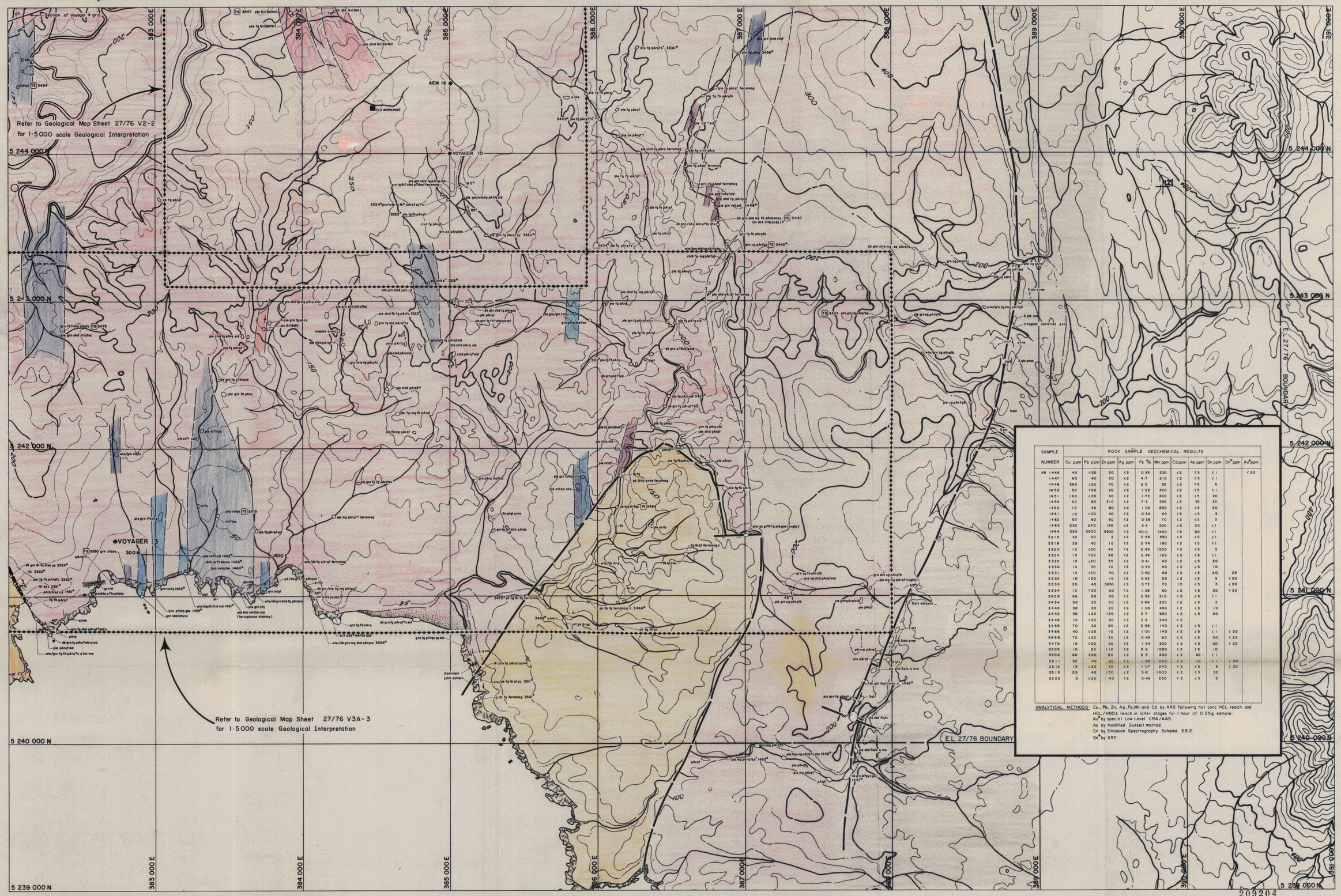

SAMPLE NUMBER	Cu ppm	Pb ppm	Zn ppm	Ag ppm	Fe %	Mn ppm	Cd ppm	As ppm	Sn ppm	Sn* ppm	Au** ppm
	ROCK SAMPLE GEOCHEMICAL RESULTS										
KR 1446	40	<20	20	<2	0·35	230	<2	<5	<1		<20
1447	60	40	30	<2	4·7	210	<2	<5	<1		
1448	560	<20	70	<2	2·5	55	<2	<5	5		
1450	50	<20	20	<2	1·22	320	<2	<5	<1		
1451	190	<20	40	<2	1·72	400	<2	<5	20		
1459	20	80	310	<2	7·3	390	<2	35	20		
1460	10	40	80	<2	1·02	550	<2	<5	20		
1461	10	<20	40	<2	0·54	40	<2	<5	3		
1462	50	90	60	<2	0·38	70	<2	<5	5		
1463	230	240	160	<2	3·4	200	<2	20	<1		
1464	350	3850	6500	<2	40·0	1400	<5	80	<1		
3312	20	20	2	<2	0·58	550	<2	<5	<1		
3318	35	40	10	<2	0·74	190	<2	<5	<1		
3320	10	<20	40	<2	0·83	1500	<2	<5	5		
3324	15	<20	40	<2	0·49	120	<2	<5	<1		
3325	10	<20	35	<2	0·41	40	<2	<5	20		
3330	10	30	10	<2	0·33	50	<2	<5	10		
3331	15	<20	40	<2	0·60	60	<2	<5	20	25	
3332	10	<20	10	<2	0·63	55	<2	<5	5	<20	
3333	20	40	3650	<2	0·72	70	15	<5	3	<20	
3334	10	<20	20	<2	1·28	60	<2	<5	20	<20	
3428	60	60	30	<2	0·92	310	<2	<5	<1		
3434	30	20	50	<2	0·96	230	<2	<5	3		
3440	30	20	20	<2	1·04	450	<2	<5	10		
3442	30	<20	120	<2	2·7	850	<2	<5	30		
3448	10	<20	30	<2	2·2	240	<2				
3458	70	20	90	<2	0·99	140	<2	<5	<1		
3466	40	<20	10	<2	1·01	140	<2	<5	<1		<20
3468	70	<20	20	<2	0·49	60	<2	<5	20		<20
3470	10	<20	20	<2	1·34	300	<2	<5	20		<20
3505	10	20	110	<2	3·6	1050	<2	<5	10		
3506	60	200	80	<2	2·5	400	<2	60	<1		
3511	30	40	20	<2	1·55	260	<2	10	<1		<20
3512	10	<20	30	<2	1·07	240	<2	<5	5		<20
