.76	1.24	0.32	1.02	0.62	3.30	4.58	0.43	0.78	1.30	1.24	2.04	0.30	5.40	0.94	1.20
SiO2	0.01	0.32	0.01	< 0.01	0.01	0.01	< 0.01	0.02	< 0.01	0.13	0.01	0.01	0.01	0.03	< 0.01	0.01	< 0.01	0.03	< 0.01	0.01
TiO2	0.01	20.72	0.07	0.06	0.03	0.04	0.01	0.05	0.05	1.14	1.94	0.01	0.01	0.01	0.43	0.22	0.40	0.94	0.11	0.07
Al2O3	0.61	0.20	1.22	0.87	1.72	3.39	0.85	2.01	1.67	5.84	1.26	2.00	3.09	2.25	3.72	1.99	0.31	1.48	0.03	1.19
Fe2O3	2.84	1.67	3.75	3.45	4.35	2.89	3.19	1.33	2.99	5.45	3.65	6.87	3.87	4.22	2.11	2.69	2.96	3.82	2.79	3.25
FeO	0.80	0.06	0.95	0.81	0.97	0.82	0.89	0.79	0.97	1.88	0.98	1.32	0.66	1.03	1.01	1.63	0.83	0.75	0.79	0.95
MnO	15.53	0.36	13.33	15.87	16.44	15.87	17.60	2.45	15.49	11.14	14.76	3.96	16.03	16.16	17.52	17.36	18.07	17.34	16.54	16.83
MgO	31.55	2.84	30.89	29.54	28.05	27.33	28.53	44.85	28.76	27.66	28.54	39.17	29.13	28.00	26.31	27.46	28.91	24.86	30.48	28.75
CaO	0.06	6.09	0.07	0.06	0.04	0.09	0.07	0.19	0.09	0.40	0.47	0.04	0.24	0.06	0.05	0.04	0.02	0.24	0.04	0.03
Na2O	0.01	7.20	0.02	0.07	0.01	0.03	0.02	0.06	0.02	0.08	0.07	0.29	0.10	0.27	0.24	0.20	0.05	0.97	0.05	0.06
K2O	7.31	0.15	4.58	1.68	1.01	1.30	0.39	0.93	2.72	0.48	3.62	0.14	2.89	< 0.01	0.95	2.67	0.63	0.78	2.98	0.90
P2O5	1.36	3.78	0.96	1.24	0.29	0.93	0.92	0.65	1.00	1.00	0.81	1.14	0.52	0.19	0.57	1.05	0.59	0.45	0.38	0.88
H2O(+)	0.21	0.10	0.06	0.04	0.39	0.25	0.04	0.21	0.05	0.25	0.05	0.14	0.45	0.30	0.33	0.19	0.17	0.21	0.38	0.29
H2O(-)	37.46	2.88	37.68	42.33	43.83	41.35	42.88	39.51	41.82	37.71	38.17	41.64	41.80	40.87	42.60	40.33	43.49	36.13	41.33	43.63
CO2	98.29	99.41	93.95	96.45	97.90	96.54	95.72	94.08	96.27	96.47	98.31	97.16	99.60	95.11	96.88	97.37	96.42	93.40	96.25	98.04
Sum																				

Weight percentage	0.49	0.01	43.75	30.30	11.87	0.30	1.13	0.33	0.07	0.05	0.05	0.03	0.04	0.04	0.01	0.01	0.01	0.01	0.01	0.01
Q	0.49	0.01	43.75	30.30	11.87	0.30	1.13	0.33	0.07	0.05	0.05	0.03	0.04	0.04	0.01	0.01	0.01	0.01	0.01	0.01
C																				
cr																				
ab																				
an																				
lc																				
ne																				
kp																				
ac																				
ns																				
ks																				
cs																				
ss																				
mt																				
hm																				
tn																				
pf																				
ru																				
ap																				
wo-di																				
en-di																				
fs-di																				
en-hy																				
fs-hy																				
fo-ol																				
fa-ol																				
ca	47.14	6.35	53.73	57.33	55.34	54.99	53.42	86.06	54.24	56.42	49.31	77.17	52.18	59.48	52.90	49.72	58.27	51.12	55.08	56.22
ma	29.90	0.77	25.80	29.81	30.49	30.50	33.43	4.33	29.88	20.82	27.41	7.02	29.58	30.75	33.11	32.28	33.57	29.55	30.72	30.73
sd	6.19	1.16	8.03	7.07	8.71	6.30	3.92	3.31	6.74	11.35	7.59	12.82	7.98	2.67	5.21	5.00	2.26	4.80	6.77	6.77
sr	0.02	0.16	0.96	0.89	1.09	0.97	0.94	1.51	0.99	0.28	1.15	0.23	1.01	1.15	1.71	2.82	3.53	2.63	2.49	2.18
Na2CO3	0.09		0.11	0.09	0.06	0.14		0.27	0.14		0.51	0.06	0.36		0.08					0.05
K2CO3	0.01		0.03	0.09	0.01	0.04		0.07	0.03		0.36	0.13			0.32					0.08

B-2 Whole Rock Analyses and Normative mineral Assemblage of the Orange Area (9)

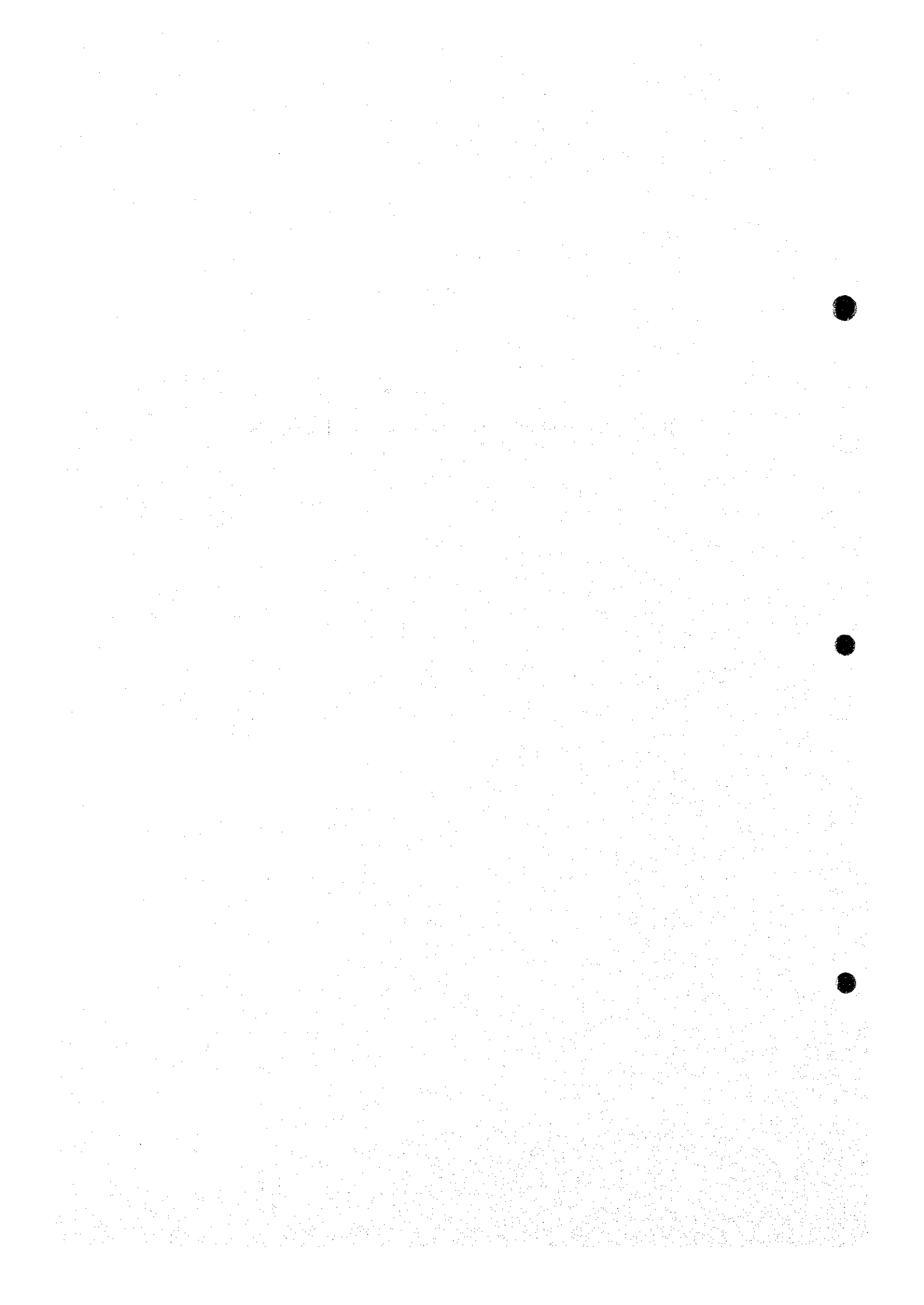
No.	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	
Sample No.	4-80	4-100	4-120	4-140	5-30	5-40	5-50	5-60	5-70	5-80	5-90	5-100	6-10	6-30	6-50	6-70	5-90	6-110	6-129	6-150	
Rock code	Mcb1	Mcb1	Mcb1	Mcb1	Mcb1	Mcb1	Mcb1	Mcb1	Mcb1	Mcb1	Mcb1	Mcb1	Mcb2	Mcb2	Mcb2	Mcb2	Mcb2	Mcb2	Mcb2	Mcb2	Msbu
SiO2	0.22	0.10	< 0.01	0.16	5.27	8.28	12.72	10.95	9.11	1.86	0.18	2.25	1.00	1.35	3.05	12.21	2.41	3.04	2.46	8.33	
TiO2	< 0.01	< 0.01	< 0.01	< 0.01	0.01	0.03	0.02	0.02	0.02	0.07	< 0.01	0.01	< 0.01	< 0.01	0.01	0.02	< 0.01	0.02	0.06	0.19	
Al2O3	0.03	0.02	0.02	0.01	1.34	2.24	3.59	2.60	1.95	0.31	0.04	0.78	0.04	0.48	0.71	3.08	0.43	0.29	0.46	3.36	
Fe2O3	0.08	0.24	0.55	0.96	3.03	1.78	2.16	2.90	2.70	1.96	1.66	1.66	0.29	0.97	0.50	3.06	0.26	0.56	0.24	0.68	
FeO	3.44	4.04	4.29	4.78	3.00	2.98	4.19	3.90	3.60	3.78	4.13	3.79	3.61	5.39	3.45	3.33	4.26	3.99	2.83	2.75	
MnO	0.79	0.84	0.94	0.88	0.97	0.94	0.75	0.77	0.72	0.94	0.89	0.84	0.82	0.88	0.91	0.69	1.05	0.90	0.48	0.75	
MgO	19.10	19.25	19.00	20.26	21.64	21.59	23.05	21.22	21.84	20.20	19.87	18.95	17.41	17.38	19.19	18.11	20.40	16.83	2.66	2.65	
CaO	26.77	27.38	27.82	26.29	23.13	22.46	18.72	20.51	21.07	26.03	26.92	26.09	29.06	26.78	25.82	19.04	24.43	27.91	45.85	38.51	
Na2O	0.03	0.02	0.02	< 0.01	0.10	0.09	0.14	0.08	0.03	0.01	0.01	0.01	0.05	0.08	0.03	0.15	0.06	0.24	0.15	0.57	
K2O	0.01	< 0.01	< 0.01	< 0.01	0.62	1.30	1.97	1.42	1.11	0.01	< 0.01	1.10	2.87	< 0.01	0.92	1.69	0.43	0.18	0.94	1.20	
P2O5	< 0.01	< 0.01	< 0.01	< 0.01	0.03	1.03	0.39	0.30	0.01	< 0.01	< 0.01	1.10	0.01	0.49	0.62	1.43	0.22	0.20	0.12	0.64	
H2O(+)	0.18	0.01	0.10	0.24	0.65	0.91	1.41	1.26	1.33	0.15	0.15	0.01	0.16	0.49	0.62	1.43	0.22	0.20	0.12	0.64	
H2O(-)	0.03	0.01	0.02	0.02	0.08	0.06	0.06	0.22	0.21	0.17	0.16	0.05	0.08	0.06	0.08	0.13	0.04	0.03	0.10	0.08	
CO2	44.36	45.01	43.71	44.03	38.15	33.81	28.21	30.74	33.94	41.74	43.51	38.88	39.50	42.18	41.75	36.00	37.15	39.15	39.12	32.54	
Sum	95.06	97.15	96.51	97.67	98.02	97.50	97.54	96.88	97.60	97.23	97.54	94.45	94.94	95.31	97.63	99.05	96.08	94.94	98.42	93.42	
Weight percentage																					
Q					0.44	0.50	1.06	0.80	0.65	0.25	0.01	0.64		0.07	0.02	3.76			2.01	0.97	
C									1.60						1.45	9.13			0.38	6.14	
or																1.16				2.36	
ab																					
an																					
lc	0.04	0.04	0.04	0.04					3.49	0.04	0.04	0.30	0.16	1.05	1.29		1.74	0.76		0.99	
ne	0.05	0.02	0.02		0.40	0.36	0.56	0.32	0.13	0.04	0.04	0.04		0.33	0.12			0.24			
kp					6.08	10.36	17.85	13.04													
ac																					
ns																					
cs																					
mt	0.04	0.26	0.68	1.23	3.82	2.25	2.71	3.62	3.61	2.56	2.32	2.23	2.22	1.27	0.64	4.06	0.15	0.12		0.85	
lm																					
ta																					
pf																					
ru	0.01	0.01	0.01	0.01	0.01	0.03	0.02	0.02	0.02	0.06	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.02	0.05	0.17	
ap	0.02	0.02	0.02	0.02	0.06	2.08	0.78	0.60	0.02	0.02	0.02	2.36	6.16	0.02	1.89	0.23	10.82	3.34	6.71	2.33	
wo-di																					
en-di																					
fs-di																					
en-hy																					
fs-hy																					
fc-ol																					
fa-ol	0.31	0.02			8.83	14.68	25.45	20.87	9.77	1.12		1.66	2.21	1.69	3.38		3.64	5.28		0.95	
ca	56.30	57.16	59.35	55.90	46.91	43.01	36.82	40.46	45.37	54.88	57.09	53.36	54.73	56.51	50.92	40.35	39.71	54.71	78.52	3.95	
ma	35.98	35.74	36.31	38.59	32.89	28.36	22.71	24.32	30.42	36.31	37.75	34.20	33.75	32.85	35.55	34.63	40.44	31.84	4.54	4.74	
sd	5.96	5.47	2.42	2.82							1.12		0.65	5.37	2.99	0.82			4.99		
sr	1.18	1.16	1.05	1.03	1.15	1.12	0.91	0.84	0.83	1.03	1.19	1.19	1.77	0.83	2.35	1.25	2.20	2.40	1.99	2.63	
Ne2003																				0.21	
K2003																				0.41	

B-2 Whole Rock Analyses and Normative mineral Assemblage of the Orange Area (10)

No.	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196
Sample No.	7-10	7-30	7-50	7-70	7-90	7-110	7-130	7-150	8-25	8-50	8-67	8-80	8-90	8-100	8-120	8-137
Rock code	Mcb2	Mcb2	Mcb2	Mcb2	Mcb2	Mcb2	Mcb2	Mcb2	Nsh	Mcb2	Mcb2	Mcb2	Mcb2	Mcb2	Mcb2	Mcb2
Weight percentage																
SiO2	0.42	1.55	1.03	1.02	0.10	0.02	0.46	1.56	0.28	35.97	0.90	0.81	8.45	0.85	0.22	1.24
TiO2	< 0.01	0.02	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.19	< 0.01	< 0.01	0.04	< 0.01	< 0.01	< 0.01
Al2O3	0.07	0.03	0.03	0.03	0.02	0.02	0.03	0.02	0.12	3.97	0.03	0.03	1.55	0.02	0.02	0.38
Fe2O3	0.57	1.16	0.36	0.15	0.06	0.02	0.01	0.26	0.31	5.11	0.12	0.45	0.19	0.41	0.28	0.33
FeO	4.44	3.88	3.07	3.31	3.28	3.78	3.99	4.09	4.57	4.60	3.39	1.15	4.40	5.00	3.80	3.95
MgO	0.95	0.88	0.78	0.82	0.88	1.01	0.91	0.88	1.04	0.94	0.94	0.69	0.71	0.86	1.05	0.88
MgO	17.22	17.05	16.91	17.08	17.48	18.94	15.71	16.12	17.58	19.82	17.66	16.80	18.11	16.71	18.94	17.68
CaO	29.71	28.56	30.00	30.50	30.60	28.87	30.19	28.43	28.14	2.66	29.30	30.10	24.82	29.72	29.90	29.51
Na2O	0.09	0.05	0.14	0.13	0.02	0.02	0.06	0.11	0.02	4.22	0.09	0.06	0.23	0.03	0.01	0.03
K2O	< 0.01	0.34	0.05	0.05	0.01	0.01	0.02	0.03	0.04	4.23	0.02	0.02	1.32	0.01	< 0.01	0.07
P2O5	1.43	2.74	4.42	3.86	3.35	3.31	5.14	3.52	0.18	1.19	2.33	2.87	4.43	4.06	0.32	2.34
H2O(+)	0.19	0.56	0.51	0.57	0.65	0.32	0.04	0.07	0.03	0.02	0.31	0.61	0.12	0.33	0.15	0.14
H2O(-)	0.03	0.05	0.05	0.05	0.04	0.04	0.10	0.20	0.04	0.04	0.06	0.02	0.09	0.05	0.05	0.09
CO2	34.92	41.83	38.67	38.73	39.20	40.95	42.19	38.99	43.54	2.51	41.68	40.38	31.67	35.58	44.05	41.33
Sum	50.06	98.70	96.43	96.31	95.70	94.32	98.86	94.29	95.90	84.74	96.84	93.40	96.13	93.64	96.81	97.98

Q	1.36	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
C	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
or	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
ab	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
an	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
te	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
ne	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
ap	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
ac	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
ns	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
ks	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
cs	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
mt	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
hm	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
tn	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
pf	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
ru	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
ap	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
wo-di	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
en-di	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
en-hy	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
fs-by	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
fo-ol	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
fa-ol	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
ca	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
ma	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
sd	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
sr	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Na2CO3	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
K2CO3	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03

B-3 Geochemical Analyses of the Orange Area



B-3 Geochemical Analyses of the Orange Area (1)

