Division of Geological & Geophysical Surveys

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MAJOR OXIDE, MINOR OXIDE, TRACE ELEMENT, RARE-EARTH ELEMENT, AND GEOCHEMICAL DATA FROM ROCKS COLLECTED IN EAGLE AND TANACROSS QUADRANGLES, ALASKA IN 2000

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Note: This report (including all analytical data, tables, and map sheets) is available in digital format from the DGGS web site (http://wwwdggs.dnr.state.ak.us) at no charge. The digital data are available as PDF files and Excel spreadsheets.

MAJOR OXIDE, MINOR OXIDE, TRACE ELEMENT, RARE-EARTH ELEMENT, AND GEOCHEMICAL DATA FROM ROCKS COLLECTED IN THE EAGLE AND TANACROSS QUADRANGLES, ALASKA IN 2000

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INTRODUCTION

Mineral resource personnel from the Alaska Division of Geological & Geophysical Surveys carried out a geological field survey, including mapping and sampling of Eagle and Tanacross quadrangles, Alaska from June 2, 2000 to July 12, 2000. The fieldwork provides basic information critical to building an understanding of Alaska's geology and is part of an integrated program of airborne geophysical surveys followed by geological mapping programs. During 2000, 157 rock samples were collected for geochemical trace-element analysis, and 96 samples were collected for whole rock (major and minor oxides, and petrogenetically important trace and (or) rare earth element data) analysis. The locations of these samples are shown on Sheets 1-3. Location data (in UTM coordinates with a Clark 1866, NAD27, UTM zone 7 projection), descriptions, and analytical results for each sample are tabulated in Tables 1-5.

ANALYTICAL METHODS

All 2000 trace-element geochemical analyses were performed by Chemex Labs, Inc. Rock samples were crushed so that at least 70 percent of the material passed through a –10 (2 mm) mesh screen. A 200-gram, representative split of the sample was then taken using a riffle splitter. The 200-gram sample was then pulverized in a chrome steel ring mill so that 95 percent of the sample passed through a –150 (106 micron) mesh screen. DGGS also submitted geochemical standards at an approximate rate of one pulp per fifteen unknowns, and crushed granite and basalt standards were submitted at an approximate rate of one whole rock standard per fifteen unknowns.

Gold was analyzed on a 30 gram representative sample split using Fire Assay (FA) and Atomic Absorption Spectroscopy (AAS) methods. Most of the trace elements were analyzed by Inductively Coupled Plasma - Atomic Emission Spectroscopy (ICP-AES) methods after nitric aqua regia digestion. Platinum and palladium were analyzed by the Fire Assay – Inductively Coupled Plasma (FA-ICP) method. Analytical detection limits are tabulated in Table 6.

All whole rock analyses were performed by Chemex Labs, Inc. Major and minor element oxides were determined by XRF methods following a metaborate fusion. Trace elements (Ba, Nb, Rb, Sr, Y, and Zr) were also analyzed using XRF methods on a pressed pellet. Rare Earth elements were analyzed using Inductively Coupled Plasma – Mass spectroscopy after fusing with lithium metaborate. Analytical detection limits are tabulated in Table 7.

Table 1. Location and description of rock samples collected in the Eagle quadrangle for trace element geochemical analyses.

Sample	UTM E	UTM N	Description
00DS001	466692	7112497	Quartz vein with oxidized sulfides (pyrite? cubes)
00DS005	466199	7113182	Iron-oxide stained, quartz + feldspar + white mica gneiss with vuggy-quartz-veins; limonite (after pyrite?) cubes ~1 mm across preferentially occur on vein surfaces
00DS010A	464999	7113564	Pink Mg?-carbonate with amphibole?/pyroxene? bands - weak skarnoid
00DS010C	464999	7113564	Skarnoid with clinopyroxene? bands and wisps. Contains siliceous zones with disseminated epidote, and minor quartz veining and rare iron-oxide
00DS026B	453099	7115691	Pegmatite veins with K-feldspar + quartz + chloritized biotite + epidote + sparse disseminated fine-grained magnetite
00DS032B	452535	7116528	Pyrite-bearing gneiss
00DS039	451902	7118035	Finely-banded calcareous gneiss or skarnoid with minor disseminated pyrite
00DS045B	452826	7118613	Skarnoid with ~5% very fine grained pyrrhotite and pyrite (+/- chalcopyrite) in layers
00DS048A	453068	7119247	Skarn
00DS063A	454070	7119417	Skarnoid with iron-oxide spots after sulfides
00DS063B	454070	7119417	Marble with disseminated gray-black spots (specular hematite?/graphite?)
00DS064	454027	7119279	Amphibole + plagioclase + calcite skarnoid with iron-oxide staining
00DS070A	458876	7113900	Epidote- and quartz-veined granodiorite
00DS074	459308	7114160	Mable with skarnoid bands. 2- to 3-mm-wide, green, coarse grained bands/ layers within pale green marble with iron-oxide stain on fractures. Some clinopyroxene and garnet and trace oxidized sulfide? in discontinous stringers
00DS075	459168	7113023	Marble with disseminated gray-black spots (specular hematite?/graphite?)
00DS079A	435337	7134511	Marble with some solution cavities lined with sparry calcite. Some pieces look brecciated. Cut by a 5-cm-wide quartz vein
00DS079B	435337	7134511	White quartz vein with orange iron oxide staining and rare oxidized cubes
00DS081	435638	7134506	High grade metamorphic clasts in a greenish volcanic matrix. Occasional clear, euredral quartz-lined cavitites
00DS085	431013	7139691	Biotite schist with quartz veining and iron-oxide staining (yellow oxidized areas may have been an As?-bearing mineral)
00DS092A	431578	7141126	Massive milky white granular quartz boulders with color banding
00DS103A	461362	7105816	Calcareous phyllite with foliation surfaces covered with black and brown pseudo-dendritic oxides (Fe and Mn?). Also much less common bright green platy mineral (aurichalcite? or calcanthite?). Unit is platy and looks waxy. Trace disseminated sulfide mostly weathered to iron oxide. Several 1- to 3-mm-wide milky white quartz veinlets
00DS110A	462203	7105595	Calc-phyllite with abundant calcite veinlets with very fine grained black metallic grains.
00DS135A	469264	7115501	Quartz + carbonate + pyrite vein
00DS135C	469264	7115501	Sulfide-bearing monzonite cross cut by quartz veins with K-feldspar alteration

Table 1. Location and description of rock samples collected in the Eagle quadrangle for trace element geochemical analyses.

Sample	UTM E	UTM N	Description
00DS136A	469235	7115513	Pyrite (3-4%) + (free-gold?) in iron-oxide stained quartz vein
00DS145B	469597	7113326	Clinopyroxenite? or clinopyroxene skarn? with iron-oxide staining
00DS147B	466833	7099392	Cm-wide transleucent brown quartz veins with magnetite selvages. Magnetite crystals up to 1- to 2-mm across. Many quartz veins are vuggy with euhedral quartz crystals
00DS160C	451855	7097520	15-cm-wide, yellow and white, calcite breccia vein with clasts of highly altered Taylor Mountain Batholith; clasts of pale green talc.
00DS165	453299	7099656	5-cm-wide, nearly-horizontal quartz vein
00DS168B	455164	7101788	Chalcedonic? quartz vein-breccia
00DS186A	478484	7119888	Quartz-dominated, garnet + pyroxene + amphibole? skarn with rare iron?-staining
00DS187B	478545	7119724	Biotite + feldspar + quartz gneiss with dark gray quartz-rich layer with 1-2% fine-grained pyrrhotite as clots and as disseminated grains. Pyrrhotite grains and clots are planar-distributed with sulfide planes parallel to foliation
00DS200B	479860	7118765	Banded endoskarn/skarn with quartz veins, light green amphibole, and local disseminated oxidized sulfides
00DS215	463497	7119500	Quartz pyrite vein
00DS217	463414	7119740	Metagabbro with square magnetite crystals
00JG042C-6/30	479010	7109297	Pegmatite with epidote
00JG050A-6/14	455583	7122527	Quartz layer in marble containing pyrrhotite and pyrite
00JG050B-6/14	455583	7122527	Sulfide-bearing metagabbro
00JG063-6/16	456601	7115956	Large piece of epidote with sulfides
00JG063X-7/1	464470	7101202	Green rock with sulfides
00JG067-7/2	465506	7100624	Green aplite layer with oxidized pyrite crystals and unknown silver-colored mineral
00JG072-6/19	457929	7114928	Quartzite with oxidized sulfides
00JG073A-7/2	477673	7098330	Muscovite biotite chlorite quartz gneiss with sulfides
00JG077-6/19	459492	7115069	Quartz veins in quartzite or gneiss
00JG082-6/19	461057	7115012	Garnet amphibolite
00JG084-6/19	461792	7115329	Skarn?
00JG089B-7/4	477359	7119161	Gneiss with sulfides
00JG93B-7/9	487352	7109338	Muscovite quartz feldspar pegmatite
00JG98-7/9	489008	7110895	Clinopyroxenite?
00JG136-6/23	464320	7102162	Greenstone with sulfides
00JG137-6/23	464292	7102201	Calcareous quartzite with sulfides
00JG138-6/23	464219	7102340	Green quartzite with iron-staining and sulfides
00JG139-6/23	464213	7102425	Green quartzite with sulfides (pyrite?)
00JG140-6/23	464027	7102775	Sulfides in greenish-black layer in gneiss
00JG156-6/25	472985	7097369	Quartz with sulfides

Table 1. Location and description of rock samples collected in the Eagle quadrangle for trace element geochemical analyses.

Sample	UTM E	UTM N	Description
00JGSKOID#1-6/15	461055	7125506	Skarnoid
00JGSKOID#2-6/15	461064	7125532	Skarnoid with garnet and pyroxene
00MBW11A	482538	7117989	Altered, limonite-stained, quartzo-feldspathic gneiss with possible pyrite/sulfide pseudomorphs
00MBW38A	481191	7117516	White, brittley-fractured milky quartz veins with trace limonite staining
00MBW73	465837	7123242	Gneiss/orthogneiss cut by 1.5-cm-wide vein of quartz + limonite + iron carbonate?
00MBW94B	467298	7119366	One-inch-wide vein of quartz + K-feldspar + pyrite? + hematite? cutting quartz monzodiorite?
00MBW101A	469247	7115270	Epidote- and quartz-veined monzonite (Napoleon pluton)
00MBW101C	469247	7115270	Vein of very fine grained granular quartz with limonite-filled vugs
00MBW104	469350	7115346	Bright orange weathering, fractured, partly gossanous, +/- possible iron carbonate?-altered rock (altered Napoleon pluton?) cut by micro-fractures filled with quartz
00MBW111	470725	7115513	Quartz vein cutting Napoleon pluton; contains approximately 2% pyrite (partially altered to limonite)
00MBW112	470890	7115519	Orange-weathering, gossanous fault breccia
00MBW130	467505	7114058	Fault; wide zone of milky quartz veins +/- limonite
00MBW142B	466650	7112022	Quartz + limonite veins
00MBW142C	466650	7112022	1-cm-wide quartz vein with limonite psuedomorphs after sulfides cutting rhyolite?
00MBW180	465420	7108627	Limonite-stained, pale green aphanitic silica with sparse anhedral disseminated grains of an unknown black submetallic mineral (tetrahedrite?/hematite?)
00MBW187B	465492	7112167	Cream-colored, fine grained, equigranular, banded, quartz feldspar orthogneiss with 2% to 3% disseminated limonite (after pyrite?)
00MBW190	465145	7112168	Skarn with diopside/tremolite(?), pyrrhotite, pyrite, and an unidentified silver-gray mineral
00MBW191	465040	7112199	Iron-stained, color banded quartzite or quartz-rich gneiss with iron sulfide on fracture surfaces
00MBW192	465007	7112165	Tan quartzite with iron sulfides and an unidentified silver-gray mineral
00MBW193	464940	7112185	Quartz-veined, tan, fine-grained intrusion with disseminated patches of limonite (after sulfides)
00MBW200	462404	7112045	Skarn? - calcareous bands in hornfelsed gneiss
00MBW215B	455994	7116863	Pluton cut by sparse quartz + limonite veins near contact with altered gneiss
00MBW217	456073	7116880	Garnet-quartz-limonite skarn in gneiss above contact with pluton
00MBW224	456863	7117392	Leucocratic, finely banded, pink and white, biotite + quartz + feldspar gneiss with quartz veins that contain limonite cubes (after pyrite)
00MBW230	457967	7118568	Quartz veins in orthogneiss at fault contact with amphibole plagioclase gneiss
00MBW250	458086	7116001	Biotite + quartz + feldspar gneiss/orthogneiss? cut by veins/fractures with potassic envelopes and crystalline chlorite (secondary biotite?) and limonite in the center
00MBW251	458240	7115900	Massive milky quartz with trace limonite
00MBW264	460582	7116009	Possible fault breccia; tan and white rock composed of angular brecciated quartz and light orange limonite (possibly after iron carbonate?)
00MBW269	461531	7116198	Light gray impure quartzite cut by quartz + limonite veins

Table 1. Location and description of rock samples collected in the Eagle quadrangle for trace element geochemical analyses.

