Appendix 3.

Sample Descriptions

Appendix 3. Sample descriptions.

Sample #	Location Name	NTS Map Sheet (Coordinates)	Rock Unit (Reference Map)	Outcrop/Sample Description
HRM-01	Bates Lake Area	11D/13 (0423452/4956547)	Sandy Lake Monzogranite (Corey, 1987)	Outcrop and rubble in road cut, medium grained; buff; equigranular; limonite staining on fracture faces and within rock mass; minor cordierite, weathered and pitted along some of the fracture faces; pegmatitic; weathering along fracture planes moderate; appears to be limited till cover in area; sampled blocks ripped during road construction
HRM-02	Bates Lake Area	11D/13 (0423010/4957749)	Panuke Lake Leucomonzogranite (Corey, 1987)	Outcrop; fine- to medium-grained; buff brown; predominantly equigranular with minor large quartz grains and cordierite(?); limonite/goethite staining on fracture planes; rock appears to be quite solid, although minor pitting on surface; minor phenocrysts; locally underlies a veneer of till; sampled outcrop; very hard stone to break
HRM-03	Bates Lake Area	11D/13 (0422900/4957059)	Sandy Lake Monzogranite (Corey, 1987)	Outcrop; buff; medium grained; megacrystic (5%); cordierite (?); manganese staining on fracture planes; pitted surface related to weathering of soft minerals; rock sample taken with sledge hammer from outcrop; stone does not seem as durable as HRM-01 and HRM-02
HRM-04	Bates Lake Area	11D/13 (0422637/4955782)	Panuke Lake Leucomonzogranite (Corey, 1987)	Outcrop in road cut; buff coloured; fine- to medium-grained; minor phenocrysts of feldspar; 3-4% cordierite(?); pitted at surface; biotite and muscovite (5-8%?); some large crystals of muscovite locally; 1-2 m of till overlies bedrock adjacent to outcrop; minor pegmatite; quite fractured in places and possibly sheared; rock seems reasonably hard, although a lot of dust was produced while breaking the outcrop

Appendix 3. (continued).

Sample #	Location Name	NTS Map Sheet (Coordinates)	Rock Unit (Reference Map)	Outcrop/Sample Description
HRM-05	Quacks Lake Area	21A/09 (0418099/4950415)	Panuke Lake Leucomonzogranite(?) (Corey, 1990)	Outcrop and bedrock rubble in pit; buff to pink red to rust brown; medium- to medium-coarse-grained with minor fine grained; hematized; limonite; iron mineralization occurs in rock mass and along fracture planes; slickensides; pitted surface and along fracture planes of some of the rock; appears to be 2-3 m of overburden; samples taken from blocks of surface rubble; alteration and mineralization may affect aggregate test results in negative manner; note: grain size not consistent with the description of this unit; possibly Sandy Lake Monzogranite(?)
HRM-06	Long Lake Area	21A/09 (0418633/4950727)	Panuke Lake Leucomonzogranite(?) (Corey, 1990)	Outcrop in small pit; pinkish grey; medium- to coarse-grained; biotite (4-5%); cordierite (1-2%); minor weathering along joint planes; common microfractures in grains (crystals); equigranular; minor phenocrysts; minor limonite/hematite; quite weathered on exposed outcrop surface; moderate kaolinization; joints are moderate to closely spaced; sampled loose outcrop blocks; rock appears to have moderate durability for aggregate; may not perform well on aggregate tests; frequency of exposure in area suggests that till cover is thin; note: grain size not consistent with the formal description of this unit; possibly Sandy Lake Monzogranite (?)
HRM-07	South Lake Area	21A/16 (0420198/4956785)	Panuke Lake Leucomonzogranite (Ham and Horne, 1987)	Outcrop in road cut; buff; fine grained; closely spaced fracturing and joints; 3-4% biotite; muscovite; limonite staining on fracture planes; superficial weathering at surface and along fracture planes; minor pods of hematite; scattered pitting along fracture planes; sample taken from fractured outcrop exposure; rock appears very hard; only a veneer of till in this area (recently clearcut); location occurs in contact area with New Ross Leucomonzogranite; not sure which rock type is at this location; from field perspective, appears to have best technical attributes for quarrying; distance to market is the major drawback

Appendix 3. (Continued).

