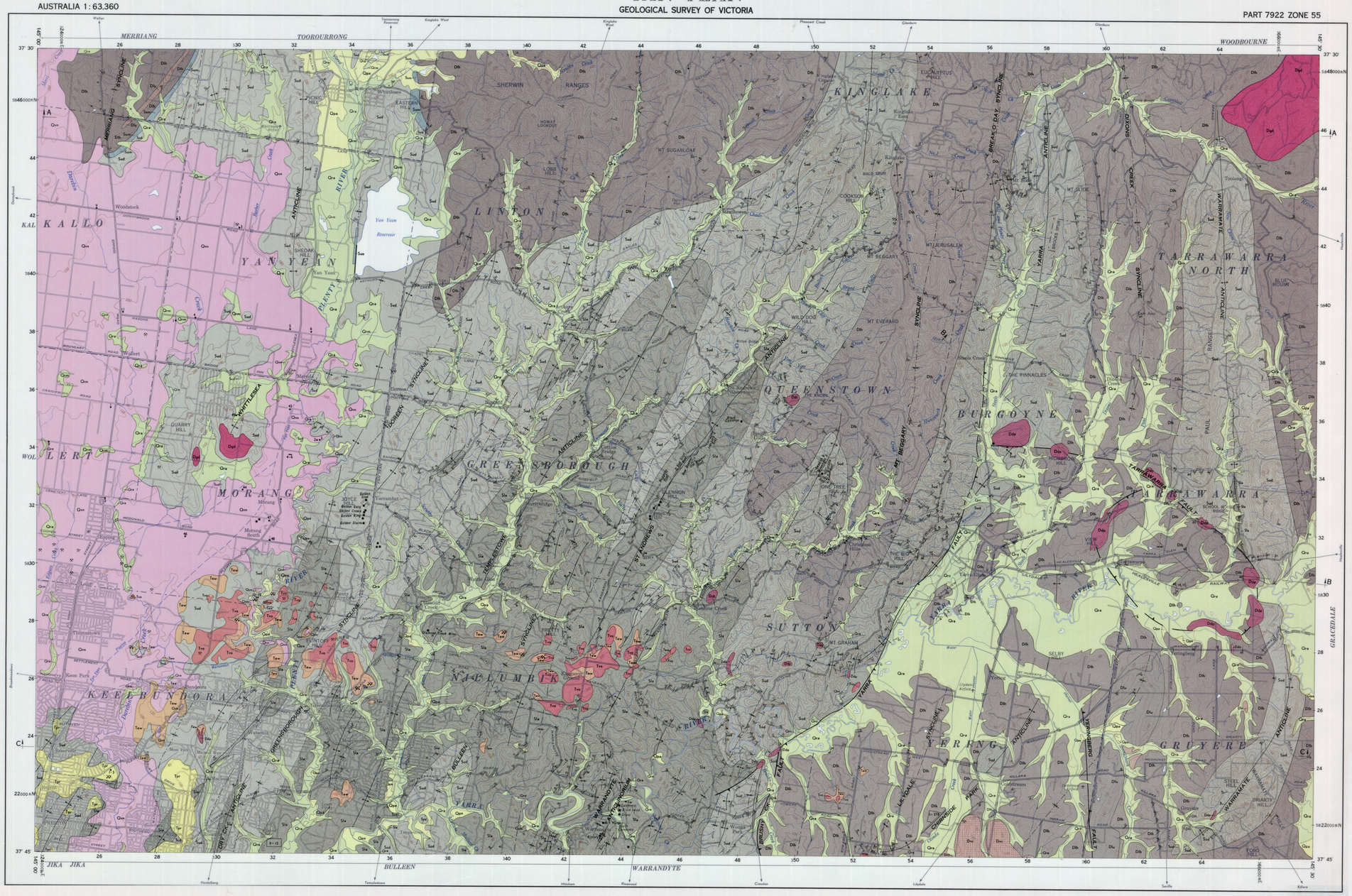
AUSTRALIA 1:63,360

YAN YEAN

GEOLOGICAL SURVEY OF VICTORIA

PART 7922 ZONE 55



			SEDIMENTARY: Colluvial	Alluvial	Paludal	Marine	IGNEOUS: Extrusive	Intrusive		
Quaternary	Recent		Qrc	Qra	Qrm				Qra	River alluvium; sand, silt, clay, minor gravel
									Qrm	Swamp deposits; silt, clay, black mud
									Qrc	Fan deposits; sand, silt, gravel
	Pleistocene			Qpa					Qpa	High-level alluvium; sand, silt, gravel
							Qvn		Qvn	Newer Volcanics: Olivine basalt; vesicular, fine to medium grained
Tertiary	Pliocene	Kalimnan Dalhousieans			Tpr				Tpr	Gravel, sand, sandy clay, clay; sand and gravel locally altered to quartzite. Equivalent in part to Brighton Group
	Miocene						Tvo		Tvo	Older Volcanics: Olivine basalt, titanaugite basalt, dense, fine grained. Includes Greensborough Phase
	Oligocene							Tvp		
	Eocene		Tew						Tew	Sand and gravel, poorly sorted, sub-Older Volcanic. Equivalent in part to Werribee Formation
			Major unconformity							
Devonian	Upper						Ddt		Ddt	Quartz diorite
							Dgd		Dgd	Granodiorite
							Ddp		Ddp	Quartz and/or felspar porphyry
							Dvc		Dvc	Coldstream Rhyolite (= 'Upper' and 'Lower' Toscanite): Rhyolite, several flows, dense, often finely flow banded with interbedded fragmental rhyolites
			Major unconformity							
Devonian	Lower	Emsian					Dlu		Dlu	Cave Hill Formation: Thick bedded sandstone and quartzite
		Siegenian					Dlh		Dlh	Humevale Formation: Siltstone, massive to thin bedded, with minor sandstone near the base; hornfels in metamorphic aureoles
		Gedinnian					Dly		Dly	Limestone Member; (Kozmiposro band). limestone, calcareous sandstone, fossiliferous
Silurian		Ludlovian					Ssd		Ssd	Dargile Formation: Sandstone, laminated and current bedded, with interbedded siltstone and shale, hornfels in metamorphic aureoles near Quarry Hill
		Wenlockian					Ssm		Ssm	Mount Phillips Member; Micaceous fossiliferous sandstone
		Llandoverian					Sse		Sse	Mudstone Member, fossiliferous. (Aegirtia-Cocinorus band)
							Sla	Sla	Sla	Anderson Creek Formation: Siltstone, massive, with localized groups of massive laminated and current bedded greywacke
							Kinglake District	Lilydale District		

Geological boundary
Fault
Anticline
Syncline
Fossil locality
Strike with dip
Shaft or adit
Quartz reef (auriferous)
Conglomerate bed
Government bore
Dyke
Zone of metamorphism
Eruption point
Radiometric age (in million of years)
Highway, main road with route marker
Other roads
Railway line and station
Parish boundary
Parish name — JIKA
Trig. station
Bridge
Quarry
Sand pit
Clay pit
Watercourse
Water channel, drain
Pipeline
Contours