Sample	UTM E	UTM N	Description
00MBW280	462792	7117124	Garnet biotite amphibolite with patches of limonite up to 1 cm in diameter, cut by anastomosing quartz veins
00MBW281	462808	7117158	Iron-stained, quartz-veined, fractured, altered gneiss
00MBW306	434337	7136889	Fault breccia; iron-stained, felsic aplite/pegmatite dike in fault contact with metamorphic rocks
00MBW307A	434383	7136870	Hornfels veined by quartz, epidote, and red and specular hematite
00MBW308B	434448	7136865	Vuggy crystalline quartz cementing a breccia with clasts composed of angular metamorphic rocks
00MBW310B	434616	7136810	Volcanic rock that is cut and brecciated by milky, vuggy, crystalline quartz veins
00MBW311B	434592	7136668	Micaceous quartzite cut by quartz + limonite veins
00MBW321	467379	7102212	Gneiss cut by milky quartz + chlorite veins up to 1 cm wide; tiny fractures coated with fine grained drusey quartz and limonite
00MBW343	470533	7103832	Gneiss cut by 1- to 2.5-cm-wide, aphanitic/chalcedonic quartz veins
00MBW351	470091	7100729	Gneiss with foliation-parallel quartz veins and limonite-altered iron sulfides disseminated within the gneiss adjacent to quartz veins
00MBW354	470710	7102250	Gneiss cut by sparse quartz + limonite (after iron sulfide) veins up to 1.5 cm wide that cross foliation
00MBW355C	470883	7102251	Granular hornfels with abundant disseminated iron sulfide
00MBW356A	470964	7102336	Orthogneiss cut by numerous milky quartz + pyrite (~3%) + limonite +/- calcite veins that have irregular (non-planar) margins and late fractures filled with drusey quartz
00MBW356B	470964	7102336	Slightly porphyritic white mica + quartz + feldspar orthogneiss with 1% to 3% disseminated pyrite in small patches
00MBW384	471110	7106723	Gneiss with quartz + pyrite veins parallel to foliation
00MBW443	464632	7106880	Metavolcanic rock with abundant fractures filled with orange limonite and a carbonate mineral
00MBW460B	465999	7101294	Biotite amphibolite with quartz veins parallel to foliation
00MBW461A	465340	7100939	Gneiss with trace epidote and limonite alteration
00MBW469	469591	7101780	Orthogneiss cut by quartz + tan feldspar? + pyrite (altering to limonite) veins
00MBW513	486221	7119610	Gneiss with disseminated limonite (after iron sulfides?) and epidote alteration cut by quartz vein
00MBW523	487065	7119957	Iron-stained, probably foliation-parallel quartz vein
00MBW545	463125	7120467	Iron stained, white, granular, fine-grained, intensely-altered plutonic? rock with green mica
00MBW546C	464213	7119277	Aplite dike cut by a 5-cm-wide quartz + iron sulfide? vein with a green mica selvage
00MBW564	462152	7120406	Gneiss with pyrite, which occurs as disseminations, pods, and as stringers along foliation
00MBW568A	462724	7123796	Schist and gneiss with abundant disseminated pyrite crystals up to 1.5 cm across
00MBW568C	462724	7123796	Fault gouge
00MBW570	462968	7123477	Hornblende-plagioclase gneiss and amphibolite with 3% disseminated iron sulfide; cut across foliation by quartz + carbonate +/- hematite +/- epidote veins
00MBW571	463000	7123492	Intensely sheared/fractured amphibolite with quartz, epidote, hematite, carbonate, and occasionally iron sulfides in fractures. Fault zone is about 3 feet wide.

Table 1. Location and description of rock samples collected in the Eagle quadrangle for trace element geochemical analyses.

Sample	UTM E	UTM N	Description
00RN62	477451	7120611	Quartz +/- pyrite veinlets in gneiss
00RN96C	482502	7118013	Orange-stained pyritic felsic schist - felsic metavolcanic? rock
00RN102	484001	7113448	Brecciated, iron-stained quartzite
00RN109	467321	7121349	Pyroxene-rich calc-silicate hornfels with quartz veins
00RN147B	465555	7119920	Skarn
00RN147C	465555	7119920	Mineralized quartz diorite
00RN147D	465555	7119920	Mineralized granite pegmatite + aplite
00RN154	469151	7117301	Marble with sparse random stockwork of fine grained sulfide (galena?)
00RN165	467230	7119590	Biotite quartz monzodiorite?
00RN175A	452318	7121809	1-cm-thick pyroxene-actinolite skarn veins in marble
00RN192A	465488	7120009	Pyroxene?-epidote? skarn
00RN192B	465488	7120009	Epidote-calcite and epidote-actinolite skarn
00RN244A	454005	7117870	Skarn/skarnoid
00RN252A	453524	7119335	Iron-stained skarn; 5-cm-wide, coarse-grained clinopyroxenite at marble front, adjacent to a coarse grained amphibolite with up to 5% disseminated pyrite
00RN254	454002	7118386	Tourmaline muscovite granite
00RN255C	454161	7118627	Quartz + muscovite + tourmaline vein
00RN256C	454300	7118826	Pyroxene skarn/skarnoid
00RN322A	460082	7118318	1-cm-wide quartz-feldspar veins with 1- to 2-cm-thick pyroxene? skarn envelopes crosscutting marble
00RN325	460454	7118283	Iron-stained black dike(?) of plagioclase-bearing hornblendite with 1% randomly-oriented, disseminated sulfides
00RN330A	431477	7131395	Brecciated quartzite and schist
00RN331	431811	7131494	Pyroxene skarn, skarnoid, and mineralized pyroxene hornfels with a little marble
00RN332	431931	7131581	Skarn
00RN333	432133	7131636	Sulfide-poor, coarse-grained, clinopyroxene skarn
00RN334	433313	7134650	Altered quartz porphyry
00RN336	435419	7137735	Orange-stained quartz porphyry dike
00RN337B	437593	7140059	Chalcedony + calcite + quartz; fault breccia?
00RN338A	437415	7139871	Chalcedony veinlets
00RN480A	471097	7102407	Orange-stained orthogneiss with disseminated- and vein-style quartz-carbonate-pyrite-sericite alteration and disseminated secondary? biotite + albite?
00RN481A	471634	7102560	4-cm-thick layer of iron-oxide, pyrite and quartz in quartzite
00RN481B	471634	7102560	Disseminated layered pyrite in quartzite
00RN493A	472081	7100584	1-cm-thick quartz + carbonate + pyrite +/- coarse-grained biotite veins in amphibolite with disseminated sulfides

Table 1. Location and description of rock samples collected in the Eagle quadrangle for trace element geochemical analyses.

Sample	UTM E	UTM N	Description
00RN515A	471171	7103609	Fault zone with brecciation, quartz, chalcedony, and iron-oxide
00RN515B	471171	7103609	Fault zone with abundant brecciation and chalcedony
00RN515C	471171	7103609	Amphibolite with up to 10% interstitial pyrite
00RN523A	462027	7117204	Quartz ribbon vein +/- carbonate-pyrite - from fold nose
00RN523B	462027	7117204	Skarn from skarn vein approximately 0.5 m thick composed of garnet, pyroxene, quartz, and pyrrhotite
00RN533B	483522	7113800	Quartz + K-feldspar vein or pegmatite? dike
00RN560	484009	7115772	Brecciated quartzite and quartz vein material; possible fault zone
00WM133	455653	7119204	Green biotite gneiss with quartz veins and accessory sulfide (pyrite?)
00WM144C	456921	7118721	Hornfels
00WM151	455570	7123146	Orange-, yellow- and red-stained orthogneiss?
00WM206	461085	7100751	Gray brecciated limestone with calcite veins
00WM210	461297	7100377	Green chloritic phyllite
00WM269B	473820	7108705	Brecciated quartzite
00WM369B	483543	7119378	Green-turquoise colored quartzite

Table 2. Concentration of trace elements in rock samples collected in the Eagle quadrangle. Note: --- = not analyzed.

SAMPLE	Au	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La
	ppb	oz/ton	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm
00DS001	<5	---	<0.2	0.51	6	<10	70	<0.5	<2	0.25	<0.5	6	167	31	1.00	<10	<1	0.09	<10
00DS005	<5	---	0.6	1.00	40	<10	120	<0.5	<2	0.07	2.5	5	87	9	2.95	<10	<1	0.19	10
00DS010A	<5	---	0.2	0.15	<2	<10	100	<0.5	<2	>15.00	<0.5	<1	8	1	0.36	<10	<1	0.01	10
00DS010C	<5	---	<0.2	0.50	<2	<10	50	<0.5	<2	0.35	<0.5	<1	44	3	0.75	<10	<1	0.06	<10
00DS026B	<5	---	<0.2	0.48	<2	<10	60	0.5	<2	0.35	<0.5	<1	102	<1	0.43	<10	<1	0.11	<10
00DS032B	<5	---	<0.2	0.67	<2	<10	190	<0.5	<2	0.08	<0.5	1	102	44	1.79	<10	<1	0.24	10
00DS039	<5	---	<0.2	0.37	<2	<10	10	<0.5	<2	>15.00	<0.5	3	17	7	0.45	<10	1	0.05	<10
00DS045B	<5	---	<0.2	0.46	<2	<10	120	0.5	<2	8.73	<0.5	6	20	32	1.01	<10	<1	0.04	<10
00DS048A	<5	---	<0.2	1.98	<2	<10	150	0.5	<2	3.18	4.5	9	15	18	5.48	10	<1	0.34	10
00DS063A	<5	---	<0.2	0.56	<2	<10	120	0.5	<2	5.61	0.5	12	25	16	2.20	<10	<1	0.05	10
00DS063B	<5	---	<0.2	<0.01	<2	<10	590	<0.5	<2	>15.00	<0.5	<1	3	<1	0.03	<10	1	<0.01	<10
00DS064	<5	---	<0.2	0.55	<2	<10	40	0.5	<2	2.62	<0.5	<1	20	<1	0.77	<10	<1	0.02	10
00DS070A	<5	---	<0.2	1.05	<2	<10	60	<0.5	<2	0.47	<0.5	5	45	6	1.76	<10	<1	0.13	<10
00DS074	<5	---	<0.2	0.19	<2	<10	10	<0.5	<2	9.42	<0.5	1	61	6	0.37	<10	<1	0.04	<10
00DS075	<5	---	0.2	<0.01	<2	<10	<10	<0.5	<2	>15.00	<0.5	<1	1	<1	0.03	<10	<1	<0.01	<10
00DS079A	<5	---	<0.2	0.01	<2	<10	<10	<0.5	<2	12.85	<0.5	<1	9	<1	0.12	<10	<1	<0.01	<10
00DS079B	<5	---	<0.2	0.30	<2	<10	50	<0.5	<2	0.24	<0.5	1	142	6	0.82	<10	<1	0.09	<10
00DS081	<5	---	<0.2	1.75	2	<10	150	0.5	<2	0.92	2	15	70	24	3.68	<10	<1	0.16	10
00DS085	<5	---	<0.2	1.26	2	<10	60	<0.5	<2	0.63	0.5	9	148	18	2.15	<10	<1	0.16	10
00DS092A	<5	---	<0.2	0.14	14	<10	10	<0.5	<2	0.02	<0.5	2	173	3	0.74	<10	<1	0.02	<10
00DS103A	10	---	1	2.74	32	<10	100	<0.5	<2	1.87	<0.5	16	62	150	4.18	10	<1	0.09	<10
00DS110A	5	---	0.2	0.84	6	<10	100	<0.5	<2	5.74	<0.5	10	27	15	3.28	<10	<1	0.21	10
00DS135A	190	---	0.2	0.13	<2	<10	1470	<0.5	<2	9.60	<0.5	7	40	8	5.41	<10	<1	0.08	10
00DS135C	465	---	0.4	0.80	<2	<10	560	<0.5	<2	3.23	<0.5	6	14	19	2.05	<10	<1	0.16	10
00DS136A	>10000	0.693	6.6	0.23	<2	<10	180	<0.5	<2	0.24	<0.5	7	85	3	1.41	<10	<1	0.13	<10
00DS145B	<5	---	<0.2	0.46	<2	<10	10	<0.5	<2	0.88	<0.5	10	134	1	1.38	<10	<1	0.02	<10
00DS147B	<5	---	<0.2	1.90	<2	<10	40	<0.5	<2	0.40	<0.5	17	56	24	5.21	<10	<1	0.07	<10
00DS160C	<5	---	0.8	1.08	<2	<10	20	0.5	<2	>15.00	<0.5	2	4	<1	0.68	<10	<1	0.08	10
00DS165	<5	---	<0.2	0.50	<2	<10	50	<0.5	<2	2.02	<0.5	3	126	5	0.97	<10	<1	0.09	<10
00DS168B	<5	---	<0.2	4.10	<2	<10	80	1	<2	2.96	2	75	6	2	>15.00	<10	<1	0.19	<10
00DS186A	20	---	<0.2	0.97	<2	<10	90	0.5	<2	1.76	<0.5	<1	96	<1	0.56	<10	<1	0.03	<10
00DS187B	<5	---	<0.2	1.10	<2	<10	150	<0.5	<2	0.41	<0.5	5	139	50	1.51	<10	<1	0.31	<10
00DS200B	5	---	0.2	1.03	<2	<10	40	<0.5	<2	12.40	<0.5	<1	31	4	0.24	<10	<1	0.04	<10
00DS215	10	---	<0.2	0.82	<2	<10	90	<0.5	<2	0.42	<0.5	6	100	23	1.89	<10	<1	0.16	<10
00DS217	<5	---	<0.2	2.02	<2	<10	90	<0.5	<2	1.50	<0.5	11	43	33	3.03	<10	<1	0.13	<10

Table 2. Concentration of trace elements in rock samples collected in the Eagle quadrangle. Note: --- = not analyzed.