No.	Sample No.	Rock Name	Rock Code	La	Ce	Nd	Sm	Ba	Tb	Yb	Lu	Sc	Y	U	Th	Nb	Ta	Zr	Mn	Sr	P	Fe %	T-R203 ppm
1	A 100	Gneiss, Qtz-Fd	Ngn	42	53	20	4.1	1.6	1.0	2.7	0.5	9.8	25	5	19	27	2	38	390	241	545	1.81	172
2	A 300	Gneiss, Qtz-Fd	Ngn	45	69	25	4.5	1.0	1.0	1.8	0.3	9.4	24	4	33	28	2	17	767	230	666	2.33	197
3	A 500	Gneiss, Qtz-Fd	Ngn	156	340	88	15.0	2.9	1.4	2.6	0.4	8.3	40	5	24	91	2	63	972	690	684	2.29	770
4	A 700	Gneiss, Qtz-Fd	Ngn	58	94	44	10.2	1.7	2.1	2.7	0.4	8.5	36	1	14	33	2	39	750	382	486	1.89	293
5	A 900	Gneiss, Qtz-Fd	Ngn	42	81	27	6.9	1.2	1.2	1.1	0.2	11.5	15	2	16	31	2	34	614	220	493	2.49	214
6	B 200	Gneiss, Qtz-Fd	Ngn	55	127	39	7.2	1.0	1.2	1.1	0.1	19.5	15	6	20	57	2	43	1450	260	441	5.56	302
7	B 400	Beforsite, Ank	Med	825	1605	308	39.2	10.3	4.4	3.0	0.4	2.6	49	15	73	848	5	42	28800	1130	575	8.61	3479
8	B 500	Beforsite vein, Hbl?	Med	215	426	143	41.4	10.7	3.8	6.4	1.0	0.5	83	1	131	131	2	3	7530	9800	3460	1.44	1109
9	B 600	Gneiss, Qtz-Fd	Ngn	62	150	46	7.2	2.1	1.5	1.5	0.2	8.6	22	22	8	235	5	252	1460	696	2090	4.65	354
10	B 700	Gneiss, Qtz-Fd	Ngn	71	107	35	6.5	1.9	1.4	1.5	0.2	42.0	42	1	4	38	2	116	1450	287	210	3.40	295
11	B 800	Gneiss, Qtz-Fd	Ngn	100	194	68	15.3	1.8	2.1	3.5	0.5	6.2	44	3	20	27	2	37	393	246	183	0.82	508
12	Ba310	Gneiss, Qtz-Fd	Ngn	68	142	48	5.5	1.6	0.8	1.0	0.2	25.1	17	3	29	51	2	63	2270	202	350	5.91	343
13	Ba320	Gneiss, Qtz-Fd	Ngn	53	88	25	4.3	1.5	0.8	1.2	0.2	9.4	14	23	28	27	2	194	413	174	243	1.73	226
14	Ba400	Gneiss, Qtz-Fd	Ngn	66	152	54	11.3	3.3	1.5	2.7	0.4	12.7	34	2	17	47	2	127	1450	428	365	3.47	384
15	Ba410	Syenite-albite?	Mfn	41	54	16	3.9	0.9	0.7	0.9	0.1	0.5	4	13	17	477	16	33	424	200	290	1.93	153
16	Ba420	Syenite-albite?	Mfn	38	63	21	4.3	1.4	0.9	1.4	0.2	3.6	9	18	16	498	22	34	727	366	370	2.62	173
17	Ba500	Gneiss, Qtz-Fd	Ngn	38	78	31	5.9	1.9	0.5	0.8	0.1	10.0	6	1	8	38	2	102	633	79	360	1.69	60
18	Ba510	Gneiss, Qtz-Fd	Ngn	81	180	61	12.0	2.9	1.7	3.9	0.5	2.5	32	110	16	1030	47	857	2270	2560	541	5.92	453
19	Ba520	Sovite, Hbl	Mcs	202	419	116	26.6	7.3	2.8	3.3	0.4	0.5	65	3	3	64	2	80	4340	462	320	3.00	361
20	Ba600	Sovite	Mcs	72	151	42	8.9	2.1	1.2	1.1	0.2	4.7	14	1	10	107	2	80	4340	462	320	3.00	361
21	Ba610	Gneiss, Qtz-Fd	Ngn	181	421	133	27.7	7.7	4.0	4.0	0.5	1.6	68	268	41	1930	67	114	1450	3900	7170	2.00	1019
22	Ba620	Sovite, Hbl-Agt	Mcs	87	178	82	17.3	4.3	1.5	1.3	0.2	7.1	16	1	11	22	2	62	409	5902	409	2.35	484
23	Bb400	Syenite	Mcb1	637	693	173	26.1	6.1	1.8	2.6	0.4	10.6	36	7	23	860	25	27	246	1817	246	2.62	1907
24	Bb410	Syenite, fenitised	Msb	138	195	62	9.7	2.1	0.6	0.6	0.1	4.3	8	3	15	2	2	40	276	4960	100	0.80	511
25	Bb420	Beforsite	Mcb1	200	368	168	30.0	7.3	2.2	2.0	0.3	7.2	23	1	29	9	5	158	312	5350	197	6.36	998
26	Bb500	Beforsite	Mcb1	660	760	178	18.4	3.0	1.1	0.5	0.1	4.8	7	9	8	21	8	747	2420	1639	197	6.36	1990
27	Bb510	Beforsite	Mcb1	10225	11982	2164	234.8	31.4	3.2	1.8	0.2	0.5	25	8	64	148	3	3	10231	5574	5795	6.27	29949
28	Bb515	Beforsite, Ank	Mcb1	10240	9232	2099	243.6	35.5	4.6	2.3	0.3	0.5	74	10	270	15	3	17	1035	8702	131	1.19	26599
29	Bb520	Beforsite	Mcb1	95	169	56	9.3	2.0	1.2	0.7	0.1	5.8	7	1	7	5	2	40	276	4960	100	0.80	511
30	Bb525	Beforsite, Ank	Mcb1	97	141	37	8.5	2.0	1.1	0.9	0.1	6.3	11	3	16	30	2	5	7958	4922	4120	4.56	357
31	Bb600	Beforsite, Ank	Mcb1	32	56	20	3.5	0.9	0.5	0.9	0.1	11.4	8	15	7	342	3	262	2420	1639	197	6.36	998
32	Bb605	Syenite	Msb	75	112	36	9.0	1.7	1.3	2.3	0.3	10.2	34	3	24	42	2	41	956	183	442	2.57	314
33	C 100	Gneiss, Qtz-Fd	Ngn	83	105	44	12.4	1.6	1.6	3.0	0.4	6.8	32	5	24	28	2	44	297	97	354	1.09	335
34	C 300	Gneiss, Qtz-Fd	Ngn	56	61	19	3.8	0.8	0.6	0.7	0.1	6.4	10	3	19	25	2	51	210	38	260	0.75	182
35	C 310	Gneiss, Qtz-Fd	Ngn	49	44	13	3.4	1.1	0.7	1.3	0.2	4.8	9	8	21	299	9	419	1430	418	806	3.72	149
36	C 320	Gneiss, Qtz-Fd	Ngn	108	176	56	8.2	1.5	1.0	0.8	0.1	5.2	6	2	10	4	2	3	7445	3412	100	4.05	446
37	C 325	Beforsite, Ank	Mcb1	47	73	14	3.0	0.9	0.6	0.6	0.1	6.2	6	1	3	62	2	3	7830	3360	138	4.32	179
38	C 400	Beforsite	Mcb1	201	216	50	7.6	1.5	1.0	0.8	0.1	6.5	8	2	13	164	2	3	8298	3942	100	5.84	595
39	C 405	Beforsite, Ank	Mcb1	100	187	52	9.5	2.3	1.1	1.0	0.1	4.0	12	1	16	18	2	3	7270	5330	131	4.02	451
40	C 410	Beforsite	Mcb1	100	187	52	9.5	2.3	1.1	1.0	0.1	4.0	12	1	16	18	2	3	7270	5330	131	4.02	451
41	C 415	Syenite	Msb	71	121	46	8.8	2.1	1.0	0.9	0.1	7.1	14	1	10	4	2	3	7967	7004	1565	4.18	324
42	C 420	Doerite	Kdd	56	90	39	8.2	2.1	1.1	1.4	0.2	3.5	16	1	6	58	4	68	4150	1157	100	3.17	261
43	C 425	Beforsite	Mcb1	113	166	59	9.0	2.0	0.9	0.6	0.1	1.2	8	4	10	299	2	17	1393	6304	6312	5.52	444
44	C 500	Syenite, porphyritic	Mfn	12	30	13	3.0	0.9	0.7	1.7	0.3	1.2	10	21	7	359	12	110	1260	458	535	5.52	88
45	C 505	Beforsite	Mcb1	105	152	65	10.0	2.0	1.0	0.6	0.1	8.6	7	8	13	78	4	38	935	4125	178	2.94	428

B-3 Geochemical Analyses of the Orange Area (2)

No.	Sample No.	Rock Name	Rock	La	Ce	Nd	Sm	Eu	Tb	Yb	Lu	Sc	Y	U	Th	Nb	Ta	Zr	Mn	Sr	P	Fe	T-R203	
46	C 510	Beforsite, Phi	Mcb1	19	48	16	2.5	0.5	0.5	2.0	0.2	4.1	5	3	3	269	5	3	5250	5010	489	2.82	120	
47	C 515	Beforsite	Mcb1	103	133	54	10.2	2.6	0.7	0.5	0.1	1.3	10	1	32	67	2	1130	1487	6438	193	6.33	385	
48	C 520	Beforsite	Mcb1	36	57	20	4.4	1.1	0.7	0.8	0.1	4.9	6	1	7	111	2	5	5360	5340	670	2.29	157	
49	C 525	Beforsite	Mcb1	12760	11100	2322	364.4	65.6	13.5	2.7	0.3	2.4	130	14	656	29	5	9	100	9426	< 100	0.47	32716	
50	C 600	Sovite, Hbl-Agt	Mcs	153	276	92	21.6	5.2	3.7	4.5	0.5	5.1	48	5	2	112	3	61	2830	4240	1060	1.88	739	
51	C 605	Sovite, Hbl-Agt	Mcs	115	194	90	17.2	4.4	2.5	3.2	0.3	0.5	33	155	12	634	21	28	1172	3178	4514	1.04	562	
52	C 610	Sovite, Hbl-Agt	Mcs	190	321	108	22.0	5.8	2.8	3.2	0.4	0.5	53	22	5	67	2	4	1120	4890	2700	0.45	846	
53	C 620	Sovite, Hbl-Agt	Mcs	187	360	121	28.0	7.3	3.2	3.5	0.5	0.5	55	4	6	74	2	37	845	3740	3990	0.53	926	
54	C 700	Sovite, Hbl-Agt	Mcs	174	322	91	20.4	6.5	2.0	3.2	0.4	0.3	50	1	2	32	2	96	889	4330	3050	1.24	796	
55	C 800	Gneiss, Qtz-Fd	Ngn	27	57	20	4.5	1.0	1.0	3.0	0.4	3.3	37	1	8	9	2	11	171	109	220	0.40	158	
56	C 900	Gneiss, Qtz-Fd	Ngn	35	87	34	9.2	1.0	1.4	2.4	0.3	2.1	24	1	10	20	2	20	249	37	170	0.43	233	
57	Ca300	Gneiss, Qtz-Fd	Ngn	36	48	23	5.7	0.7	1.2	2.4	0.3	5.8	17	3	26	42	2	86	878	166	568	1.55	162	
58	Ca310	Beforsite	Mcb1	11	206	59	14.5	4.6	2.1	1.5	0.3	5.4	8	2	61	34	2	2	5	9310	3600	228	4.68	520
59	Ca315	Beforsite, Hbl-Agt-Phi-Ank	Mcb1	346	365	124	18.1	3.6	2.0	1.0	0.1	0.5	13	2	19	7	2	37	454	167	480	2.13	282	
60	Ca320	Gneiss, Qtz-Fd	Ngn	65	95	33	10.1	1.3	1.6	2.8	0.4	9.0	29	4	22	32	2	2	3	8941	4786	< 100	4.55	1102
61	Ca325	Beforsite, Hbl-Agt-Phi-Ank	Mcb1	111	186	95	19.7	5.0	2.5	1.0	0.1	39.1	20	7	11	238	2	99	6363	5262	< 100	4.33	552	
62	Ca400	Syenite, porphyritic, banded	Mfn	18	38	15	4.3	0.9	0.7	2.1	0.4	10.7	8	16	6	384	4	733	2480	262	2730	7.05	111	
63	Ca405	Beforsite, Hbl-Phi	Mcb1	415	483	134	18.0	3.8	1.9	0.6	0.1	7.4	12	5	7	163	2	4	3	7384	5716	< 100	4.25	1313
64	Ca410	Beforsite, Phi-Agt-Hbl-Do., ve	Mcb1	185	452	158	38.2	9.7	4.0	2.4	0.3	4.7	38	5	7	147	4	3	4090	3870	19300	2.89	1106	
65	Ca415	Beforsite	Mcb1	46	70	31	4.7	1.2	1.0	1.0	0.1	3.9	6	11	6	375	3	3	5174	5652	1779	3.24	205	
66	Ca420	Beforsite	Mcb1	244	436	102	19.9	3.8	1.9	2.2	0.3	5.7	13	1	31	236	2	2	3	5830	4630	132	3.00	1022
67	Ca425	Beforsite	Mcb1	104	126	50	7.2	1.8	0.9	0.6	0.1	1.8	8	7	9	135	2	16	169	5518	< 100	0.48	369	
68	Ca500	Beforsite	Mcb1	70	155	60	14.0	4.8	1.9	2.0	0.2	3.8	9	22	21	4730	9	7	5140	4790	196	2.69	422	
69	Ca505	Beforsite	Mcb1	2512	2317	566	111.0	18.8	3.4	0.7	0.1	5.3	22	5	117	939	2	5	9478	5220	< 100	5.01	6766	
70	Ca510	Beforsite	Mcb1	161	240	74	16.9	3.5	2.0	1.5	0.3	8.2	13	4	19	648	2	2	3	5790	5220	131	2.68	640
71	Ca515	Beforsite	Mcb1	595	618	209	25.4	4.6	1.5	0.9	0.1	8.8	10	7	29	1742	2	3	4442	6722	20583	3.24	1801	
72	Ca520	Beforsite	Mcb1	171	244	73	18.7	4.5	2.1	1.7	0.2	9.5	14	1	33	14	2	2	3	6360	6060	< 100	2.75	660
73	Ca525	Beforsite	Mcb1	706	763	320	46.5	9.1	2.4	0.9	0.1	8.4	18	7	73	936	2	36	573	6362	220	2.16	2303	
74	Ca600	Beforsite	Mcb1	211	304	52	10.9	2.0	1.0	0.8	0.1	5.0	14	5	24	2510	22	3	7660	5210	3290	3.57	721	
75	Ca605	Beforsite	Mcb1	4328	5716	1286	164.2	28.3	6.3	1.5	0.2	2.3	42	2	179	12	2	3	12351	7796	207	7.62	14155	
76	Ca620	Syenite, porphyritic	Msn	111	175	58	11.7	2.4	1.5	1.7	0.2	0.5	23	63	22	570	32	338	879	1810	2030	2.04	466	
77	Ca700	Syenite - albitite ?	Mcs	75	99	46	8.8	2.3	1.3	1.7	0.2	0.9	24	85	22	772	22	112	1090	1750	3510	1.05	310	
78	Ca710	Sovite, Agt-Phi-Hbl	Mcs	201	280	107	16.8	8.4	1.7	3.4	0.5	0.8	61	10	10	54	2	25	1990	4090	10100	0.73	791	
79	Ca720	Sovite, Agt-Phi-Hbl	Mcs	193	279	112	25.7	8.1	2.5	3.1	0.4	0.6	57	5	7	152	3	22	972	3390	11600	1.22	808	
80	Ch310	Beforsite	Mcb1	240	215	89	13.0	2.8	1.2	1.0	0.1	4.9	10	6	22	1152	2	3	7370	4706	< 100	7.93	705	
81	Ch315	Beforsite, Phi-Px	Mcb1	126	218	117	22.7	5.5	2.4	1.3	0.2	7.3	25	2	5	325	5	9	6257	5288	13017	2.94	674	
82	Ch325	Beforsite, Ank	Mcb1	114	159	72	14.4	3.5	1.8	0.9	0.1	4.1	15	75	10	2415	48	7	5125	3662	2278	5.64	474	
83	Ch400	Fenite, Agt-Phi	Mfn	108	172	104	24.2	6.5	2.2	1.7	0.2	0.9	32	12	11	182	6	48	1929	1428	2503	3.51	552	
84	Ch405	Beforsite, Phi-Px	Mcb1	459	548	100	15.5	3.6	1.8	1.2	0.1	5.8	19	2	9	87	2	2	3	6982	5446	618	3.69	1395
85	Ch410	Beforsite	Mcb1	93	96	54	8.7	1.8	0.7	0.7	0.1	0.5	8	13	8	960	11	764	1566	5214	7908	3.17	325	
86	Ch415	Beforsite	Mcb1	18	28	18	3.6	0.8	0.8	0.5	0.1	9.3	5	3	3	524	2	102	4960	4110	1780	7.87	96	
87	Ch420	Beforsite	Mcb1	1276	1472	365	86.3	13.4	3.1	1.3	0.2	10.3	26	7	129	513	2	172	2913	4290	882	6.16	3872	
88	Ch425	Beforsite	Mcb1	27	43	26	5.5	1.1	0.7	0.8	0.1	11.0	8	2	4	728	2	132	2822	5180	1540	5.69	140	
89	Ch600	Beforsite	Mcb1	68	101	57	10.3	2.0	0.8	0.6	0.1	2.9	8	5	16	890	7	16	207	4838	160	0.40	322	
90	Ch510	Beforsite	Mcb1	95	124	61	8.0	1.8	0.8	0.5	0.1	6.2	7	13	15	5984	2	3	10016	5010	< 100	9.18	371	

B-3 Geochemical Analyses of the Orange Area (3)