INDEX TO ADJOINING SHEETS

WOODEND 7823	YEA 7923 *Kinglake*	ALEXANDRA 8023
Sunbury MELBOURNE 7822 *Melbourne*	Yan Yean RINGWOOD 7922 *Ringwood*	HEALESVILLE 8022
SORRENTO 7821	WESTERN PORT 7921	WARRAGUL 8021

NAMES IN ITALICS ARE OF THE FORMER ZONE 7, AUSTRALIA SERIES

In the centre of the sheet Grid North is 1°24'18.4" east of True North and the magnetic declination from True North is approximately 12°22'

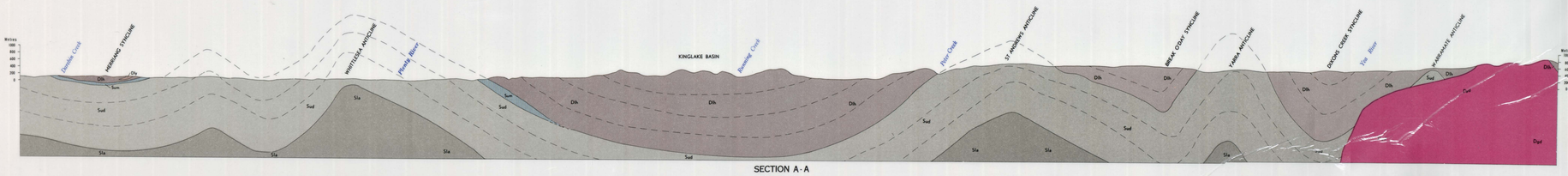
CHAINS 80 40 0 1 2 3 4 MILES

METRES 1000 500 0 1 2 3 4 5 6 KILOMETRES

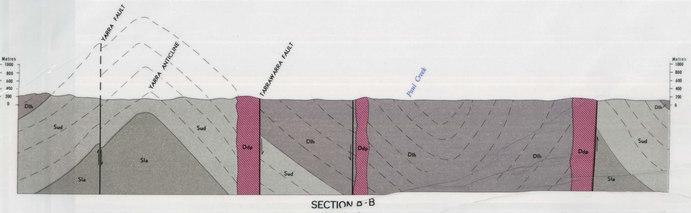
CONTOUR INTERVAL 20 METRES
VERTICAL DATUM IS BASED ON LOW WATER MARK, HOBSONS BAY

AUSTRALIAN MAP GRID - TRANSVERSE MERCATOR PROJECTION
HORIZONTAL DATUM - AUSTRALIAN GEODETIC DATUM 1966

NUMBERED TICKS INDICATE THE 2000 METRE UNIVERSAL TRANSVERSE MERCATOR GRID, ZONE 55, AUSTRALIAN NATIONAL SPHEROID
THE LAST THREE DIGITS OF THE GRID NUMBERS ARE OMITTED