SAMPLE	Au	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La
	ppb	oz/ton	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm
00JG042C-6/30	5	---	<0.2	0.31	2	<10	80	<0.5	<2	0.05	<0.5	<1	77	2	0.68	<10	<1	0.14	<10
00JG050A-6/14	<5	---	<0.2	0.27	<2	<10	280	<0.5	<2	0.54	<0.5	<1	52	2	0.32	<10	<1	0.07	<10
00JG050B-6/14	<5	---	<0.2	1.26	<2	<10	330	<0.5	<2	0.80	<0.5	3	59	4	2.15	<10	<1	0.46	<10
00JG063-6/16	<5	---	<0.2	1.02	<2	<10	30	<0.5	<2	1.67	<0.5	1	31	1	0.99	<10	<1	0.06	<10
00JG063X-7/1	<5	---	<0.2	2.31	<2	<10	50	<0.5	<2	2.36	<0.5	27	7	7	7.33	10	<1	0.05	<10
00JG067-7/2	5	---	<0.2	1.49	<2	<10	420	<0.5	<2	2.06	0.5	6	24	7	3.16	<10	<1	0.59	<10
00JG072-6/19	<5	---	<0.2	1.31	<2	<10	160	<0.5	<2	0.70	<0.5	5	78	12	2.52	<10	<1	0.24	10
00JG073A-7/2	<5	---	<0.2	0.93	2	<10	40	<0.5	<2	0.43	<0.5	6	78	12	2.02	<10	<1	0.07	<10
00JG077-6/19	<5	---	0.2	1.70	10	<10	20	<0.5	<2	1.33	<0.5	20	71	55	4.37	<10	<1	0.13	<10
00JG082-6/19	<5	---	<0.2	2.79	<2	<10	150	<0.5	<2	1.34	<0.5	11	115	26	3.54	<10	<1	0.47	10
00JG084-6/19	<5	---	0.6	0.43	<2	<10	30	<0.5	<2	>15.00	<0.5	2	30	4	0.74	<10	<1	0.24	10
00JG089B-7/4	<5	---	<0.2	0.24	<2	<10	40	<0.5	<2	0.08	<0.5	<1	44	2	1.01	<10	<1	0.2	20
00JG93B-7/9	<5	---	<0.2	0.24	<2	<10	170	<0.5	<2	0.08	<0.5	1	47	3	0.30	<10	<1	0.09	<10
00JG98-7/9	<5	---	1.4	2.13	<2	<10	110	<0.5	<2	2.15	<0.5	32	62	103	3.95	<10	<1	0.09	<10
00JG136-6/23	<5	---	<0.2	1.41	<2	<10	60	<0.5	<2	1.01	<0.5	7	58	5	2.45	<10	<1	0.17	<10
00JG137-6/23	<5	---	<0.2	1.09	<2	<10	50	<0.5	<2	0.72	<0.5	6	37	7	2.09	<10	<1	0.33	<10
00JG138-6/23	<5	---	<0.2	0.90	<2	<10	50	<0.5	<2	0.74	<0.5	5	24	3	1.46	<10	<1	0.15	<10
00JG139-6/23	<5	---	<0.2	0.99	<2	<10	90	<0.5	<2	0.67	<0.5	5	29	<1	1.40	<10	<1	0.16	<10
00JG140-6/23	<5	---	<0.2	1.64	<2	<10	380	<0.5	<2	0.78	<0.5	13	63	7	2.60	<10	<1	0.96	<10
00JG156-6/25	<5	---	<0.2	0.25	2	<10	220	<0.5	<2	0.33	<0.5	5	137	36	0.76	<10	<1	0.05	<10
00JGSKOID#1-6/15	10	---	0.8	0.16	<2	<10	<10	<0.5	<2	>15.00	<0.5	<1	10	7	0.17	<10	<1	<0.01	10
00JGSKOID#2-6/15	<5	---	<0.2	0.36	<2	<10	100	<0.5	<2	3.30	<0.5	1	53	14	0.41	<10	<1	0.11	<10
00MBW11A	15	---	<0.2	0.57	<2	<10	50	<0.5	<2	0.12	<0.5	<1	65	6	2.14	<10	<1	0.28	<10
00MBW38A	<5	---	<0.2	0.08	<2	<10	<10	<0.5	<2	0.01	<0.5	1	177	3	0.35	<10	<1	<0.01	<10
00MBW73	<5	---	<0.2	1.19	<2	<10	250	<0.5	<2	0.68	<0.5	4	93	35	2.02	<10	<1	0.76	<10
00MBW94B	<5	---	0.4	1.28	<2	<10	190	<0.5	<2	0.32	<0.5	11	85	166	2.87	<10	<1	0.75	<10
00MBW101A	110	---	<0.2	0.88	<2	<10	40	<0.5	<2	1.07	<0.5	3	42	1	1.03	<10	<1	0.14	<10
00MBW101C	85	---	<0.2	0.23	2	<10	150	<0.5	<2	0.04	<0.5	3	111	3	1.02	<10	<1	0.09	<10
00MBW104	810	---	<0.2	0.54	8	<10	270	1	<2	4.96	<0.5	8	30	4	3.65	<10	<1	0.28	10
00MBW111	665	---	<0.2	0.56	2	<10	240	<0.5	<2	0.30	<0.5	4	95	2	1.70	<10	<1	0.11	10
00MBW112	10	---	<0.2	0.49	<2	<10	640	0.5	<2	0.71	<0.5	14	61	21	2.10	<10	1	0.1	10
00MBW130	<5	---	<0.2	0.15	46	<10	1750	<0.5	<2	0.02	<0.5	3	148	12	0.82	<10	<1	0.05	<10
00MBW142B	<5	---	<0.2	0.34	24	<10	40	<0.5	<2	0.03	<0.5	7	150	93	4.14	<10	<1	0.11	<10
00MBW142C	<5	---	<0.2	0.29	6	<10	110	<0.5	<2	0.04	<0.5	2	67	12	0.39	<10	<1	0.21	<10
00MBW180	<5	---	<0.2	1.73	<2	<10	10	<0.5	<2	2.73	<0.5	6	38	2	0.67	<10	<1	0.01	<10

Table 2. Concentration of trace elements in rock samples collected in the Eagle quadrangle. Note: --- = not analyzed.

SAMPLE	Au	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La
	ppb	oz/ton	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm
00MBW187B	<5	---	<0.2	0.27	2	<10	210	<0.5	<2	0.04	<0.5	<1	61	17	0.43	<10	<1	0.18	<10
00MBW190	<5	---	<0.2	0.35	<2	<10	90	<0.5	4	0.82	0.5	1	40	13	0.75	<10	<1	0.01	<10
00MBW191	<5	---	1	2.49	<2	<10	400	0.5	2	1.62	3.5	3	164	26	1.06	<10	<1	0.07	10
00MBW192	<5	---	6.6	2.74	<2	<10	80	<0.5	14	1.81	10	<1	65	15	0.71	<10	<1	0.03	<10
00MBW193	<5	---	<0.2	0.26	<2	<10	430	<0.5	<2	0.04	<0.5	1	93	5	0.26	<10	<1	0.14	<10
00MBW200	<5	---	<0.2	1.50	<2	<10	100	<0.5	<2	2.36	<0.5	8	48	5	2.17	<10	<1	0.12	<10
00MBW215B	<5	---	<0.2	0.92	<2	<10	60	0.5	<2	0.42	3	4	130	22	1.50	<10	<1	0.15	10
00MBW217	<5	---	<0.2	0.91	<2	<10	80	2.5	<2	1.56	3.5	1	116	6	1.20	<10	<1	0.05	<10
00MBW224	<5	---	<0.2	0.27	<2	<10	2240	<0.5	<2	0.06	<0.5	<1	84	6	0.98	<10	<1	0.11	10
00MBW230	<5	---	<0.2	0.41	<2	<10	60	<0.5	<2	0.18	<0.5	2	222	9	1.07	<10	<1	0.16	<10
00MBW250	<5	---	<0.2	0.68	<2	<10	140	<0.5	<2	0.07	<0.5	3	92	8	1.07	<10	<1	0.35	20
00MBW251	<5	---	<0.2	0.08	<2	<10	20	<0.5	<2	0.02	<0.5	<1	202	1	0.33	<10	<1	0.06	<10
00MBW264	<5	---	<0.2	0.26	2	<10	310	<0.5	<2	0.03	<0.5	7	144	11	0.84	<10	<1	0.01	<10
00MBW269	<5	---	<0.2	0.54	10	<10	30	<0.5	2	0.04	<0.5	7	130	24	1.51	<10	<1	0.04	<10
00MBW280	<5	---	<0.2	2.90	<2	<10	370	<0.5	<2	0.36	<0.5	32	60	19	5.79	10	<1	0.39	<10
00MBW281	<5	---	<0.2	1.64	2	<10	50	<0.5	<2	0.36	<0.5	11	110	124	3.53	<10	<1	0.09	10
00MBW306	<5	---	2.4	1.71	70	<10	330	0.5	<2	0.09	0.5	16	63	35	5.14	<10	<1	0.14	<10
00MBW307A	<5	---	<0.2	1.85	<2	<10	50	<0.5	<2	1.47	0.5	13	62	4	3.59	<10	<1	0.07	<10
00MBW308B	5	---	7.6	1.48	54	<10	130	<0.5	<2	0.11	<0.5	14	128	198	3.12	<10	<1	0.11	<10
00MBW310B	85	---	6.6	0.37	48	<10	40	<0.5	<2	0.03	<0.5	1	126	52	0.76	<10	<1	0.16	<10
00MBW311B	<5	---	0.2	0.10	10	<10	10	<0.5	<2	<0.01	<0.5	<1	206	5	0.98	<10	<1	0.03	<10
00MBW321	<5	---	<0.2	0.91	2	<10	30	<0.5	<2	0.05	0.5	6	66	1	2.85	<10	<1	0.05	10
00MBW343	<5	---	<0.2	0.26	<2	<10	180	<0.5	<2	0.02	<0.5	<1	116	1	0.47	<10	<1	0.15	<10
00MBW351	<5	---	<0.2	1.20	<2	<10	200	<0.5	<2	0.67	1	8	99	18	2.15	<10	<1	0.25	<10
00MBW354	<5	---	0.2	0.31	2	<10	130	<0.5	<2	0.07	<0.5	<1	120	2	0.38	<10	<1	0.12	<10
00MBW355C	<5	---	0.2	0.11	6	<10	20	<0.5	<2	0.07	<0.5	2	207	27	0.93	<10	<1	0.05	<10
00MBW356A	<5	---	<0.2	0.18	10	<10	250	<0.5	<2	0.27	<0.5	3	133	4	0.49	<10	<1	0.1	<10
00MBW356B	<5	---	<0.2	0.35	<2	<10	90	<0.5	<2	0.36	<0.5	1	76	1	0.48	<10	<1	0.11	<10
00MBW384	<5	---	<0.2	0.38	<2	<10	80	<0.5	<2	0.63	<0.5	2	78	13	0.87	<10	<1	0.08	<10
00MBW443	<5	---	<0.2	1.53	<2	<10	130	0.5	<2	2.34	<0.5	11	41	10	2.60	<10	<1	0.34	10
00MBW460B	<5	---	0.2	1.98	<2	<10	370	<0.5	<2	0.68	<0.5	18	47	67	5.51	<10	<1	0.78	<10
00MBW461A	<5	---	<0.2	1.87	<2	<10	110	<0.5	<2	0.28	<0.5	13	11	5	4.58	<10	<1	0.21	<10
00MBW469	<5	---	<0.2	0.50	<2	<10	180	<0.5	<2	0.08	<0.5	1	97	3	1.34	<10	<1	0.32	<10
00MBW513	<5	---	<0.2	0.31	<2	<10	310	<0.5	<2	0.04	<0.5	<1	91	1	0.23	<10	<1	0.09	<10
00MBW523	<5	---	<0.2	0.13	<2	<10	10	<0.5	<2	0.01	<0.5	<1	218	4	0.55	<10	<1	0.05	<10

Table 2. Concentration of trace elements in rock samples collected in the Eagle quadrangle. Note: --- = not analyzed.