3513	25	40	150	<2	3·8	1400	<2	<5	30		
3523	5	<20	40	<2	0·46	230	<2	<5	5		

ANALYTICAL METHODS: Cu, Pb, Zn, Ag, Fe, Mn and Cd by AAS following hot conc HCL leach and HCL/HNO3 leach in latter stages for 1 hour of 0·25g sample.
Au** by special Low Level CRA/AAS.
As by modified Gutzeit method.
Sn by Emission Spectrography Scheme ES2.
Sn* by XRF.

209204

OPERATION OF LEGEND:

1. Capital letter — indicates primary classification eg. S = sedimentary rock, A = acid rock; M = basic rock
2. Lower case letters — indicate the following
   (i) Colours — e.g. pk/grn = pink fragments in an acid igneous rock with a green matrix.
   (ii) Textural or structural features — e.g. xtk = crystal tuff of acid composition, e.g. pR = porphyric acid rock, e.g. andA = andesed acid rock.
3. As suffixes in progressive order:
   (i) Categories — e.g. pArf = rhyolite, e.g. Ia = intermediate rock of andesitic composition.
   (ii) Mineralogy — e.g. pArf = porphyrite (rhyolite) with feldspar phenocrysts, e.g. lxt f/b = lithic crystal tuff with feldspar (phenocryst component) and biotite (prominent matrix component), e.g. lxt f/q = lithic crystal tuff with (major) feldspar crystals and (minor) quartz crystals, e.g. fb.mg.pArqfh (black hawks inflow banded porphyritic rhyolite with quartz (minor phenocryst component, size range 1mm - 5mm), feldspar (minor phenocryst component), sericite (prominent matrix component), and black specks (minor undifferentiated accessory minerals).

