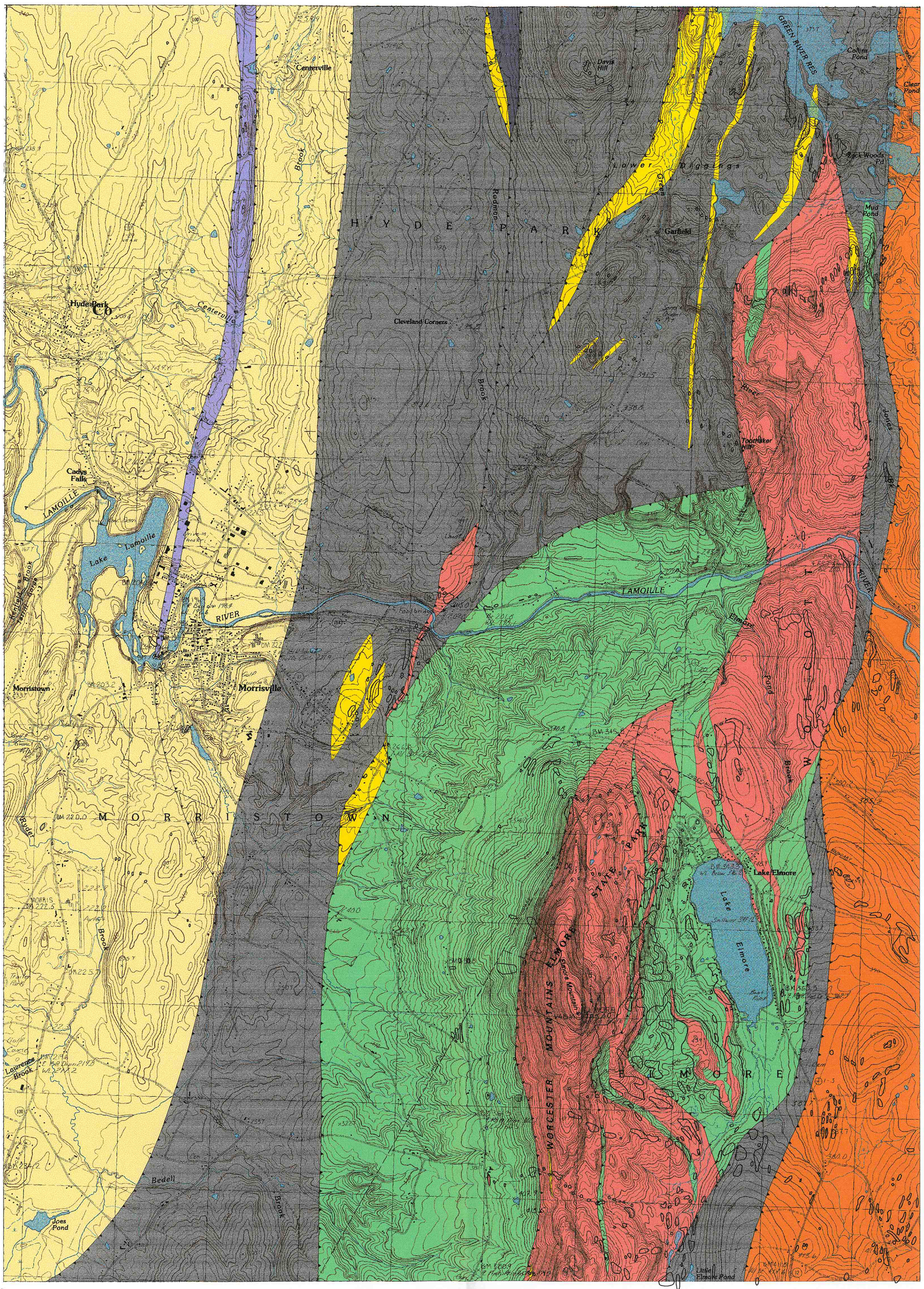
Vermont Geological Survey
Dept. of Environmental Conservation
Vermont Agency of Natural Resources
Waterbury, Vermont

VGS Open File Report VG 98-2

72 37' 30" 72 30'

44 37' 30" 44 37' 30"



44 30' 44 30'

72 37' 30" 72 30'

1 0 1 2 Kilometers

Scale - 1:24,000
Contour Interval - 6 Meters

Bedrock Geology of the Morrisville Quadrangle

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Lithologic Units

Moretown Formation

Om Interlayered dark-green and grayish-green quartzose phyllites and quartzo-feldspathic granofels, spaced cleavage in these units gives them a "pinstriped" appearance. Greenstones and metadiabasic intrusives occur locally.

Stowe Formation

CZSggp Grayish-green quartzose phyllites containing numerous floating hingelines of vein quartz, composed primarily of quartz, sericite, and chlorite; locally contains magnetite

CZSgr Dark apple green often punky-weathering and weakly calcareous greenstone, composed of chlorite, albite, epidote, and quartz +/- actinolite, magnetite. locally interlayered with grayish-green phyllites.

CZSes Elmore Schist Member; Silvery muscovite-quartz-chlorite +/- garnet, kyanite, chloritoid schist; garnet and kyanite are retrograded to chlorite and white mica, respectively. Thin greenstones and amphibolites occur throughout.

CZSea Elmore Amphibolite; dark green to black fine to medium-grained generally massive-weathering, hornblende-plagioclase - epidote - chlorite +/- garnet amphibolite, thin interlayers of schist occur locally.

Ottauquechee Formation

Co Undifferentiated; Rusty-weathering, gray to black, carbonaceous to graphitic often pyritiferous phyllites with subordinate grayish-green phyllites; gray, massive granular quartzites; and gray phyllitic granofels.

Cobp Rusty-weathering, gray to black, carbonaceous to graphitic often pyritiferous phyllites.

Cobpcg Rusty-weathering, gray to black, carbonaceous to graphitic often pyritiferous phyllites with rusy-weathering calcareous granofels and thin greenstones.

Comtggp Silvery grayish-green phyllitic granofels with magnetite and local thin brownish dolomitic layers.

Thrust Faults

Outcrop Locations