SAMPLE	Au	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La
	ppb	oz/ton	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm
00MBW545	<5	---	<0.2	0.55	2	<10	50	<0.5	2	0.70	<0.5	<1	55	9	1.71	<10	<1	0.07	<10
00MBW546C	5	---	<0.2	0.16	<2	<10	280	<0.5	<2	0.17	<0.5	1	121	13	0.52	<10	<1	0.11	<10
00MBW564	25	---	<0.2	1.36	18	<10	70	<0.5	<2	0.45	<0.5	10	68	27	3.41	<10	<1	0.51	10
00MBW568A	<5	---	0.6	1.96	58	<10	<10	<0.5	<2	3.16	0.5	16	20	57	5.60	10	<1	<0.01	10
00MBW568C	<5	---	<0.2	1.51	20	<10	60	<0.5	<2	1.51	<0.5	11	43	28	4.01	<10	<1	0.37	<10
00MBW570	<5	---	<0.2	1.53	<2	<10	40	<0.5	<2	2.18	<0.5	24	58	51	2.24	<10	<1	0.09	<10
00MBW571	<5	---	0.6	0.73	<2	<10	10	<0.5	<2	>15.00	<0.5	6	35	17	1.00	<10	<1	0.03	<10
00RN62	<5	---	<0.2	1.52	<2	10	70	0.5	<2	0.63	<0.5	5	84	13	2.43	<10	<1	0.25	20
00RN96C	<5	---	<0.2	1.08	<2	<10	200	<0.5	<2	0.22	<0.5	<1	59	7	4.32	<10	<1	0.41	<10
00RN102	5	---	<0.2	0.14	266	<10	100	<0.5	<2	0.04	<0.5	3	114	7	1.36	<10	7	0.03	<10
00RN109	<5	---	<0.2	1.35	<2	<10	30	<0.5	<2	2.75	<0.5	<1	76	56	0.31	<10	<1	0.03	<10
00RN147B	<5	---	<0.2	0.38	<2	10	<10	<0.5	<2	10.05	<0.5	<1	8	<1	0.30	<10	<1	0.03	<10
00RN147C	<5	---	<0.2	1.69	<2	<10	80	0.5	<2	1.84	<0.5	9	66	26	2.92	<10	<1	0.28	10
00RN147D	<5	---	<0.2	0.50	<2	10	50	<0.5	<2	0.57	<0.5	1	50	3	0.72	<10	<1	0.13	<10
00RN154	<5	---	0.2	0.03	<2	<10	<10	<0.5	<2	>15.00	<0.5	<1	7	<1	0.07	<10	1	<0.01	<10
00RN165	<5	---	<0.2	1.21	<2	10	150	<0.5	<2	0.82	<0.5	4	64	10	2.02	<10	<1	0.48	20
00RN175A	<5	---	<0.2	0.56	<2	10	150	<0.5	<2	5.82	<0.5	3	70	29	1.13	<10	<1	0.07	10
00RN192A	<5	---	<0.2	0.82	<2	<10	30	0.5	<2	8.56	<0.5	<1	28	<1	0.47	<10	1	0.06	<10
00RN192B	<5	---	<0.2	0.32	<2	<10	<10	<0.5	<2	9.26	<0.5	<1	7	<1	0.26	<10	<1	0.03	<10
00RN244A	<5	---	<0.2	0.85	<2	10	50	0.5	<2	2.07	<0.5	4	49	13	1.08	<10	<1	0.08	10
00RN252A	<5	---	<0.2	1.59	18	<10	80	0.5	<2	4.69	<0.5	28	42	64	3.56	<10	<1	0.15	<10
00RN254	<5	---	<0.2	0.42	<2	<10	100	<0.5	<2	0.08	<0.5	<1	100	<1	0.19	<10	<1	0.18	<10
00RN255C	<5	---	<0.2	0.19	<2	10	40	<0.5	<2	0.05	<0.5	12	188	27	1.13	<10	<1	0.07	<10
00RN256C	<5	---	<0.2	0.27	<2	10	20	<0.5	<2	1.47	<0.5	2	41	8	0.55	<10	<1	0.03	<10
00RN322A	<5	---	<0.2	0.57	<2	<10	10	<0.5	<2	6.53	<0.5	2	40	15	0.55	<10	1	0.04	<10
00RN325	<5	---	<0.2	1.46	<2	<10	50	1	<2	2.81	2	24	11	26	6.84	<10	<1	0.21	10
00RN330A	<5	---	<0.2	0.20	<2	10	30	<0.5	<2	0.33	<0.5	<1	172	4	0.93	<10	<1	0.06	<10
00RN331	10	---	0.2	0.70	10	<10	130	<0.5	<2	5.86	1.5	68	520	345	3.54	<10	<1	0.03	<10
00RN332	10	---	0.2	0.44	18	<10	60	<0.5	<2	4.88	<0.5	82	400	399	3.22	<10	<1	0.03	<10
00RN333	<5	---	<0.2	0.47	<2	<10	60	<0.5	<2	1.51	<0.5	13	223	21	1.08	<10	<1	0.03	<10
00RN334	<5	---	<0.2	0.35	2	<10	30	2	<2	0.02	<0.5	<1	33	3	0.53	<10	<1	0.23	<10
00RN336	<5	---	<0.2	0.40	28	<10	100	0.5	<2	<0.01	<0.5	<1	79	3	1.24	<10	<1	0.22	20
00RN337B	<5	---	<0.2	0.03	<2	<10	<10	<0.5	<2	4.82	<0.5	<1	141	<1	0.37	<10	<1	<0.01	<10
00RN338A	<5	---	<0.2	0.47	<2	<10	70	<0.5	<2	0.06	<0.5	<1	71	2	0.73	<10	<1	0.12	40
00RN480A	<5	---	<0.2	0.28	<2	<10	50	<0.5	<2	0.85	<0.5	3	85	12	0.64	<10	<1	0.07	<10

Table 2. Concentration of trace elements in rock samples collected in the Eagle quadrangle. Note: --- = not analyzed.

SAMPLE	Au	Au	Ag	Al	As	B	Ba	Be	Bi	Ca	Cd	Co	Cr	Cu	Fe	Ga	Hg	K	La
	ppb	oz/ton	ppm	%	ppm	ppm	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	%	ppm	ppm	%	ppm
00RN481A	<5	---	0.2	0.45	48	<10	30	1	<2	3.52	1	35	142	91	4.84	<10	<1	0.07	<10
00RN481B	<5	---	0.2	0.38	12	<10	70	<0.5	<2	0.87	<0.5	6	147	88	1.72	<10	<1	0.08	<10
00RN493A	<5	---	0.2	1.83	<2	<10	70	<0.5	<2	2.45	<0.5	31	66	44	4.82	<10	<1	0.54	<10
00RN515A	10	---	0.2	0.41	12	<10	150	<0.5	<2	0.08	<0.5	3	117	15	1.84	<10	<1	0.29	<10
00RN515B	<5	---	<0.2	0.11	2	<10	290	<0.5	<2	0.03	<0.5	<1	108	1	1.00	<10	<1	0.17	<10
00RN515C	5	---	0.8	1.83	<2	<10	10	<0.5	<2	1.30	<0.5	29	45	164	9.44	<10	<1	0.66	<10
00RN523A	15	---	<0.2	0.76	18	<10	50	<0.5	<2	1.39	<0.5	14	138	54	2.35	<10	<1	0.09	10
00RN523B	<5	---	0.4	0.33	6	<10	10	<0.5	<2	5.45	<0.5	10	52	53	2.13	<10	<1	<0.01	<10
00RN533B	<5	---	<0.2	0.27	<2	<10	150	<0.5	<2	0.03	<0.5	2	160	6	0.63	<10	<1	0.22	<10
00RN560	<5	---	<0.2	0.14	14	<10	50	<0.5	<2	0.21	<0.5	2	94	13	0.58	<10	<1	0.04	<10
00WM133	<5	---	<0.2	1.71	<2	<10	610	<0.5	<2	1.54	<0.5	15	46	17	2.68	<10	<1	0.72	<10
00WM144C	5	---	0.2	2.29	<2	<10	110	<0.5	<2	0.31	<0.5	13	46	43	4.92	10	<1	0.16	<10
00WM151	5	---	<0.2	0.48	<2	<10	130	0.5	<2	0.04	<0.5	3	26	38	6.00	<10	<1	0.34	<10
00WM206	<5	---	1	0.05	<2	<10	<10	<0.5	<2	>15.00	<0.5	<1	2	7	0.13	<10	<1	0.01	<10
00WM210	<5	---	<0.2	2.79	<2	<10	270	<0.5	<2	2.75	<0.5	37	236	62	6.08	10	<1	1.28	<10
00WM269B	<5	---	0.6	0.08	6	<10	560	<0.5	<2	0.04	<0.5	<1	131	4	0.54	<10	<1	0.07	<10
00WM369B	<5	---	3	0.32	4	<10	210	<0.5	<2	0.50	1	<1	154	9	0.79	<10	<1	0.14	10

Table 2. Concentration of trace elements in rock samples collected in the Eagle quadrangle. Note: --- = not analyzed.

SAMPLE	Mg	Mn	Mo	Na	Ni	P	Pb	Pt	Pd	S	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
	%	ppm	ppm	%	ppm	ppm	ppm	ppb	ppb	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
00DS001	0.22	125	3	0.05	16	330	2	---	---	<0.01	<2	1	17	0.04	<10	<10	18	<10	56
00DS005	0.49	235	4	0.03	4	210	444	---	---	0.03	<2	3	14	0.01	<10	<10	13	<10	136
00DS010A	0.30	390	<1	<0.01	1	500	10	---	---	<0.01	<2	<1	259	<0.01	<10	<10	4	<10	18
00DS010C	0.31	115	<1	0.06	<1	170	2	---	---	<0.01	<2	<1	41	0.05	<10	<10	13	<10	32
00DS026B	0.07	65	<1	0.07	1	60	2	---	---	<0.01	<2	<1	30	0.01	<10	<10	7	<10	8
00DS032B	0.22	50	1	0.06	3	260	10	---	---	0.14	<2	1	20	<0.01	<10	<10	14	<10	80
00DS039	0.21	190	<1	0.04	3	330	<2	---	---	<0.01	<2	1	90	0.03	<10	<10	10	<10	8
00DS045B	0.43	230	<1	0.01	4	2890	2	---	---	0.20	<2	3	107	0.07	<10	<10	27	<10	40
00DS048A	1.16	700	<1	0.15	<1	7020	4	---	---	0.02	<2	14	126	0.21	<10	<10	204	<10	86
00DS063A	0.64	330	<1	0.03	5	6310	<2	---	---	0.03	<2	12	94	0.17	<10	<10	107	<10	48
00DS063B	1.30	215	<1	<0.01	2	130	<2	---	---	<0.01	<2	<1	291	<0.01	<10	<10	<1	<10	<2
00DS064	0.36	145	<1	0.01	<1	3630	<2	---	---	<0.01	<2	3	44	0.23	<10	<10	29	<10	26
00DS070A	0.56	390	<1	0.06	4	570	6	---	---	<0.01	<2	2	52	0.06	<10	<10	30	<10	58
00DS074	0.28	225	1	<0.01	4	290	2	---	---	<0.01	2	1	82	0.04	<10	<10	9	<10	4
00DS075	0.33	15	<1	<0.01	2	20	<2	---	---	<0.01	<2	<1	387	<0.01	<10	<10	3	<10	<2
00DS079A	7.94	60	<1	<0.01	1	200	6	---	---	<0.01	<2	<1	140	<0.01	<10	<10	4	<10	18
00DS079B	0.19	60	2	<0.01	7	240	<2	---	---	<0.01	<2	<1	4	<0.01	<10	<10	7	<10	20
00DS081	1.16	435	<1	0.07	23	1450	6	---	---	<0.01	<2	8	30	0.05	<10	<10	70	<10	88
00DS085	0.57	160	4	0.04	22	360	4	---	---	0.01	<2	2	24	<0.01	<10	<10	22	<10	80
00DS092A	0.03	85	1	<0.01	7	130	<2	---	---	<0.01	<2	<1	3	<0.01	<10	<10	6	<10	8
00DS103A	2.10	1060	<1	0.04	42	420	4	---	---	<0.01	<2	9	53	0.01	<10	<10	135	<10	96
00DS110A	0.72	770	<1	0.04	4	890	<2	---	---	0.12	<2	3	217	<0.01	<10	<10	20	<10	48
00DS135A	0.79	1695	<1	0.01	4	190	38	---	---	0.07	<2	1	118	<0.01	<10	<10	20	<10	74
00DS135C	0.67	735	1	0.07	4	1250	2	---	---	0.22	<2	4	142	0.01	<10	<10	39	<10	26
00DS136A	0.06	115	<1	0.07	3	300	<2	---	---	0.49	<2	<1	21	<0.01	<10	<10	6	<10	2
00DS145B	0.83	330	<1	0.02	31	290	<2	25	6	<0.01	<2	3	20	0.05	<10	<10	19	<10	14
00DS147B	1.77	920	<1	0.09	8	670	<2	---	---	<0.01	<2	15	10	0.12	<10	<10	133	<10	90
00DS160C	0.47	695	<1	0.05	2	150	<2	---	---	0.03	<2	<1	443	<0.01	<10	<10	10	<10	4
00DS165	0.26	545	3	0.04	3	180	<2	---	---	<0.01	<2	1	60	<0.01	<10	<10	13	<10	22
00DS168B	0.13	3930	2	0.05	58	80	<2	---	---	<0.01	<2	22	393	<0.01	<10	<10	135	<10	274
00DS186A	0.02	240	3	0.04	2	380	<2	---	---	<0.01	<2	1	99	0.03	<10	<10	12	<10	10
00DS187B	0.15	130	12	0.13	4	260	6	---	---	0.33	<2	3	57	0.09	<10	<10	21	<10	18
00DS200B	0.12	235	<1	0.16	1	670	<2	---	---	0.05	<2	<1	397	0.03	<10	<10	5	<10	4
00DS215	0.40	280	3	0.08	11	570	2	---	---	0.14	<2	3	77	0.09	<10	<10	30	<10	84
00DS217	1.01	290	<1	0.20	3	690	<2	<5	<2	0.04	<2	10	78	0.12	<10	<10	81	<10	46

Table 2. Concentration of trace elements in rock samples collected in the Eagle quadrangle. Note: --- = not analyzed.

