

**YUKON ENERGY, MINES  
& RESOURCES LIBRARY**  
PO Box 2703  
Whitehorse, Yukon Y1A 2C8

**Report  
On  
Hopkins Lake  
2001 Exploration Program**

**NTS 115-H-7**

**For  
Y.M.I.P.**

**By  
Bernie Kreft**

**November 7, 2001**

01-048

**Conclusions** – Porphyry style mineralization (Cu-Mo-W) occurs on the property. Numerous mineralized outcrops were located during the one-day visit. Although there are local high-grade zones and veins (0.5% Cu to 1.0% Cu from grab samples), overall average grade of the mineralization encountered is much lower (0.03% to 0.06%). True outcrop is poor and much of the area is overburden covered. Alteration (epidote and k-spar) is weak, and precious metal values are mostly sub-anomalous, which is surprising considering the amount of gold and silver within the local skarn showings. Zoning patterns within the porphyry system may explain the lack of alteration and the low precious metal values encountered during the one-day visit.

**Recommendations** – Further work is recommended, and should consist of a soil sampling grid at 100m x 100m spacing centred over Trench 12. Further reconnaissance prospecting is also required.

**Costs**

Bernie Kreft	Prospecting	\$250.00
Assays	12 Au+30	\$210.00
Bernie Kreft	Report Prep	\$250.00
Food and Supplies		<u>\$35.00</u>
	Total	\$745.00

Hopkins Lake Sampling  
August 31, 2001  
Mike Burke, Bernie Kreft

Hop 1,2      Loc. 396510E 6796259N

Granitic Outcrop, weakly fractured (6 per meter), mal on fractures, trace disseminated cpy, one quartz vein (1mm) with weak moly

Hop 3      Loc. 396844E 6796605N

Representative grab - 2mm wide cpy fracture in granite jointing 033/78E (5 per meter)

Hop 4      Loc. 397224E 6797150N

Weakly propylitic altered granite with trace pyrite. Epidote and k-spar alteration.

Hop 5      Loc. 397366E 6797261N

Mafic intrusive with biotite and pyrite on fractures.

Hop 6      Loc. 397565E 6797231N

Old trench 12? Representative grab of limonite allturd granite with approx. 1% disseminated and fracture controlled cpy.

Hop 7.      Same loc as hop 6

Diorite from trench 12 with trace disseminated cpy and <1mm cpy veinlet.

Hop 8      Same loc as hop 6

Float from trench 12. 3 cm wide k-spar vein in granite cpy and moly along vein selvage.

Hop 9      same location as hop 6

Trench 12. Granite with subparallel qtz-chalcedony veinlets with trace cpy. 2 foot chip sample.

Hop 10.      Trench 12.

Unaltered granite with trace pyrite mineralization.

Hop 11.      Trench 12.

Fracture in granite with abundant moly and dis cpy.

Hop 12.      Trench 12.

1.0m chip sample of diorite with trace disseminated pyrite and cpy

12/09/2001

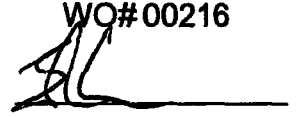
Certificate of Analysis

Page 1

Bernie Kreft

WO# 00216

Certified by



Sample #	Au ppb
r HOP-1	21
r HOP-2	7
r HOP-3	19
r HOP-4	9
r HOP-5	81
r HOP-6	9
r HOP-7	13
r HOP-8	9
r HOP-9	10
r HOP-10	12
r HOP-11	10
r HOP-12	12
r MCD-1	15
r MCD-2	9
r MCD-3	11
r VMS-1	177
r VMS-2	255
r VMS-3	74
r VMS-4	2010
r VMS-5	16
r VMS-6	317
r VMS-7	1910
r VMS-8	196
r VMS-9	186
r VMS-10	556
r VMS-11	19
r VMS-12	154
r VMS-13	7
r VMS-14	17
r VMS-15	63



# CERTIFICATE OF ANALYSIS

## iPL 01I1024



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Page 1 of 1  
Section 1 of 1

INTERNATIONAL PLASMA LABORATORY LTD

Client : Northern Analytical Laboratories  
Project: W.O. 00216

**30 Samples**  
30=Pulp

[102415:55:47:10091801]