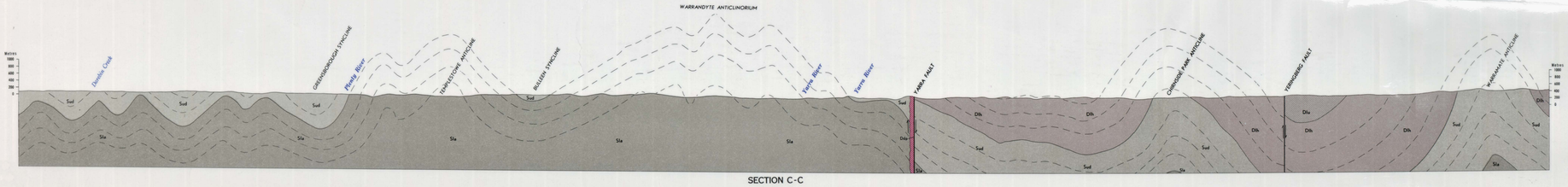


SECTION A-A
Natural scale



SECTION B-B
Natural scale

NOTE: Sections show bedrock geology only

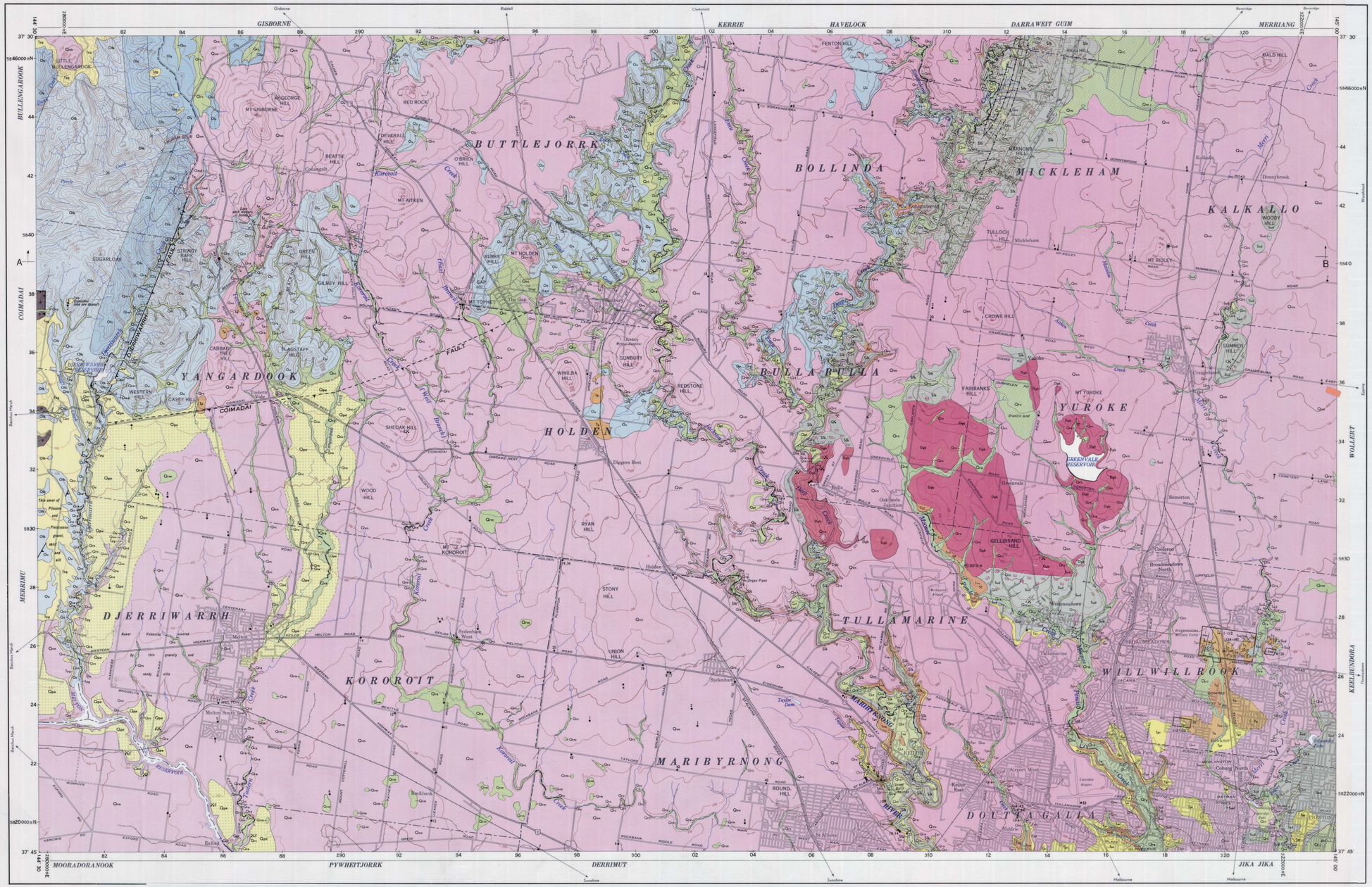


SECTION C-C
Natural scale

Revision and resurvey of geology of area by contributors by M.J. Garratt, M.Sc., F.G.S.
D. Spencer-Jones, B.Sc., Ph.D., Director of Geological Survey
Drawn for reproduction in the Mines Department, Melbourne, Victoria, by S. Weil,
under the direction of D. W. McInnes, M.A.I.C., Chief Draughtsman, 1971
Issued by E.J. Condon, LL.B., Secretary for Mines, under the authority of the Hon.
J. C. M. Balfour, M.L.A., Minister of Mines
C. H. Rixon, Government Printer, 1972

Geology revised and corrected 1981

YAN YEAN
PART 7922 ZONE 55



CHAINS 80 40 0 1 2 3 4 MILES

METRES 1000 500 0 1 2 3 4 5 6 KILOMETRES

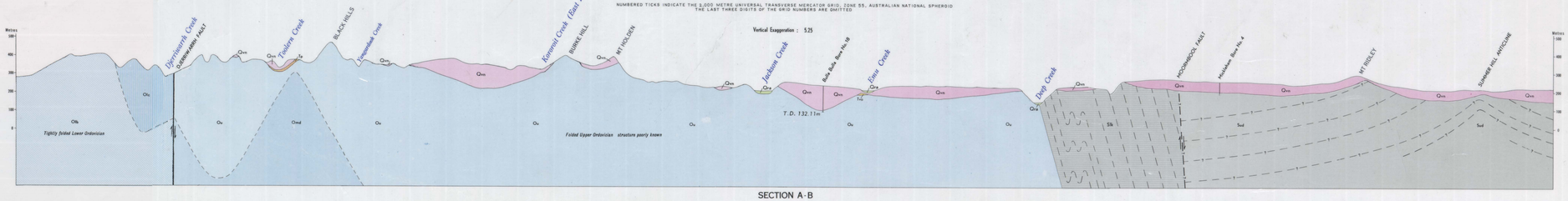
CONTOUR INTERVAL 50 FEET

VERTICAL DATUM IS BASED ON LOW WATER MARK, HOBSONS BAY

AUSTRALIAN MAP GRID - TRANSVERSE MERCATOR PROJECTION

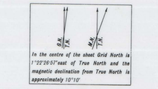
HORIZONTAL DATUM - AUSTRALIAN GEODETIC DATUM 1966

NUMBERED TICKS INDICATE THE 2,000 METRE UNIVERSAL TRANSVERSE MERCATOR GRID; ZONE 55, AUSTRALIAN NATIONAL SPHEROID
THE LAST THREE DIGITS OF THE GRID NUMBERS ARE OMITTED



SECTION A-B

Quaternary	Recent		Qra		Qra Alluvium. Sand, sandy silt, silt, gravel
			Qrs		Qrs Swamp deposits. Silt and clay
			Qrc		Qrc Colluvial deposits. Poorly to well sorted silt, sand and gravel
	Pleistocene		Qrt		Qrt Alluvial terrace deposits. Sand, gravel, sandy silt, clay
			Qpt		Qpt High-level terrace deposits. Silt, sand and gravel
			Qpe	Darley Gravel	Qpe Gravel, sand, gritty silt
			Qvn	NEWER VOLCANICS	Qvn Olivine basalt, minor limburgite, trachy-andesite, scoria, thin interbedded sand, clay and tuff
	Pliocene	Disconformity	Tpr	BRIGHTON GROUP — Red Bluff Sands	Tpr Sand and silt, minor interbedded gravel
			Tpg	Bullengarook Gravel	Tpg Poorly sorted gravel, sand, minor silt
			Tp		Tp Quartzite, gravel, sand, silt, rare tuff
Tertiary	Miocene	Disconformity	Tmn	Balcombian, Batesfordian — Newport Formation (Green Gully Limestone Member)	Tmn Polyzoal limestone, sandy limestone calcareous grit Fossiliferous ferruginous sandstone and grit
	Oligocene	Disconformity	Tvo	OLDER VOLCANICS	Tvo Olivine basalt, mostly weathered to plastic clay Weathered dyke rock
	Eocene	Disconformity	Te		Te Silt, sand, minor gravel
		Major Unconformity			
Permian	Lower		P		P Tillite
		Major Unconformity			
Devonian	Upper		Dgb	Bulla Granodiorite	Dgb Granodiorite
Silurian	Upper — Ludlovian	Sud		Dargile Formation	Sud Interbedded shale, mudstone and greywacke
	Middle — Wenlockian	Slk		KEILOR GROUP	Slk Interbedded shale, mudstone, greywacke and conglomerate
	Lower — Llandoverian				
Ordovician	Upper — Bolindian	Ou			Ou Interbedded shale and greywacke, minor grit horizons
	Eastonian				
	Gisbornian				
	Middle — Darriwilian	Omd			Omd
	Lower — Tapeenian	Oly			Oly
	Castlemainian	Olu			Olu Interbedded slate, greywacke and sandstone Subdivision based on graptolites
	Chewtonian				
	Bendigonian	Olb			Olb



INDEX TO ADJOINING SHEETS

CASTLEMAINE 7723 Daylesford	WOODEND 7823 Lancefield	TALLAROOK 7923 Kinglake
Ballan BACCHUS MARSH 7722 Meredith	Sunbury MELBOURNE 7822 Melbourne	Yan Yean RINGWOOD 7922 Ringwood
GEELONG 7721	SORRENTO 7821	WESTERN PORT 7921

ALTERNATIVE NAMES

Mt Yuroke	Aitken Hill
Mt Kororoit	Mt Misery
Taylor Creek	Green Gully
Little Bullengarook	Haines Hill

Geological boundary
Flow boundary
Fault
Fault, subsurface
Anticline
Syncline
Fossil locality
Strike with dip
Conglomerate bed
Basic dyke
Zone of metamorphism
Eruption point
Radiometric age in millions of years (K/Ar method)
Government bore
Highway, main road, with route marker
Other roads
Railway line and station
Parish boundary
Parish name — MERRIMU
Trigonometric station
Sandstone unit
Quarry
Gravel pit
Clay pit
Sand pit
Watercourse
Water channel, drain
Contours (50 feet interval)

Geology mapped and compiled by A.H.M. Vandenberg, BSc, incorporating previous work by C.D.H. Aplin, G. Ball, M.A. Condon, W. Crawford, I. Crespin, A.B. Edwards, W. Hanks, W.J. Harris, A.V.G. James, R.A. Keble, P.R. Keeley, N. McLaurin, N.W. Schlinger, D. Spencer-Jones, C.M. Tattam, N. Taylor, D.E. Thomas, R.W.T. Wilkins