SAMPLE	Mg	Mn	Mo	Na	Ni	P	Pb	Pt	Pd	S	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
	%	ppm	ppm	%	ppm	ppm	ppm	ppb	ppb	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
00JG042C-6/30	0.13	140	<1	0.07	2	90	2	---	---	0.01	<2	<1	23	0.01	<10	<10	14	<10	14
00JG050A-6/14	0.15	20	<1	0.11	1	80	2	---	---	0.09	<2	<1	54	<0.01	<10	<10	1	<10	6
00JG050B-6/14	0.79	515	<1	0.06	2	910	6	<5	<2	0.07	<2	2	65	0.15	<10	<10	53	<10	68
00JG063-6/16	0.22	275	<1	0.06	1	610	4	---	---	<0.01	<2	1	95	0.09	<10	<10	14	<10	12
00JG063X-7/1	1.81	1365	1	0.05	<1	1220	<2	---	---	0.11	<2	9	96	0.14	<10	<10	162	<10	94
00JG067-7/2	1.27	890	1	0.04	3	1540	8	---	---	0.08	<2	4	77	0.10	<10	<10	45	<10	118
00JG072-6/19	1.09	355	1	0.06	2	260	6	---	---	0.14	<2	6	17	0.10	<10	<10	24	<10	54
00JG073A-7/2	0.56	490	2	0.03	13	570	6	---	---	0.04	<2	1	12	0.05	<10	<10	36	<10	38
00JG077-6/19	0.93	370	<1	0.08	12	370	<2	---	---	0.38	<2	13	42	0.17	<10	<10	144	<10	22
00JG082-6/19	0.81	180	2	0.10	29	440	16	---	---	0.44	<2	7	73	0.21	<10	<10	68	<10	108
00JG084-6/19	0.49	420	<1	0.01	3	80	<2	---	---	0.03	<2	1	233	0.04	<10	<10	14	<10	24
00JG089B-7/4	0.06	55	<1	0.02	1	80	2	---	---	<0.01	<2	1	10	0.03	<10	<10	6	<10	10
00JG93B-7/9	0.05	60	1	0.06	1	30	4	---	---	<0.01	<2	<1	19	<0.01	<10	<10	4	<10	2
00JG98-7/9	1.71	445	1	0.07	22	1460	<2	---	---	0.59	<2	11	87	0.06	<10	<10	125	<10	68
00JG136-6/23	0.91	600	<1	0.09	3	1070	4	---	---	0.06	<2	3	130	0.12	<10	<10	41	<10	80
00JG137-6/23	0.75	480	<1	0.06	3	890	<2	---	---	0.06	<2	2	78	0.08	<10	<10	38	<10	72
00JG138-6/23	0.56	315	<1	0.04	2	840	<2	---	---	0.05	<2	1	101	0.07	<10	<10	21	<10	54
00JG139-6/23	0.57	255	<1	0.04	1	790	<2	---	---	0.06	<2	<1	90	0.09	<10	<10	14	<10	60
00JG140-6/23	1.62	315	<1	0.11	20	100	2	---	---	0.09	<2	7	11	0.11	<10	<10	89	<10	86
00JG156-6/25	0.17	50	3	0.07	5	100	2	---	---	0.08	<2	<1	27	0.01	<10	<10	7	<10	26
00JGSKOID#1-6/15	0.03	315	1	<0.01	5	110	<2	---	---	0.01	<2	<1	236	0.01	<10	<10	1	<10	<2
00JGSKOID#2-6/15	0.06	140	4	0.04	5	500	<2	---	---	0.01	<2	<1	78	0.13	<10	<10	10	<10	2
00MBW11A	0.13	40	<1	0.11	<1	280	4	---	---	0.46	<2	8	66	0.05	<10	<10	16	<10	8
00MBW38A	0.01	55	<1	<0.01	3	10	<2	---	---	<0.01	<2	<1	3	<0.01	<10	<10	3	<10	2
00MBW73	0.47	685	<1	0.09	4	400	<2	---	---	<0.01	<2	5	17	0.13	<10	<10	22	<10	40
00MBW94B	0.74	415	<1	0.10	11	330	8	---	---	0.35	<2	5	10	0.17	<10	<10	47	<10	226
00MBW101A	0.14	200	1	0.08	1	1020	2	---	---	<0.01	<2	1	538	0.08	<10	<10	27	<10	16
00MBW101C	0.01	505	<1	<0.01	2	110	<2	---	---	<0.01	<2	<1	4	<0.01	<10	<10	9	<10	14
00MBW104	0.08	875	1	<0.01	3	760	22	---	---	<0.01	<2	2	37	<0.01	<10	<10	21	<10	46
00MBW111	0.42	280	1	0.07	6	1180	2	---	---	0.05	<2	3	23	<0.01	<10	<10	34	<10	18
00MBW112	0.03	1860	<1	<0.01	16	560	2	---	---	<0.01	<2	1	13	<0.01	<10	<10	34	<10	54
00MBW130	0.04	50	<1	<0.01	14	100	<2	---	---	0.04	<2	1	15	<0.01	<10	<10	11	<10	14
00MBW142B	0.06	115	1	0.04	5	270	22	---	---	0.05	<2	2	14	<0.01	<10	<10	25	<10	20
00MBW142C	0.06	30	<1	0.01	4	100	12	---	---	<0.01	<2	<1	11	<0.01	<10	<10	2	<10	18
00MBW180	0.56	180	1	0.03	17	130	<2	---	---	<0.01	<2	<1	8	0.03	<10	<10	3	<10	6

Table 2. Concentration of trace elements in rock samples collected in the Eagle quadrangle. Note: --- = not analyzed.

SAMPLE	Mg	Mn	Mo	Na	Ni	P	Pb	Pt	Pd	S	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
	%	ppm	ppm	%	ppm	ppm	ppm	ppb	ppb	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
00MBW187B	0.01	60	<1	0.06	1	30	10	---	---	<0.01	<2	<1	20	<0.01	<10	<10	<1	<10	14
00MBW190	0.31	400	7	0.04	5	370	6	---	---	0.07	<2	<1	69	0.01	<10	<10	7	120	70
00MBW191	0.28	215	45	0.23	13	690	36	---	---	0.18	<2	3	139	0.09	<10	<10	35	<10	212
00MBW192	0.15	175	26	0.33	1	250	276	---	---	0.09	<2	<1	203	0.02	<10	<10	9	<10	550
00MBW193	0.01	105	5	0.06	1	30	6	---	---	<0.01	<2	<1	23	<0.01	<10	<10	1	<10	12
00MBW200	1.45	315	1	0.04	5	900	4	---	---	<0.01	<2	5	96	0.05	<10	<10	42	<10	40
00MBW215B	0.22	140	4	0.04	4	210	6	---	---	0.01	<2	2	20	0.04	<10	<10	15	<10	504
00MBW217	0.12	1140	1	0.06	6	230	6	---	---	<0.01	<2	1	26	0.01	<10	<10	18	10	850
00MBW224	0.08	60	<1	0.08	1	140	2	---	---	0.04	<2	3	42	0.02	<10	<10	5	<10	20
00MBW230	0.13	100	4	0.02	5	130	2	---	---	0.03	<2	<1	16	<0.01	<10	<10	6	<10	24
00MBW250	0.33	120	1	0.05	2	60	4	---	---	<0.01	<2	1	7	0.03	<10	<10	3	<10	26
00MBW251	0.01	15	<1	0.01	5	20	2	---	---	<0.01	<2	<1	2	<0.01	<10	<10	1	<10	<2
00MBW264	0.17	990	<1	<0.01	11	120	<2	---	---	<0.01	<2	3	3	<0.01	<10	<10	16	<10	14
00MBW269	0.32	145	1	<0.01	12	60	2	---	---	<0.01	<2	1	1	0.01	<10	<10	32	<10	18
00MBW280	2.34	365	3	0.01	4	680	<2	---	---	0.24	<2	14	6	0.15	<10	<10	167	<10	38
00MBW281	1.42	390	4	0.05	8	450	26	---	---	0.08	<2	7	13	0.06	<10	<10	37	<10	134
00MBW306	0.46	285	20	0.07	11	500	10	---	---	0.24	<2	4	58	<0.01	<10	<10	45	<10	62
00MBW307A	1.02	505	3	0.07	3	1780	<2	---	---	<0.01	<2	8	61	0.10	<10	<10	52	<10	48
00MBW308B	0.88	430	6	0.01	6	280	48	---	---	0.01	<2	5	5	0.01	<10	<10	84	<10	42
00MBW310B	0.05	55	1	<0.01	4	80	26	---	---	<0.01	<2	<1	3	<0.01	<10	<10	6	<10	22
00MBW311B	0.01	35	1	<0.01	4	30	<2	---	---	<0.01	<2	<1	1	<0.01	<10	<10	5	<10	4
00MBW321	0.72	350	<1	0.05	4	210	<2	---	---	<0.01	<2	2	4	<0.01	<10	<10	18	<10	54
00MBW343	0.01	15	3	0.11	1	80	<2	---	---	0.10	<2	<1	38	<0.01	<10	<10	3	<10	<2
00MBW351	0.77	265	<1	0.11	6	810	<2	---	---	<0.01	<2	5	24	0.07	<10	<10	35	<10	32
00MBW354	0.06	40	2	0.09	4	260	<2	---	---	<0.01	<2	<1	38	<0.01	<10	<10	6	<10	18
00MBW355C	0.05	25	4	<0.01	7	380	<2	---	---	0.22	<2	<1	16	<0.01	<10	<10	6	<10	6
00MBW356A	0.03	200	1	0.06	5	60	2	---	---	0.10	2	<1	25	<0.01	<10	<10	1	<10	16
00MBW356B	0.13	105	1	0.10	4	110	6	---	---	0.08	<2	<1	51	<0.01	<10	<10	4	<10	30
00MBW384	0.19	200	2	0.09	3	90	<2	---	---	0.34	<2	<1	39	<0.01	<10	<10	7	<10	22
00MBW443	0.91	1005	3	0.02	18	500	8	---	---	<0.01	<2	4	66	<0.01	<10	<10	24	<10	64
00MBW460B	1.38	680	2	0.08	4	880	<2	---	---	0.05	<2	8	13	0.17	<10	<10	81	<10	86
00MBW461A	1.65	645	1	0.05	<1	620	2	---	---	<0.01	<2	5	28	0.07	<10	<10	52	<10	152
00MBW469	0.22	165	3	0.08	4	220	2	---	---	0.01	<2	2	48	0.06	<10	<10	21	<10	52
00MBW513	0.04	20	2	0.09	2	30	<2	---	---	<0.01	<2	<1	19	<0.01	<10	<10	3	<10	4
00MBW523	0.09	35	5	0.01	5	80	<2	---	---	0.01	<2	<1	<1	<0.01	<10	<10	3	<10	2

Table 2. Concentration of trace elements in rock samples collected in the Eagle quadrangle. Note: --- = not analyzed.