NOTE: This map has been compiled from enlargements of the Tasmanian Lands Department's 1:15840 scale topographic machine plots.

SYMBOLS:

HOMEOUS:
A acid igneous unclassified
Ar rhyolite
I intermediate igneous unclassified
Ia andesite
Id dacite
M basic igneous unclassified
Mv basalt
Md dolerite
Gr granite

SEDIMENTARY:
Sah shale
Sslt siltstone
Sst sandstone
Sqtz quartzite
Sgongl conglomerate
Sv volcaniclastic sediment

STRUCTURAL and TEXTURAL:
t tuff unclassified
lt lithic tuff
xt crystal tuff
vt vitric tuff
fb flow banding
p porphyritic
clvd cleaved
shd sheared
ox oxidised
vns veins
lam laminated
brec brecciated
sch schistose

GRAIN SIZE:
fg fine grained (<1mm)
mg medium grained (1mm - 5mm)
cg coarse grained (5mm - 5cm)

STRUCTURAL:
outcrop limit
rubble boundary
interpretative contact
bedding
joint
crevasse
primary foliation
fault
unconformity

COLOURS:
pk pink
grn green
brn brown
ple pale
dk dark
wte white
gry grey
pur purple

SILICATE MINERALOGY:
q quartz
f feldspar
mus muscovite
b biotite
c chlorite
s sericite
cb carbonate
mafics mafics
hb hornblende
sil silicified
ferromag ferromagnesian

SULPHIDE MINERALOGY:
x sulphides
py pyrite
cpy chalcopyrite
gn galena
hm hematite
mag magnetite
gos gossan
lim limonite

MISCELLANEOUS:
TS 3033 Thin section and rock No.
* 1112 Geochemical analysis and rock No.
Grid traverse
Anomaly centre (approximate)
Old workings
Composite

GEOLOGICAL INTERPRETATION:

Period No.			
19-1		TERT.	(Macquarie Beds)
19-6		L. ORDO.	Conglomerate (Owen type), sandstones. (Scongl, Sst)
19-50	Ia		Andesite
19-87	M		Basic dyke
19-10	uE ?		Granite (Gr)
19-13	E		Sandstone (Sst)
19-17	E		Fine grained volcaniclastic sediments. (fg Sv(sst), Sv(Sah))
19-18	E		Coarse grained sedimentary breccia (cg S(brec))
19-19	E		Porphyritic quartz - feldspar rhyolite lava. (fbpArqf)
19-21	E		Feldspar - quartz - biotite porphyry. (cg pArfqb)
19-24	E		Rhyolitic vitric pyroclastics. Vitric tuff, vitric crystal tuff (xtq, vxtq)
19-28	E		Rhyolitic crystal pyroclastics. Crystal tuff, crystal lithic tuff (xtq, xltqf)
19-32	E		Rhyolitic lithic pyroclastics. Lithic tuff, lithic crystal tuff, lithic vitric tuff, (lq(ltqf, mglatqf, lvtqf)
19-70	PRE E		Undifferentiated quartzite, quartz mica schist. (Sqtz, fglomsch Sah mus.)

GEOPEKO LIMITED
KING ISLAND GROUP

SCALE: 1:10,000

DATE: AUGUST 1978
GEOLOGIST: C.D.S.
DRAWN: J.P.M.
CHECKED: CSH.

78-1314

E.L. 27/76
ELLIOTT BAY, TASMANIA
GEOLOGICAL MAP

5 cm

003

No. KT27/76-8A

KT27/76 - 1	KT27/76 - 2
KT27/76 - 3	KT27/76 - 4
KT27/76 - 5	KT27/76 - 6
KT27/76 - 7	KT27/76 - 8