D. Spencer-Jones, BSc, PhD, Director of Geological Survey

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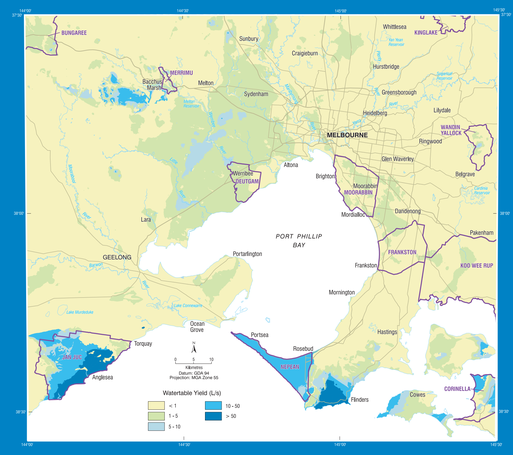
C.H. Rixon, Government Printer, 1973

MELBOURNE GROUNDWATER MAP

WATERTABLE YIELD (SURFACE AQUIFER)

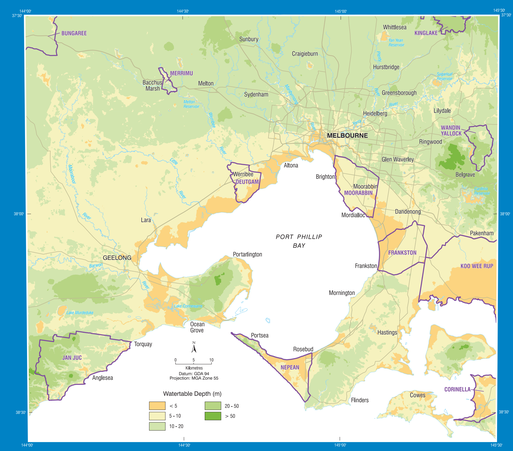


This map gives an estimation of how much water you can pump from the watertable aquifer from a single bore. The watertable aquifer is the first groundwater you reach when drilling a bore. The amount you can pump is known as the 'yield'.

The yellow and green areas show a relatively low yield. In these areas, the yield is probably suitable for household garden use. Blue areas show higher yields. Groundwater in these areas can be used for a greater variety of purposes.

The yield is estimated using the likely characteristics of the aquifer under continuous pumping for six months. The map does not take into account groundwater management issues, such as existing water allocations, bore interference or protection of groundwater dependent ecosystems. Before installing a bore, these issues would need to be considered and a licence would need to be obtained from the relevant rural water authority.

WATERTABLE DEPTH (SURFACE AQUIFER)



This map shows the depth to the watertable – how far you have to drill to reach groundwater.

The watertable is the point where water pressure equals air pressure, measured in metres below the ground's surface.

Watertable depth tends to reflect topography. Therefore in low lying areas and along river systems, the watertable is likely to be close to the surface (< 5m), while in areas of higher ground the watertable tends to be deeper (> 20m).

GLOSSARY

An **aquifer** is a layer of soil or rock where useable volumes of groundwater can be pumped.

A **Groundwater Management Unit (GMU)** is the way Victoria's groundwater resources are categorised and managed. GMU areas are determined by their similar characteristics, such as rock type or depth, or by similarities in their management rules.

Types of Groundwater Management Units:

- Water Supply Protection Areas are GMUs where a management plan is required because either the groundwater resource is recognised as being under stress, or the maximum allowable amount of water - the Permissible Consumptive Volume (PCV) - has been fully allocated;
- Groundwater Management Areas are GMUs that are currently, or potentially, highly productive groundwater resources. These areas are carefully monitored by the State Observation Bore Network and have a set PCV.
- Unincorporated Areas are GMUs where more research is needed to understand the volume and quality of a known groundwater resource.

The **Permissible Consumptive Volume** is the total amount of water that can be taken in a groundwater management unit under a Ministerial declaration.

Potable water is suitable for human consumption.

Salinity describes the salt content of water. The two most common methods of determining the salt content of water are Electrical Conductivity (EC) and Total Dissolved Solids (TDS). EC can be measured with a hand-held meter and the measurement units are usually expressed as micro Siemens per centimetre (µS/cm). TDS is measured by weighing the salts that remain when a measured volume of water is evaporated. TDS is expressed as milligrams per litre (mg/L). You can convert between the two methods with this formula: EC units x 0.6 = mg/L TDS.

The Melbourne Groundwater Map shows the occurrence of groundwater across the Greater Melbourne region.

Groundwater is part of the water cycle. It is located beneath the earth's surface in pores and crevices of rocks and soil. Because it can't be seen, there are different challenges in quantifying and managing groundwater compared to surface water.

This map is intended to help current and potential groundwater users, resource managers and the general community to make decisions about groundwater. The glossary in the bottom left-hand corner will help you use this information.

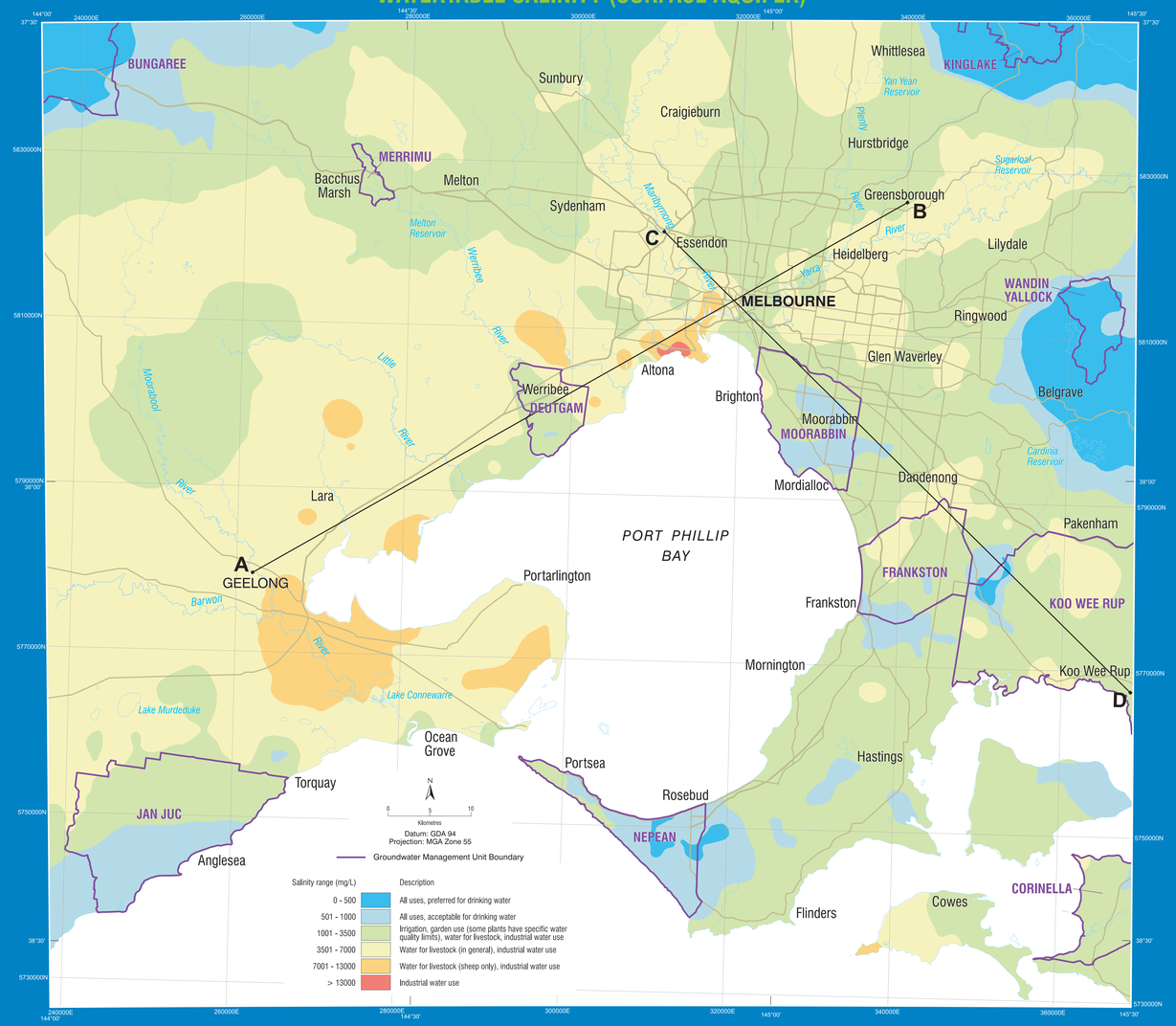
The information in this map will help determine if the yield and quality of groundwater is suitable for the intended use, whether the quality and yield improves with depth and the estimated depth a bore may need to be drilled to access groundwater.