SAMPLE	Mg	Mn	Mo	Na	Ni	P	Pb	Pt	Pd	S	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
	%	ppm	ppm	%	ppm	ppm	ppm	ppb	ppb	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
00MBW545	0.18	195	<1	0.09	1	550	4	---	---	0.14	<2	3	24	0.08	<10	<10	20	<10	20
00MBW546C	0.02	45	<1	0.05	3	80	4	---	---	0.20	<2	<1	20	<0.01	<10	<10	1	<10	2
00MBW564	1.25	535	6	0.06	7	590	<2	---	---	0.80	<2	11	14	0.12	<10	<10	77	<10	66
00MBW568A	1.65	940	1	0.05	4	1810	2	---	---	1.88	<2	9	108	0.01	<10	<10	137	<10	140
00MBW568C	0.98	580	3	0.03	10	840	<2	---	---	0.73	<2	10	33	0.08	<10	<10	106	<10	90
00MBW570	1.32	315	1	0.10	35	630	2	---	---	0.12	<2	6	39	0.10	<10	<10	57	<10	28
00MBW571	0.52	1165	<1	0.01	7	320	<2	---	---	0.08	<2	3	343	0.04	<10	<10	27	<10	10
00RN62	0.66	785	1	0.08	8	350	4	---	---	0.03	<2	10	16	0.20	<10	<10	39	<10	86
00RN96C	0.59	120	1	0.08	1	260	2	---	---	0.69	<2	15	61	0.05	<10	<10	67	<10	28
00RN102	<0.01	95	1	<0.01	8	150	6	---	---	<0.01	76	1	4	<0.01	<10	<10	7	<10	32
00RN109	0.04	165	<1	0.21	3	410	28	---	---	0.03	<2	<1	79	0.06	<10	<10	6	<10	40
00RN147B	2.53	250	<1	<0.01	1	340	<2	---	---	<0.01	<2	<1	80	<0.01	<10	<10	7	<10	14
00RN147C	0.99	525	<1	0.17	6	1920	<2	---	---	0.30	<2	10	80	0.16	<10	<10	85	<10	64
00RN147D	0.16	135	<1	0.08	1	280	6	---	---	0.10	<2	1	55	0.04	<10	<10	11	<10	16
00RN154	0.50	155	<1	<0.01	3	30	<2	---	---	<0.01	<2	<1	341	<0.01	<10	<10	5	<10	<2
00RN165	0.64	385	<1	0.10	3	910	<2	---	---	0.19	<2	4	59	0.11	<10	<10	44	<10	56
00RN175A	0.38	420	<1	0.04	4	1010	<2	---	---	<0.01	<2	4	83	0.07	<10	<10	31	<10	26
00RN192A	0.20	115	<1	0.07	1	1120	4	---	---	0.01	<2	1	307	0.07	<10	<10	16	<10	10
00RN192B	2.33	260	<1	0.01	<1	630	4	---	---	<0.01	<2	<1	102	0.03	<10	<10	8	<10	16
00RN244A	0.29	360	<1	0.07	7	880	6	---	---	<0.01	<2	3	57	0.09	<10	<10	24	<10	34
00RN252A	1.90	600	<1	0.08	28	1210	<2	---	---	0.53	2	17	121	0.13	<10	<10	121	<10	60
00RN254	0.01	35	<1	0.07	1	220	2	---	---	<0.01	<2	<1	8	<0.01	<10	<10	1	<10	2
00RN255C	0.09	65	<1	0.01	3	170	<2	---	---	<0.01	<2	<1	3	0.02	<10	<10	11	<10	10
00RN256C	0.53	240	<1	0.02	20	2170	<2	---	---	<0.01	<2	1	21	0.16	<10	<10	25	<10	22
00RN322A	0.33	320	<1	0.01	6	700	4	---	---	0.03	<2	1	98	0.05	<10	<10	16	<10	30
00RN325	0.44	350	<1	0.17	<1	4480	<2	<5	<2	0.62	<2	5	61	0.36	<10	<10	300	<10	54
00RN330A	0.03	295	1	<0.01	6	300	2	---	---	<0.01	<2	1	12	<0.01	<10	<10	11	<10	10
00RN331	2.95	555	<1	0.01	268	60	<2	---	---	1.13	<2	30	92	0.01	<10	<10	106	<10	26
00RN332	1.75	415	<1	0.03	333	40	2	---	---	1.41	<2	16	145	0.02	<10	<10	57	<10	20
00RN333	0.94	350	<1	0.05	36	60	<2	---	---	0.07	<2	12	21	0.06	<10	<10	47	<10	16
00RN334	<0.01	25	1	0.04	1	30	34	---	---	<0.01	<2	<1	1	<0.01	<10	<10	1	<10	16
00RN336	<0.01	15	4	0.05	1	90	28	---	---	0.12	<2	<1	4	<0.01	<10	<10	1	<10	16
00RN337B	0.02	275	<1	<0.01	3	10	<2	---	---	<0.01	<2	<1	9	<0.01	<10	<10	1	<10	2
00RN338A	0.01	25	<1	0.03	1	280	2	---	---	<0.01	<2	2	6	0.01	10	<10	5	<10	44
00RN480A	0.15	270	2	0.13	7	100	<2	---	---	0.25	<2	1	98	<0.01	<10	<10	8	<10	26

Table 2. Concentration of trace elements in rock samples collected in the Eagle quadrangle. Note: --- = not analyzed.

SAMPLE	Mg	Mn	Mo	Na	Ni	P	Pb	Pt	Pd	S	Sb	Sc	Sr	Ti	Tl	U	V	W	Zn
	%	ppm	ppm	%	ppm	ppm	ppm	ppb	ppb	%	ppm	ppm	ppm	%	ppm	ppm	ppm	ppm	ppm
00RN481A	0.69	4790	4	0.01	126	1320	<2	---	---	2.10	<2	7	145	<0.01	<10	<10	56	<10	194
00RN481B	0.30	495	1	0.01	17	990	<2	---	---	0.76	<2	1	24	<0.01	<10	<10	22	<10	30
00RN493A	1.78	465	3	<0.01	46	980	<2	---	---	1.46	<2	7	34	0.21	<10	<10	87	<10	82
00RN515A	0.04	20	<1	0.04	4	440	10	---	---	0.77	<2	3	12	<0.01	<10	<10	8	<10	12
00RN515B	<0.01	10	1	0.08	3	30	<2	---	---	0.40	<2	<1	70	<0.01	<10	<10	1	<10	<2
00RN515C	1.53	335	2	0.19	59	890	<2	<5	<2	>5.00	<2	6	31	0.18	<10	<10	146	10	68
00RN523A	0.45	230	6	0.02	57	290	<2	---	---	0.77	<2	1	35	<0.01	<10	<10	44	<10	38
00RN523B	0.26	505	1	<0.01	6	460	<2	---	---	0.91	<2	<1	101	<0.01	<10	<10	8	<10	56
00RN533B	0.05	35	<1	0.03	4	40	4	---	---	0.01	<2	1	8	<0.01	<10	<10	9	<10	10
00RN560	0.01	190	<1	0.06	8	50	2	---	---	0.01	2	1	5	<0.01	<10	<10	9	<10	20
00WM133	1.49	455	1	0.07	1	340	2	---	---	0.27	<2	8	29	0.19	<10	<10	61	<10	48
00WM144C	2.02	265	<1	0.04	3	670	2	---	---	1.03	<2	21	15	0.11	<10	<10	113	<10	34
00WM151	0.11	70	11	0.09	1	550	2	---	---	0.60	<2	10	54	0.03	<10	<10	72	<10	18
00WM206	5.12	80	<1	0.01	2	100	<2	---	---	<0.01	<2	<1	234	<0.01	<10	<10	3	<10	<2
00WM210	3.27	625	<1	0.06	145	4190	<2	---	---	<0.01	<2	3	134	0.27	<10	<10	123	<10	90
00WM269B	0.02	15	1	<0.01	5	180	2	---	---	0.08	<2	<1	15	<0.01	<10	<10	8	<10	<2
00WM369B	0.03	20	51	0.01	6	3080	1170	---	---	0.12	6	<1	23	<0.01	<10	<10	179	<10	76

Table 3. Location and description of rock samples collected in the Eagle and Tanacross quadrangles for major oxide, minor oxide, and trace element analyses.

Sample #	UTM E	UTM N	Sample description
00DS009A	465194	7113546	White, slightly porphyritic, quartz feldspar white mica felsic dike. Quartz content ~20%. No foliation
00DS020	453364	7119650	Biotite-rich amphibolite with ~15% biotite, ~30% feldspar, and ~60% amphibole. Occasional light brown cm-wide quartz veins parallel to foliation
00DS026B	453099	7115691	Pegmatite veins up to 5 cm wide with K-feldspar-quartz-chlorite-epidote (chloritized biotite), sparse disseminated fine grained magnetite
00DS040	451813	7118187	Quartz-biotite-feldspar-white mica orthogneiss: Moderate iron oxide stain on foliation surfaces
00DS042A	452637	7118265	Leucocratic biotite quartz feldspar orthogneiss
00DS053	457740	7116056	Augen gneiss with biotite and white to slightly pink augen eyes. Many quartz and quartz-feldspar veins parallel to foliation in outcrop
00DS058A	458553	7118506	*Biotite granodiorite: non-foliated (at best weakly foliated)*
00DS058B	458553	7118506	Granitic pegmatite with red garnet phenocrysts (2-3%) up to 2-3 mm in diameter
00DS086	431016	7139769	Black basalt with slight green cast to some plagioclase phenocrysts
00DS087	431020	7140160	Black basalt with possible fine-grained biotite phenocrysts?
00DS100	454119	7098845	Hornblende gabbro
00DS124	471642	7110590	Biotite feldspar gneiss with weak chlorite alteration
00DS129	470940	7109461	Dark green to black amphibolite with hornblende phenocrysts up to 1.5 cm long
00DS135B	469264	7115501	Black and white metagabbro; sometimes with schlieren texture. Occurs as xenoliths or dikes within Napoleon pluton
00DS141	469947	7114776	Black and white hornblende bearing Napoleon (monzonite) pluton. Some minor alteration to chlorite
00DS160A	451855	7097520	Black, partially sheared gabbro. Minor calcite veining
00DS163	452524	7098854	Taylor Mountain Batholith hornblende-biotite granodiorite. Minor chlorite, epidote, and hematite on some joint and fracture surfaces
00DS168	455164	7101788	Gray, dacite porphyry with feldspar phenocrysts (~40% of rock and up to 1 cm long by 0.75 cm across). Probable dike
00DS180	474027	7110292	Coarse-grained biotite amphibolite
00DS185	478467	7120018	Weakly foliated biotite-hornblende monzodiorite with ~30-35% biotite, 10-15% hornblende, <5% quartz, and several small schlieren areas
00DS215E	463497	7119500	Hornblende plagioclase gneiss (meta gabbro). Amphibole phenocrysts up to 1.5 cm long
00DS217	463414	7119740	Meta gabbro with large hornblende phenocrysts
00JG033-6/29	479630	7107199	Leucocratic orthogneiss
00JG047-6/30	478784	7110027	Biotite orthogneiss
00JG050B-6/14	455583	7122527	Metagabbro with sulfides
00JG089-7/4	477359	7119161	Orthogneiss
00JG094-6/20	479275	7108835	Orthogneiss
00JG097-6/20	478886	7107958	Orthogneiss

Table 3. Location and description of rock samples collected in the Eagle and Tanacross quadrangles for major oxide, minor oxide, and trace element analyses.

Sample #	UTM E	UTM N	Sample description
00JG125-6/22	481652	7116329	Clinopyroxenite dike
00JG153-6/25	472028	7097155	Muscovite-biotite (partially chloritized)-quartz-feldspar orthogneiss
00MBW11D	482538	7117989	Pale gray, finely banded quartzo-feldspathic gneiss with 2- to 3-mm-diameter equant feldspars floating in a finer-grained matrix
00MBW18	480812	7118765	Pink and green, fine- to medium-grained, very foliated metaplutonic rock. Partially chloritized biotite (up to 35-40%) defines foliation
00MBW21	480946	7118569	Pink and gray, medium grained, augen gneiss with relict K-feldspar crystals up to 2.5 cm long.
00MBW24A	481137	7118313	Very fine grained, black, finely foliated biotite amphibolite(?)
00MBW25B	481193	7118286	Slightly foliated, finely porphyritic biotite quartz diorite? with quartz and feldspar phenocrysts up to 0.4 cm in diameter
00MBW26	481249	7118260	Medium gray, fine grained, equigranular, quartz diorite(?) with ~10% black, faintly-alligned biotite phenocrysts
00MBW43	465755	7122973	Light gray, faintly foliated, fine-grained, hornblende-biotite quartz diorite or granodiorite
00MBW54	463896	7122548	Foliated phlogopite? clinopyroxenite? Appears porphyritic with phlogopite/clinopyroxene phenocrysts (up to 1 cm in diameter) in a fine-grained, foliated, chlorite? matrix
00MBW55	463843	7122428	Hornblende?/clinopyroxene? gabbro(?)
00MBW64	463586	7121383	Dark green, finely foliated, biotite amphibolite
00MBW93	467113	7117659	White and tan, equigranular, barely foliated, hornblende/biotite? monzogranite or granodiorite
00MBW97	467286	7119586	White and black, medium grained, faintly foliated quartz diorite/monzodiorite?
00MBW121	472759	7115954	Napoleon pluton: white and black, slightly foliated, equigranular, hornblende (15-20%) quartz monzonite
00MBW126	468483	7114744	Napoleon pluton: white and green, medium grained, equigranular, hornblende (15-20%) quartz monzonite. Slight to moderate foliation
00MBW141	466666	7112280	White, slightly foliated aplite (rhyolite?) dike with no mafic minerals
00MBW143	466616	7111813	White, fine grained, equigranular felsic intrusion
00MBW215A	455994	7116863	K-feldspar porphyritic, faintly foliated, biotite-rich (~50%), fine to medium grained, biotite quartz monzonite or monzogranite
00MBW216	456073	7116870	Tan, equigranular, foliated, pluton with ~30% hornblende
00MBW243	464821	7109277	Black, fine to medium grained, equigranular gabbro
00MBW313	437941	7146020	Black, clinopyroxene-phyric basalt
00MBW318	436494	7145807	Black, plagioclase?-phyric, intermediate? volcanic rock with aphanitic to almost glassy matrix
00MBW445B	464404	7106993	Green basalt/microgabbro
00MBW474	478225	7110487	Light gray, fine to medium grained, planar foliated, biotite (8%) quartz feldspar orthogneiss
00MBW507	485490	7118888	Pink, fine grained, foliated, biotite (<5%) quartz feldspar orthogneiss
00MBW535	463440	7120077	Dark green and white, medium grained, K-feldspar porphyritic, slightly foliated, biotite granodiorite/granite
00MBW570	462968	7123477	Dark green, medium grained amphibolite with ~3% disseminated iron sulfide
00MBW575	463318	7123594	Dark green, medium grained, amphibole-plagioclase gneiss (metagabbro?)