No.	Sample No.	Rock Name	Rock Code	La ppm	Ce ppm	Nd ppm	Sm ppm	Eu ppm	Tb ppm	Yb ppm	Lu ppm	Sc ppm	Y ppm	U ppm	Th ppm	Nb ppm	Ta ppm	Zr ppm	Mn ppm	Sr ppm	P ppm	Fe %	T-R203 ppm
91	Cb515	Beforsite, Phl-Agt	Mcb1	106	153	57	7.8	1.6	0.6	0.6	0.1	0.5	7	6	13	81.9	2	36	2338	5204	4960	3.71	412
92	Cb520	Beforsite	Mcb1	297	348	160	21.3	4.3	0.9	0.8	0.1	4.8	12	4	24	1011	2	4	7226	1871	1040	5.45	1040
93	Cb525	Beforsite	Mcb1	429	558	283	36.4	7.8	1.8	1.0	0.1	6.0	18	13	61	1905	2	4	7256	5780	100	4.95	1615
94	Cb600	Beforsite	Mcb1	60	74	56	10.4	2.4	0.8	0.7	0.1	4.2	9	1	6	385	2	3	5861	4790	100	3.73	266
95	Cb605	Beforsite, Ank	Mcb1	30	52	25	5.5	1.1	0.7	0.3	0.1	0.5	5	5	1	21	2	3	183	6542	1067	0.50	151
96	Cb610	Beforsite	Mcb1	1911	2420	563	88.5	13.5	2.8	1.4	0.1	7.3	26	6	93	523	3	102	1399	7222	209	2.19	6145
97	Cb615	Beforsite, Ank	Mcb1	56	69	38	6.2	1.5	0.8	0.6	0.1	0.5	6	1	4	38	2	508	2477	4160	1404	4.07	224
98	Cb620	Syenite, Agt-Hbl, fenitised	Nsu	73	110	64	12.8	3.6	1.2	2.2	0.3	1.3	28	78	22	686	31	145	2332	1929	11372	4.07	352
99	Cc310	Gneiss, Qtz-Fc, fenitised	Mgn	65	106	64	11.2	2.0	1.4	1.5	0.2	3.9	15	3	25	70	2	3	1921	4462	100	9.64	332
100	Cc315	Beforsite, Px-Hbl	Mcb1	184	227	88	14.9	3.1	1.6	0.7	0.1	5.9	8	1	19	6	2	3	8678	4558	100	5.36	659
101	Cc320	Beforsite	Mcb1	246	323	120	17.7	3.7	1.2	0.8	0.1	5.2	12	5	27	17	2	3	7804	820	100	5.64	894
102	Cc325	Beforsite, Ank	Mcb1	106	160	57	11.1	2.7	1.3	0.9	0.1	7.2	13	2	15	37	2	3	8437	6788	955	4.82	437
103	Cc400	Beforsite	Mcb1	282	443	159	20.3	4.0	1.0	0.8	0.1	4.7	11	3	30	9	3	3	9690	3092	100	6.69	1138
104	Cc405	Beforsite, Hbl-Agt-Pbl	Mcb1	61	96	44	9.0	2.0	1.0	0.7	0.1	7.4	10	35	5	733	18	7	6954	5098	4840	4.37	278
105	Cc410	Fenite	Mfn	75	118	77	18.3	4.5	2.0	1.0	0.1	4.5	14	2	10	118	2	3	6432	1409	100	4.79	394
106	Cc415	Beforsite	Mcb1	205	287	103	16.4	3.4	1.5	0.7	0.1	5.9	10	2	12	85	2	3	8117	5932	7201	4.75	779
107	Cc420	Beforsite, Ap	Mcb1	122	181	134	26.4	6.4	2.3	1.3	0.2	8.5	26	5	4	978	6	3	5482	5280	10445	3.92	621
108	Cc425	Beforsite, Phl	Mcb1	210	266	112	20.2	5.1	1.6	1.8	0.2	5.6	27	9	52	883	15	3	6244	6762	12911	3.63	772
109	Cc500	Beforsite	Mcb1	68	97	53	10.0	2.3	1.0	0.6	0.1	5.6	8	1	11	179	2	3	6238	7312	3100	2.96	301
110	Cc505	Beforsite, Agt-Pbl	Mcb1	150	183	75	10.3	2.1	0.9	0.8	0.1	6.8	9	5	11	1414	2	3	6122	6150	100	3.33	533
111	Cc510	Beforsite	Mcb1	135	199	76	10.3	2.0	0.8	0.7	0.1	4.5	8	2	9	771	2	3	6143	5484	100	3.33	485
112	Cc515	Beforsite	Mcb1	154	199	96	16.2	3.5	1.0	1.0	0.1	7.5	14	4	17	737	2	3	5620	5054	100	3.86	597
113	Cc520	Beforsite	Mcb1	42	69	35	5.7	1.5	0.5	0.4	0.1	4.8	5	1	3	21	2	3	5405	6678	548	2.73	199
114	Cc525	Syenite, Agt-phl	Nsu	96	120	35	7.5	1.5	0.5	0.6	0.1	4.9	6	3	5	497	2	11	7706	5358	100	4.33	329
115	Cc600	Beforsite	Mcb1	48	66	20	3.5	1.3	0.8	0.8	0.1	5.2	10	2	17	17	2	3	8968	7068	4025	3.49	183
116	Cc605	Beforsite, Ank	Mcb1	145	173	47	9.0	2.2	1.0	0.7	0.1	6.3	12	2	24	23	2	3	9151	6264	11659	4.92	475
117	Cc610	Beforsite	Mcb1	52	73	24	5.2	1.6	1.0	1.0	0.1	0.5	12	69	43	1243	34	84	1063	1297	182	2.00	208
118	D 100	Gneiss, Qtz-Fd	Mgn	42	62	32	8.2	0.6	1.2	1.5	0.2	9.7	16	3	14	24	2	4	571	168	435	1.75	200
119	D 200	Beforsite vein, Phl-Agt-Hbl	Mcd	742	1629	394	49.9	14.5	8.7	11.0	1.1	19.6	105	20	39	288	4	113	5880	13300	5370	3.77	3591
120	D 220	Gneiss, Qtz-Fd	Nsu	27	35	17	5.0	0.5	0.7	0.7	0.1	3.5	6	2	15	23	2	3	317	87	221	0.61	116
121	D 300	Syenite - albite	Nsu	21	37	12	2.6	0.9	0.5	0.7	0.1	1.9	7	5	8	127	3	93	789	123	929	1.42	99
122	D 305	Beforsite	Mcb1	146	174	65	11.1	2.1	1.2	1.3	0.2	7.1	11	8	12	1249	2	3	10501	3302	199	6.71	510
123	D 310	Beforsite	Mcd	4735	9218	2827	484.4	109.0	15.3	3.0	0.3	5.4	66	26	630	416	15	3	6260	2010	222	6.85	21657
124	D 400	Beforsite	Mcb1	31	47	16	3.0	0.9	0.4	0.7	0.1	5.3	6	1	2	15	2	3	6210	4690	127	2.83	129
125	D 405	Beforsite	Mcb1	181	194	76	10.2	2.3	0.9	1.0	0.1	5.2	15	15	15	2035	2	4	13798	4810	100	5.74	385
126	D 410	Beforsite	Mcb1	173	215	75	13.7	2.3	1.7	0.7	0.1	5.6	10	8	17	881	3	3	5930	3530	201	3.13	611
127	D 415	Beforsite	Mcb1	37	59	23	4.3	1.1	0.5	0.5	0.1	4.7	6	1	1	1280	2	3	6245	5970	100	2.87	182
128	D 420	Beforsite	Mcb1	50	67	22	4.3	1.1	0.6	0.8	0.1	6.0	11	2	4	391	2	3	5200	3830	213	2.79	188
129	D 500	Beforsite	Mcb1	39	53	15	4.3	0.9	0.6	0.7	0.1	5.5	5	2	1	35	2	3	4970	4610	104	2.90	148
130	D 505	Beforsite	Mcb1	2681	3415	927	165.0	30.3	7.0	1.6	0.2	6.1	55	11	228	939	2	3	5607	2690	100	5.84	8924
131	D 510	Beforsite	Mcb1	73	117	30	6.9	1.5	0.9	0.7	0.1	8.4	8	2	2	598	2	3	4990	4790	207	2.49	284
132	D 515	Beforsite, Ank	Mcb1	1112	1172	382	65.5	11.2	3.6	0.7	0.1	5.0	20	4	73	491	2	3	7734	5758	100	4.63	3420
133	D 520	Beforsite	Mcb1	91	152	37	7.6	1.6	1.0	0.8	0.1	7.1	9	3	6	430	2	3	5300	4610	100	2.71	371
134	D 525	Beforsite, Ank	Mcb1	273	291	84	15.1	3.0	1.1	1.3	0.2	5.7	16	17	9	1710	2	3	6994	5388	100	3.24	834
135	D 600	Beforsite	Mcb1	280	512	150	18.6	3.5	1.7	1.4	0.2	5.0	15	11	18	1190	2	18	6300	4050	142	4.30	1337

B-3 Geochemical Analyses of the Orange Area (4)

No.	Samples No.	Rock Name	Rock Code	La ppm	Ce ppm	Nd ppm	Sm ppm	Eu ppm	Tb ppm	Yb ppm	Lu ppm	Sc ppm	Y ppm	U ppm	Th ppm	Nb ppm	Ta ppm	Zr ppm	Mn ppm	Sr ppm	P ppm	Fe %	T-1203 ppm	
136	D 605	Beforsite, Ank	Mcb1	122	157	65	10.5	2.3	1.0	0.8	0.1	4.3	7	7	16	2129	12	9	7670	5576	100	4.00	468	
137	D 610	Beforsite	Mcb1	82	150	46	7.3	1.7	1.0	0.9	0.1	5.2	5	5	1	6	6	2	6440	5270	100	3.01	369	
138	D 615	Beforsite, Ank	Mcb1	76	102	41	6.9	1.5	0.6	0.9	0.1	4.8	6	6	1	2	64	2	8194	6370	100	4.34	292	
139	D 620	Beforsite	Mcb1	77	119	44	7.5	1.7	1.2	1.5	0.2	4.4	8	8	1	3	37	2	8540	4470	100	2.97	327	
140	D 700	Beforsite	Mcb1	57	101	27	3.2	1.1	0.5	0.7	0.1	6.2	6	6	1	82	2	3	6700	4920	100	3.54	241	
141	D 705	Beforsite, Ank	Mcb1	178	225	74	8.3	1.9	0.9	0.9	0.1	4.3	6	2	9	371	2	2	7170	5532	100	3.82	614	
142	D 710	Sovite, Ph-Hbl, banded	Mcs	104	161	59	12.0	3.4	2.0	3.0	0.4	0.8	40	1	1	38	2	64	1320	2430	162	0.91	455	
143	D 720	Sovite, Px-Hbl	Mcs	133	209	70	13.7	4.2	2.2	4.3	0.5	1.0	41	42	10	522	2	290	1730	2730	2650	2.92	574	
144	D 800	Gneiss, Qtz-Fd, fenitised	Mgn	36	50	20	4.3	1.1	0.9	2.5	0.4	15.8	20	19	22	265	4	4	467	1230	277	632	3.70	157
145	Da220	Syenite - albite	Msu	54	73	32	6.0	1.4	0.9	0.6	0.1	2.3	11	11	7	200	5	152	422	262	538	1.23	219	
146	Da300	Gneiss, Qtz-Fd, fenitised	Mgn	156	383	152	45.0	14.0	7.2	7.9	1.0	0.5	99	31	15	862	26	907	1150	671	7960	2.35	1053	
147	Da305	Fenite, Agt	Mfn	169	214	99	26.2	6.5	2.8	1.8	0.2	8.7	28	9	33	539	13	179	3311	795	1927	4.87	678	
148	Da310	Syenite, bre	Msu	223	510	181	45.4	11.6	5.4	2.7	0.3	5.6	22	23	76	1440	11	140	4120	861	2030	6.61	1282	
149	Da320	Beforsite, banded	Mcb1	217	496	196	39.3	10.1	4.8	1.9	0.2	4.3	43	9	2	252	9	11	7290	3960	13000	3.86	1202	
150	Da400	Beforsite, Agt	Mcb1	578	1381	430	89.3	21.5	9.7	2.8	0.3	4.4	20	2	101	31	2	3	7720	5090	171	4.61	3339	
151	Da405	Beforsite	Mcb1	196	217	73	13.1	2.5	0.9	0.8	0.1	4.8	8	2	12	197	2	2	8750	5780	100	3.66	630	
152	Da410	Beforsite	Mcb1	37	84	22	4.3	0.9	0.7	1.0	0.1	2.4	7	3	6	1190	2	3	6250	5290	210	4.99	195	
153	Da415	Beforsite, Ap	Mcb1	62	95	29	4.5	1.3	0.6	1.0	0.1	4.9	8	8	7	2736	2	2	7294	5940	100	3.45	247	
154	Da420	Beforsite	Mcb1	110	217	71	9.0	2.2	1.0	0.8	0.1	3.4	11	2	15	510	2	2	5540	6560	214	2.48	522	
155	Da425	Beforsite	Mcb1	53	65	19	5.2	1.3	0.5	0.6	0.1	5.4	6	6	4	1558	2	2	7775	7010	100	4.55	185	
156	Da500	Beforsite	Mcb1	49	110	28	4.3	1.0	0.7	0.7	0.1	3.0	9	5	6	1960	3	4	5740	5010	278	4.24	248	
157	Da505	Beforsite, Ank	Mcb1	78	106	34	6.4	1.3	0.9	0.6	0.1	6.7	7	6	8	2589	2	3	7037	5690	100	4.09	291	
158	Da510	Beforsite	Mcb1	55	134	34	4.3	1.1	0.7	0.7	0.1	4.6	7	2	6	202	2	2	3	7770	5780	144	5.02	232
159	Da515	Beforsite, Ank	Mcb1	123	158	56	9.6	2.1	1.1	0.7	0.1	6.3	9	3	10	1383	2	2	3	7578	5708	100	3.28	445
160	Da520	Beforsite	Mcb1	98	170	41	5.1	1.7	0.8	0.7	0.1	4.3	10	2	8	284	2	2	3	7580	4620	266	3.70	388
161	Da525	Beforsite, Ank	Mcb1	135	191	55	6.9	1.4	0.7	0.7	0.1	4.6	6	1	3	801	2	2	3	6498	5585	100	3.40	488
162	Da600	Beforsite	Mcb1	758	1207	228	45.2	10.6	4.8	1.2	0.1	3.9	20	1	35	20	2	2	3	8960	5760	134	5.00	2805
163	Da610	Beforsite	Mcb1	97	223	50	8.1	1.8	1.0	0.8	0.1	2.9	9	2	8	381	2	2	3	5650	5340	143	2.85	482
164	Da700	Beforsite	Mcb1	104	231	56	9.5	2.2	0.9	0.8	0.1	3.9	9	1	10	71	2	2	3	5790	5080	121	2.87	511
165	Da705	Beforsite, Ank	Mcb1	62	101	41	6.4	1.5	1.0	0.9	0.1	4.6	5	1	8	756	2	2	3	7637	5000	100	5.62	278
166	Da710	Beforsite	Mcb1	96	189	43	9.8	1.5	0.7	0.5	0.1	2.7	7	1	9	61	2	2	3	6890	6140	117	3.95	427
167	Da715	Beforsite, Ank	Mcb1	46	76	44	9.1	2.3	1.1	0.9	0.1	10.4	10	1	3	20	2	2	3	6294	5036	2154	2.69	238
168	Da720	Syenite, bre	Mfn	52	109	63	8.1	1.3	1.3	1.5	0.2	6.9	10	1	5	45	2	2	185	1290	410	1440	3.20	313
169	Da800	Gneiss, Qtz-Fd, fenitised	Mgn	22	39	16	3.9	0.9	0.8	2.5	0.4	5.7	8	16	96	119	2	204	2170	231	1020	4.44	121	
170	Da810	Gneiss, Qtz-Fd, fenitised	Mgn	32	74	26	5.7	0.9	1.2	3.2	0.5	6.6	15	2	31	59	2	164	2170	273	1700	4.29	197	
171	Db305	Syenite, Agt-Hbl	Msu	112	124	50	8.1	1.9	0.8	0.8	0.1	0.5	6	18	19	1274	31	43	487	705	100	1.30	377	
172	Db310	Syenite, Agt-Hbl	Msu	782	1397	570	117.7	23.5	6.3	1.0	0.1	1.0	16	16	142	1531	25	18	2686	887	1618	3.60	3663	
173	Db315	Fenite	Mfn	146	214	93	18.3	4.8	2.2	1.8	0.2	1.2	27	3	10	498	38	128	3254	2312	7198	6.41	624	
174	Db320	Beforsite	Mcb1	405	536	200	42.2	10.2	4.2	1.6	0.2	7.9	35	1	2	20	2	3	7356	4830	20346	3.02	1529	
175	Db325	Beforsite	Mcb1	34	80	25	4.7	1.4	0.8	0.5	0.1	4.8	7	1	5	42	2	2	3	6682	5462	678	3.08	191
176	Db400	Beforsite	Mcb1	265	318	76	14.0	2.8	1.2	0.9	0.1	5.7	11	3	12	718	2	3	7662	4618	100	4.02	844	
177	Db405	Beforsite	Mcb1	31	50	16	3.5	0.8	0.5	0.7	0.1	4.5	6	2	3	1047	2	2	3	5954	5354	100	4.82	134
178	Db410	Beforsite	Mcb1	49	76	21	5.1	1.1	0.9	0.5	0.1	4.4	7	4	5	1886	2	2	3	5259	6236	100	3.40	199
179	Db415	Beforsite	Mcb1	158	284	62	8.3	2.8	1.2	0.8	0.1	6.8	10	1	24	214	2	2	3	7113	7316	100	3.49	613
180	Db420	Beforsite, Ap	Mcb1	460	590	113	19.5	3.7	2.4	1.4	0.2	6.5	18	11	34	3376	2	2	3	6762	5950	254	3.69	1478

B-3 Geochemical Analyses of the Orange Area (5)

No.	Sample No.	Rock Name	La ppm	Ce ppm	Nd ppm	Sm ppm	Eu ppm	Tb ppm	Yb ppm	Lu ppm	Sc ppm	Y ppm	U ppm	Th ppm	Nb ppm	Ta ppm	Zr ppm	Mn ppm	Sr ppm	P ppm	Fe %	T-R203 ppm	
181	D6425	Beforsite	43	68	28	3.9	1.0	0.7	0.7	0.1	4.9	6	4	5	1244	2	3	5767	5404	100	4.23	189	
182	D6506	Beforsite	77	134	35	6.8	1.5	0.9	0.9	0.1	7.8	8	4	8	1744	2	3	7967	4926	100	5.42	327	
183	D6510	Beforsite	97	153	31	7.5	1.8	1.0	0.6	0.1	5.7	8	8	9	3355	2	3	8549	5334	100	6.67	369	
184	D6515	Beforsite	403	553	103	23.4	4.9	2.8	1.3	0.2	9.8	18	1	18	76	2	3	7588	8496	100	3.71	1363	
185	D6520	Beforsite, Ap	41	65	13	3.1	0.8	0.5	0.4	0.1	7.0	5	1	7	891	2	3	6206	5602	100	3.11	158	
186	D6600	Beforsite	138	237	56	5.2	1.2	0.6	0.7	0.1	5.0	7	6	5	2376	2	3	9171	4676	100	7.28	547	
187	D6610	Beforsite	189	275	54	9.0	1.8	1.1	0.6	0.1	5.2	8	3	6	152	2	3	7853	5304	100	5.14	661	
188	D6620	Beforsite	253	342	59	12.4	2.4	0.8	0.5	0.1	4.6	7	1	11	613	2	3	6956	5730	100	3.98	215	
189	D6700	Beforsite	71	111	42	5.9	1.1	0.8	0.5	0.1	4.7	5	1	8	383	2	3	7159	5682	100	3.78	825	
190	D6705	Beforsite, Ank	20	31	12	1.6	0.5	0.4	0.7	0.1	4.7	6	1	4	1852	2	3	7035	4716	100	4.33	297	
191	D6710	Beforsite	54	77	15	4.3	0.5	0.4	0.7	0.1	3.9	1	2	11	1036	2	3	8172	5424	227	5.25	87	
192	D6715	Beforsite, Ank	101	133	98	18.1	6.0	2.8	2.1	0.3	1.3	57	4	29	386	15	70	2009	2772	8116	4.03	487	
193	D6720	Fenite	149	199	80	11.9	2.3	1.0	0.9	0.1	6.4	11	9	13	2123	2	3	6269	5556	108	3.41	562	
194	Dc320	Fenite, Agt-Phl	38	66	18	5.0	1.0	0.8	0.7	0.1	5.5	8	4	4	421	2	3	6285	4855	8818	4.83	170	
195	Dc405	Beforsite	55	67	24	2.7	0.5	0.8	1.0	0.1	3.6	3	9	206	4421	2	3	7846	5304	109	5.86	196	
196	Dc410	Beforsite	77	109	42	6.6	1.1	1.0	0.6	0.1	4.2	6	10	6	612	2	3	7005	5568	100	4.84	305	
197	Dc415	Beforsite	44	78	32	4.9	1.0	0.5	0.7	0.1	4.3	5	2	3	1756	2	3	6102	5620	100	3.65	211	
198	Dc420	Beforsite	12	18	8	1.6	0.5	0.5	0.7	0.1	4.9	1	2	3	1751	2	3	5770	5330	100	2.98	228	
199	Dc425	Beforsite	55	78	30	3.9	0.8	0.6	0.6	0.1	5.1	6	1	6	505	2	3	8038	2012	652	6.43	14741	
200	Dc500	Beforsite	4055	5959	1688	182.4	31.4	8.1	1.1	0.1	6.5	45	3	6	4609	2	5	5359	3336	100	4.01	352	
201	Dc505	Beforsite	100	122	42	8.0	2.2	0.9	1.0	0.1	9.7	13	7	12	1732	2	3	6537	4332	258	3.71	817	
202	Dc510	Beforsite	213	303	112	13.2	2.6	1.6	1.0	0.1	5.4	12	3	14	1732	2	3	7802	5956	100	4.21	316	
203	Dc515	Beforsite, Ank	92	105	42	6.3	1.6	0.8	0.7	0.1	5.1	8	5	7	1128	2	3	220	73	38	100	5.05	390
204	Dc525	Beforsite, Ank	93	148	39	5.4	0.6	1.5	7.0	1.0	0.5	31	17	59	214	26	220	6970	5724	100	4.10	58	
205	Dc600	Granophyre	150	190	60	11.5	2.4	1.0	0.8	0.1	6.1	10	2	44	504	2	3	8308	6970	100	3.68	524	
206	Dc605	Beforsite, Ank	106	206	62	8.3	1.9	0.6	0.6	0.1	4.2	7	2	41	3178	2	14	5626	5386	100	3.17	484	
207	Dc610	Beforsite	100	211	91	8.5	1.9	0.4	0.7	0.1	5.2	5	2	13	581	2	3	8390	5578	100	4.40	521	
208	Dc615	Beforsite, Ank	54	108	38	5.9	1.2	0.5	0.8	0.1	4.1	4	1	7	260	2	3	5896	6398	100	2.59	266	
209	Dc620	Beforsite	98	159	53	8.3	1.7	0.5	0.9	0.1	4.7	5	1	7	1031	2	3	6173	5796	100	2.88	417	
210	Dc625	Beforsite, Ank	365	455	106	16.0	3.2	1.1	0.8	0.1	4.4	10	3	10	698	2	3	7010	4176	100	6.32	1171	
211	Dc700	Beforsite	239	332	69	8.1	1.9	1.0	0.6	0.1	5.3	7	1	20	1762	2	3	5522	5082	100	3.10	808	
212	Dc705	Beforsite, Ank	50	84	29	4.5	0.9	0.5	0.5	0.1	6.1	5	1	2	126	2	3	6179	5258	100	2.98	216	
213	Dc710	Beforsite	414	666	191	32.9	7.5	3.8	3.9	0.4	5.8	47	1	1	28	2	3	5314	10122	2634	2.02	1676	
214	Dc715	Sovite, Px-Phl	14	17	9	2.2	0.5	0.5	2.0	0.2	3.2	13	11	8	8	2	21	242	18	285	0.32	65	
215	E 100	Gneiss, Qtz-Rd	33	48	21	4.3	0.9	0.8	2.0	0.2	3.2	11	1	7	136	2	221	1570	346	1110	4.04	151	
216	E 220	Syenite, banded	1225	1982	340	50.4	8.8	4.0	1.1	0.2	6.4	16	7	68	4	4	3	9110	2570	139	8.01	4448	
217	E 300	Beforsite, Ank	440	794	306	59.9	11.9	3.3	0.9	0.1	2.1	15	12	58	2734	23	22	3091	1097	156	3.29	1992	
218	E 305	Syenite	1881	1112	391	80.8	21.8	7.5	1.8	0.2	0.9	24	41	156	3310	43	49	1860	896	4840	2.86	2881	
219	E 310	Syenite, banded	66	133	41	9.0	1.4	1.2	1.3	0.1	5.2	8	5	310	143	5	15	7464	2872	4675	7.79	8373	
220	E 315	Fenite	66	133	41	9.0	1.4	1.2	1.3	0.1	5.2	8	5	310	143	5	15	7464	2872	4675	7.79	8373	
221	E 320	Beforsite, Phl-Hbl	427	592	127	16.4	3.4	1.5	1.3	0.2	4.5	17	1	4	735	21	3	3650	3080	1860	4.14	329	
222	E 325	Beforsite	60	112	27	4.3	0.9	0.8	0.9	0.1	5.8	7	2	7	343	2	3	7339	5294	100	5.12	1448	
223	E 400	Beforsite	45	86	22	3.5	0.9	0.6	0.6	0.1	4.3	7	9	4	1289	2	3	6290	4430	100	3.61	263	
224	E 405	Beforsite	45	86	22	3.5	0.9	0.6	0.6	0.1	4.3	7	9	4	1289	2	3	6290	4430	100	3.61	263	
225	E 405	Beforsite	45	86	22	3.5	0.9	0.6	0.6	0.1	4.3	7	9	4	1289	2	3	6290	4430	100	3.61	263	