Salinity or salt content can be used as a guide to what the groundwater can be used for. However, it is recommended that before use groundwater should be tested by an environmental laboratory.

The more saline groundwater is, the less useable it is. Salinity levels of more than 1000 milligrams per litre of dissolved salt are generally not recommended for drinking water supplies.

The Melbourne Groundwater Map has been prepared by Sinclair Knight Merz with the support and co-operation of the Smart Water Fund and the Department of Sustainability and Environment. Further information, including additional project material, can be found at **www.ourwater.vic.gov.au** or **www.smartwater.com.au.**

WATERTABLE SALINITY (SURFACE AQUIFER)



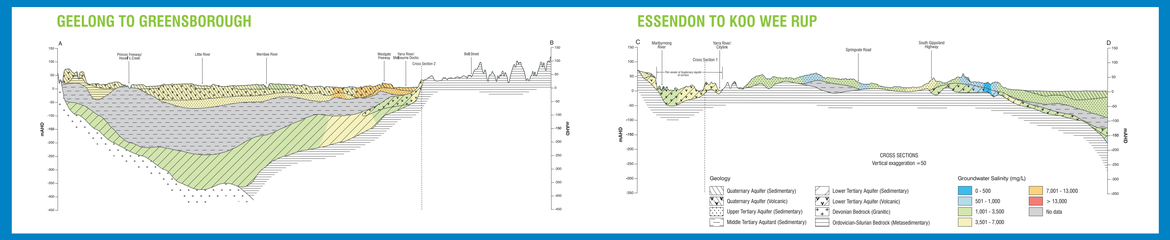
The material that makes up the watertable aquifer is highly variable across the mapped area. It includes loose sand and gravel, fractured basalt, sandstone, shale and some granitic material.

The map shows the most current salinity data for the watertable aquifer, expressed as milligrams per litre of dissolved salt. The different colours show the suitable use of each area's groundwater. Use the colour-coded key to help read the map.

SECTIONS THROUGH THE EARTH

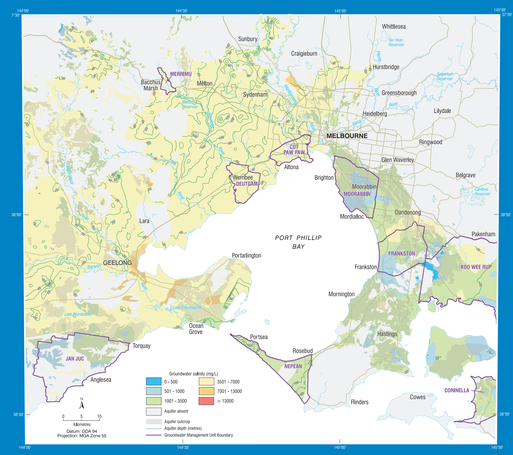
The sections through the earth diagram shows the relationship between the layers that make up the aquifers and the salinity of the groundwater within the layers. They cover areas from Geelong through to Greensborough (A to B), and from Essendon to Koo Wee Rup (C to D).

GEELONG TO GREENSBOROUGH



ESSENDON TO KOO WEE RUP

UPPER AQUIFER SALINITY AND DEPTH

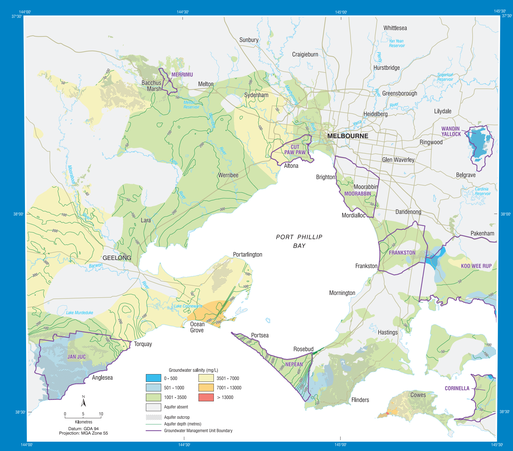


Aquifers occur in layers beneath the ground. The Upper Aquifer, shown in this map, is beneath the watertable aquifer. The Upper Aquifer is largely made up of clay, silt, gravel and sand.

The map shows the salinity of groundwater in the Upper Aquifer (shown by the colours) and how far you would need to drill to get to it (shown by the contour lines). The salinity is in milligrams per litre of dissolved solids, and the depth is in metres.

How the layers that make up the aquifers relate to each other is shown in the Sections Through The Earth diagram at the bottom of this poster.

LOWER AQUIFER SALINITY AND DEPTH



Deeper down beneath the Upper Aquifer is the Lower Aquifer, which is largely made up of clay, silt, sand, gravel, coal and basalt.

The map shows the salinity of groundwater in the Lower Aquifer (shown by the colours) and how far you would need to drill to get to it (shown by the contour lines). The salinity is in milligrams per litre of dissolved solids, and the depth is in metres.

How the layers that make up the aquifers relate to each other is shown in the Sections Through The Earth diagram at the bottom of this poster.