Table 3. Location and description of rock samples collected in the Eagle and Tanacross quadrangles for major-oxide, minor oxide, and trace element analyses.

Sample #	UTM E	UTM N	Sample description
00RN34	437793	7062747	Augen gneiss with huge K-feldspar phenocrysts. Tanacross quadrangle
00RN48C	480087	7124266	Amphibolite
00RN51A	480027	7123151	Trondhjemitic orthogneiss?
00RN51B	480027	7123151	Augen gneiss
00RN58	478550	7121500	Magnetic amphibolite
00RN64	475507	7121368	Fine grained amphibolite
00RN73	469583	7122073	Uhler Pluton, boulder field of medium- to coarse-grained porphyritic hornblende biotite quartz monzodiorite. Big (white) K-feldspar in medium grained plagioclase-rich matrix with ~15% quartz
00RN75	469019	7122309	Uhler pluton: slightly foliated, medium-grained, biotite content~30%; hornblende-biotite granodiorite
00RN84	467179	7122412	Uhler pluton: medium-grained, porphyritic biotite quartz monzodiorite
00RN93	480014	7119121	'Great Dike': medium-grained, sub-equigranular, hornblende granodiorite dike
00RN96A	482502	7118013	Biotite rich amphibolite
00RN96B	482502	7118013	Orthogneiss, dikes?/sills in big pit; fine- to medium-grained biotite granodiorite/trondhjemite
00RN99	483313	7117010	Orthogneiss near Steel Creek dome summit (elev. 3500'). Strongly foliated biotite tonalite. Coarse grained plagioclase (K-feldspar?) biotite gneiss with vague igneous texture and definite gneissic layering
00RN131	467924	7119564	Fine grained amphibolite
00RN143	465687	7118146	Hornblende plagioclase gneiss and amphibolite: fine grained, no obvious biotite or garnet
00RN148	468940	7115354	Napoleon pluton; foliated hornblende monzonite
00RN176A	452555	7121884	Fine grained biotite amphibolite
00RN182	455036	7121394	Chloritized? green coarse-grained biotite hornblende quartz monzodiorite orthogneiss, - interlayered metasedimenrtay rocks indicates that the orthogneiss bodies are sills? or very folded
00RN221	459870	7121415	Amphibolite
00RN236A	454129	7116222	Amphibolite with porphyroblastic plagioclase
00RN254	454002	7118386	Medium-grained, tourmaline muscovite granite
00RN271	457516	7122271	Butte Creek pluton: medium- to coarse-grained, porphyritic (big quartz, plagioclase), interstitial K-feldspar biotite granodiorite
00RN289B	457753	7118659	Buckskin Creek pluton: medium-grained biotite granodiorite
00RN297	458469	7119197	Amphibolite and minor amphibole gneiss.
00RN330C	431477	7131395	Cretaceous? volcanic rock. Friable, greenish biotite feldspar porphyritic andesite? Crystal-lithic tuff with chloritized biotite
00RN330D	431477	7131395	Maroon-weathering hard dacite? crystal-lithic tuff (Cretaceous?)
00RN334	433313	7134650	Altered felsic quartz porphyry dike
00RN336	435419	7137735	Coarse grained, orange stained quartz porphyry - same dike as 00RN334?
00RN337A	437593	7140059	Fine-grained, clay-altered (mostly weathered?) quartz porphyry rhyolite tuff? (Tertiary)
00RN337C	437593	7140059	Vesicular basalt (Tertiary)

Table 3. Location and description of rock samples collected in the Eagle and Tanacross quadrangles for major oxide, minor oxide, and trace element analyses.

Sample #	UTM E	UTM N	Sample description
00RN420B	473638	7101994	Fine grained porphyritic basaltic? dike ~1 m wide
00RN500A	475046	7100016	Fine grained biotite amphibolite and amphibolite. Layers from 2 cm to 50 cm thick
00RN501	474862	7099943	Coarse grained quartz diorite? orthogneiss
00RN537D	482820	7114162	Medium grained, quartz feldspar muscovite granite
00RN568A	486917	7108469	Amphibolite
00RN571A	490525	7106945	Amphibolite and lessor amphibole-plagioclase gneiss
00WM03A	478585	7121530	Coarse grained orthogneiss
00WM202	460648	7099958	Light-colored pluton
00WM321	477972	7115788	Amphibolite

Table 4. Concentration of major-oxides, minor oxides, and trace elements in rock samples from the Eagle and Tanacross quadrangles.

SAMPLE	Al2O3	CaO	Cr2O3	Fe2O3*	K2O	MgO	MnO	Na2O	P2O5	SiO2	TiO2	LOI	TOTAL	Ba	Rb	Sr	Nb	Zr	Y
	%	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm
00DS009A	15.68	1.62	<0.01	0.34	0.77	0.02	0.01	6.37	<0.01	73.85	0.03	0.37	99.06	1170	14	1015	6	39	6
00DS020	14.95	9.37	<0.01	11.17	1.07	7.36	0.20	3.01	0.08	49.77	1.08	0.96	99.02	785	22	104	6	72	26
00DS026B	14.12	3.46	<0.01	5.10	4.52	2.25	0.11	2.51	0.29	65.15	0.56	1.20	99.27	1675	110	564	12	117	24
00DS040	3.16	1.43	<0.01	1.77	0.19	1.10	0.05	0.27	0.08	90.24	0.18	0.38	98.85	295	12	36	10	75	16
00DS042A	12.13	4.04	<0.01	7.22	2.52	4.36	0.09	1.60	0.17	64.74	0.94	1.05	98.86	1140	56	240	20	141	26
00DS053	13.27	0.86	<0.01	2.16	4.92	0.97	0.04	3.58	0.04	72.66	0.19	0.39	99.08	1155	122	132	12	96	24
00DS058A	15.96	2.99	<0.01	2.38	3.32	0.67	0.06	3.83	0.13	68.81	0.25	0.63	99.03	1295	90	732	14	132	20
00DS058B	14.76	1.43	<0.01	0.63	3.85	<0.01	0.31	4.41	0.02	73.04	0.04	0.30	98.79	175	196	140	8	69	64
00DS086	15.34	8.83	<0.01	10.48	1.15	6.86	0.16	2.82	0.37	48.82	1.82	2.23	98.88	435	34	322	18	198	34
00DS087	15.39	8.80	<0.01	10.58	1.08	6.93	0.16	2.93	0.34	48.88	1.84	2.27	99.20	435	40	324	16	192	30
00DS100	16.28	4.86	<0.01	5.48	2.76	2.28	0.11	3.29	0.28	61.06	0.58	1.53	98.51	1305	66	804	16	129	22
00DS124	13.62	3.12	<0.01	3.90	1.64	1.27	0.06	3.24	0.07	70.95	0.36	0.79	99.02	1105	42	278	10	93	24
00DS129	16.98	9.16	<0.01	8.90	0.74	7.18	0.16	3.87	0.28	48.75	1.16	1.38	98.56	215	28	388	8	114	24
00DS135B	15.29	9.67	<0.01	12.27	1.94	5.03	0.24	3.39	0.82	47.77	0.88	1.77	99.07	475	28	892	10	87	24
00DS141	18.69	4.59	<0.01	5.58	5.32	1.58	0.13	4.54	0.35	57.39	0.43	0.40	99.00	2250	96	1370	6	108	24
00DS160A	15.43	9.29	<0.01	10.16	1.00	5.56	0.21	2.64	0.50	47.58	2.17	4.22	98.76	655	26	500	22	246	36
00DS163	17.30	4.12	<0.01	3.77	2.41	1.18	0.10	5.16	0.19	63.43	0.46	0.76	98.88	1275	50	946	14	126	22
00DS168	16.66	1.52	<0.01	3.71	2.53	0.74	0.06	5.39	0.22	65.18	0.47	2.17	98.65	1600	44	1150	10	102	14
00DS180	17.36	8.46	<0.01	11.65	1.85	4.47	0.13	2.29	0.19	49.26	1.02	2.10	98.78	650	52	356	14	78	24
00DS185	17.11	4.79	<0.01	3.44	2.80	1.08	0.08	3.78	0.16	64.29	0.35	0.70	98.58	1235	64	834	10	108	18
00DS215E	18.32	6.84	<0.01	7.94	3.20	2.98	0.09	3.14	0.18	53.63	0.60	1.81	98.73	675	66	436	6	57	24
00DS217	18.18	8.08	<0.01	8.92	0.61	3.31	0.09	2.38	0.15	55.84	0.59	1.07	99.22	500	20	386	4	48	18
00JG033-6/29	15.64	2.59	<0.01	0.85	1.39	0.06	0.01	5.55	0.03	72.37	0.07	0.28	98.84	1035	28	1185	6	75	10
00JG047-6/30	15.16	2.63	<0.01	1.29	1.77	0.21	0.02	4.80	0.06	72.51	0.14	0.38	98.97	1855	36	912	8	99	10
00JG050B-6/14	15.19	3.88	<0.01	3.92	3.49	1.25	0.11	3.47	0.23	65.49	0.40	1.29	98.72	2430	82	868	16	141	26
00JG089-7/4	8.75	0.72	<0.01	0.33	3.12	<0.01	0.01	1.93	0.01	84.07	0.05	0.23	99.22	1715	64	312	8	72	12
00JG094-6/20	16.16	2.86	<0.01	1.19	1.68	0.19	0.02	4.89	0.17	70.81	0.13	0.76	98.86	2020	36	916	8	72	8
00JG097-6/20	15.07	2.49	<0.01	1.24	1.84	0.32	0.03	4.81	0.04	72.50	0.10	0.64	99.08	1430	44	1040	6	99	10
00JG125-6/22	10.47	8.99	<0.01	13.58	1.50	8.01	0.17	2.38	0.53	50.70	1.39	0.99	98.71	1030	36	268	8	54	20
00JG153-6/25	15.32	3.85	<0.01	2.37	1.39	0.74	0.03	4.49	0.10	69.48	0.27	0.81	98.85	1405	30	700	8	168	10
00MBW11D	15.62	3.64	<0.01	2.84	2.08	0.82	0.04	4.28	0.20	67.61	0.30	1.20	98.63	1820	48	864	16	123	12
00MBW18	16.99	4.48	<0.01	5.75	3.08	2.23	0.12	3.83	0.25	59.91	0.54	1.53	98.71	1715	92	680	12	117	22

Table 4. Concentration of major-oxides, minor oxides, and trace elements in rock samples from the Eagle and Tanacross quadrangles.

