

**CURRIE TOWNSHIP**  
DISTRICT OF COCHRANE, ONTARIO

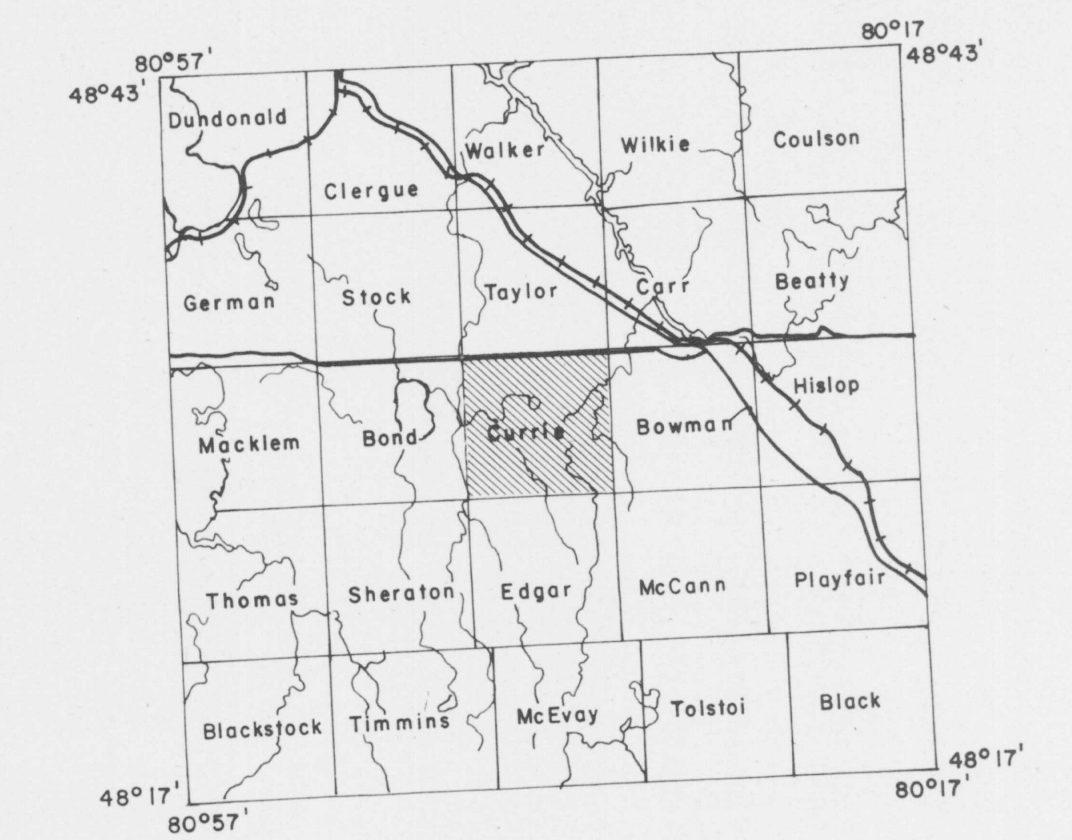


TABLE OF LITHOLOGICAL UNITS  
KIRKLAND LAKE DATA SERIES

CENOZOIC	
PLEISTOCENE AND RECENT	
18a	ORGANIC DEPOSITS Clay and semi-soft bogs
18b	COCHRANE DEPOSITS Clay till
18c	BARLOW-GIBBY DEPOSITS Varved sediments
18d	GLACIO-FLUVIAL DEPOSITS Sandy and gravel deposits
18e	GLACIO-FLUVIAL DEPOSITS Sandy and gravel deposits
18f	GLACIO-FLUVIAL DEPOSITS Sandy and gravel deposits
18g	GLACIO-FLUVIAL DEPOSITS Sandy and gravel deposits
18h	GLACIO-FLUVIAL DEPOSITS Sandy and gravel deposits
18i	GLACIO-FLUVIAL DEPOSITS Sandy and gravel deposits
18j	GLACIO-FLUVIAL DEPOSITS Sandy and gravel deposits
UNCONFORMITY	
MESOZOIC	
17	Kimberlite
INTRUSIVE CONTACT	
PALEOZOIC	
LOWER AND MIDDLE SILURIAN	
16a	Clinton (Thebes) Formation: limestone, dolomite, sandstone
16b	Wabi Formation: limestone, shale
MIDDLE AND UPPER DEVONIAN	
15a	Shedden Point Formation: shale
15b	Farr Formation: limestone
15c	Hoke Formation: limestone, shale
15d	Outages Formation: sandstone
UNCONFORMITY	
PRECAMBRIAN	
LATE PRECAMBRIAN (PROTEROZOIC)	
14	Mafic intrusive rocks
INTRUSIVE CONTACT	
MIDDLE PRECAMBRIAN (PROTEROZOIC)	
13	Alkaline intrusive rocks
12	Mafic intrusive rocks
INTRUSIVE CONTACT	
EARLY PRECAMBRIAN (ARCHEAN)	
11	Mafic intrusive rocks
INTRUSIVE CONTACT	
ALKALINE INTRUSIVE ROCKS	
8	Syenite, monzonite, lamprophyre
INTRUSIVE CONTACT	
ALKALINE METAVOLCANICS	
7	Trachyte, andesite, trachyte, flows, tuff, breccia
METASOMATITES	
6	Amphibolite, gneiss, schist, slate, argillite, iron formation
5	Gneiss, schist, slate, iron formation
FELSIC INTRUSIVE ROCKS	
4	Granite, quartzite, gneiss
3a	Quartz porphyry, quartz-feldspar porphyry, felsite
3b	Trondhjemite, granodiorite, quartz monzonite, diorite, gabbro, and syenite
3c	Trondhjemite, granodiorite, quartz monzonite, quartz diorite, syenite, pegmatite, migmatite, complex batholiths
INTRUSIVE CONTACT	
FELSIC METAVOLCANICS AND VOLCANICS	
2	Undifferentiated, rhyolite
1a	Iron formation and ferrous chert
1b	Flows
1c	Pyroclastic rocks
INTRUSIVE CONTACT	
METAMORPHIC MAFIC AND ULTRAMAFIC INTRUSIVE ROCKS	
1	Undifferentiated
2a	Gabbro, diorite
2b	Peridotite, dunite, pyroxenite, serpentinite
INTRUSIVE CONTACT	
INTERMEDIATE AND MAFIC METAVOLCANICS	