Out: Sep 18, 2001  
In : Sep 10, 2001

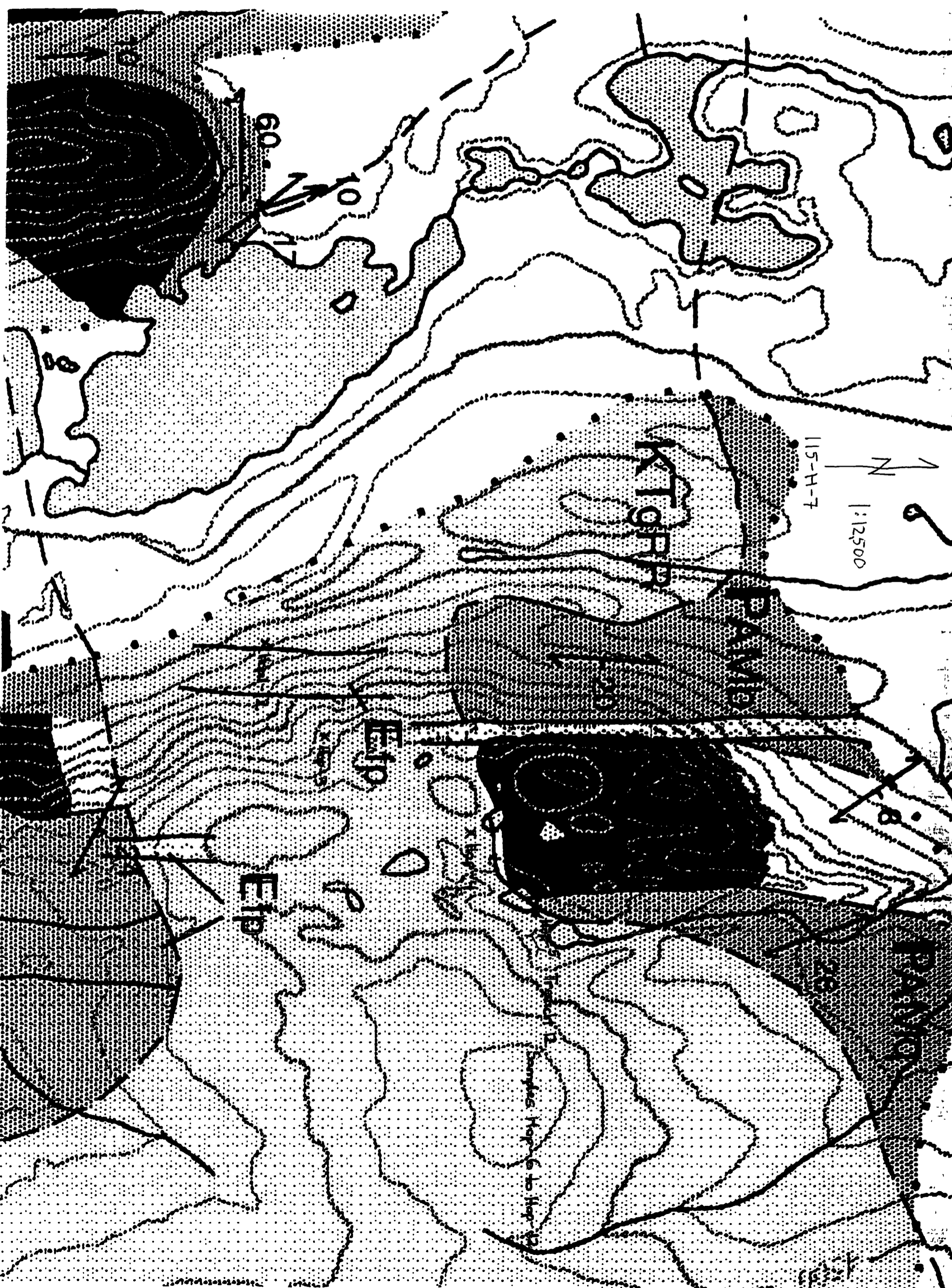
Sample Name	Ag ppm	Cu ppm	Pb ppm	Zn ppm	As ppm	Sb ppm	Hg ppm	Mo ppm	Tl ppm	Bi ppm	Cd ppm	Co ppm	Ni ppm	Ba ppm	W ppm	Cr ppm	V ppm	Mn ppm	La ppm	Sr ppm	Zr ppm	Sc ppm	Ti %	Al %	Ca %	Fe %	Mg %	K %	Na %	P %	
HOP - 1	P 1.7	2445	26	34	<	<	< 17	<	<	<	<	23	23	439	79	112	114	293	9	39	8	5	0.26	1.68	0.58	3.46	1.74	0.74	0.09	0.08	
HOP - 2	P 0.1	55	21	12	7	<	< 552	<	<	<	<	6	<	132	155	76	51	108	9	14	2	<	0.11	0.39	0.28	1.43	0.32	0.23	0.05	0.05	
HOP - 3	P 1.5	6894	19	46	<	<	< 40	<	<	<	<	16	14	144	198	90	64	251	8	16	2	3	0.16	0.84	0.35	2.67	0.89	0.27	0.05	0.07	
HOP - 4	P <	53	14	81	<	<	< 9	<	<	<	<	23	22	71	<	68	79	840	11	88	6	6	0.22	2.40	1.70	4.40	2.09	0.05	0.05	0.23	
HOP - 5	P 1.4	2381	48	58	<	<	< 47	<	<	<	<	39	27	99	5	60	217	411	20	155	2	5	0.37	4.43	2.97	5.65	2.27	1.36	0.31	0.35	
HOP - 6	P 5.2	9301	26	79	<	<	< 83	<	<	<	<	32	20	146	10	36	186	717	26	105	3	15	0.02	1.67	2.12	7.22	2.13	0.22	0.04	0.21	
HOP - 7	P 0.3	643	23	31	<	<	< 75	<	<	<	<	22	13	566	<	66	158	276	22	73	2	3	0.25	1.36	1.30	4.06	1.23	0.61	0.11	0.24	
HOP - 8	P 2.3	7386	45	30	<	<	< 0.2%	<	<	<	<	17	8	84	263	47	86	332	8	83	3	2	0.13	1.09	3.15	2.82	1.23	0.11	0.06	0.09	
HOP - 9	P 0.2	299	15	26	<	<	< 100	<	<	<	<	19	13	573	11	58	153	369	12	103	2	5	0.21	1.51	1.43	3.46	1.52	0.35	0.11	0.16	
HOP - 10	P 0.3	603	15	32	<	<	< 81	<	<	<	<	26	20	432	5	61	161	393	12	121	2	4	0.24	1.54	1.83	3.93	1.38	0.61	0.13	0.13	
HOP - 11	P 0.1	153	18	25	<	<	< 429	<	<	<	<	20	4	481	<	48	162	215	24	72	1	2	0.20	1.26	1.21	3.92	1.02	0.64	0.13	0.30	
HOP - 12	P 0.3	444	14	46	<	<	< 15	<	<	<	<	29	14	300	<	55	156	344	15	54	2	3	0.33	1.41	0.69	4.23	1.21	0.98	0.12	0.16	
MCD - 1	P 2.1	215	90	17157	<	<	< 6	<	<	<	0.1m	12	27	3	<	22	6	159	8	338	3	<	0.07	6.23	3.34	6.85	0.13	0.03	0.24	0.03	
MCD - 2	P 0.7	49	475	230	<	59	< 6	<	<	<	<	14	23	16	<	45	6	88	8	365	2	<	0.09	7.12	5.35	3.10	0.13	0.03	0.19	0.05	