SAMPLE	Al2O3	CaO	Cr2O3	Fe2O3*	K2O	MgO	MnO	Na2O	P2O5	SiO2	TiO2	LOI	TOTAL	Ba	Rb	Sr	Nb	Zr	Y
	%	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm
00MBW21	13.20	0.88	<0.01	1.90	3.55	0.43	0.04	3.91	0.03	74.29	0.17	0.45	98.85	905	100	134	14	105	32
00MBW24A	15.07	9.66	<0.01	12.39	0.67	4.12	0.21	3.42	0.97	49.64	2.05	0.38	98.58	160	16	396	10	93	30
00MBW25B	15.33	3.29	<0.01	3.82	3.21	1.37	0.10	2.90	0.22	67.73	0.42	0.76	99.15	2080	76	816	16	135	20
00MBW26	15.05	4.38	<0.01	6.16	2.25	2.28	0.13	2.56	0.35	64.19	0.70	0.77	98.82	1825	84	624	16	165	32
00MBW43	15.39	4.08	<0.01	4.58	3.42	1.28	0.12	3.27	0.23	65.13	0.46	0.82	98.78	1560	94	704	16	156	28
00MBW54	9.09	7.97	0.01	15.20	0.09	17.64	0.25	0.42	0.09	44.39	0.52	3.42	99.09	70	14	8	6	33	12
00MBW55	16.48	9.66	0.01	9.49	0.39	8.67	0.16	3.55	0.23	47.72	1.10	1.22	98.68	125	18	320	6	102	26
00MBW64	15.10	7.39	<0.01	9.31	1.93	8.92	0.19	4.05	0.19	50.00	0.72	1.07	98.87	875	46	236	10	75	20
00MBW93	16.51	4.02	<0.01	1.61	2.37	0.75	0.06	5.82	0.15	66.82	0.14	0.88	99.13	1935	38	1060	6	78	20
00MBW97	14.94	2.79	<0.01	3.26	3.81	1.04	0.08	3.51	0.19	67.76	0.35	1.32	99.05	1580	96	694	12	126	22
00MBW121	19.01	5.05	<0.01	5.98	4.63	1.68	0.14	4.32	0.35	57.06	0.46	0.41	99.09	2560	86	1355	8	93	22
00MBW126	18.28	5.56	<0.01	7.12	4.37	2.35	0.16	4.48	0.45	54.98	0.64	0.51	98.90	2210	74	1295	12	135	24
00MBW141	15.15	2.18	<0.01	0.79	3.69	0.26	0.04	3.73	0.03	72.32	0.09	0.57	98.85	3000	64	1030	10	60	12
00MBW143	17.22	1.29	<0.01	0.35	1.50	0.07	0.01	7.23	0.01	70.71	0.04	0.51	98.94	1305	40	988	6	30	8
00MBW215A	13.62	4.80	<0.01	6.97	3.40	2.99	0.13	2.33	0.41	62.01	0.85	0.92	98.43	2550	84	590	16	180	28
00MBW216	17.41	6.54	<0.01	6.39	2.50	1.89	0.16	3.96	0.28	58.77	0.55	0.67	99.12	1190	54	874	12	144	24
00MBW243	15.05	8.28	<0.01	11.09	0.99	6.65	0.16	2.94	0.34	48.21	1.88	3.34	98.93	490	30	290	16	255	36
00MBW313	14.86	7.62	<0.01	11.04	1.69	4.73	0.13	3.15	0.51	50.68	2.42	2.21	99.04	660	50	294	24	282	44
00MBW318	12.66	1.65	<0.01	3.71	5.03	0.17	0.05	2.83	0.10	70.31	0.43	1.99	98.93	1790	198	128	36	498	76
00MBW445B	14.79	8.11	<0.01	10.47	0.31	5.78	0.16	2.83	0.32	45.76	1.79	8.14	98.46	335	12	392	20	264	36
00MBW474	15.99	2.63	<0.01	1.77	2.00	0.44	0.04	4.78	0.06	70.61	0.18	0.47	98.97	1735	50	752	10	108	10
00MBW507	12.57	0.63	<0.01	1.41	4.50	0.17	0.03	2.96	0.03	76.03	0.11	0.53	98.97	1440	146	78	14	120	40
00MBW535	14.80	3.01	<0.01	4.62	4.58	1.55	0.09	2.49	0.28	65.50	0.49	1.48	98.89	1970	86	684	14	159	26
00MBW570	18.14	8.13	<0.01	9.57	1.35	5.86	0.11	3.22	0.15	49.67	0.64	2.18	99.02	700	36	342	8	57	14
00MBW575	17.25	8.47	<0.01	8.20	1.10	4.54	0.12	4.31	0.34	52.78	1.15	0.70	98.96	360	32	276	12	144	30
00RN34	13.85	1.44	<0.01	2.99	4.32	1.07	0.07	2.59	0.15	70.32	0.65	1.43	98.88	855	178	148	22	225	44
00RN48C	14.72	5.49	<0.01	8.58	0.40	1.96	0.07	4.77	0.35	60.84	0.96	0.40	98.54	635	14	406	4	63	24
00RN51A	15.18	2.65	<0.01	0.64	2.17	0.15	0.01	4.49	0.05	72.94	0.08	0.42	98.78	3140	40	892	6	75	6
00RN51B	8.74	0.47	<0.01	1.65	4.01	0.48	0.03	1.29	0.05	81.43	0.20	0.71	99.06	925	104	108	8	144	16
00RN58	13.87	6.44	<0.01	13.81	0.40	3.77	0.21	4.17	0.06	54.90	0.76	0.23	98.62	165	12	140	4	39	18
00RN64	15.44	8.97	<0.01	11.19	0.41	6.81	0.19	3.49	0.19	50.44	1.00	0.73	98.86	155	12	302	6	63	20
00RN73	17.19	5.79	<0.01	5.16	2.38	1.96	0.11	3.57	0.24	61.54	0.47	0.65	99.06	1320	60	990	12	126	18

Table 4. Concentration of major-oxides, minor oxides, and trace elements in rock samples from the Eagle and Tanacross quadrangles.

SAMPLE	Al2O3	CaO	Cr2O3	Fe2O3*	K2O	MgO	MnO	Na2O	P2O5	SiO2	TiO2	LOI	TOTAL	Ba	Rb	Sr	Nb	Zr	Y
	%	%	%	%	%	%	%	%	%	%	%	%	%	ppm	ppm	ppm	ppm	ppm	ppm
00RN75	14.67	4.58	<0.01	6.22	4.27	2.27	0.12	2.02	0.36	62.41	0.69	0.94	98.55	2540	98	676	14	177	30
00RN84	14.27	4.47	<0.01	5.93	4.24	2.21	0.11	1.93	0.45	63.29	0.72	1.03	98.65	2220	100	594	16	162	30
00RN93	14.62	4.52	<0.01	5.59	3.71	1.95	0.11	2.21	0.33	64.18	0.62	1.03	98.87	2090	88	668	16	177	30
00RN96A	18.90	6.42	<0.01	9.20	1.50	3.30	0.15	4.59	0.14	53.30	0.82	0.76	99.08	935	32	348	8	81	24
00RN96B	16.01	3.02	<0.01	2.67	2.20	0.75	0.04	4.08	0.19	68.45	0.28	0.78	98.47	1845	48	782	20	126	14
00RN99	13.59	3.95	<0.01	4.69	2.13	1.25	0.08	2.39	0.08	69.31	0.41	0.73	98.61	1065	62	190	14	120	26
00RN131	15.31	6.25	<0.01	9.90	0.97	3.58	0.18	5.09	0.69	54.43	1.59	1.27	99.26	365	26	246	14	120	32
00RN143	18.62	12.02	<0.01	10.52	0.88	4.50	0.17	3.24	0.16	46.65	0.86	1.38	99.00	210	18	270	2	48	16
00RN148	18.12	4.89	<0.01	6.10	4.66	1.75	0.15	4.29	0.38	57.75	0.48	0.52	99.09	2310	82	1345	8	78	24
00RN176A	15.22	7.41	<0.01	9.13	2.87	5.20	0.17	2.61	0.36	53.87	0.88	1.12	98.84	3150	60	480	10	117	26
00RN182	14.24	5.94	<0.01	7.10	3.11	3.16	0.15	2.91	0.39	59.95	0.77	0.94	98.66	2100	48	1020	16	177	30
00RN221	16.67	5.35	<0.01	9.03	1.01	4.07	0.22	3.75	0.20	56.16	0.81	1.58	98.85	280	28	312	6	81	30
00RN236A	16.67	6.57	<0.01	8.26	3.01	4.31	0.16	4.20	0.17	53.45	0.64	1.59	99.03	1730	48	564	8	63	14
00RN254	15.51	1.86	<0.01	0.62	2.41	0.19	0.03	3.52	0.09	73.16	0.09	0.85	98.33	1065	66	250	10	42	42
00RN271	14.86	3.59	<0.01	3.76	3.28	1.19	0.09	2.72	0.22	67.24	0.39	1.19	98.53	1695	70	722	14	153	24
00RN289B	14.99	2.72	<0.01	2.91	3.35	0.97	0.08	3.42	0.15	68.41	0.33	1.33	98.66	2310	82	768	14	117	20
00RN297	15.36	5.17	<0.01	7.83	1.80	4.24	0.14	3.11	0.12	58.53	0.64	1.89	98.83	775	42	302	8	96	24
00RN330C	14.02	2.49	<0.01	2.44	2.53	1.02	0.06	2.07	0.11	68.89	0.34	4.64	98.61	835	110	394	20	159	20
00RN330D	14.85	1.78	<0.01	2.75	4.11	0.84	0.04	2.73	0.11	69.38	0.35	2.17	99.11	1825	134	436	20	162	22
00RN334	12.67	0.22	<0.01	1.13	5.15	0.18	0.01	2.89	0.01	75.45	0.08	1.17	98.96	160	450	6	70	201	120
00RN336	12.26	0.05	<0.01	1.22	5.40	<0.01	<0.01	2.62	0.04	75.97	0.26	1.17	98.99	885	250	28	40	366	48
00RN337A	11.80	0.89	<0.01	0.94	5.31	<0.01	<0.01	2.21	0.09	76.29	0.41	1.03	98.97	1395	224	96	34	438	76
00RN337C	14.32	9.57	<0.01	11.69	1.24	4.35	0.18	2.98	0.48	47.08	2.31	4.65	98.85	560	26	286	22	240	38
00RN420B	14.40	4.27	0.07	7.78	6.74	9.73	0.12	3.70	0.90	49.21	0.77	0.91	98.60	3560	186	1150	14	153	26
00RN500A	16.53	6.10	<0.01	8.57	1.20	5.88	0.15	5.41	0.19	52.66	0.88	1.26	98.83	400	26	218	6	87	24
00RN501	16.56	3.24	<0.01	3.06	2.59	1.03	0.04	4.44	0.11	66.33	0.40	0.86	98.66	3150	60	618	14	108	12
00RN537D	15.39	0.93	<0.01	0.23	4.05	<0.01	0.01	5.47	<0.01	72.07	0.04	0.17	98.36	1035	78	406	6	30	10
00RN568A	14.14	6.89	<0.01	13.24	0.90	6.83	0.23	4.28	0.20	49.29	1.93	0.85	98.78	290	22	148	6	84	30
00RN571A	11.82	5.78	<0.01	8.85	1.84	4.81	0.17	2.68	0.11	61.12	0.79	0.91	98.88	1255	44	176	6	66	24
00WM03A	15.99	3.31	<0.01	1.43	1.87	0.40	0.03	4.72	0.06	69.88	0.13	0.59	98.41	1165	44	800	12	90	10
00WM202	17.16	3.43	<0.01	2.54	2.22	0.77	0.07	5.63	0.14	66.05	0.30	0.47	98.78	1450	46	906	16	93	14
00WM321	12.06	10.02	0.01	19.26	2.38	9.57	0.26	1.39	0.24	40.33	1.91	1.33	98.76	1300	74	218	10	39	22

Table 5. Concentration of rare earth elements in rock samples from the Eagle quadrangle.

SAMPLE	Ce ppm	Dy ppm	Er ppm	Eu ppm	Gd ppm	Ho ppm	La ppm	Lu ppm	Nd ppm	Pr ppm	Sm ppm	Tb ppm	Th ppm	Tm ppm	U ppm	Y ppm	Yb ppm
99MBW256	5.0	1.0	0.7	0.3	1.0	0.2	2.5	0.1	3.0	0.6	0.8	0.1	<1	0.1	<0.5	7.5	0.7
99RN151A	20.0	2.6	1.6	0.7	2.7	0.5	11.0	0.2	9.5	2.5	2.1	0.4	1	0.2	0.5	17.0	1.7
99RN176A	21.5	4.3	2.5	1.3	5.0	0.9	7.5	0.3	15.0	3.3	4.0	0.7	<1	0.4	1	27.5	2.5
99RN196C	14.0	3.0	2.0	0.7	2.8	0.7	6.0	0.3	8.0	1.8	2.1	0.5	<1	0.3	<0.5	21.0	2.0
99RN96C	21.5	5.1	3.2	1.2	4.4	1.1	9.0	0.5	11.5	2.7	3.4	0.8	3	0.4	1	33.5	3.4
00DS129	27.5	3.4	2.0	1.2	3.7	0.7	11.5	0.3	14.0	3.6	3.0	0.6	<1	0.3	<0.5	20.5	1.8
00DS215E	16.5	2.8	1.7	0.8	2.9	0.6	7.5	0.2	8.5	2.0	2.1	0.4	<1	0.2	0.5	18.5	1.7
00JG125-6/22	18.5	3.7	2.0	1.1	4.3	0.8	8.5	0.2	13.5	2.9	3.6	0.6	2	0.3	1	18.5	1.7
00MBW55	19.0	3.2	1.8	1.1	3.4	0.7	7.5	0.3	11.5	2.7	2.8	0.5	<1	0.2	<0.5	19.5	1.8
00RN58	5.5	2.4	1.6	0.5	1.9	0.5	2.0	0.2	4.0	0.8	1.4	0.3	<1	0.2	<0.5	16.0	1.7
00RN64	14.5	3.5	2.1	1.0	3.5	0.7	6.5	0.3	11.0	2.1	2.7	0.6	<1	0.3	<0.5	19.5	2.0
00RN143	17.0	3.0	1.7	0.9	3.2	0.6	7.5	0.3	10.5	2.6	2.8	0.5	<1	0.3	0.5	16.5	1.8
00RN571A	14.0	3.1	2.2	0.7	3.0	0.7	7.0	0.3	9 0	2.1	2.3	0.5	1	0.3	0.5	18.5	2.0
00RN586A	17.0	4.8	3.2	1.3	4.6	1.0	6.5	0.4	11.5	2.6	3.4	0.8	<1	0.4	0.5	31.0	3.4