B-3 Geochemical Analyses of the Orange Area (6)

No. Sample	Rock Name	Rock Code	La ppm	Ce ppm	Nd ppm	Sm ppm	Eu ppm	Tb ppm	Yb ppm	Lu ppm	Sc ppm	Y ppm	U ppm	Th ppm	Nb ppm	Ta ppm	Zr ppm	Sr ppm	P ppm	Fe %	T-R203 ppm			
226 E 410	Beforsite	Mcb1	274	396	105	15.9	3.5	1.1	0.6	0.1	6.3	12	6	32	1500	2	3	5040	129	2.56	990			
227 E 415	Beforsite, Ap	Mcb1	2315	3849	1009	152.2	27.8	5.1	2.0	0.2	7.4	55	8	184	514	2	2	7036	4350	100	4.60	9121		
228 E 420	Beforsite	Mcb1	53	84	24	4.3	1.0	0.6	0.6	0.1	5.9	10	6	7	2020	2	3	5390	4790	105	2.93	215		
229 E 425	Beforsite	Mcb1	94	170	51	6.9	1.5	1.0	0.7	0.1	5.1	8	3	5	1637	2	3	6635	5762	100	4.47	413		
230 E 500	Beforsite	Mcb1	63	76	22	3.9	1.1	0.6	0.7	0.1	3.2	8	10	5	997	2	3	6900	4440	100	4.52	213		
231 E 505	Beforsite	Mcb1	72	131	35	6.0	1.1	0.8	0.8	0.1	5.7	6	3	5	1406	2	3	7459	6510	100	5.03	314		
232 E 510	Beforsite	Mcb1	1593	3063	593	83.8	18.3	7.2	2.5	0.2	3.2	48	18	190	507	4	7	5000	5980	149	3.85	6648		
233 E 515	Beforsite	Mcb1	173	355	99	18.7	4.0	2.1	1.8	0.2	9.6	15	6	14	6124	2	2	3	5961	4996	100	3.35	835	
234 E 520	Beforsite	Mcb1	153	215	67	11.9	2.8	1.2	0.8	0.1	4.5	12	2	13	13	2	2	3	5690	6890	114	2.27	572	
235 E 600	Beforsite	Mcb1	68	133	34	5.8	1.1	0.7	0.8	0.1	2.5	7	4	7	2400	2	3	7680	4580	100	4.48	309		
236 E 610	Beforsite	Mcb1	423	863	252	38.1	8.9	3.6	1.0	0.1	2.0	19	3	13	855	2	2	3	5860	4650	100	2.99	2003	
237 E 620	Beforsite	Mcb1	64	111	31	4.7	1.5	0.8	0.6	0.1	2.2	6	6	1	4	307	2	2	3	6280	4650	100	2.97	273
238 E 700	Beforsite	Mcb1	171	322	112	13.5	1.2	1.5	0.6	0.1	2.4	7	1	8	245	2	2	3	7360	4560	100	3.29	785	
239 E 705	Beforsite	Mcb1	734	985	193	25.9	4.6	1.3	0.6	0.1	3.9	10	3	16	1598	2	2	3	8000	5318	100	4.78	2388	
240 E 710	Beforsite	Mcb1	69	131	35	5.1	1.4	0.7	0.9	0.1	2.3	5	5	1	4	153	2	2	3	6090	4850	100	3.25	309
241 E 715	Beforsite, Ank	Mcb1	290	375	79	14.2	2.6	1.6	0.8	0.1	5.1	9	2	19	655	2	2	4	7150	7606	100	4.29	880	
242 E 720	Beforsite	Mcb1	62	148	53	13.1	3.5	1.8	1.4	0.2	3.8	14	1	2	117	2	2	3	4670	4500	2570	1.84	374	
243 E 800	Syenite, bre.	Msu	60	87	28	4.8	1.7	0.8	0.7	0.1	0.5	8	30	18	302	5	79	700	840	720	1.30	236		
244 E 810	Gneiss, Qlz-fd, fenitised	Mgn	33	45	13	2.8	0.9	0.4	0.8	0.1	0.5	2	2	1	4	4	2	4	214	427	1110	0.38	124	
245 E 900	Gneiss, Qlz-fd	Mgn	73	128	40	7.1	2.0	0.9	2.6	0.4	4.1	22	2	20	56	2	2	108	322	404	1.60	329		
246 Ea220	Syenite	Msu	38	75	36	8.0	2.7	1.3	2.4	0.3	0.5	24	9	11	534	20	695	1910	923	1550	3.67	224		
247 Ea300	Beforsite, Agt aggregation	Mcb1	64	163	42	5.6	1.6	0.9	0.9	0.1	2.6	12	8	13	49	2	3	8170	5020	231	5.06	355		
248 Ea305	Beforsite	Mcb1	8282	12082	2428	563.6	107.5	18.7	2.9	0.3	0.5	112	3	563	113	2	2	3	7720	7576	1731	6.78	29892	
249 Ea310	Beforsite, Fd bearing	Mcd	1826	4389	1516	321.0	80.0	15.1	4.1	0.5	4.2	87	18	389	87	3	12	6520	2550	3900	6.12	10239		
250 Ea313	Syenite, Agt-Hbl	Msu	183	352	94	21.9	5.5	2.9	1.9	0.2	0.5	31	3	13	80	2	37	2507	2102	8266	2.11	851		
251 Ea317	Beforsite	Mcb1	1482	2038	420	85.2	17.4	4.4	0.9	0.1	5.0	20	1	106	8	2	2	3	9449	5426	100	5.81	4991	
252 Ea320	Syenite, Ap	Msu	186	420	134	39.2	11.3	5.6	3.8	0.5	0.7	52	2	42	123	8	174	1930	3270	10300	3.10	1063		
253 Ea325	Beforsite	Mcb1	234	406	84	15.3	2.8	1.1	0.8	0.1	6.8	9	1	13	41	2	2	3	6535	5612	100	3.56	926	
254 Ea400	Beforsite	Mcb1	132	326	78	9.6	2.4	1.1	0.9	0.1	2.9	9	2	14	93	2	2	3	6080	5160	153	5.77	692	
255 Ea405	Beforsite	Mcb1	55	105	25	5.8	1.1	0.6	0.6	0.1	3.8	4	2	6	388	2	2	3	6282	5508	100	4.16	246	
256 Ea410	Beforsite	Mcb1	55	88	22	3.9	0.9	0.7	0.9	0.2	2.3	6	6	6	795	3	3	3	9450	4140	161	8.11	220	
257 Ea415	Beforsite	Mcb1	505	794	132	27.4	5.4	1.9	0.8	0.1	4.8	11	4	4	1640	2	2	3	5974	5390	251	3.27	1810	
258 Ea420	Beforsite	Mcb1	156	377	88	15.3	3.4	1.7	1.2	0.2	4.1	18	5	26	180	2	13	6990	4810	283	3.77	815		
259 Ea425	Beforsite	Mcb1	478	701	126	19.6	3.8	1.5	0.9	0.1	5.6	16	10	42	423	2	2	3	5954	6030	100	3.14	1841	
260 Ea500	Beforsite	Mcb1	41	79	21	5.0	0.9	0.6	0.8	0.1	2.7	6	3	4	690	2	2	3	6160	5030	128	4.40	193	
261 Ea505	Beforsite	Mcb1	194	352	75	17.6	3.5	1.5	0.8	0.1	5.2	10	7	22	1908	2	2	3	8352	6422	100	6.10	809	
262 Ea510	Beforsite with Dol mega-crystal	Mcb1	115	224	59	7.3	2.2	0.9	0.8	0.1	4.4	10	2	14	317	2	2	3	7850	5080	216	5.69	517	
263 Ea515	Beforsite	Mcb1	53	133	23	6.2	1.1	1.0	1.5	0.1	4.8	7	3	3	740	2	2	3	6980	6142	100	3.31	283	
264 Ea520	Beforsite	Mcb1	89	179	49	5.1	1.5	0.7	1.0	0.1	3.0	8	8	12	1080	2	2	3	6560	4770	145	4.98	411	
265 Ea525	Beforsite	Mcb1	236	408	83	15.6	3.1	1.8	0.6	0.1	6.0	10	4	22	1877	2	2	3	7787	4716	100	6.05	936	
266 Ea600	Beforsite	Mcb1	50	114	28	4.3	1.0	0.6	1.2	0.2	3.2	7	4	9	1360	2	2	3	6650	4600	126	4.06	255	
267 Ea605	Beforsite	Mcb1	218	283	43	8.8	2.0	1.2	0.8	0.1	6.8	8	2	14	964	2	2	3	6923	5336	100	4.08	691	
268 Ea610	Beforsite with Dol mega-crystal	Mcb1	140	293	84	15.6	3.7	1.7	1.1	0.1	6.8	16	1	27	10	2	2	3	7380	7170	144	3.28	669	
269 Ea620	Beforsite	Mcb1	90	156	42	5.1	1.6	0.9	0.9	0.1	2.8	6	1	9	185	2	2	3	6230	5270	116	3.58	377	
270 Ea700	Beforsite	Mcb1	70	141	41	6.2	1.9	0.9	0.6	0.1	2.4	7	1	8	35	2	2	4	6130	4800	194	3.45	334	

B-3 Geochemical Analyses of the Orange Area (7)

No.	Sample No.	Rock Name	Rock Code	La	Ce	Nd	Sm	Eu	Tb	Yb	Lu	Sc	Y	U	Ti	Nb	Ta	Zr	Hf	Sr	P	Fe %	T-1203 ppm	
271	Ea705	Beforsite, Ank	Mcb1	544	812	158	28.9	5.5	2.5	0.7	0.1	5.5	13	1	30	178	2	3	7940	5398	100	3.73	1922	
272	Ea710	Beforsite, Ank	Mcb1	72	152	42	4.8	1.6	0.6	0.7	0.1	2.3	6	1	8	312	2	3	5430	5760	131	3.43	347	
273	Ea715	Beforsite, Ank	Mcb1	73	131	27	5.2	1.3	0.7	0.6	0.1	4.4	6	3	19	2545	2	3	6006	2370	370	3.69	302	
274	Ea720	Beforsite	Mcb1	87	192	47	7.7	2.0	0.9	0.8	0.1	2.3	7	1	10	55	2	3	6280	5630	148	3.44	428	
275	Ea800	Sorite	Mcs	189	373	110	16.8	8.4	2.0	4.0	0.6	2.6	62	2	4	107	2	3	2701	3570	2360	0.56	902	
276	Ea810	Syenite, leuco-	Msu	27	33	9	2.1	0.9	0.5	0.8	0.1	0.8	4	7	20	359	8	134	266	201	173	1.33	97	
277	Eb300	Syenite, Agt, fenitized	Msu	110	193	50	13.6	3.4	1.3	1.6	0.2	0.5	22	6	15	1426	137	859	1742	2238	3160	4.91	478	
278	Eb305	Beforsite	Mcb1	329	426	77	13.5	2.2	0.8	0.7	0.1	4.5	9	1	12	28	2	7	8040	5424	100	5.05	1039	
279	Eb310	Beforsite	Mcb1	6065	8190	1125	224.0	40.6	6.3	1.1	0.2	1.2	44	1	242	20	2	3	8910	5030	100	5.37	19050	
280	Eb315	Beforsite, Sn bearing	Mcb1	4127	7049	2465	506.6	105.5	21.0	2.8	0.3	5.1	72	2	665	69	2	3	8464	20880	233	7.49	17877	
281	Eb320	Syenite, Agt segregate	Msu	137	188	68	10.0	2.4	1.5	0.9	0.1	0.5	12	36	12	651	20	59	984	1074	2498	2.68	521	
282	Eb325	Beforsite, Agt segregate	Mcb1	87	135	44	5.2	1.3	0.5	0.6	0.1	4.2	5	3	7	716	4	3	6726	4478	100	4.15	347	
283	Eb400	Beforsite	Mcb1	47	92	28	5.0	1.0	0.9	0.7	0.1	4.5	6	3	4	1761	2	3	7146	3930	100	4.73	250	
284	Eb405	Beforsite	Mcb1	394	547	134	12.9	2.5	0.9	0.4	0.1	4.1	8	1	5	65	2	3	7139	6148	100	3.84	1347	
285	Eb410	Beforsite	Mcb1	46	91	33	3.7	1.0	0.7	0.9	0.1	5.5	9	12	5	3834	2	2	3	7152	2950	100	3.94	820
286	Eb415	Beforsite	Mcb1	211	342	86	10.8	2.6	1.2	1.2	0.2	5.4	14	19	18	4603	2	3	7674	5212	100	3.37	449	
287	Eb425	Beforsite	Mcb1	196	171	66	9.5	1.8	0.6	0.8	0.2	5.3	10	3	8	1123	2	3	7460	5380	100	3.84	228	
288	Eb425	Beforsite	Mcb1	109	185	66	7.7	1.5	0.7	0.8	0.2	4.9	9	8	10	2493	2	3	7182	5200	896	4.38	468	
289	Eb500	Beforsite	Mcb1	160	270	80	9.1	1.4	0.8	0.6	0.1	6.0	7	4	4	1160	2	3	7600	5196	100	5.36	653	
290	Eb505	Beforsite	Mcb1	94	171	50	7.6	1.7	0.7	0.7	0.1	8.5	47	4	9	1691	2	2	3	8482	5196	100	5.19	411
291	Eb510	Beforsite	Mcb1	2376	3659	1026	120.0	24.4	5.6	2.1	0.3	6.9	7	11	140	1190	2	3	8124	3642	100	6.57	8944	
292	Eb515	Beforsite, Agt?	Mcb1	92	165	66	8.1	1.6	0.9	0.6	0.1	5.3	14	1	6	311	2	3	6988	5652	100	4.50	426	
293	Eb520	Beforsite, Agt?	Mcb1	253	402	108	14.3	3.0	1.2	0.9	0.1	8.1	14	1	15	289	2	2	6	7885	9338	100	4.18	646
294	Eb525	Beforsite	Mcb1	118	262	106	13.0	2.9	1.5	0.9	0.1	7.7	12	4	9	53	2	6	7202	7356	100	3.87	1005	
295	Eb600	Beforsite	Mcb1	208	396	160	19.8	4.2	2.0	0.9	0.2	8.2	13	4	21	1916	2	3	7202	7356	100	3.87	1005	
296	Eb605	Beforsite	Mcb1	98	170	48	6.9	1.7	1.0	0.6	0.1	5.3	9	4	11	1749	2	3	6776	5824	100	3.40	414	
297	Eb610	Beforsite	Mcb1	68	132	42	10.5	2.2	0.7	0.8	0.1	4.5	11	2	14	48	2	3	7246	6504	100	3.70	327	
298	Eb620	Beforsite	Mcb1	200	344	108	12.7	2.7	1.2	0.8	0.1	4.5	11	2	14	313	2	4	11472	4340	100	5.09	841	
299	Eb700	Beforsite, Ank	Mcb1	646	886	222	32.8	5.7	2.1	0.6	0.2	4.3	12	2	31	121	2	3	10532	7200	100	5.75	2222	
300	Eb705	Beforsite, Ank	Mcb1	88	158	42	9.2	1.6	1.0	0.8	0.1	4.1	6	1	7	415	2	3	7862	6352	100	4.15	383	
301	Eb710	Beforsite	Mcb1	139	221	60	10.5	1.9	1.0	0.9	0.1	4.2	6	1	10	303	2	3	8964	4920	9456	2.87	1607	
302	Eb715	Beforsite, Ank	Mcb1	407	556	275	23.1	5.5	3.0	1.1	0.1	7.9	21	2	4	305	2	3	6688	4920	9456	2.87	1607	
303	Eb720	Beforsite	Mcb1	3953	4897	1100	137.2	24.7	5.4	0.9	0.1	3.0	27	1	137	11	2	3	9462	4418	100	6.14	12404	
304	Ec300	Beforsite	Mcb1	713	922	234	31.5	6.8	1.5	0.7	0.1	0.5	11	25	48	1506	28	1288	1575	953	808	2.74	2355	
305	Ec305	Syenite, cut by Ank vein	Msu	186	336	145	30.6	6.6	1.8	1.1	0.2	1.1	17	12	53	857	20	263	1592	941	1187	2.80	902	
306	Ec310	Syenite	Mfo	341	497	192	45.9	10.2	3.6	1.9	0.3	0.5	32	3	48	462	24	881	3500	3456	6364	3.86	1395	
307	Ec315	Fenite, carbonatized	Mcb1	53	96	32	6.0	1.8	1.0	0.9	0.1	6.1	7	5	12	544	11	3	6388	6530	1355	3.86	249	
308	Ec320	Beforsite, Agt-Phi	Mcb1	62	132	30	5.1	1.4	0.8	0.6	0.1	5.2	6	1	7	33	2	3	6094	4346	100	3.63	295	
309	Ec325	Beforsite	Mcb1	139	236	64	12.2	2.6	1.0	0.6	0.1	5.9	8	2	16	372	2	3	6096	6236	128	3.23	573	
310	Ec400	Beforsite	Mcb1	83	135	31	6.2	1.4	0.8	0.6	0.1	4.7	7	3	9	828	2	3	7046	5204	100	4.86	327	
311	Ec405	Beforsite	Mcb1	75	117	23	4.6	1.2	0.6	0.6	0.1	6.7	6	10	9	5184	2	3	6240	5990	141	3.03	280	
312	Ec410	Beforsite	Mcb1	130	194	39	8.1	2.0	0.8	0.9	0.2	6.8	12	8	4	24	2913	2	3	6282	5804	168	3.05	470
313	Ec415	Beforsite, Agt	Mcb1	262	411	94	19.0	3.6	1.2	1.0	0.1	6.4	11	4	22	1234	2	3	8198	4378	100	5.82	987	
314	Ec420	Beforsite	Mcb1	479	630	133	16.6	3.4	1.0	0.7	0.1	4.7	12	2	17	877	2	3	5528	5898	100	2.76	1555	
315	Ec425	Beforsite	Mcb1	479	630	133	16.6	3.4	1.0	0.7	0.1	4.7	12	2	17	877	2	3	5528	5898	100	2.76	1555	