1	Undifferentiated diorite, andesite, and basalt
2	Intermediate flows
3	Intermediate pyroclastic rocks
4	Mafic flows
5	Mafic pyroclastic rocks

Scale: 1 inch to 1/4 mile

LOGICAL AND MINING SYMBOLS FOR KIRKLAND LAKE DATA SERIES

□	Glacial scree	○	Drill hole; (projected vertically). Overburden shown.
▤	Esker, medial ridge	○	Drill hole in overburden only; (vertical or collar, inclined). Overburden shown.
▥	Small bedrock outcrop	○	Shaft; depth in feet.
▧	Bedding, top unknown; (inclined, vertical)	○	Mineral occurrence at surface.
▨	Bedding, top (arrow) from grain orientation; (inclined, vertical, overturned)	○	Airborne electromagnetic anomaly (Canadian Aero System).
▩	Bedding, top (arrow) from cross bedding; (inclined, vertical, overturned)	○	Airborne electromagnetic anomaly (Quarter Channel Input System).
▪	Lava flow; top (arrow) from pillow shape and packing	○	2 channel response.
▫	Schistosity; (horizontal, inclined, vertical)	○	3 channel response.
▬	Discontinuity; (horizontal, inclined, vertical)	○	4 channel response.
▭	Layering; (horizontal, inclined, vertical)	○	5 channel response.
▮	Lineation with plunges	○	6 channel response and coincident magnetic anomaly.
▯	Geological boundary, observed	○	Airborne magnetometer anomaly.
▰	Geological boundary, position interpreted	○	Ground magnetometer anomaly.
▱	Geological boundary, deduced from geophysics	○	Ground electromagnetic conductor (EM-Loop; HEM-Loop; VLF-Very low freq; Turam; JEM-Crone EM-16).
▲	Fault; (observed, assumed). Spot indicates down throw side, arrow indicates horizontal movement.	○	Induced Polarization anomaly
△	Lineament	○	Spontaneous Polarization anomaly
▴	Jointing; (horizontal, inclined, vertical)	○	Gravity anomaly
▵	Drag folds with plunges	○	Radiometric anomaly
▾	Anticline, syncline, with plunges	○	Resistivity anomaly

METAL AND MINERAL REFERENCE  
For Kirkland Lake Data Series

Ag	Silver	Mo	Molybdenite
As	Asbestos	Ni	Nickel
Au	Gold	Pb	Lead
Cd	Cadmium	Pd	Palladium
Co	Cobalt	Pt	Platinum
Cr	Chalcopyrite	Py	Pyrochlore
Cu	Chromite	Py	Pyrite
Fe	Copper	Qz	Quartz-carbonate vein
Fe	Epidote	Qz	Quartz vein
Fe	Fluorite	Serp	Serpentine
Fe	Fluorite	Sph	Sphalerite
Ga	Garnet	Spec	Specularite
Ga	Garnet	Talc	Talc
Mag	Magnetite	Zn	Zinc
Mn	Muscovite		
Ml	Millerite		