MCD - 3	P 1.1	120	98	539	903	6	< 5	<	<	<	0.7	13	16	32	<	83	41	94	6	63	2	5	0.08	2.39	1.05	2.67	0.92	0.58	0.12	0.04	
VMS - 1	P 10.2	689	355	714	3488	35	< 7	<	<	<	<	8	1	6	<	49	15	102	4	4	13	1	<	1.89	0.10	8.63	0.26	0.18	0.02	0.04	
VMS - 2	P 13.2	38	862	115	592	104	< 3	<	<	<	0.2	2	<	47	<	64	<	1791	9	43	15	<	<	0.25	2.51	1.05	0.16	0.15	0.01	<	
VMS - 3	P 8.0	40	83	20	2567	17	< 2	<	<	<	<	1	<	94	<	60	<	32	12	6	13	<	<	0.28	0.02	1.46	0.01	0.24	0.02	<	
VMS - 4	P 90.6	434	1212	12%	780	187	12	<	<	<	1.9m	64	188	25	<	21	10	1.3%	7	109	2	2	<	0.16	15%	7.91	3.81	0.09	0.02	0.03	
VMS - 5	P 30.5	150	1447	2737	1766	65	< 3	<	<	<	26.8	4	2	33	<	112	2	820	9	19	11	<	<	0.29	0.87	1.43	0.09	0.19	0.01	<	
VMS - 6	P 13.5	265	3653	2348	222	10	< 9	<	<	<	24.4	2	4	46	<	69	2	753	13	8	24	<	<	1.52	0.38	3.37	0.92	0.37	0.02	<	
VMS - 7	P 72.8	5308	816	6038	1.9%	79	< 7	<	<	<	39.2	16	<	<	<	47	46	1514	<	18	8	2	<	3.20	0.94	20x1.35	0.07	0.02	0.02	0.04	
VMS - 8	P 44.5	4205	1292	218	3.2%	86	< 8	<	<	<	<	50	<	<	<	9	67	12	61	<	3	19	<	<	0.77	0.01	17x0.21	0.15	0.02	<	<
VMS - 9	P 5.9	42	462	554	431	12	< 3	<	<	<	5.2	1	1	63	<	64	<	244	13	5	16	<	<	0.29	0.15	1.46	0.04	0.23	0.02	<	
VMS - 10	P 86.0	3924	4260	7876	4.2%	148	< 10	<	<	<	50.8	22	<	<	<	41	71	1031	<	5	7	4	<	2.48	0.16	22x0.55	0.06	0.01	0.01	0.06	
VMS - 11	P 0.6	142	29	114	152	<	< 6	<	<	<	<	28	5	42	<	28	208	1551	8	128	2	18	0.02	2.88	6.85	6.04	1.98	0.22	0.04	0.17	
VMS - 12	P 66.7	27	331	456	95	18	< 2	<	<	<	3.2	3	<	68	<	46	17	1545	12	25	21	1	<	0.51	1.97	1.41	0.28	0.20	0.02	0.01	
VMS - 13	P 0.6	97	12	46	<	<	< 6	<	<	<	<	16	7	40	<	16	188	2353	5	103	2	14	0.01	2.74	6.89	5.61	1.89	0.13	0.03	0.15	
VMS - 14	P 1.5	167	19	1757	150	<	< 4	<	<	<	14.6	4	8	70	<	30	99	1818	12	27	3	7	<	1.77	1.75	4.64	0.93	0.17	0.03	0.23	
VMS - 15	P 4.3	80	1606	2281	36	<	< 5	<	<	<	36.5	1	<	64	<	27	<	2776	8	23	12	<	<	0.27	3.73	1.85	0.52	0.14	0.01	<	