B-3 Geochemical Analyses of the Orange Area (8)

No.	Sample No.	Rock Name	Rock Code	La ppm	Ce ppm	Pr ppm	Sm ppm	Eu ppm	Tb ppm	Yb ppm	Lu ppm	Sc ppm	Y ppm	U ppm	Th ppm	Nb ppm	Ta ppm	Zr ppm	Mn ppm	Sr ppm	P ppm	Fe %	T-203 ppm		
316	Ec500	Beforsite	Mcb1	65	120	28	6.3	1.5	0.7	0.7	0.1	5.3	9	6	7	2487	2	3	6228	5464	< 100	3.89	283		
317	Ec505	Beforsite	Mcb1	123	152	30	4.2	1.3	0.8	0.8	0.1	4.8	6	2	5	293	2	3	5928	6266	< 100	3.12	391		
318	Ec510	Beforsite	Mcb1	106	190	47	10.6	2.4	1.2	0.7	0.1	7.9	9	3	14	574	2	2	6858	6538	< 100	5.95	455		
319	Ec515	Beforsite	Mcb1	114	202	53	8.5	1.8	0.7	0.5	0.1	6.0	7	11	14	6147	2	2	6788	6154	< 100	3.88	477		
320	Ec520	Beforsite	Mcb1	153	235	62	7.0	1.4	0.7	0.5	0.1	7.1	6	1	3	353	2	2	5518	9184	< 100	2.74	573		
321	Ec525	Beforsite	Mcb1	82	126	40	6.6	1.7	0.6	0.5	0.1	5.5	7	2	8	596	2	2	6330	6566	< 100	3.43	325		
322	Ec600	Beforsite, Agt	Mcb1	324	451	75	15.5	3.3	1.1	1.6	0.2	5.0	12	6	25	2815	2	2	7599	5006	< 100	4.57	1078		
323	Ec605	Beforsite	Mcb1	157	196	48	8.5	2.0	0.8	0.7	0.1	5.7	8	1	14	240	2	2	7550	6254	< 100	5.22	481		
324	Ec610	Beforsite	Mcb1	559	932	103	16.1	3.9	2.1	0.9	0.1	5.2	12	1	23	38	2	2	8856	7974	< 100	3.54	2100		
325	Ec620	Beforsite	Mcb1	229	405	99	22.5	5.4	2.2	0.8	0.1	4.7	12	1	44	26	2	2	8144	4788	< 100	3.91	964		
326	Ec700	Beforsite	Mcb1	127	156	40	4.4	1.3	0.6	0.5	0.1	4.6	6	1	12	53	2	2	8950	6000	< 100	4.35	411		
327	Ec705	Beforsite	Mcb1	212	311	81	12.1	3.0	0.9	0.6	0.1	4.8	8	1	20	48	2	2	6564	6742	< 100	3.83	773		
328	Ec710	Beforsite	Mcb1	154	241	63	10.1	2.2	0.8	0.5	0.1	4.0	6	1	11	320	2	2	8938	6528	< 100	3.83	590		
329	Ec715	Beforsite, Ank	Mcb1	339	455	126	17.1	3.2	1.2	0.8	0.1	3.5	7	1	17	183	2	2	9074	5985	< 100	7.11	1171		
330	Ec720	Beforsite	Mcb1	50	90	28	4.5	1.0	0.6	0.8	0.1	4.7	5	2	7	923	2	2	5982	5482	< 100	3.05	225		
331	F 200	Gneiss, Qtz-Fd, fennitised	Mgn	30	74	28	5.7	1.3	0.9	1.7	0.2	7.2	15	10	6	147	3	3	514	1140	582	1350	2.95	190	
332	F 300	Syenite, porphyritic	Msu	69	163	64	13.8	3.5	1.8	2.5	0.3	0.5	29	2	4	38	2	2	456	1720	2570	5960	4.27	423	
333	F 310	Beforsite, lib1	Mcb1	294	607	131	17.0	4.2	1.9	1.1	0.1	4.1	14	1	30	10	2	2	6960	5710	122	4.07	1320		
334	F 320	Beforsite with Mag layers	Mcb1	186	316	99	15.4	3.6	1.5	0.8	0.1	3.2	8	1	25	17	2	2	8580	4170	179	5.71	786		
335	F 400	Beforsite	Mcb1	169	388	88	9.8	2.4	1.1	0.7	0.1	2.6	6	1	14	251	2	2	5670	4960	131	4.03	825		
336	F 410	Beforsite	Mcb1	75	122	40	5.3	2.0	0.9	0.8	0.1	2.8	6	1	19	132	2	2	8720	5860	166	3.00	314		
337	F 415	Beforsite	Mcb1	72	119	40	6.3	1.3	0.4	0.6	0.1	5.2	6	14	6	2025	5	2	8000	6044	< 100	5.37	302		
338	F 420	Beforsite	Mcb1	97	137	35	5.0	1.6	0.8	0.8	0.1	2.8	7	2	8	457	2	2	6430	6040	255	3.86	371		
339	F 425	Beforsite	Mcb1	93	155	38	6.1	1.5	0.7	0.5	0.1	5.4	6	2	7	659	2	2	6140	5520	139	3.92	260		
340	F 500	Beforsite	Mcb1	65	98	28	4.3	1.3	0.6	0.6	0.1	2.8	8	3	7	764	2	2	6384	5572	4420	3.97	430		
341	F 505	Beforsite	Mcb1	109	169	46	8.8	2.3	1.1	1.2	0.2	9.4	16	4	13	1059	2	2	6384	5572	4420	3.97	430		
342	F 510	Beforsite	Mcb1	313	581	141	18.6	4.6	1.6	0.9	0.1	5.4	17	1	19	5	2	2	6840	4830	171	3.39	1324		
343	F 515	Beforsite	Mcb1	69	162	34	4.5	1.4	0.7	0.6	0.1	5.7	7	5	8	1100	2	2	6462	5852	< 100	4.01	344		
344	F 520	Beforsite	Mcb1	153	273	73	10.4	2.5	1.1	0.8	0.1	4.5	10	2	18	671	4	3	6960	4710	249	5.16	647		
345	F 525	Beforsite	Mcb1	166	262	68	11.3	2.5	0.8	0.7	0.1	8.6	10	1	13	205	2	2	7094	5480	< 100	4.47	636		
346	F 600	Beforsite	Mcb1	56	61	18	3.4	0.9	0.5	0.6	0.1	2.4	5	2	3	443	2	2	6180	4770	115	3.87	179		
347	F 605	Beforsite	Mcb1	137	214	52	8.9	2.0	1.0	0.6	0.1	6.7	8	2	10	219	2	2	6360	5310	< 100	4.92	522		
348	F 610	Beforsite	Mcb1	158	302	71	10.7	2.4	0.8	0.8	0.1	2.8	10	4	18	1230	2	2	6470	6005	< 100	3.11	405		
349	F 615	Beforsite	Mcb1	107	165	38	7.9	1.8	0.9	0.6	0.1	4.7	7	1	10	23	2	2	7860	4910	114	3.95	344		
350	F 620	Beforsite	Mcb1	79	140	39	5.1	1.4	1.1	1.7	0.2	2.4	7	5	7	1570	2	2	7610	5088	< 100	3.43	717		
351	F 625	Beforsite	Mcb1	164	291	78	14.5	2.9	1.0	0.9	0.1	4.5	7	1	14	337	2	2	7600	4200	180	4.82	1158		
352	F 700	Beforsite	Mcb1	276	505	124	15.8	3.5	1.8	0.7	0.1	2.6	10	4	20	722	2	2	4	145	9218	6465	< 100	7.23	1087
353	F 705	Beforsite	Mcb1	282	448	116	21.1	3.9	1.2	0.6	0.1	3.6	9	3	18	425	4	4	6190	4560	132	3.83	857		
354	F 710	Beforsite	Mcb1	239	348	86	12.0	2.6	1.2	0.5	0.1	2.0	6	10	16	1200	3	3	8058	6948	< 100	3.15	989		
355	F 715	Beforsite, Ap	Mcb1	294	406	84	11.6	2.5	1.0	0.7	0.1	5.0	11	1	13	104	2	2	6590	4820	9070	3.03	1592		
356	F 720	Beforsite, Ph	Mcb1	434	682	146	25.3	6.6	2.5	0.8	0.1	3.8	19	2	25	1640	19	19	332	1220	1660	3310	2.92	331	
357	F 800	Syenite, Ne with Cal matrix	Msu	76	125	40	7.5	2.3	1.1	1.4	0.2	0.5	17	17	8	209	12	12	332	1220	1660	3310	2.92	331	
358	F 810	Syenite, Ne with Cal matrix	Msu	181	327	115	19.8	6.2	3.2	2.6	0.4	0.5	37	5	14	338	30	30	653	1800	2870	10000	4.03	852	
359	F 900	Gneiss, Qtz-fd	Mgn	71	83	37	9.7	1.4	1.8	1.7	0.2	3.9	13	3	19	40	2	2	94	493	92	282	1.49	277	
360	Fa310	Beforsite	Mcb1	77	152	37	5.5	1.3	0.8	0.9	0.1	4.2	9	1	6	86	2	2	54	6190	4440	174	4.04	349	

B-3 Geochemical Analyses of the Orange Area (9)

No.	Sample No.	Rock Name	Rock Code	La ppm	Ce ppm	Nd ppm	Sm ppm	Eu ppm	Tb ppm	Yb ppm	Lu ppm	Sc ppm	Y ppm	U ppm	Th ppm	No ppm	Ta ppm	Zr ppm	Mn ppm	Sr ppm	P ppm	Fe %	T-R203 ppm
361	Fa320	Beforsite	Mcb1	439	661	176	27.8	8.4	3.0	1.6	0.2	3.1	1.7	1	42	41	9	3	9270	3780	305	8.11	1657
362	Fa400	Beforsite, Bt	Mcb1	268	414	113	22.0	5.3	2.6	1.2	0.1	4.5	10	8	33	700	13	4	3570	3160	1490	4.53	1047
363	Fa410	Beforsite	Mcb1	64	109	32	4.7	1.1	0.5	0.5	0.2	3.0	5	1	8	341	4	4	3670	5100	128	3.56	269
364	Fa415	Beforsite	Mcb1	59	112	35	6.4	1.5	0.8	0.7	0.1	5.3	6	1	8	402	2	3	8046	7182	100	5.44	277
365	Fa420	Beforsite	Mcb1	62	94	27	5.1	1.1	0.6	0.5	0.1	2.8	6	2	7	762	2	3	5920	5200	127	3.67	242
366	Fa425	Beforsite	Mcb1	122	181	44	8.8	2.0	0.8	0.7	0.1	5.5	10	3	16	697	4	4	6544	6038	2916	3.93	451
367	Fa500	Beforsite	Mcb1	55	62	18	3.9	0.9	0.5	0.5	0.1	2.4	6	3	8	1320	4	4	6050	5250	108	4.04	179
368	Fa505	Beforsite	Mcb1	204	295	74	10.5	2.5	0.9	1.0	0.1	9.6	12	1	18	291	2	3	6442	6210	4338	3.99	735
369	Fa510	Beforsite	Mcb1	60	95	26	5.1	1.3	0.8	0.7	0.1	2.9	7	3	7	967	2	3	5510	5720	103	2.79	243
370	Fa515	Beforsite	Mcb1	63	109	28	3.6	1.3	0.6	0.8	0.1	5.8	9	3	8	1076	2	3	6610	6434	100	4.07	262
371	Fa520	Beforsite	Mcb1	57	69	20	5.4	0.9	0.9	1.0	0.2	2.5	6	2	3	658	3	3	5860	4900	122	4.26	201
372	Fa525	Beforsite	Mcb1	469	583	108	13.7	2.6	0.8	1.0	0.1	5.3	8	3	14	1033	2	2	6658	5286	100	3.75	1445
373	Fa600	Beforsite	Mcb1	2350	4388	1129	101.3	13.2	6.3	2.3	0.2	3.5	56	31	233	1030	10	3	6940	5120	127	5.14	9901
374	Fa605	Beforsite	Mcb1	40	71	20	5.1	1.2	0.6	0.8	0.1	4.8	5	3	3	1952	2	3	6756	5844	100	4.06	180
375	Fa610	Beforsite	Mcb1	71	135	34	4.3	1.1	0.7	0.6	0.1	3.2	7	5	5	1450	2	3	8460	4740	133	4.20	313
376	Fa615	Beforsite	Mcb1	181	266	64	10.5	2.3	0.9	1.0	0.1	4.2	7	7	12	2234	3	3	8660	3912	100	6.49	657
377	Fa620	Beforsite	Mcb1	141	215	53	8.9	2.0	0.8	0.7	0.1	2.6	7	1	18	96	2	3	6250	4410	115	3.58	528
378	Fa625	Beforsite	Mcb1	1248	1566	342	50.6	8.4	0.9	0.8	0.1	0.5	9	1	61	5	4	3	7138	6758	100	4.26	3937
379	Fa700	Beforsite	Mcb1	425	725	147	18.2	4.5	2.4	1.0	0.1	2.5	11	1	28	140	2	2	6410	5990	116	4.41	1647
380	Fa705	Beforsite	Mcb1	481	580	132	19.9	3.6	1.0	0.9	0.1	2.9	6	2	29	1163	2	3	7650	5134	100	4.63	1501
381	Fa710	Beforsite	Mcb1	66	121	36	5.3	1.6	0.7	0.8	0.1	2.6	7	1	5	4	2	3	5690	5350	164	3.05	296
382	Fa715	Beforsite	Mcb1	157	219	48	6.6	1.5	0.6	0.8	0.1	5.5	6	3	6	60	3	3	8106	2586	100	3.85	539
383	Fa720	Beforsite	Mcb1	136	241	58	9.7	2.4	1.1	0.9	0.1	3.9	10	1	15	2	2	3	8260	6210	166	4.02	580
384	Fa800	Syenite, Ne with Cal matrix	Msb	68	132	47	9.8	2.7	1.4	2.2	0.3	0.5	23	3	13	277	17	790	1620	1600	3900	4.34	348
385	Fa810	Syenite, Ne with Cal matrix	Msb	100	179	61	13.0	3.3	1.5	1.9	0.2	0.5	23	2	5	265	20	575	1450	2340	5250	3.48	468
386	Fb320	Beforsite	Mcb1	810	1330	512	130.3	27.4	6.2	1.3	0.2	0.5	25	19	188	1021	26	3	5128	6126	1510	5.39	3558
387	Fb400	Beforsite	Mcb1	61	118	28	5.2	1.3	0.7	0.5	0.1	4.8	6	7	7	2483	8	67	7044	5284	100	6.49	273
388	Fb410	Beforsite	Mcb1	65	112	30	6.6	1.5	0.8	1.0	0.2	4.3	5	9	10	3417	24	3	6130	6768	951	3.41	279
389	Fb415	Beforsite	Mcb1	202	292	66	10.5	2.5	0.7	0.8	0.1	4.7	9	6	44	2650	3	3	6784	6342	100	4.15	713
390	Fb420	Beforsite	Mcb1	70	113	26	6.0	1.5	1.1	0.6	0.1	4.9	7	3	9	1666	5	3	6796	6210	100	4.03	280
391	Fb425	Beforsite	Mcb1	54	90	24	4.0	0.9	0.7	0.8	0.1	4.6	5	4	4	1358	3	3	7018	6164	100	4.46	224
392	Fb500	Beforsite	Mcb1	3805	5021	1166	156.6	28.5	7.0	2.0	0.2	0.5	62	12	334	2937	2	2	6802	4774	1519	4.03	12530
393	Fb505	Beforsite	Mcb1	98	156	38	6.1	1.5	0.8	1.0	0.1	4.6	6	1	8	300	2	3	6544	7084	100	3.86	381
394	Fb510	Beforsite	Mcb1	347	477	118	21.4	4.0	0.9	1.0	0.1	6.7	10	2	41	90	6	549	8878	4812	100	12.41	1201
395	Fb515	Beforsite	Mcb1	85	143	38	7.3	1.8	0.8	1.0	0.1	5.1	6	5	16	1686	2	2	7220	5488	100	4.66	352
396	Fb520	Beforsite	Mcb1	51	77	22	5.6	1.5	0.8	0.5	0.1	4.3	6	4	10	891	2	3	6780	6152	100	4.62	205
397	Fb525	Beforsite	Mcb1	41	64	20	3.9	1.0	0.7	0.6	0.1	4.5	5	3	5	1510	2	2	5780	4634	100	3.82	171
398	Fb600	Beforsite	Mcb1	49	73	22	3.2	1.2	0.6	0.7	0.1	6.4	6	1	6	459	3	3	7820	4634	100	6.08	195
399	Fb605	Beforsite	Mcb1	50	82	22	5.7	1.0	0.8	0.8	0.1	4.3	4	2	5	82	3	3	7836	5268	100	5.99	210
400	Fb610	Beforsite	Mcb1	79	131	51	7.3	1.5	0.9	0.8	0.1	4.5	4	4	9	1233	6	3	7134	6206	100	5.15	348
401	Fb615	Beforsite	Mcb1	62	106	38	5.1	1.2	0.5	0.8	0.1	3.8	4	1	5	685	2	2	6096	5346	100	3.51	272
402	Fb620	Beforsite	Mcb1	547	834	309	48.7	8.6	2.3	0.8	0.1	5.3	13	1	52	27	2	3	8062	5452	100	6.27	2190
403	Fb625	Beforsite	Mcb1	402	621	215	32.3	6.4	1.5	0.9	0.1	3.7	12	4	37	1812	2	3	9832	4310	100	8.27	1598
404	Fb700	Beforsite	Mcb1	633	770	224	27.9	5.4	1.0	0.8	0.1	3.7	9	1	29	47	2	5	7590	4486	100	5.53	2050
405	Fb705	Beforsite	Mcb1	78	127	40	6.1	1.5	0.7	0.7	0.1	3.7	6	1	6	890	2	3	6206	5172	100	3.31	323

B-3 Geochemical Analyses of the Orange Area (10)