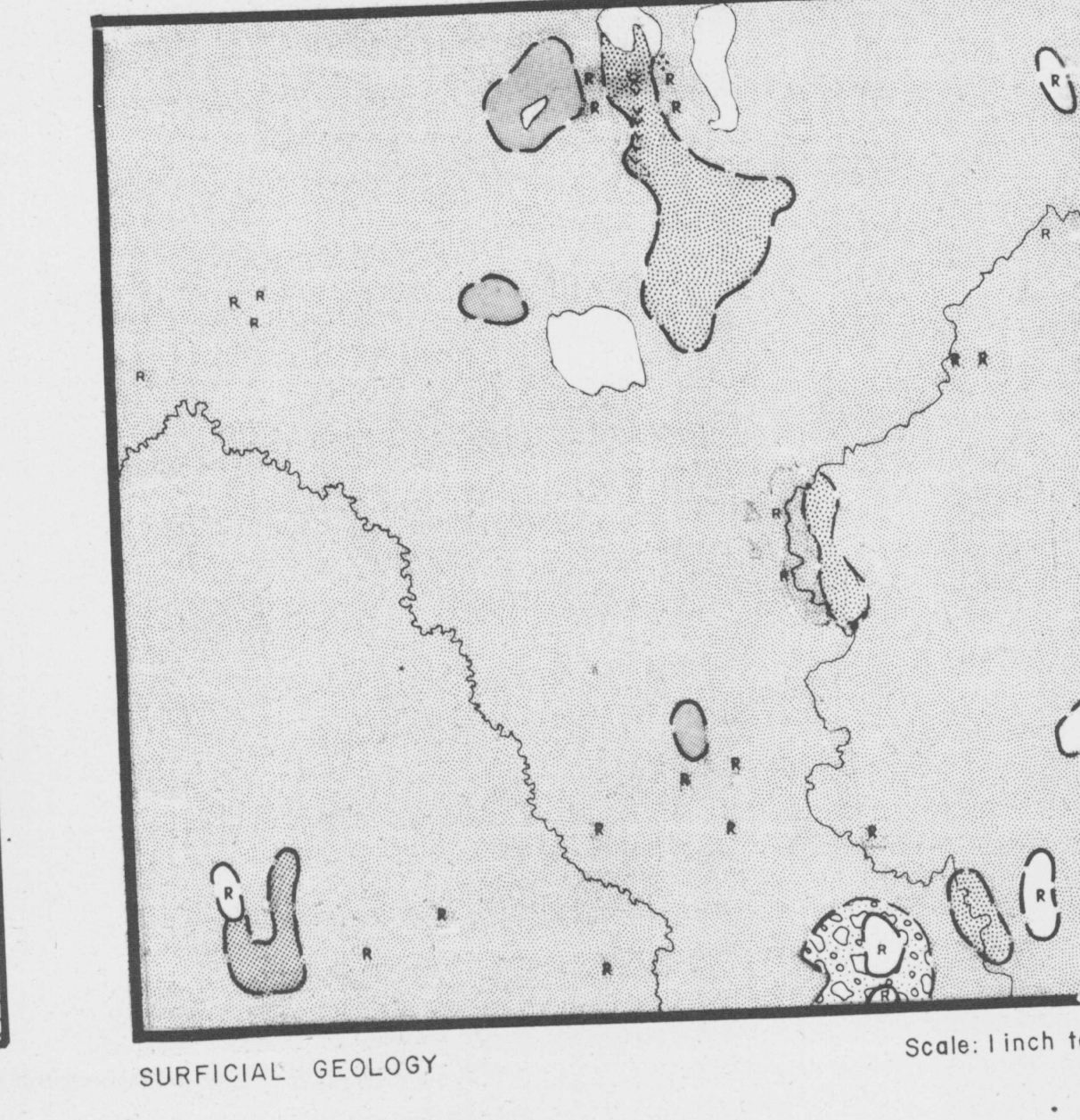
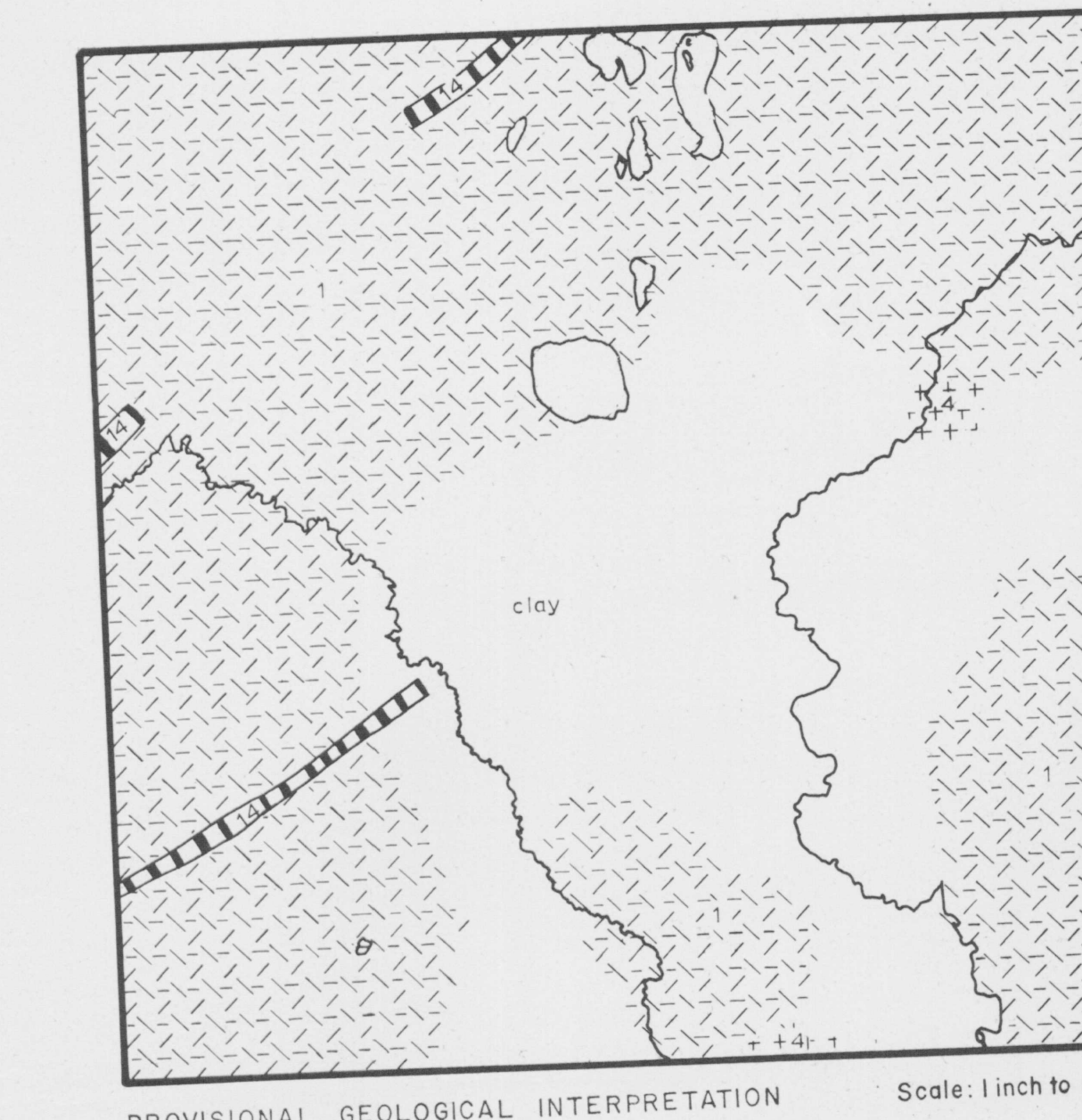
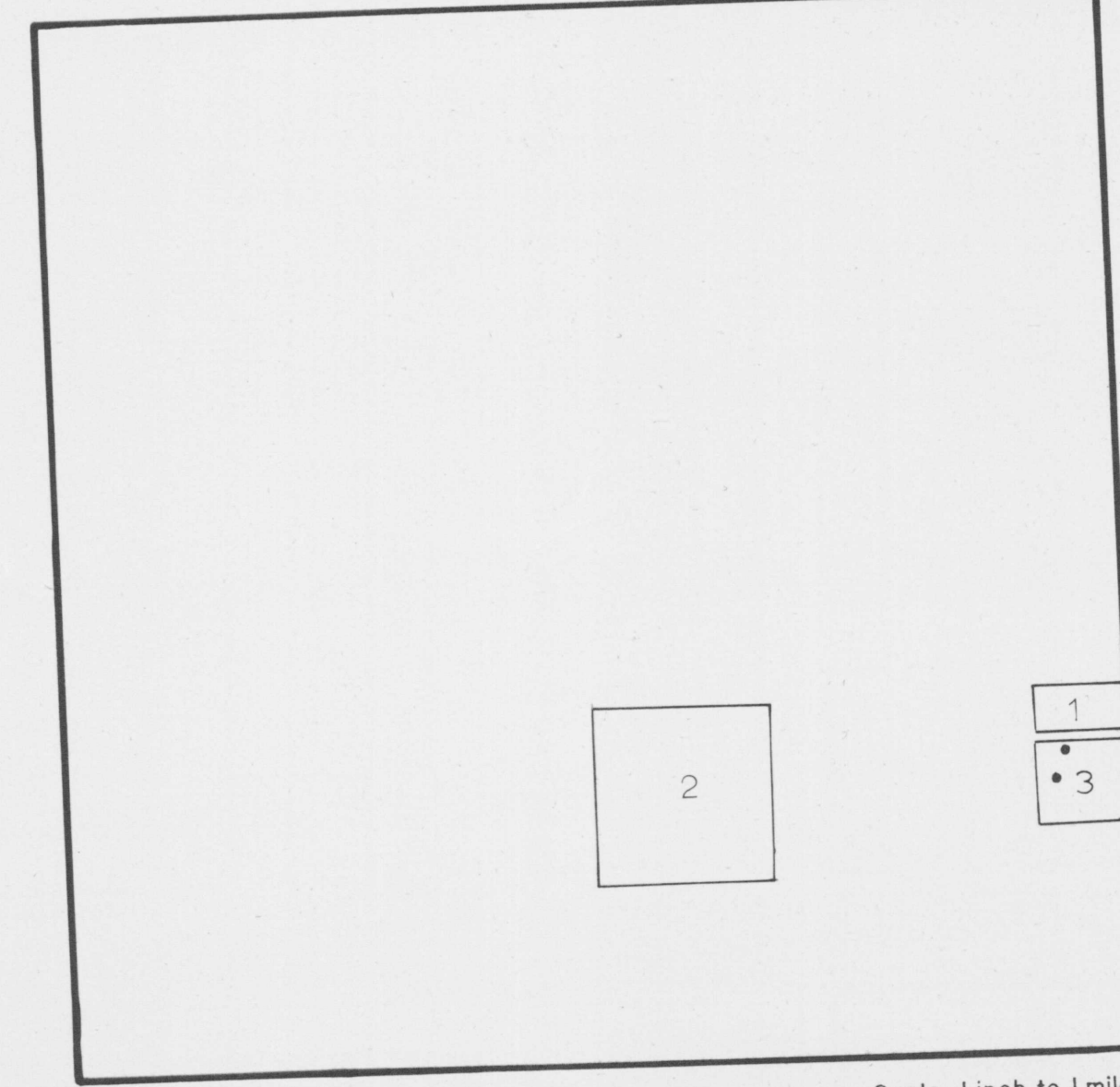
Sources of Information  
Compiled by the Geological Survey of Canada in co-operation with the Ontario Department of Mines and Northern Affairs from data on file with the Resident Geologist (Ontario Department of Mines and Northern Affairs), Kirkland Lake.