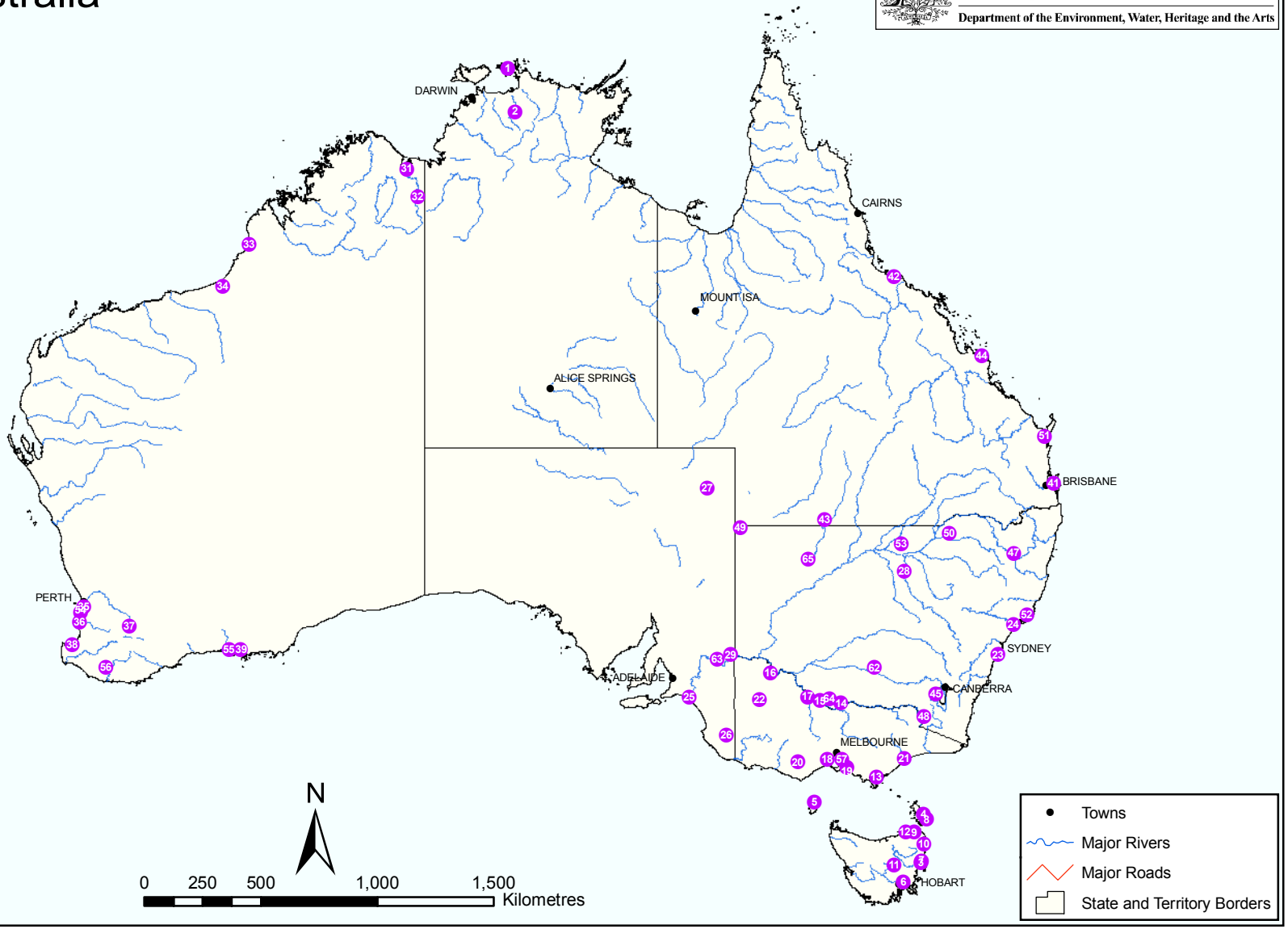
ACKNOWLEDGEMENT Sinclair Knight Merz acknowledges the support of the Smart Water Fund in funding this project.

SINCLAIR KNIGHT MERZ SKM Smart Water Fund Our Water Our Future Victoria The Place To Be

V081202

Ramsar wetlands of Australia

Australian Government
Department of the Environment, Water, Heritage and the Arts



Source:

Towns, Rivers and Roads:
© Geoscience Australia, 2002.

Ramsar Wetlands:
© Commonwealth of Australia, 2010.

Caveats:
All data are presumed to be correct as received from data providers. No responsibility is taken by the Commonwealth for errors or omissions, and the Commonwealth does not accept responsibility in respect to any information or advice given in relation to, or as a consequence of anything contained herein.

Produced by Environmental Resources Information Network, Australian Government, Department of the Environment, Water, Heritage and the Arts, April 2010.

Geographic coordinate system on the GDA94 datum.

Ramsar Wetlands

1. Cobourg Peninsula
2. Kakadu National Park
3. Moulting Lagoon
4. Logan Lagoon
5. Lavinia
6. Pitt Water-Orielton Lagoon
7. Apsley Marshes
8. East Coast Cape Barren Islands Lagoons
9. Flood Plain Lower Ringarooma River
10. Jocks Lagoon
11. Interlaken (Lake Crescent)
12. Little Waterhouse Lake
13. Corner Inlet
14. Barmah Forest
15. Gunbower Forest
16. Hattah-Kulkyne Lakes
17. Kerang Wetlands
18. Port Phillip Bay (Western Shoreline) and Bellarine Peninsula
19. Western Port
20. Western District Lakes
21. Gippsland Lakes
22. Lake Albacutya
23. Towra Point Nature Reserve
24. Hunter Estuary Wetlands
25. The Coorong, and Lakes Alexandrina and Albert Wetland
26. Bool and Hacks Lagoons
27. Coongie Lakes
28. The Macquarie Marshes
29. Riverland
30. *This site was part of Kakadu National Park. In 2010 it was merged with site 2.*
31. Ord River Floodplain
32. Lakes Argyle and Kununurra
33. Roebuck Bay
34. Eighty-mile Beach
35. Forrestdale and Thomsons Lakes
36. Peel-Yalgorup System
37. Toolibin Lake
38. Vasse-Wonnerup System
39. Lake Warden System
40. Hosnies Spring(s) - Christmas Island
41. Moreton Bay
42. Bowling Green Bay
43. Currawinya Lakes
44. Shoalwater and Corio Bays Area
45. Ginini Flats Wetland Complex
46. Pulu Keeling National Park
47. Little Llangothlin Nature Reserve
48. Blue Lake
49. Lake Pinaroo (Fort Grey Basin)
50. Gwydir Wetlands
51. Great Sandy Strait
52. Myall Lakes
53. Narran Lake Nature Reserve
54. Becher Point Wetlands
55. Lake Gore
56. Muir-Byenup System
57. Edithvale-Seaford Wetlands
58. Ashmore Reef National Nature Reserve
59. Coral Sea Reserves
60. Elizabeth and Middleton Reefs Marine National Nature Reserve
61. "The Dales", Christmas Island
62. Fivebough and Tuckerbil Swamps
63. Banrock Station Wetland Complex
64. NSW Central Murray State Forests
65. Paroo River Wetlands

Place Details

Summerhill Homestead and Outbuildings, 585 Summerhill Rd, Wollert, VIC , Australia

Photographs	None
List	Register of the National Estate
Class	Historic
Legal Status	Indicative Place
Place ID	5630
Place File No	2/14/054/0010

Nominator's Statement of Significance

Nominator 2001:
Summerhill Homestead is perhaps the oldest extant Homestead in the Craigieburn district, an early settled region of north of Melbourne. The Homestead is impressively situated on a prominent hilltop. The restrained symmetry of the original Colonial Georgian two storey building is enhanced by the later Tuscan Doric portico and delicate single storey iron and timber verandah. The Homestead, with attendant outbuildings, forms an interesting pastoral complex.