No.	Sample No.	Rock Name	Rock Code	La	Ce	Nd	Sm	Eu	Tb	Yb	Lu	Sc	Y	U	Th	Nb	Ta	Zr	Mn	Sr	P	Fe %	T-R203 ppm
406	Fb710	Beforsite	Mcb1	73	127	43	6.3	1.7	0.9	0.6	0.1	5.5	6	2	7	51	2	3	5640	5278	100	4.60	323
407	Fb715	Beforsite	Mcb1	97	143	44	7.5	2.0	0.8	0.7	0.1	6.3	6	1	8	10	2	3	5838	7932	100	3.18	374
408	Fb720	Fenite, Act-Phl	Mfn	177	333	146	29.8	7.8	3.1	3.5	0.4	7.9	46	6	26	117	2	7	2742	4774	3852	2.84	915
409	Fc310	Beforsite	Mcb1	107	190	87	17.2	3.7	0.9	0.7	0.1	4.7	8	1	30	13	2	3	3610	6348	100	5.90	518
410	Fc320	Beforsite	Mcb1	1230	1262	464	68.7	12.0	3.5	1.4	0.2	7.6	20	1	78	16	2	3	8446	7392	100	5.93	3774
411	Fc400	Beforsite	Mcb1	4060	4922	983	119.6	20.8	4.2	1.1	0.1	5.4	33	2	135	63	2	3	7200	4212	100	7.03	1237
412	Fc410	Beforsite	Mcb1	178	253	71	9.9	2.1	0.8	0.8	0.1	3.8	6	3	14	95	2	3	6682	4373	100	5.95	641
413	Fc415	Beforsite	Mcb1	91	128	31	5.7	1.4	1.0	0.6	0.1	4.2	5	1	6	57	2	3	3682	6422	100	3.21	329
414	Fc420	Beforsite	Mcb1	87	110	28	3.6	1.3	0.7	0.6	0.1	3.7	5	13	5	66	1	3	6702	5630	100	4.65	269
415	Fc425	Beforsite	Mcb1	1428	1847	426	47.2	8.3	1.0	0.4	0.1	3.3	12	3	46	157	2	3	8738	5034	100	4.71	4602
416	Fc500	Beforsite	Mcb1	140	220	51	8.5	2.1	1.3	0.9	0.1	6.6	11	6	12	188	2	3	5888	5914	100	2.99	536
417	Fc505	Beforsite	Mcb1	264	368	92	13.8	3.2	1.5	0.9	0.1	6.2	14	1	33	33	2	3	6040	6430	100	2.95	918
418	Fc510	Beforsite	Mcb1	83	143	43	7.6	1.9	1.0	0.8	0.1	8.0	10	1	12	36	2	3	5924	6296	100	2.96	359
419	Fc515	Beforsite	Mcb1	112	218	65	11.7	3.2	1.2	0.8	0.1	10.1	13	1	25	15	2	3	6308	6358	170	3.09	524
420	Fc520	Beforsite	Mcb1	95	169	45	7.8	2.1	1.0	1.1	0.2	7.4	12	3	13	18	2	3	6200	5984	100	3.04	409
421	Fc525	Beforsite	Mcb1	452	786	208	34.8	6.2	1.2	0.9	0.1	6.3	15	3	33	58	2	3	3676	3646	100	7.69	1849
422	Fc600	Beforsite	Mcb1	408	726	141	21.0	4.5	1.8	1.1	0.1	5.9	15	5	43	140	2	3	6580	4848	100	3.93	1618
423	Fc605	Beforsite	Mcb1	4022	4845	1075	193.5	34.1	7.2	1.7	0.2	6.5	55	17	244	67	5	3	8834	7534	100	7.26	12500
424	Fc610	Beforsite	Mcb1	53	97	22	3.9	1.2	0.7	0.8	0.1	4.2	5	1	3	61	2	3	6264	6182	100	3.69	229
425	Fc615	Beforsite	Mcb1	126	247	45	9.9	2.1	0.9	0.6	0.1	4.2	7	1	9	26	2	3	6388	6364	100	4.23	910
426	Fc620	Beforsite	Mcb1	206	409	87	20.7	4.5	1.0	0.9	0.1	4.1	10	2	20	72	2	3	6396	6744	100	3.88	540
427	Fc625	Beforsite	Mcb1	604	857	127	22.4	3.7	1.2	0.9	0.1	3.2	8	12	35	21	2	3	6238	4544	100	12.63	1980
428	Fc700	Beforsite	Mcb1	4519	5744	1738	202.5	32.7	6.4	0.7	0.1	0.7	31	8	212	163	2	3	9474	4098	112	8.30	15086
429	Fc705	Beforsite	Mcb1	273	406	112	13.7	2.9	1.0	0.8	0.1	4.2	6	4	26	32	17	4	8350	4664	100	6.40	1007
430	Fc710	Beforsite	Mcb1	133	221	66	8.9	1.9	0.9	0.9	0.1	5.1	6	1	7	19	2	3	7026	5420	100	4.31	545
431	Fc715	Beforsite	Mcb1	272	411	117	15.3	3.7	1.4	0.9	0.1	5.2	11	1	26	42	2	3	7142	6572	4864	3.56	1027
432	Fc720	Beforsite	Mcb1	184	321	114	15.7	3.4	1.2	0.7	0.1	7.0	9	1	21	28	2	3	8174	8142	100	3.75	807
433	G 200	Fenite (no quartz)	Ngn	75	133	52	9.0	2.4	1.5	2.3	0.3	7.8	13	10	13	211	6	303	1640	517	716	4.12	364
434	G 300	Syenite, Ne with Cal matrix	Msu	91	147	48	9.4	2.7	1.6	2.2	0.2	0.5	22	8	8	120	11	486	1680	2460	4050	4.17	395
435	G 310	Syenite, Ne	Msu	37	42	17	4.4	0.9	0.6	0.9	0.1	0.5	7	5	4	51	36	708	914	545	1290	2.80	136
436	G 320	Syenite(L), Beforsite vein(2)	Msu	287	462	152	30.8	8.2	3.0	1.5	0.2	1.7	14	3	52	39	12	17	3570	3470	1280	3.90	1239
437	G 400	Beforsite, Phl	Mcb1	1130	1633	258	41.4	11.3	4.4	0.9	0.1	2.9	16	20	76	146	7	3	6480	7440	550	4.60	3790
438	G 410	Beforsite, Phl	Mcb1	224	324	81	12.7	2.2	1.4	0.8	0.1	2.7	7	2	18	63	2	3	5780	5970	729	3.17	810
439	G 415	Beforsite	Mcb1	324	403	98	10.0	2.4	0.9	1.0	0.1	5.4	7	1	36	70	2	3	6804	7022	482	6.78	1038
440	G 420	Beforsite	Mcb1	52	67	20	4.5	1.0	0.5	0.8	0.1	2.4	5	1	3	29	2	3	5260	5840	107	2.51	186
441	G 425	Beforsite	Mcb1	62	110	32	5.3	1.5	0.8	0.5	0.1	4.7	6	3	6	130	2	3	6654	5764	100	4.94	271
442	G 500	Beforsite	Mcb1	141	250	73	10.0	2.6	1.0	1.2	0.2	3.6	12	3	22	238	8	3	5970	4110	155	6.87	617
443	G 505	Beforsite	Mcb1	65	112	38	4.7	1.5	0.9	0.8	0.1	4.5	6	1	4	58	2	3	6502	6894	100	3.72	287
444	G 510	Beforsite	Mcb1	59	109	29	4.5	1.0	0.6	0.6	0.1	2.5	6	5	13	35	7	3	5380	5410	162	3.61	259
445	G 515	Beforsite	Mcb1	250	366	116	14.6	3.2	1.7	0.7	0.1	6.1	10	8	23	30	3	3	7838	5742	100	6.23	910
446	G 520	Beforsite	Mcb1	52	79	23	4.3	1.0	0.5	0.8	0.1	2.1	6	6	8	140	10	3	4680	4810	157	2.37	207
447	G 525	Beforsite	Mcb1	53	108	34	4.6	1.3	0.7	0.8	0.1	4.5	5	2	9	15	2	3	5712	5182	100	3.11	263
448	G 600	Beforsite	Mcb1	58	89	25	6.0	0.9	0.7	0.6	0.1	2.3	5	3	5	60	2	3	6780	4670	161	4.06	259
449	G 605	Beforsite	Mcb1	77	139	56	7.3	1.7	1.0	0.9	0.1	4.4	6	7	12	25	2	3	8302	4986	100	5.47	364
450	G 610	Beforsite, Phl	Mcb1	572	912	218	31.1	7.4	3.8	0.6	0.1	2.3	12	4	46	1380	4	3	6780	3360	120	3.09	2178

B-3 Geochemical Analyses of the Orange Area (11)

No.	Sample No.	Rock Name	Rock Code	La	Ce	Md	Sm	Eu	Tb	Yb	Lu	Sc	Y	U	Th	Nb	Ta	Zr	Mn	Sr	P	Fe	T-4200 ppm	
451	G 615	Beforsite	Mcb1	385	555	156	25.0	4.2	1.8	0.9	0.1	4.1	8	2	24	430	2	3	7470	5162	100	5.04	1407	
452	G 620	Beforsite	Mcb1	107	176	37	7.1	1.8	0.7	0.7	0.1	2.3	7	1	13	638	2	2	6500	4630	141	3.89	415	
453	G 625	Beforsite	Mcb1	143	266	64	8.0	2.2	0.6	0.6	0.1	4.4	6	1	9	46	2	3	7696	5484	100	5.09	604	
454	G 700	Beforsite	Mcb1	186	332	72	10.7	2.4	1.4	0.7	0.1	2.6	8	3	38	2300	7	4	5940	4210	115	3.63	760	
455	G 705	Beforsite	Mcb1	292	400	106	14.9	3.2	1.7	0.7	0.1	6.4	10	1	20	7	2	3	7648	6632	100	4.12	1023	
456	G 710	Beforsite, Phl	Mcb1	60	97	28	6.4	1.1	0.8	1.0	0.1	3.7	8	3	5	246	3	7	6780	5240	135	3.39	250	
457	G 715	Syenite, Agt	Msu	27	48	16	4.8	1.5	1.0	0.8	0.1	1.1	11	31	17	183	23	164	1219	339	100	2.58	135	
458	G 720	Sovite-beforsite, Phl	Mcs	299	507	153	36.5	9.9	4.1	2.4	0.2	0.5	54	9	16	2	28	1230	3330	15700	2.23	1300		
459	G 800	Syenite	Msu	38	42	19	3.9	0.9	0.7	1.3	0.2	2.6	9	5	4	555	15	797	1050	3450	725	2.87	141	
460	G 800	Gneiss, Qlz-Pd, fenitised	Mgn	92	114	43	11.8	1.0	2.1	1.4	0.2	3.9	13	2	26	27	2	87	460	97	293	1.15	350	
461	Ga310	Syenite, Ne	Msu	19	31	10	3.4	0.9	0.5	0.5	0.1	0.5	3	12	8	207	11	405	554	309	496	1.94	88	
462	Ga320	Syenite, Ne	Msu	49	62	22	2.9	1.0	0.5	0.9	0.1	0.5	10	34	28	1670	57	493	946	647	2100	2.98	179	
463	Ga400	Beforsite dyke with Phl	Mcd	2560	5047	1778	279.5	80.9	13.1	2.3	0.3	3.1	52	4	716	88	5	3	7890	6210	1240	7.13	12232	
464	Ga410	Syenite	Msu	52	110	52	13.6	4.7	2.6	1.6	0.2	0.5	18	16	25	313	13	143	1120	991	3100	2.99	326	
465	Ga415	Syenite, fenitised	Msu	130	268	98	22.0	5.0	2.9	0.7	0.1	2.3	11	44	51	2903	41	99	1225	1172	2064	4.74	684	
466	Ga420	Beforsite, Phl	Mcb1	159	284	84	12.6	3.3	1.3	0.8	0.1	1.7	8	2	22	47	2	3	5200	2580	344	6.49	689	
467	Ga425	Beforsite	Mcb1	281	446	152	27.5	5.9	2.1	1.0	0.1	5.0	9	2	38	476	3	3	8062	5612	1852	5.43	1160	
468	Ga500	Beforsite	Mcb1	2414	4033	952	155.6	41.6	11.8	1.9	0.2	3.0	26	4	157	36	4	3	7400	2900	2150	7.97	9463	
469	Ga505	Beforsite	Mcb1	420	588	208	41.5	9.3	1.6	1.7	0.2	5.1	20	3	50	71	4	3	11088	2986	3374	12.90	1590	
470	Ga510	Beforsite	Mcb1	112	184	55	8.5	2.2	1.2	0.7	0.1	2.8	6	1	14	87	2	2	7100	4970	150	4.28	463	
471	Ga515	Beforsite	Mcb1	210	328	112	22.1	4.6	1.7	0.7	0.1	5.5	8	32	24	3649	47	3	7434	4890	100	5.93	859	
472	Ga520	Beforsite	Mcb1	268	397	114	22.5	5.8	2.0	0.7	0.1	3.5	11	29	35	2020	35	2	8420	4910	144	5.60	1018	
473	Ga525	Beforsite	Mcb1	1935	3322	1282	185.8	23.9	7.8	1.2	0.2	4.3	34	3	221	66	2	3	12412	3570	295	8.29	8455	
474	Ga600	Beforsite	Mcb1	339	546	149	28.9	6.9	3.6	0.8	0.1	3.4	11	27	44	1850	28	2	3	7970	4860	155	5.44	1381
475	Ga605	Beforsite	Mcb1	691	1132	262	43.8	9.0	4.1	0.9	0.1	4.2	9	1	15	57	2	2	6782	5134	100	4.54	850	
476	Ga610	Beforsite	Mcb1	233	342	92	11.8	2.7	0.9	0.7	0.1	4.2	14	2	61	210	2	3	7050	6512	100	4.00	612	
477	Ga615	Beforsite	Mcb1	165	241	70	11.0	2.6	0.6	0.5	0.1	5.2	8	1	10	38	2	2	7380	4660	115	4.91	1993	
478	Ga620	Sovite, Phl-Px	Mcs	503	906	162	22.3	4.6	3.0	1.4	0.2	3.1	17	6	32	1980	8	3	7880	4660	115	4.91	1993	
479	Ga625	Syenite, Agt-Ne	Msu	83	155	61	13.1	4.0	2.0	1.8	0.2	0.5	20	1	5	354	28	265	1668	1906	3418	4.76	424	
480	Ga700	Syenite, Ne with Cal matrix	Msu	112	186	90	22.6	8.4	4.3	3.6	1.0	0.5	105	5	8	214	19	949	1830	969	7120	5.09	606	
481	Ga710	Sovite, Agt-Phl rich	Mcs	204	369	122	26.0	7.7	3.5	3.6	0.4	0.5	55	2	11	20	2	132	1430	2580	10120	2.99	957	
482	Ga720	Sovite	Mcs	179	343	129	31.2	8.5	2.6	4.0	0.5	0.5	61	26	17	88	2	14	1380	4340	2140	1.15	906	
483	Gb500	Beforsite	Mcb1	9385	8580	3192	551.4	91.1	16.1	1.2	0.2	0.5	48	10	344	26	2	17	7928	1894	100	7.29	26883	
484	Gb505	Beforsite	Mcb1	1862	2032	650	95.5	19.8	5.6	2.8	0.3	3.8	42	5	137	37	2	3	8560	7230	19666	6.66	5790	
485	Gb510	Beforsite	Mcb1	3160	4050	1860	383.0	73.3	16.3	1.0	0.1	3.1	41	6	255	689	8	4	5	10286	2412	100	5.33	5859
486	Gb515	Beforsite, Gn bearing	Mcb1	1307	2034	1065	221.3	44.5	8.3	1.5	0.2	4.0	35	6	233	180	3	2	76444	2768	1242	6.75	11964	
487	Gb520	Beforsite	Mcb1	213	327	104	23.1	5.7	1.4	0.8	0.1	5.4	12	1	28	3	2	3	8632	5796	100	5.85	850	
488	Gb525	Beforsite	Mcb1	272	373	100	12.7	3.0	0.7	0.9	0.1	6.8	10	3	15	71	2	2	3	7858	4932	100	6.20	945
489	Gb600	Beforsite	Mcb1	1955	2066	636	72.4	12.5	4.7	1.1	0.1	4.9	24	3	97	3	2	3	1116	4620	100	8.25	1642	
490	Gb605	Beforsite	Mcb1	463	580	198	33.8	8.5	4.0	3.7	0.4	15.3	48	15	50	329	4	27	1102	1418	180	6.41	183	
491	Gb610	Beforsite	Mcb1	47	68	7.0	1.1	1.1	1.8	0.2	11.3	15	29	4	125	5	7	3	9656	1853	100	6.41	183	
492	Gc400	Beforsite	Mcb1	1941	2064	1132	173.3	32.9	5.7	0.9	0.1	2.6	37	2	228	17	2	2	3	8246	5306	100	4.96	6675
493	Gc410	Beforsite	Mcb1	802	1150	517	106.5	21.1	2.9	0.8	0.1	3.1	14	1	127	398	2	3	10060	8100	100	8.40	3255	
494	Gc415	Beforsite	Mcb1	142	214	79	16.2	4.0	1.2	0.7	0.1	5.4	10	1	29	45	2	3	8094	5930	100	5.99	880	
495	Gc420	Beforsite	Mcb1	150	176	51	6.5	1.9	0.8	0.5	0.1	3.8	7	1	20	204	2	2	7100	7082	126	2.97	484	

B-3 Geochemical Analyses of the Orange Area (12)

No.	Sample No.	Rock Name	Rock Code	La	Ce	Nd	Sm	Eu	Tb	Yb	Lu	Sc	Y	U	Th	Nb	Ta	Zr	Mn	Sr	P	Fe %	F-1203 ppm	
496	6c425	Beforsite	Mcb1	371	418	129	19.6	4.1	1.0	0.6	0.1	3.4	8	3	48	1229	6	3	7454	5396	100	4.05	1169	
497	6c500	Beforsite	Mcb1	87	120	39	5.0	1.3	0.7	0.6	0.1	2.9	5	2	10	1534	2	3	6668	5446	100	4.14	321	
498	6c505	Beforsite	Mcb1	171	363	78	11.8	2.4	0.9	0.7	0.1	6.0	9	4	18	1019	2	3	6552	5256	100	3.96	783	
499	6c510	Beforsite	Mcb1	123	185	61	9.0	2.0	0.6	0.5	0.1	2.9	5	3	18	601	2	3	5304	4336	100	5.31	478	
500	6c515	Beforsite	Mcb1	631	879	382	84.8	17.7	3.0	0.9	0.1	2.9	20	3	141	44	2	3	9226	2042	100	5.88	2503	
501	6c520	Beforsite	Mcb1	335	465	175	36.0	7.9	1.6	0.7	0.1	4.8	11	1	68	524	2	3	6984	5504	8398	3.68	1281	
502	6c525	Beforsite	Mcb1	216	331	113	20.4	4.4	1.2	0.6	0.1	3.8	7	1	35	1004	2	3	7390	4662	2462	4.41	862	
503	6c600	Beforsite	Mcb1	199	287	107	17.2	3.2	0.7	0.4	0.1	2.9	5	1	17	8	2	3	7312	6722	248	4.54	768	
504	6c605	Beforsite	Mcb1	330	454	151	25.2	4.3	1.0	0.6	0.1	2.9	8	1	27	76	2	3	9180	5604	239	4.81	1203	
505	6c610	Beforsite	Mcb1	190	271	101	19.8	4.1	1.2	0.8	0.1	4.2	9	1	26	15	2	3	9514	4884	172	5.87	742	
506	6c615	Beforsite	Mcb1	481	628	154	20.8	4.0	0.7	0.5	0.1	2.5	7	5	29	2381	2	3	7714	3896	100	4.99	1580	
507	6c620	Beforsite	Mcb1	157	440	67	12.7	3.1	1.0	0.9	0.1	2.9	11	5	29	1661	2	3	9304	3586	233	4.90	849	
508	6c625	Beforsite	Mcb1	69	105	28	2.1	1.1	0.4	0.5	0.1	3.5	6	4	5	800	2	3	7452	4920	164	6.51	259	
509	6c700	Beforsite	Mcb1	166	229	49	5.0	1.6	0.7	0.5	0.1	4.6	5	1	7	85	2	3	7005	6328	229	3.30	561	
510	6c705	Beforsite	Mcb1	97	142	45	3.5	1.1	0.7	0.5	0.1	6.4	5	3	4	22	2	3	7594	4842	212	5.14	365	
511	6c710	Granule conglomerate	Ubl	31	46	13	1.6	0.8	0.5	0.4	0.1	0.6	4	2	5	35	2	2	16	989	57	258	3.83	121
512	H 200	Gneiss, Qtz-Fd, fcmited	Ngn	47	61	22	4.7	1.0	0.9	1.2	0.2	0.5	9	21	7	546	31	750	1340	877	1160	4.00	183	
513	H 300	Sovite, Px-Pl-Ne	Mcs	148	238	95	17.8	4.8	2.0	2.4	0.3	0.5	47	10	5	595	26	242	783	3410	6340	1.22	658	
514	H 400	Syenite, Ne	Msu	8	10	6	2.4	0.9	0.6	1.2	0.2	0.5	2	8	3	305	16	455	598	341	561	2.57	46	
515	H 500	Sovite, Px-Ne-Pl	Mcs	155	242	85	14.8	4.8	3.9	3.3	0.4	0.5	42	8	8	176	15	365	1940	3150	3800	2.81	677	
516	H 600	Sovite, Pl-Agt	Mcs	186	316	99	22.3	7.2	2.4	3.2	0.4	0.5	52	4	11	27	2	130	1370	2730	5580	2.02	823	
517	H 700	Sovite, Px-Ne-Pl	Mcs	136	233	83	17.3	4.8	2.4	2.4	0.3	0.5	36	94	18	355	20	261	961	2170	6390	2.26	624	
518	H 800	Px-Fd rock, coarse grained	Msu	50	71	28	4.9	1.3	0.9	1.8	0.2	2.8	12	21	10	398	15	788	1680	421	1640	4.29	209	
519	I 100	Gneiss, Qtz-Fd, bre.	Ngn	62	85	37	8.9	1.4	2.3	2.2	0.4	5.0	19	2	11	21	2	128	830	326	478	2.24	274	
520	I 300	Gneiss, Qtz-Fd	Ngn	70	125	43	9.2	1.8	1.4	2.3	0.3	7.0	13	2	4	25	2	133	1330	383	1240	3.25	334	
521	I 500	Syenite, porphyritic	Msu	7	10	8	2.5	0.9	0.5	0.4	0.1	0.5	2	6	8	254	15	94	352	431	276	1.99	43	
522	I 600	Sovite, banded	Mcs	266	540	159	30.9	11.6	3.5	5.9	1.0	7.0	90	2	1	61	2	3	3960	9160	3420	1.25	1311	
523	I 700	Syenite - albite	Msu	54	61	21	4.3	0.9	1.7	7.5	1.0	6.8	13	2	2	587	13	1620	1900	165	750	4.19	215	
524	I 800	Syenite, porphyritic	Nsr	45	61	23	4.2	1.4	1.1	1.5	0.3	0.5	13	9	11	639	14	949	1960	598	2220	3.74	186	
525	I 900	Gneiss, Qtz-Fd	Ngn	109	198	46	7.4	1.7	1.1	1.4	0.2	4.2	12	5	11	80	2	155	581	346	317	1.99	464	
526	la710	Syenite, Hbl-Ne	Msu	174	318	115	22.3	6.1	2.9	2.7	0.4	0.5	37	4	10	113	5	236	1610	3080	11300	3.63	833	
527	la720	Gneiss, Qtz-Fd, fcmited	Ngn	51	83	34	5.7	1.7	1.0	2.1	0.3	16.9	13	2	7	73	2	140	1620	587	1080	3.15	237	
528	la800	Gneiss, Qtz-Fd	Ngn	19	31	8	2.2	0.9	0.6	0.6	0.1	1.2	2	1	3	24	2	31	232	27	173	1.00	85	
529	la810	Gneiss, Qtz-Fd	Ngn	16	23	10	2.8	0.9	0.5	0.7	0.1	1.1	3	3	19	27	2	81	329	82	178	0.77	74	
530	la820	Gneiss, Qtz-Fd	Ngn	52	68	26	3.6	1.1	0.8	1.2	0.2	5.7	8	2	7	37	2	189	1230	416	476	2.55	201	
531	la900	Beforsite	Mcb2	64	99	39	8.4	2.5	1.2	0.9	0.1	2.0	13	1	1	57	2	4	5080	3730	2480	2.89	282	
532	J 200	Gneiss, Qtz-Fd	Ngn	70	95	44	10.6	1.9	2.0	2.2	0.3	4.0	18	1	17	22	2	101	543	190	436	1.49	307	
533	J 400	Sovite	Mcs	188	294	98	23.2	8.7	3.0	4.8	0.6	1.0	70	4	35	32	2	3	1160	5390	821	0.56	612	
534	J 500	Sovite, Hbl	Mcs	154	291	83	20.0	7.6	3.1	2.8	0.3	0.5	45	5	5	382	24	767	1960	2720	7800	4.87	743	
535	J 600	Sovite, Pl	Mcs	157	266	90	18.4	5.9	1.9	3.5	0.4	0.5	52	6	10	28	2	80	948	5030	780	0.59	703	
536	J 700	Gneiss, Qtz-Fd	Ngn	19	37	8	2.6	0.9	0.5	0.7	0.1	3.2	3	3	4	66	2	111	1030	209	790	2.98	92	
537	J 710	Sovite-beforsite	Mcs	95	138	62	12.0	3.2	2.0	1.1	0.2	0.5	18	1	1	11	1	4	7600	3700	3530	2.80	412	
538	J 720	Gneiss, Qtz-Fd	Ngn	102	180	66	11.8	3.2	1.7	1.7	0.3	6.4	22	2	13	71	1	243	1440	424	1620	4.85	477	
539	J 800	Gneiss, Qtz-Fd	Ngn	43	49	18	2.4	0.9	0.6	0.7	0.2	3.2	6	2	10	22	2	107	466	217	352	1.70	150	
540	J 820	Granitic rock, leuco-	Ngr	258	692	357	150.8	52.9	30.3	54.4	7.6	0.5	860	1	294	10	2	7	48	1270	40400	0.14	2480	