NTS Reference L2 A/7, L2 A/10  
CGM-200 Aeromagnetic Maps 2000 (rev.), 2005 (rev.)  
CGM Geological Compilation Series Map 2006  
CGM Geological Map 2007  
CGM Geological Report No. 10  
CGM Geological Survey Maps 45-1959, 1-1960

DATA FILED WITH THE  
ONTARIO DEPARTMENT OF MINES  
AND NORTHERN AFFAIRS  
RESIDENT GEOLOGIST  
AT KIRKLAND LAKE  
Through March 31st, 1972

	LOGICAL	DIAMOND DRILLING	AIRBORNE MAGNETOMETER	AIRBORNE ELECTROMAGNETOMETER	GROUND MAGNETOMETER	VERTICAL LOOP ELECTROMAGNETOMETER	HORIZONTAL LOOP ELECTROMAGNETOMETER	TURAM ELECTROMAGNETOMETER	JEM	INDUCED POLARIZATION	VLF	RESISTIVITY	GRAVITY	GEOCHEMICAL	OTHERS
1. Foster					6699		6698								500
2. Midrim Mining Company Ltd.			70												
3. Turney, Walter J.															

• Assay and shallow pits  
•• Many anomalies reported but not mapped



OPEN FILE  
104  
JUN 1972  
GEOLOGICAL SURVEY  
OTTAWA