Sample #	Location Name	NTS Map Sheet (Coordinates)	Rock Unit (Reference Map)	Outcrop/Sample Description
HRM-08	South Lake Area	21A/16 (0420121/4957646)	Panuke Lake Leucomonzogranite Ham and Horne, 1987)	Outcrop in road cut; buff-brown to pink-red to rust; fine grained; 4-5% biotite; abundant hematite and limonite along fracture planes; strongly fractured outcrop in places; iron staining in rock mass as well as along fracture planes; superficial surface weathering; sampled loose surface rocks; stone appears to be quite 'fresh' and durable; minor overburden
HRM-09	South Lake Area	21A/16 (0420038/4957033)	Panuke Lake Leucomonzogranite (Ham and Horne, 1987)	Outcrop in road cut; buff-brown to buff-orange to medium grey; fine grained; minor limonite staining on fracture planes; moderate fracturing and jointing; scattered pods of hematite; superficial weathering on surface and along fracture planes; minor pitting; scattered 1 cm quartz grains (porphyritic?); rock is durable and hard; veneer of overburden with abundant exposure in this area
HRM-10	South Lake Area	11D/13 (0421145/4956517)	Panuke Lake Leucomonzogranite (Corey, 1987)	Outcrop in road cut; buff to pink; fine grained; pods of hematite; limonite/manganese mineralization along fracture planes; hematite staining in rock mass; moderate weathering at surface; rare phenocrysts; scattered 1 cm quartz grains (porphyritic?); sampled loose surface blocks; seems to be a ridge of outcrop with a veneer of till; on either side of this ridge there appears to be thick ridges of till
HRM-11	South Lake Area	21A/16 (0419890/4956847)	Panuke Lake Leucomonzogranite (?) (Ham and Horne, 1987)	Outcrop and rubble in road cut; buff; fine grained; minor limonite/hematite staining on fracture plane faces; bedrock quite fractured based on small amount of exposure; scattered pods of hematite; sampled blocks of surface rubble; rock seems quite hard; this location may occur in New Ross Leucomonzogranite of Ham and Horne (1987)

Appendix 3. (continued).

Sample #	Location Name	NTS Map Sheet (Coordinates)	Rock Unit (Reference Map)	Outcrop/Sample Description
HRM-12	Pogwa Lake Area	11D/12 (0420480/4954316)	Panuke Lake Leuco-monzogranite(?) (Corey, 1990)	Outcrop in road cut; pinkish-bluish white to pale grey; medium-coarse grained; megacrystic (3-4%); limonite and hematite on fracture planes and in rock mass (moderate); slickensides; cordierite(?) scattered throughout; moderate weathering on outcrop surface; weathering along joints appears to be superficial; mapped as leucomonzogranite, but probably monzogranite; rock quite fractured in places; appears to be moderately durable; outcrop nearby shows variation from quite phenocrystic (5-10%) to medium grained stone with no obvious contact between them; this location may be in the Sandy Lake Monzogranite (Corey, 1990)
HRM-13	The Hay Marsh Area	11D/12 (0422602/4951754)	Tantallon Leucomonzogranite (MacDonald and Horne, 1987)	Outcrop in road cut; pink to buff; fine- to medium-grained; hematized; pods of hematite(?); biotite (4-5%); highly fractured; appears moderately weathered along many of the fractures and surface of outcrop; veneer of till; rock should be reasonably durable for aggregate, however has a weathered look along outcrop face; broken pieces appear quite fresh and tight
HRM-14	The Hay Marsh Area	11D/12 (0422618/4952300)	Tantallon Leucomonzogranite (MacDonald and Horne, 1987)	Outcrop in road cut; pink-red to buff; medium grained; equigranular; strongly hematized; closely spaced joints; 4-5% biotite; appears to be abundant kaolin interstitially (chalky look); appears to be moderately weathered at surface and along fracture planes; scattered limonite staining; abundant muscovite (5-6%); rock has weathered look about it; suspect it is soft and won't make good aggregate
HRM-15	The Hay Marsh Area	11D/12 (0422926/4950939)	Tantallon Leucomonzogranite (MacDonald and Horne, 1987)	Outcrop and rubble in road cut; buff-brown to white-grey; fine- to medium-grained; 4-5% biotite; 1 cm quartz crystals; pods of cordierite(?); based on rubble, appears to be quite strongly jointed and fractured; very little outcrop; seems to be hard, durable rock; veneer of overburden at this location; however, downhill to south of here is thick till

Appendix 3. (continued).