Nominator 2126:
Summerhill is of State wide significance historically as a major pastoral landholding in the State. Architecturally it is significant for its purposefully impressive translation of the vernacular material into a conscious design of Italianate influence. (Gould 1991)

Official Values Not Available

Description

The two storey Colonial Georgian style bluestone Homestead Summerhill at Craigieburn was erected in the mid 1850s for Dr Thomas Wilson, a pioneer medico/pastoralist. A long rectangular plan woolshed adjacent has an inscribed date 1856 and initials TW in a keystone. Summerhill is symmetrically planned about a Tuscan Doric balcony porch with encircling timber verandah of coupled posts with fine cast iron valance, most probably of later construction.

HISTORY
Summerhill, a graceful hilltop bluestone homestead, was erected by Dr Thomas Wilson, probably during the 1850s. Dr Wilson, from Longford, Ireland, had taken up 3000 acres in the area in about 1848. Whilst at Summerhill Dr Wilson and his wife Margaret raised a large family. He was active in local Presbyterian circles, and Chairman of the local Roads Board. He later moved to Kew where he died in 1893, aged 77.

Subsequent owners have included the Harvey Brothers Tro, Phil and William who were formerly flour millers at Geelong, and Mr W.J. Hill. During the 1940s much of the land surrounding Summerhill was acquired by the Soldier Settlement Commission which divided it into sheep farms of 162 to 243 hectares. Recent occupants of the homestead have been the Yeo and Kernan families.

Summerhill is now owned by Brick and Pipe Industries Ltd, which operates a large quarry and brickworks nearby. (Gould 1991)

DESCRIPTION
Summerhill is double-storied, with a front verandah which was added at a later period. Internally the house is little altered, retaining its original marble fireplaces, simple had run cornices, good quality joinery and wreathed stair handrail in the wide hall. Notable outbuildings are two unusual double-storied bluestone servants quarters with external stone staircases to the upper floors, and a large combined stable and woolshed with "T.W. 1856" cut into the stone. Unfortunately the staff quarters buildings are now derelict and almost beyond reclamation.

The layout of the complex is as impressive as the house. The entrance passes a large lake, probably man made, and winds up to a bluestone gatehouse. There it separates into services to the right and gentry to the left. Farm labourers' quarters are located long the formal drive to give a picturesque effect adjoining a woodland planting of elms. The house looms large as the drive curves past the secondary buildings then introduces the river to the beautiful verandah and the expansive view at the same time. The concealment of the house makes it all the more impressive when revealed. Beyond what once was a formal garden, is a fenced wilderness of pine trees. This feature was popular in avant garde landscape design in the nineteenth century. A pinetum was included in the Domain design by Von Mueller and several Western District and Tasmanian properties include the feature. The pinetum wilderness was supposed to conjure up images of classical antiquity and to imply a romantic character to the landscape.

Travelling through the pinetum the road returns to the service area where a dairy, shearing shed, and various outbuildings survive in poor condition but a remarkably intact state. The structures are connected by an intricate network of bluestone paths and open channel drains. The whole complex is remarkably intact, and with the impressive house produces a pastoral complex unequalled in Whittlesea and rare in the State. (Gould 1991)

History Not Available

Condition and Integrity

Summerhill is situated on land proposed for extractive industry. The interior of this Homestead is well maintained and comparatively intact. The exterior is in good condition and intact. The outbuildings are dilapidated.

Location

585 Summerhill Road, Wollert.

Bibliography

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Report Produced Mon Jan 16 15:23:55 2012

ROYAL HISTORICAL SOCIETY OF VICTORIA INC.
239 A'Beckett Street, Melbourne 3000

Date: **17 January 2012**

Attention: **Gretchen Sites**

Company: **Cardno Lane piper**

From: **Gerardine Horgan (Administrative Officer)**

SITE SEARCH: 1434Ha adjacent to Craigieburn Road, City of Whittlesea

This site in the suburb of Wollert 3750 within the City of Whittlesea is bounded by Summerhill Road on the north, the Proposed Outer Ring Road on the east, Craigieburn Road on the south, and (partly) by Curly Sedge Creek on the west. We regret we have very little information on it.

It is currently shown in Melway Street Directory on Maps 387, 388 and 389. On these maps very little is recorded within the site. There are a few dead-end roads (some private access), some (presumably) agricultural properties and a church. Map 387 first appeared in the Directory only in the late 1990s and Maps 388 & 389 only in the early years of this century. Editions since then do not much give any additional information.

Sands & McDougall's Directory is equally uninformative. At the time of its last edition in 1974, Whittlesea was classified as a country centre and was therefore not included. The last edition that recorded country areas was that of 1966. In this edition, the residents of Whittlesea were recorded only in alphabetical order without street addresses. However, it did record the occupations of a significant proportion of them as being 'farmer' or a similar or related activity.

The Victorian Municipal Directory of 1992 recorded that the first squatter arrived in the area that is now the City of Whittlesea in 1837 and that settlement 'was well under way by the late 1840s'. The businesses of these settlers included wheat, flour, fruit, timber, sheep and vineyards. Urbanisation of the area commenced after WW2 and has grown strongly since the 1970s – but appears to have missed the area under review.

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ROYAL HISTORICAL SOCIETY OF VICTORIA INC.
239 A'Beckett Street, Melbourne 3000

In summary, it appears that this site has never been developed for anything other than agricultural activities.