B-3 Geochemical Analyses of the Orange Area (13)

No.	Sample No.	Rock Name	Rock Code	La	Ce	Md	Sm	Eu	Tb	Yb	Lu	Sc	Y	U	Th	Nb	Ta	Zr	Mn	Sr	P	Fe %	T-1203 ppm	
541	J 900	Granitic rock	Mgr	37	59	17	3.6	1.3	0.8	0.7	0.1	0.5	3	2	6	53	2	6	28	15	226	1.15	157	
542	Ja710	Gneiss, Qtz-Fd	Mgr	6	8	6	2.6	0.9	0.5	0.7	0.1	2.0	2	1	1	14	2	100	376	6	249	1.70	38	
543	Ja715	Granophyre	Mgr	116	226	94	19.6	5.1	1.3	2.0	0.3	1.7	27	2	42	66	2	120	974	504	318	2.47	597	
544	Ja720	Sovite, Pl-Hbl	Mcs	250	495	165	42.5	12.9	4.5	7.0	1.3	0.5	105	27	48	2520	54	9	4020	6210	11900	1.95	1280	
545	Ja725	Granophyre	Mgr	392	1062	260	19.4	4.7	1.0	1.0	0.1	0.5	16	4	5	210	2	2	3168	409	5106	2.13	2162	
546	Ja800	Beforsite	Mcb2	226	451	149	32.5	9.5	3.5	1.8	0.2	1.3	42	1	14	3170	2	6	5140	3930	13710	2.24	1125	
547	Ja805	Syenite, cut by green network	Msu	122	223	111	32.4	11.0	7.4	9.3	1.1	66.2	176	2	38	130	2	85	964	305	8815	10.44	747	
548	Ja810	Gneiss, Qtz-Fd, fenitised	Mgr	89	168	48	6.8	2.1	1.7	3.0	0.4	6.6	23	2	29	2	2	186	592	269	243	2.10	418	
549	Ja815	Beforsite, Ap	Mcb2	259	571	139	27.9	7.4	3.5	1.5	0.2	0.5	29	1	26	1583	2	3	4896	276	11854	2.23	1285	
550	Ja820	Beforsite, Agt-Dol	Mcb2	486	972	190	30.5	7.4	2.8	1.1	0.1	0.6	21	1	9	561	2	3	8900	8620	7980	2.96	2103	
551	Ja825	Beforsite, Ap	Mcb2	190	509	218	41.2	10.2	3.2	1.6	0.2	0.5	36	1	2	430	2	2	8572	5788	15762	3.51	1255	
552	Ja900	Beforsite, Ank	Mcb2	123	264	92	18.3	6.0	2.3	1.4	0.2	1.7	28	1	4	2000	2	3	6340	5370	12360	2.90	658	
553	Ja905	Beforsite, Ap	Mcb2	245	378	158	29.4	7.4	1.5	1.5	0.2	0.5	28	1	7	1147	2	7	6074	4808	11324	3.82	1040	
554	Jb720	Sovite, Ap-Agt	Mcs	262	526	200	42.8	11.4	4.5	6.5	0.9	0.5	83	5	17	1834	17	3	4582	5980	5692	1.58	1376	
555	Jb725	Beforsite, Ap	Mcb2	156	377	151	34.1	8.6	4.2	1.7	0.2	0.5	34	1	2	141	2	2	3	9446	4038	10975	3.55	960
556	Jb800	Beforsite, Agt	Mcb2	97	207	74	14.6	3.8	1.4	1.1	0.1	0.5	17	1	1	23	2	3	8792	5154	4767	3.81	513	
557	Jb805	Beforsite, Ap	Mcb2	231	440	112	23.4	5.3	3.0	2.2	0.3	0.8	29	1	1	2000	2	3	5412	3820	15711	2.24	1043	
558	Jb810	Beforsite, Ap	Mcb2	239	491	166	38.9	10.2	4.6	2.2	0.3	1.8	44	1	17	635	2	2	5282	4472	17777	2.58	1233	
559	Jb815	Beforsite	Mcb2	145	321	139	28.9	7.2	2.9	2.2	0.3	0.5	38	1	1	733	2	3	5692	4906	11889	3.17	843	
560	Jb820	Beforsite	Mcb2	378	730	281	73.3	17.3	4.9	2.5	0.3	0.5	59	1	5	1553	2	2	7525	6034	29183	3.29	1906	
561	Jb825	Quartzite	Nsh	34	77	46	5.8	1.4	0.9	0.8	0.1	0.5	7	3	3	50	2	18	322	213	2807	0.56	219	
562	Jb900	Beforsite	Mcb2	355	770	272	82.9	20.6	7.7	2.9	0.3	0.5	73	1	3	1448	2	2	5496	5006	34175	3.66	1964	
563	Jb910	Beforsite, Ap	Mcb2	259	574	250	62.8	15.3	5.3	2.7	0.3	1.6	62	1	3	580	2	2	4976	3790	27201	2.46	1521	
564	K 400A	Sovite, Ft	Mcs	147	257	83	16.4	4.9	2.8	3.5	0.4	0.5	49	6	9	558	6	259	1020	4060	3870	1.88	675	
565	K 100	Gneiss, Qtz-Fd	Mgr	49	76	28	4.5	1.7	1.0	2.5	0.4	4.4	20	3	11	64	2	207	1100	271	376	1.78	217	
566	K 200	Gneiss, Qtz-Fd, fenitised	Mgr	69	116	35	5.6	2.0	1.2	1.4	0.2	18.0	21	5	5	164	2	257	1050	462	1050	3.87	299	
567	K 300	Sovite, Pl	Mcs	138	240	94	18.1	5.7	3.0	4.0	0.4	0.6	50	4	2	390	2	11	2140	5400	484	1.37	665	
568	K 500	Syenite, Agt-Pl-Hl	Msu	4	9	5	2.4	0.9	0.7	0.9	0.2	0.5	2	29	12	249	6	116	637	154	681	2.85	37	
569	K 600	Sovite, Agt?	Mcs	175	298	103	25.0	6.7	2.5	4.6	0.4	2.1	61	12	12	278	4	72	2380	4410	1290	0.96	800	
570	K 700	Sovite-beforsite	Mcs	192	365	125	25.2	9.3	2.7	6.3	0.8	0.5	75	1	2	40	2	3	340	5610	1170	1.04	940	
571	K 710	Gneiss, Qtz-Fd	Mgr	74	138	42	5.5	1.6	0.9	2.2	0.3	4.9	10	3	10	27	2	182	963	176	273	2.92	340	
572	K 720	Sovite, Qtz-Fd	Mgr	52	99	37	3.9	0.5	1.6	2.7	0.3	3.2	11	4	9	60	2	223	881	289	470	2.44	261	
573	K 725	Gneiss, Qtz-Fd, fenitised	Mgr	139	262	82	15.1	3.6	2.7	3.1	0.6	9.5	23	2	17	40	2	236	1235	482	485	3.81	663	
574	K 800	Beforsite, Ap	Mcb2	258	615	261	59.8	13.5	5.5	2.5	0.4	1.7	45	2	20	4800	10	3	5660	4380	22600	3.14	1580	
575	K 805	Beforsite, Ap	Mcb2	125	277	111	23.4	5.5	2.4	1.1	0.1	0.5	21	1	9	826	2	2	5938	3896	9137	2.79	707	
576	K 810	Beforsite, Dol	Mcb2	52	95	37	6.0	2.4	1.2	0.8	0.1	0.8	11	1	1	26	2	3	6660	4810	2490	2.28	256	
577	K 815	Beforsite	Mcb2	80	217	110	15.7	5.6	3.3	4.4	0.6	1.3	74	1	32	440	2	2	3	9222	3950	3094	5.51	592
578	K 820	Beforsite, Dol	Mcb2	59	80	29	5.9	2.0	1.0	0.6	0.1	0.6	8	1	1	3	2	3	6420	2660	1240	2.29	231	
579	K 825	Trachyte	Ktd	272	511	135	24.0	1.3	4.1	8.4	1.2	0.8	73	15	63	214	2	502	881	120	214	3.03	1233	
580	K 900	Beforsite, cut by Carbonate vein	Mcb2	114	244	87	21.7	6.1	2.7	1.3	0.2	0.6	27	1	8	66	2	2	6800	3660	6320	2.60	623	
581	Ka110	Syenite-albite, bre.	Msw	289	585	147	23.2	5.2	1.9	1.1	0.2	0.5	7	8	11	83	2	83	653	1420	228	2.49	114	
582	Ka120	Syenite-albite, bre.	Msw	30	34	16	2.6	0.9	0.7	0.7	0.1	0.5	7	8	11	83	2	83	653	1420	228	2.49	114	
583	Ka200	Syenite, porphyritic	Msp	117	261	71	9.5	2.7	1.0	1.4	0.3	1.8	13	20	17	409	5	139	1310	582	480	1.65	588	
584	Ka210	Syenite, porphyritic	Msp	83	174	50	8.1	2.2	1.2	3.4	0.4	3.1	22	3	9	62	3	422	1340	915	655	2.68	418	
585	Ka220	Syenite, porphyritic	Msw	44	96	38	8.4	2.9	1.2	2.4	0.4	0.5	22	10	16	187	7	449	1150	1760	691	3.16	259	

B-3 Geochemical Analyses of the Orange Area (14)

No.	Sample No.	Rock Name	Rock Code	La	Ce	Nd	Sm	Eu	Tb	Yb	Lu	Sc	Y	U	Th	Nb	Ta	Zr	Mn	Sr	P	Fe %	T-203 ppm	
586	Ka610	Syenite, Phl-Px	Msu	22	39	16	2.6	0.9	0.6	0.6	0.1	0.5	5	210	39	1810	53	280	874	333	241	2.33	109	
587	Ka620	Sovite, Phl-Px	Mcs	248	418	133	30.9	8.9	4.4	3.5	0.5	0.5	62	13	9	103	5	14	1310	1640	11500	2.64	1102	
588	Ka700	Sovite, Phl, banded	Mcs	276	541	174	38.5	12.2	3.8	6.6	1.0	3.1	95	1	1	145	2	3	5240	4250	8140	1.35	1361	
589	Ka710	Beforsite-sovite(?), Phl	Mcb2	93	120	48	9.6	2.1	1.8	2.8	0.3	10.9	35	1	2	84	2	67	1450	269	4390	5.89	368	
590	Ka715	Femite, gneiss origin?	Mfn	156	267	60	9.9	2.6	0.6	1.4	0.3	9.7	14	2	9	74	2	260	1244	517	916	5.63	620	
591	Ka720	Beforsite, Phl-Ap-Dol	Mcb2	76	108	38	5.7	2.2	0.9	0.8	0.1	0.6	10	1	5	2770	2	9	7650	1840	1880	3.03	298	
592	Ka725	Beforsite	Mcb2	174	360	146	32.4	7.9	3.4	1.5	0.2	0.5	32	1	5	1536	2	3	6346	4300	14578	2.43	941	
593	Ka800	Beforsite, Ap-Dol	Mcb2	170	282	104	20.2	6.6	3.3	2.2	0.2	4.3	46	2	33	2350	2	2	3540	1570	7400	3.57	768	
594	Ka805	Beforsite	Mcb2	109	261	83	20.7	5.9	3.2	2.2	0.3	0.5	41	1	13	164	2	3	6770	4082	4662	3.22	641	
595	Ka810	Beforsite, Cal bearing Phl	Mcb2	277	590	234	36.5	14.3	5.3	2.7	0.2	0.5	55	1	2	14	2	3	5900	2320	21400	2.19	1505	
596	Ka815	Beforsite, Ap	Mcb2	203	454	176	41.3	10.6	4.1	2.2	0.3	1.1	43	1	8	2533	2	2	8910	4610	16055	3.04	1170	
597	Ka820	Beforsite, Phl	Mcb2	69	86	27	4.5	1.7	0.9	0.7	0.1	0.5	9	1	2	2	2	2	3	6230	6340	191	2.36	245
598	Ka825	Beforsite, Ap	Mcb2	126	275	100	21.4	5.7	2.1	1.2	0.1	0.5	23	1	5	2562	2	2	3	7018	4046	9646	2.85	686
599	Ka900	Beforsite	Mcb2	172	262	100	22.7	6.7	3.2	1.1	0.2	0.5	28	1	2	102	2	2	3	6150	4040	8950	3.09	737
600	Kb510	Syenite, Agt	Msu	68	160	42	5.2	1.4	0.7	1.1	0.2	0.5	13	3	31	2742	38	136	763	873	2877	3.62	354	
601	Kb620	Beforsite, Cal bearing	Mcb2	92	206	90	18.3	4.7	1.2	1.1	0.2	0.5	20	1	3	1156	2	2	3	9160	3538	8297	3.40	532
602	Kb700	Shale, black hard	Mst	75	171	62	15.2	3.3	3.5	3.9	0.6	19.7	43	1	8	36	2	33	1233	498	4396	7.35	459	
603	Kb710	Femite, gneiss origin?	Mfn	85	156	59	9.1	2.5	1.0	0.9	0.2	12.3	13	3	6	236	2	27	1308	690	1565	8.42	375	
604	Kb715	Beforsite	Mcb2	140	344	149	33.1	8.2	2.7	1.5	0.2	0.7	31	1	1	56	2	2	3	7176	4484	16094	3.29	880
605	Kb720	Beforsite	Mcb2	117	291	129	24.2	6.3	2.3	1.3	0.2	2.0	24	1	9	1236	2	2	3	7354	3930	10220	4.84	741
606	Kb725	Beforsite	Mcb2	126	199	101	28.1	7.3	4.2	3.3	0.5	6.7	58	4	41	1327	2	2	3	7514	3756	13709	3.37	636
607	Kb800	Beforsite	Mcb2	36	76	19	4.2	1.0	1.0	1.6	0.3	2.3	14	14	11	4277	2	11	10698	1682	145	5.91	185	
608	Kb805	Beforsite	Mcb2	165	424	206	35.9	8.8	4.0	1.6	0.2	1.0	33	1	3	809	2	2	3	5934	4460	16899	2.52	1102
609	Kb810	Beforsite	Mcb2	176	424	215	37.7	9.7	4.8	1.8	0.2	0.6	40	1	5	4789	2	2	3	6852	4444	16302	3.18	1140
610	Kb815	Beforsite	Mcb2	162	382	189	35.1	8.8	2.6	1.6	0.2	0.5	35	1	5	1610	2	2	3	5812	3706	19090	3.01	1009
611	Kb820	Beforsite	Mcb2	118	267	132	23.1	5.8	2.6	1.3	0.2	1.3	25	1	4	1014	2	2	3	7192	4202	9820	2.95	717
612	Kc720	Beforsite	Mcb2	58	146	75	9.7	3.0	1.0	0.8	0.1	0.5	14	1	1	10	2	2	3	6134	5842	3130	1.98	380
613	Kc725	Beforsite	Mcb2	200	394	180	30.2	7.5	2.2	1.8	0.2	0.5	33	1	6	1367	2	2	3	7946	4036	9311	3.01	1045
614	Kc900	Beforsite	Mcb2	124	288	117	23.5	6.2	2.7	1.3	0.2	0.7	26	1	2	221	2	2	3	6450	4066	11130	2.67	732
615	Kc805	Beforsite	Mcb2	162	245	89	16.7	3.7	1.8	1.1	0.1	1.3	18	1	4	656	2	2	3	5628	4800	5574	2.45	662
616	Kc810	Beforsite	Mcb2	27	50	24	4.1	0.6	1.0	0.8	0.2	3.1	16	4	5	708	2	2	3	8224	3688	100	2.34	149
617	Kc815	Beforsite	Mcb2	105	222	122	23.2	5.1	2.6	1.3	0.1	1.3	24	1	2	572	2	2	3	6288	5374	7690	2.59	632
618	Kc820	Beforsite	Mcb2	90	159	101	20.1	4.2	1.4	1.4	0.2	3.0	21	1	4	961	2	2	3	6867	4700	5628	3.18	491
619	Kc825	Beforsite	Mcb2	309	551	338	63.3	14.5	5.9	2.4	0.2	1.1	54	1	4	339	2	2	3	6602	6988	30060	2.66	1672
620	Kc900	Beforsite	Mcb2	168	307	161	33.5	7.3	3.5	1.9	0.2	1.8	33	1	8	1310	2	2	3	5952	3640	9783	2.60	892
621	L100	Gneiss, Qtz-fd, femitised	Mgn	97	218	77	10.8	3.1	1.9	3.9	0.5	15.2	45	2	21	46	7	135	1820	730	1550	5.80	541	
622	L110	Syenite, porphyritic	Msw	23	66	34	10.5	4.0	1.7	2.3	0.4	3.5	20	7	16	39	2	122	585	139	509	1.74	203	
623	L120	Syenite, porphyritic	Msw	102	251	72	23.2	12.1	1.7	2.5	0.4	10.0	60	6	25	58	3	153	698	224	341	3.30	601	
624	L200	Syenite, porphyritic	Msp	36	36	12	2.6	0.9	0.7	0.5	0.1	0.5	4	10	9	127	2	2	33	430	698	237	1.74	115
625	L210	Syenite, porphyritic	Msp	47	76	29	4.7	1.3	1.0	2.0	0.4	1.4	15	5	9	955	15	512	1280	819	691	3.88	216	
626	L220	Syenite, porphyritic	Msp	59	108	35	6.5	2.2	1.2	2.4	0.3	0.5	30	79	56	253	2	2	700	1270	388	2.82	283	
627	L600	Sovite - albite	Mcs	204	319	102	24.0	7.3	2.5	3.7	0.5	0.5	63	9	35	733	23	22	1050	4100	4160	0.75	854	
628	L610	Syenite?	Msu	28	52	14	3.4	0.9	0.6	0.8	0.1	11.4	6	1	1	68	2	2	270	1160	332	1.80	132	
629	L615	Sovite	Mcs	309	647	230	52.3	11.9	3.3	4.0	0.5	0.5	64	4	3	218	2	18	1194	6428	22120	1.82	1608	
630	L620	Beforsite-sovite	Mcb2	229	430	179	35.0	11.2	4.4	2.6	0.3	0.5	48	1	14	5280	3	3	6150	4100	18400	3.36	1160	