Sample #	Location Name	NTS Map Sheet (Coordinates)	Rock Unit (Reference Map)	Outcrop/Sample Description
HRM-16	The Hay Marsh Area	11D/12 (0422811/4951671)	Tantallon Leucomonzogranite (MacDonald and Horne, 1987)	Outcrop in road cut; pinkish white-grey; medium grained; biotite 5-8%; scattered pods of hematite; moderate fracturing; manganese staining on fracture planes; minor weathering on fracture planes and outcrop surface; till thickness variable (1 m of till would have overlain outcrop; thicker till to sides of outcrop and away from ridge peak); seems to be quite durable stone
HRM-17	The Hay Marsh Area	11D/12 (0423368/4952157)	Tantallon Leucomonzogranite (MacDonald and Horne, 1987)	Surface rubble; angular nature of blocks probably indicative of nearby or underlying bedrock; buff to buff-brown; medium grained; 5-6% biotite; minor pods of cordierite; weathering (colour change) is 0.5 cm thick on surface of blocks; weathering along fractures is minor; manganese and limonite staining along fracture planes
HRM-18	The Hay Marsh Area	11D/12 (0422952/4950489)	Tantallon Leucomonzogranite (MacDonald and Horne, 1987)	Surface rubble and possible outcrop; pink to buff; medium grained; hematite and limonite staining; cordierite in scattered pods; sampled blocks at surface; blocks appear very hard and durable; sample site occurs north of and near thick ablation tills
HRM-19	Island Lake Area	11D/12 (0426611/4952399)	Tantallon Leucomonzogranite (MacDonald and Horne, 1987)	Bedrock in road cut; buff brown to pale rust-brown; fine- to medium-grained; strongly fractured; limonite common along fracture planes and in rock mass; scattered pods of cordierite; moderate weathering on fracture planes and in outcrop surface; 1 cm quartz grains; porphyritic texture; location may be in Sandy Lake Monzogranite (MacDonald and Horne, 1987)
HRM-20	Island Lake Area	11D/12 (0425975/4950704)	Tantallon Leucomonzogranite(?) (MacDonald and Horne, 1987)	Small outcrop in road cuts; buff brown; medium grained; equigranular; 5-10% biotite; minor limonite and manganese staining along abundant fracture planes; closely spaced fractures where sample was taken; kaolinization; veneer of overburden; moderate weathering on outcrop surface; minor weathering along fracture planes; moderately hard; not as good as some other sites examined; location may occur in Sandy Lake Monzogranite of MacDonald and Horne (1987)

Appendix 3. (continued).

Sample #	Location Name	NTS Map Sheet (Coordinates)	Rock Unit (Reference Map)	Outcrop/Sample Description
HRM-21	Island Lake Area	11D/12 (0425811/4952093)	Tantallon Leucomonzogranite (MacDonald and Horne, 1987)	Outcrop in road cut; pinkish buff; fine grained; porphyritic; 1 cm grains of quartz; 3-4% biotite; minor muscovite (1% ?); closely spaced fractures/joints; pitted outcrop surface from weathering; limonite staining on fracture planes; moderate weathering on outcrop surface; till is 1 m thick in this area; rock appears quite durable with aggregate potential
HRM-22	Island Lake Area	11D/12 (0426733/4951216)	Sandy Lake Monzogranite (MacDonald and Horne, 1987)	Angular surface rubble; presumably derived from nearby (underlying?) outcrop; buff-brown to pale orange; medium grained; based on rubble, appears to be highly fragmented; limonite and manganese staining on fracture planes; 4-5% biotite; fracture pattern produces blocky and tabular stone; rock appears to be quite durable
HRM-23	Island Lake Area	11D/12 (0426728/4951419)	Sandy Lake Monzogranite (MacDonald and Horne, 1987)	Appears to be poor outcrop exposure; pale orange to buff brown; medium grained; 5-6% biotite; hematite staining on fracture faces common; blocky to tabular stone; minor pegmatite; occurs near contact with monzogranite; superficial weathering on fracture planes and surface of outcrop; rock seems quite durable; abundant rubble along road in this area suggesting overburden is shallow
HRM-24	Island Lake Area	11D/12 (0426491/4952802)	Tantallon Leucomonzogranite (MacDonald and Horne, 1987)	Outcrop(?) and bedrock rubble; buff brown with pinkish feldspar; medium- to coarse-grained; minor phenocrysts (<1%); equigranular(?); limonite on fracture planes; pitting on outcrop surface; one small xenolith; moderate weathering on surface and fracture planes; quite fractured; moderate durability; (according to map, location is near contact; may be monzogranite; sampled block ripped from outcrop during road construction)