Min Limit    0 1    1    2    1    5 5    3 1 10    2 0.1    1 1    2 5    1 2    1 2    1 1    1 0.01 0.01 0 01    0.01 0.01 0.01 0 01 0.01

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—No Test    Ins=Insufficient Sample    Del=Delay    Max=No Estimate    Rec=ReCheck    m=x1000    %=Estimate %    NS=No Sample P=Pulp



and are locally characterized by augen of potassium feldspar and discontinuous metabasite boudins; diorite gneiss is grey, equigranular and medium to coarse grained; includes minor marble and quartzite



tan to brown to black quartzite; commonly micaceous includes minor mica-schist, marbles, metabasite and felsic meta-igneous rocks



bleached white-weathering, white to grey, coarsely crystalline, flow banded, fetid marble; graphite, chert, metabasite and calc-silicate lamina are common



orange and green weathering, green to black hornblende metabasite; includes hornblende amphibolite to hornblende-plagioclase gneiss and hornblende quartzite; adjacent to marble horizons may include significant amount of epidote-diopside calcsilicate; also includes Pamb- a solitary mega-boudin of orange weathering, dark green, gabbroic feldspar augen gneiss



pink purple, red, and dark grey weathering, dark grey to brown, garnetiferous, muscovite biotite feldspathic micaschist and quartz micaschist; foliiform quartz and quartz-feldspar lenses are common and locally impart a migmatic appearance to the rocks; micaceous feldspathic grey quartz gneiss is a locally significant subunit; includes minor quartzite, metabasite marble, and meta-igneous rocks

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## INTRUSIVE ROCKS

### EOCENE



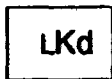
north-trending, olive to orange weathering, green feldspar porphyry dyke rocks; hornblende phenocrysts are common; thought to represent feeder dykes to Emca1 flows; includes buff weathering, tan to orange, leucocratic quartz eye feldspar porphyry which forms a plug that intrudes the western margin of the Aishihik Batholith in central-west 115 H/7

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### LATE CRETACEOUS



light grey weathering, dark grey, medium to coarse grained, equigranular, hornblende diorite; planar fabric defined by alignment of euhedral hornblende grains; strongly magmatic; underlies the SATO claims; includes orange weathering, dark green, aphanitic to finely crystalline, dense mafic dyke rocks in 115 H/7

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### LATE CRETACEOUS - TERTIARY

#### RUBY RANGE PLUTONIC SUITE



grey to light brown weathering, light to dark grey medium to coarse grained, equigranular to potassium feldspar megacrystic, biotite-hornblende granodiorite; hornblende biotite monzodiorite and quartz monzonite, in which grey quartz eyes are abundant, is a locally significant phase; titanite is a locally significant accessory; includes minor mafic microdiorite and hornblende diorite

### EARLY JURASSIC

#### LONG LAKE PLUTONIC SUITE



pink-orange weathering, rose to pink to white leucocratic, biotite hornblende quartz monzonite to granite; texturally heterogenous ranging from coarsely crystalline, potassium feldspar megacrystic rock, to finely crystalline equigranular rock; also occurs as cross-cutting pegmatic and aplitic dykes; coarse grained rocks are characterized by a subtle to well developed planar fabric



115-H-7