B-3 Geochemical Analyses of the Orange Area (15)

No.	Sample No.	Rock Name	Rock Code	La ppm	Ce ppm	Nd ppm	Sm ppm	Eu ppm	Tb ppm	Yb ppm	Lu ppm	Sc ppm	Y ppm	U ppm	Th ppm	Nb ppm	Ta ppm	Zr ppm	Mn ppm	Sr ppm	P ppm	Fe %	T-8203 ppm	
631	L 625	Dolerite	Kdd	51	80	40	10.4	2.3	2.4	3.0	0.4	21.9	29	1	4	38	2	138	1170	1195	2376	6.70	266	
632	L 700	Onaiss, Qz-Fd	Ngn	93	256	81	12.9	3.1	1.4	1.3	0.1	8.5	15	1	9	108	2	345	1400	277	539	6.56	575	
633	L 705	Beforsite/sovite	Mcb2	483	822	475	37.0	15.9	8.3	3.9	0.5	1.2	71	2	6	347	2	3	6288	10736	22320	2.21	2447	
634	L 710	Beforsite	Mcb2	234	468	192	37.4	11.6	5.1	2.4	0.3	0.6	46	1	6	1680	2	3	4680	4800	15300	2.44	1242	
635	L 715	Beforsite, Ap	Mcb2	78	144	61	15.3	2.5	2.1	0.9	0.1	1.0	14	1	3	896	2	3	7598	4980	3106	3.86	400	
636	L 720	Beforsite	Mcb2	10	25	9	2.7	0.5	0.7	2.3	0.4	3.0	26	24	3	3870	6	10	11900	958	138	6.55	75	
637	L 725	Beforsite	Mcb2	184	255	133	27.0	6.9	4.9	4.0	0.4	2.9	73	3	32	949	2	7	7614	3760	2846	4.56	823	
638	L 800	Beforsite	Mcb2	215	435	167	32.1	9.9	5.4	2.6	0.2	0.6	44	1	4	18	2	3	6200	5470	14200	2.64	1139	
639	L 805	Beforsite	Mcb2	71	98	55	9.9	2.0	2.2	0.9	0.1	1.5	12	1	3	106	2	3	7294	6030	2062	2.62	319	
640	L 810	Beforsite, Dol	Mcb2	159	312	125	27.8	7.8	4.3	2.3	0.3	1.8	37	1	2	292	2	3	5540	3910	11400	2.35	843	
641	L 820	Beforsite, Dol	Mcb2	169	329	129	24.3	7.1	3.6	1.8	0.3	1.2	30	1	3	1540	2	2	6190	4990	12400	2.66	865	
642	L 900	Shale, black hard	Nsh	93	126	45	8.7	3.0	1.8	4.9	0.4	11.4	57	5	56	40	2	96	1210	362	417	4.70	377	
643	L 1200	Syenite, porphyritic	Msp	30	24	9	1.8	0.9	0.7	1.1	0.2	0.5	5	30	8	103	2	94	355	551	584	0.93	91	
644	L 200	Syenite, porphyritic	Msp	31	28	11	2.8	0.9	0.7	0.9	0.2	0.3	4	10	4	514	2	40	463	2310	652	1.44	101	
645	L 210	Syenite, porphyritic	Msp	112	166	55	6.6	2.6	1.5	1.9	0.3	0.5	22	39	9	2	2	286	1230	1900	1530	0.97	446	
646	L 220	Sovite	Mcs	212	378	113	22.4	7.2	3.5	4.8	0.4	0.5	68	1	1	257	2	3	1290	6960	100	0.22	964	
647	L 610	Sovite-beforsite, Px-Phl	Mcs	253	421	135	32.7	10.6	4.0	6.4	0.9	0.5	92	1	1	228	2	3	4620	2660	2710	0.91	1124	
648	L 615	Beforsite	Mcb2	144	272	173	35.3	7.7	3.7	1.5	0.1	3.1	30	4	90	8770	38	11	3450	1870	19500	6.64	1609	
649	L 620	Sovite-beforsite, Px-Phl	Mcs	347	604	201	45.3	14.2	7.8	5.7	0.8	0.5	93	4	22	3	577	2	3	12888	1250	100	6.73	79
650	L 625	Beforsite	Mcb2	12	18	12	3.0	0.5	1.3	2.6	0.3	6.0	22	8	3	922	2	3	5810	1600	8650	2.49	701	
651	L 700	Beforsite, Ap	Mcb2	154	253	95	20.2	6.8	3.5	1.8	0.2	1.0	36	1	5	28	2610	2	3	8480	1420	3710	5.10	1490
652	L 710	Beforsite	Mcb2	338	587	184	31.7	9.3	5.4	2.3	0.6	1.8	41	7	26	1978	2	12	7116	4008	2928	4.48	839	
653	L 715	Beforsite	Mcb2	157	277	157	36.1	7.1	3.9	2.6	0.3	2.0	40	7	26	1978	2	12	7116	4008	2928	4.48	839	
654	L 720	Beforsite	Mcb2	7	13	7	2.0	0.5	0.8	2.3	0.4	6.9	25	27	4	1630	4	15	12500	629	149	6.15	51	
655	L 725	Beforsite	Mcb2	128	253	152	27.1	6.3	1.9	1.4	0.1	1.6	28	1	6	689	2	7	5746	4264	12166	3.84	738	
656	L 800	Beforsite, Ap	Mcb2	181	350	133	26.9	8.1	3.6	1.9	0.2	1.9	35	1	5	1300	2	3	5400	4000	12400	2.50	916	
657	L 805	Beforsite	Mcb2	170	314	182	34.4	8.1	4.0	1.8	0.2	1.3	33	1	3	286	2	2	7286	6258	10264	3.01	938	
658	L 810	Quartzite, bre.	Nsh	80	120	49	10.7	3.1	1.4	3.1	0.4	7.2	41	4	5	104	3	243	1780	956	1600	3.56	353	
659	L 900	Shale, black hard	Nsh	61	73	30	6.4	1.3	1.5	3.2	0.5	12.2	42	4	12	32	2	114	912	204	316	4.19	240	
660	L 605	Beforsite	Mcb2	238	495	295	69.8	21.7	12.4	12.1	1.4	3.6	240	13	50	2784	2	3	7346	4460	19982	3.77	1894	
661	L 610	Beforsite	Mcb2	138	274	149	32.9	7.5	2.3	1.6	0.2	2.9	29	1	7	2247	2	7	6312	5216	10098	2.87	786	
662	L 615	Beforsite	Mcb2	114	183	125	23.0	5.5	3.2	1.6	0.2	0.7	25	1	7	1045	2	22	6244	4296	7312	3.29	606	
663	L 620	Beforsite	Mcb2	86	148	88	15.7	3.2	1.0	1.1	0.2	1.3	16	1	4	562	2	2	3	7468	5674	3618	3.23	444
664	L 625	Beforsite, Ap-Agt	Mcb2	124	223	136	30.8	6.2	3.6	1.1	0.1	1.1	25	1	5	1187	2	3	6188	5166	9888	2.65	694	
665	L 700	Beforsite	Mcb2	170	304	142	22.4	5.6	1.7	2.5	0.3	1.7	41	1	17	1054	2	7	7532	5346	4408	4.58	832	
666	L 705	Beforsite	Mcb2	65	103	67	10.5	3.1	1.9	1.7	0.2	3.2	23	4	57	657	2	2	6872	6500	1494	3.30	339	
667	L 710	Beforsite	Mcb2	115	163	131	25.6	6.5	4.4	2.4	0.2	1.9	35	1	30	1351	2	8	6608	3638	4832	3.16	610	
668	L 715	Beforsite	Mcb2	95	141	104	20.2	4.2	3.6	1.3	0.1	3.1	22	1	9	827	2	7	6352	4568	5688	4.82	498	
669	L 720	Beforsite	Mcb2	84	119	85	17.1	2.9	3.0	1.3	0.1	3.8	12	1	1	25	5164	2	12	5934	5090	13608	6.97	417
670	L 725	Beforsite	Mcb2	104	151	120	21.5	5.0	3.1	1.3	0.1	2.2	21	1	7	1722	2	6	6652	5142	7658	3.38	542	
671	L 800	Beforsite	Mcb2	61	82	59	12.4	1.7	1.6	0.8	0.1	2.4	10	1	15	171	2	3	6874	4494	1721	3.07	290	
672	L 805	Beforsite	Mcb2	69	86	52	9.0	1.5	1.0	1.0	0.1	1.5	13	3	8	424	2	4	9944	5844	6090	4.41	286	
673	L 610	Sovite	Mcs	183	282	135	21.7	5.7	4.1	3.8	0.5	1.4	53	94	7	6	1795	6462	5346	4080	1.78	840		
674	L 615	Sovite	Mcs	207	275	190	38.5	10.5	8.4	6.8	0.9	0.6	83	4	11	1212	5	4	6110	7738	4048	2.44	1319	
675	L 620	Beforsite	Mcb2	82	106	80	14.2	3.3	1.1	1.5	0.2	0.5	21	1	6	1411	2	3	6014	7874	5054	1.86	376	

B-3 Geochemical Analyses of the Orange Area (16)

No.	Sample No.	Rock Name	Rock Code	La	Ce	Nd	Sm	Eu	Tb	Yb	Lu	Sc	Y	U	Th	Nb	Ta	Zr	Hf	Sr	P	Fe %	T-R203 ppm
676	Lo625	Beforsite	Mcb2	205	305	197	45.6	12.2	5.2	7.1	1.1	0.5	92	1	4	707	18	4	7436	4092	3378	4.91	1045
677	Lo700	Beforsite	Mcb2	153	306	165	32.5	6.8	4.5	1.6	0.1	1.0	30	1	2	935	2	3	7482	4646	11860	3.49	584
678	Lo705	Beforsite	Mcb2	97	194	122	27.7	4.9	2.9	0.9	0.1	0.7	21	1	3	454	15	3	8970	4020	8442	6.09	587
679	Lo710	Beforsite	Mcb2	87	218	87	17.0	3.8	1.3	1.2	0.1	2.0	19	1	5	252	2	3	8386	5126	3350	3.74	535
680	Lo715	Beforsite	Mcb2	17	36	23	5.3	2.2	1.8	3.9	0.5	6.4	78	27	6	1755	2	3	14538	1390	2112	8.32	139
681	Lo720	Beforsite	Mcb2	185	275	130	19.8	3.9	1.4	2.0	0.2	3.0	21	16	32	2194	2	16	12248	2614	100	6.65	786
682	Lo725	Beforsite	Mcb2	46	73	41	9.4	2.0	2.0	1.6	0.2	2.1	19	12	12	4493	2	28	6124	4896	1880	3.51	242
683	Lo800	Beforsite	Mcb2	464	662	374	63.4	16.5	10.5	7.8	0.9	3.7	145	4	74	974	2	3	7592	5680	15778	3.72	2115
684	Lo805	Beforsite	Mcb2	90	127	69	13.6	2.6	1.4	0.8	0.1	3.7	14	1	3	859	20	3	7304	5302	2412	3.45	395
685	M 100	Syenite-albite, bre.	Msw	68	100	37	9.7	1.5	1.7	1.2	0.2	0.9	13	14	11	859	6	57	740	427	973	1.34	291
686	M 110	Syenite-albite, bre.	Msw	87	147	35	4.9	1.4	0.8	0.8	0.1	0.5	10	78	19	268	2	27	660	438	1620	1.48	351
687	M 120	Syenite, porphyritic, bre.	Msw	208	334	77	10.2	2.2	1.3	0.9	0.1	0.5	17	91	14	900	3	23	1610	1340	2260	1.69	792
688	M 200	Syenite	Msp	56	70	25	4.3	1.1	0.9	0.8	0.1	1.2	13	34	18	496	5	320	861	1230	2560	3.86	206
689	M 210	Syenite	Msp	144	233	67	15.8	2.5	2.2	1.2	0.2	0.5	24	286	30	3170	15	25	2180	3020	1220	1.51	597
690	M 220	Sovite, Hbl	Mcd	1306	3344	798	126.6	27.6	10.4	4.2	0.5	5.1	79	1	147	13	2	10200	12810	613	6.74	7051	
691	M 300	Sovite	Mcs	79	126	42	10.0	3.3	1.1	1.7	0.2	0.5	26	10	4	134	2	11	801	2410	773	0.25	341
692	M 400	Sovite-beforsite, Px-Phl	Mcs	193	361	150	24.5	6.8	2.9	4.6	0.6	0.7	77	4	5	2100	2	19	1460	4390	3200	1.37	966
693	M 500	Sovite	Mcs	228	351	98	20.9	7.2	2.1	4.4	0.5	0.5	71	1	1	8	2	16	1250	6040	370	0.31	909
694	M 600	Sovite	Mcb2	90	158	80	15.8	3.4	2.1	0.9	0.1	1.5	16	1	2	1001	2	3	7676	7476	3992	2.99	459
695	M 605	Beforsite	Mcb2	93	110	49	9.4	2.5	1.2	0.6	0.1	1.3	12	1	1	126	2	3	6250	6290	2880	2.20	343
696	M 610	Beforsite	Mcb2	149	218	110	25.7	6.0	3.7	1.3	0.1	1.5	25	1	2	487	2	3	7986	7384	8680	3.35	677
697	M 615	Beforsite	Mcb2	92	108	50	10.3	2.8	1.5	0.8	0.1	0.5	16	1	4	768	2	4	5700	3810	3180	2.49	345
698	M 620	Beforsite, AP-Ank	Mcb2	181	298	201	40.5	10.0	5.5	3.1	0.3	4.0	55	1	13	2272	22	9	6522	4424	16120	2.89	988
699	M 625	Beforsite	Mcb2	159	362	142	28.8	8.8	5.2	2.0	0.3	2.8	37	1	8	1980	2	3	4990	4070	13900	2.38	937
700	M 700	Beforsite, Hbl	Mcb2	291	402	268	51.6	11.9	6.3	2.2	0.2	3.2	46	1	11	3661	24	13	6984	5396	18914	3.25	1356
701	M 705	Beforsite	Mcb2	193	317	118	26.3	8.5	4.5	1.8	0.5	0.8	40	1	47	4090	5	4	5130	3740	12600	5.17	877
702	M 710	Beforsite, Phl-Ank	Mcb2	181	266	175	40.2	9.3	3.2	2.0	0.2	0.7	39	1	4	837	21	3	6840	6274	16056	2.99	884
703	M 715	Beforsite	Mcb2	218	434	152	30.9	8.8	4.1	1.3	0.2	1.2	38	1	4	1480	2	3	5180	5210	12200	2.63	1096
704	M 720	Beforsite, Ank	Mcb2	399	659	408	86.5	18.7	4.2	2.6	0.3	0.7	61	1	7	578	20	3	9514	6992	23660	3.44	2025
705	M 725	Beforsite	Mcb2	167	294	78	10.2	2.5	1.7	1.3	0.2	6.0	16	28	14	3520	3	4	8750	4030	142	4.45	704
706	M 800	Beforsite	Mcb2	434	630	269	51.4	9.7	6.0	2.0	0.2	8.8	25	20	61	2357	22	4	9092	6152	178	4.78	1799
707	M 805	Beforsite, Cal bearing	Mcb2	68	109	39	5.1	1.7	1.2	2.6	0.5	9.8	32	4	17	51	2	101	994	510	415	4.90	299
708	M 810	Shale, black hard	Nsh	55	125	54	13.2	4.5	2.2	1.4	0.1	0.5	29	1	2	44	2	33	287	82	429	0.53	346
709	M 900	Quartzite-grit	Msw	121	178	51	8.1	2.3	1.6	1.0	0.2	0.5	19	109	14	1170	5	16	1830	910	2640	1.73	465
710	Ma120	Syenite, porphyritic	Msp	68	126	35	4.7	1.1	0.9	0.8	0.1	0.7	13	14	11	309	3	64	1170	724	1770	4.42	302
711	Ma210	Syenite, porphyritic	Msp	81	129	35	6.5	2.2	1.1	1.7	0.2	0.8	25	56	8	519	2	46	1670	3030	2120	3.08	332
712	Ma210	Syenite, porphyritic	Msp	58	97	30	5.5	1.5	0.9	0.9	0.1	0.5	14	2	7	124	2	156	1150	2550	790	2.94	251
713	Ma220	Syenite, porphyritic	Msp	208	367	99	20.8	6.3	2.6	3.2	0.3	0.5	65	1	9	9	2	3	1260	8620	504	0.30	906
714	Ma510	Sovite	Mcs	195	331	94	23.1	5.8	2.8	3.4	0.3	0.5	63	4	1	60	2	110	1330	6960	216	1.28	845
715	Ma520	Sovite, Hbl	Mcb2	66	73	24	4.9	0.6	0.6	0.7	0.1	5.1	10	7	13	612	16	3	7846	4628	100	5.89	216
716	Ma525	Beforsite, Cal bearing	Mcb2	182	293	88	17.2	5.1	2.6	1.2	0.1	1.5	16	10	41	2200	2	7	5530	6220	305	3.63	796
717	Ma600	Beforsite, Cal bearing	Mcb2	195	306	161	36.9	8.7	6.2	1.5	0.2	0.7	35	1	5	941	2	3	7166	7252	14282	3.84	951
718	Ma605	Beforsite	Mcb2	119	218	73	13.5	4.1	2.0	1.0	0.1	0.5	23	1	3	916	2	3	5650	9340	8450	6.13	557
719	Ma610	Beforsite, Cal bearing	Mcb2	102	183	96	23.2	5.1	3.0	1.2	0.1	0.7	25	1	5	686	21	3	7974	7518	8158	3.06	548
720	Ma615	Beforsite	Mcb2	102	183	96	23.2	5.1	3.0	1.2	0.1	0.7	25	1	5	686	21	3	7974	7518	8158	3.06	548