Research by Jeremy Pascoe

ONSITE?	PARISH NO	PARISH NAME	SITE NO	OLD SITE NO	RIG NO./	LIC NO.	MGA ZONE	EAST	NORTH	DATE COMPLETED	TOTAL DEPTH (m)	RLNS	SITE TYPE		USES	DRILL METHOD	LOGS G	LOGS D	AQUIF FROM (m)	AQUIF TO (m)	TSS mg/L
n	3855	WOLLERT	103984	3385510017		12602	55	323633.19	5835944.19	18.02.1980	36.5	188.74	BOR		DM ST	ROT	N	Y	10	36.5	TSS
n	3855	WOLLERT	331664	3385500004	NONE		55	323189.19	5836069.19	15.03.1971	52.73	192.47	BOR		NG		N	N			N/A
y	2819	KALKALLO	68853	3281910068		21221	55	326233.2	5837664.19	01.03.1983	53	188.25	BOR	DOMESTIC	DM	DHH	N	Y			N/A
y	2819	KALKALLO	68864	3281910079		25049	55	324753.2	5837634.19	20.04.1984	60	192.95	BOR	DOMESTIC	DM	DHH	N	Y			N/A
y	3855	WOLLERT	103998	3385510031		21693	55	326178.2	5837264.19	05.03.1983	38	185.47	BOR	DOMESTIC	DM	DHH	N	Y			N/A
y	3855	WOLLERT	104012	3385510045		27685	55	326313.2	5837004.19	29.08.1985	29	181.45	BOR	DOMESTIC	DM	DHH	N	Y	25	29	TDS
y	3855	WOLLERT	104045	3385515020	NONE		55	322774.19	5836336.19	01.01.1988	12.2	191.02	BOR	DOMESTIC	DM ST	NKN	N	N			N/A
y	3855	WOLLERT	S9019002/1		S9019002		55	322487.19	5837391.19	24.05.2004	45	194.52	BOR	DOMESTIC AND STOCK	DS	DHH	N	Y			N/A
y	3855	WOLLERT	S9019016/1		S9019016		55	322782.19	5836602.19	25.05.2004	63	194.89	BOR	DOMESTIC AND STOCK	DS	DHH	N	Y			N/A
y	2819	KALKALLO	115274			40310	55	326416.2	5837666.19	12.11.1992	25.5	188.68	BOR	GROUNDWATER INVESTIGATION	IV	DHH	N	Y			N/A
y	3855	WOLLERT	142907			54715	55	326319.2	5837163.19	26.10.1999	6.5	184.15	BOR	GROUNDWATER INVESTIGATION	IV	DHH	N	Y			N/A
y	3855	WOLLERT	142908			54715	55	326319.2	5837163.19	27.10.1999	7.5	184.15	BOR	GROUNDWATER INVESTIGATION	IV	DHH	N	Y			N/A
y	3855	WOLLERT	144491			57893	55	326297.2	5837184.19	10.04.2001	6	184.38	BOR	GROUNDWATER INVESTIGATION	IV	DRV	N	Y			N/A
y	2819	KALKALLO	310879	3281900011	NONE		55	326323.2	5838914.19	19.03.1971	67.36	200.81	BOR	NON GROUNDWATER	NG		N	N			N/A
y	3855	WOLLERT	331661	3385500001	NONE		55	326223.2	5835794.19	26.08.1970	46.02	167.75	BOR	NON GROUNDWATER	NG		N	N			N/A
y	3855	WOLLERT	103956	3385508019	NONE		55	322708.19	5836214.19	30.09.1961	60.96	188.02	BOR	NOT KNOWN	NKN	NKN	N	N			N/A
y	2819	KALKALLO	68788	3281910002		922	55	326429.2	5837677.19	02.01.1972	21.64	190.11	BOR	STOCK	ST	CBT	N	Y			N/A
y	2819	KALKALLO	68790	3281910004		10749	55	326253.2	5838804.19	26.10.1978	32	201.44	BOR	STOCK	ST	DHH	N	Y	12.19	28.95	TSS
y	2819	KALKALLO	68834	3281910049		11027	55	326233.2	5837824.19	01.11.1979	35	190.63	BOR	STOCK	ST	DHH	N	Y	10.66	35.05	TSS
y	2819	KALKALLO	68845	3281910060		13839	55	325449.2	5839240.19	22.02.1981	41	207.59	BOR	STOCK	DM ST	ROT	N	Y	10	38	TSS
y	2819	KALKALLO	68874	3281910089		24965	55	326433.2	5837524.19	06.03.1984	35	187.43	BOR	STOCK	ST	DHH	N	Y			N/A
y	2819	KALKALLO	68894	3281910109		29960	55	325863.2	5838084.19	23.12.1986	47	195.07	BOR	STOCK	ST	DHH	N	Y	0	0	TDS
y	3855	WOLLERT	103970	3385510003		795	55	323570.2	5836173.19	01.11.1971	24.3	189.1	BOR	STOCK	ST	CBT	N	Y	6.1	20.42	TSC
y	3855	WOLLERT	104011	3385510044		27266	55	323833.2	5837504.19	08.05.1985	50	200.18	BOR	STOCK	ST	DHH	N	Y	36	50	TDS
y	3855	WOLLERT	104041	3385515016	NONE		55	321785.19	5836490.19	01.01.1988	15.3	182.74	BOR	STOCK	ST	NKN	N	N			N/A
y	3855	WOLLERT	104042	3385515017	NONE		55	322034.19	5836231.19	01.01.1988	17.1	185.88	BOR	STOCK	ST	NKN	N	N			N/A
y	3855	WOLLERT	104043	3385515018	NONE		55	322149.19	5837222.19	01.01.1988	10.4	188.62	BOR	STOCK	ST	NKN	N	N			N/A
y	3855	WOLLERT	104044	3385515019	NONE		55	322860.19	5837304.19	01.01.1988	7.6	196.42	BOR	STOCK	ST	NKN	N	N			N/A
y	3855	WOLLERT	104047	3385515022	NONE		55	322346.19	5836256.19	01.01.1988	14	190.97	BOR	STOCK	ST	NKN	N	N			N/A
y	3855	WOLLERT	142099			53201	55	324613.2	5838184.19	03.03.1999	39	194.62	BOR	STOCK	ST	DHH	N	Y			N/A
y	2819	KALKALLO	68801	3281910015		5612	55	325178.2	5838717.19	10.10.1974	48.76	201.12	BOR	STOCK & DOMESTIC	DM ST	DHH	N	Y	10.68	45.75	TSS
y	2819	KALKALLO	68804	3281910018		6248	55	324815.2	5837669.19	19.03.1975	30	192.88	BOR	STOCK & DOMESTIC	DM ST	ROT	N	Y			N/A
y	2819	KALKALLO	68814	3281910029		6522	55	324223.2	5838378.19	14.09.1975	61	204.11	BOR	STOCK & DOMESTIC	ST DM	ROT	N	Y			N/A
y	2819	KALKALLO	68832	3281910047		11022	55	326253.2	5838384.19	28.10.1978	35	197.63	BOR	STOCK & DOMESTIC	ST DM	DHH	N	Y	12.19	35.05	TSS
y	2819	KALKALLO	68855	3281910070		16148	55	325213.2	5838294.19	14.02.1982	38	198.47	BOR	STOCK & DOMESTIC	DM ST	DHH	N	Y	25	38	TSS
y	2819	KALKALLO	68858	3281910073		23888	55	325343.2	5838524.19	11.08.1983	53	199.03	BOR	STOCK & DOMESTIC	DM ST	DHH	N	Y			N/A
y	2819	KALKALLO	68866	3281910081		25409	55	325893.2	5837784.19	14.06.1984	36.5	191.48	BOR	STOCK & DOMESTIC	ST DM	DRL	N	Y	6.7	33.5	TDS
y	2819	KALKALLO	68878	3281910093		26723	55	325293.2	5839264.19	25.02.1985	41	207.17	BOR	STOCK & DOMESTIC	ST DM	DHH	N	Y	30	41	TDS
y	2819	KALKALLO	68880	3281910095		25780	55	325369.2	5839113.19	22.09.1984	60	207.39	BOR	STOCK & DOMESTIC	ST DM	DHH	N	Y	0	0	TDS
y	2819	KALKALLO	68893	3281910108		29956	55	325643.2	5837624.19	23.12.1986	43	188.6	BOR	STOCK & DOMESTIC	ST DM	DHH	N	Y	0	0	TDS
y	3855	WOLLERT	103972	3385510005		5962	55	322281.19	5836185.19	07.01.1975	24.38	188.79	BOR	STOCK & DOMESTIC	ST DM	CBT	N	Y	22.86	24.38	TSS
y	3855	WOLLERT	103973	3385510006		5147	55	322664.19	5836416.19	24.12.1974	14.02	192.07	BOR	STOCK & DOMESTIC	ST DM	CBT	N	Y	10.67	14.01	TSS
y	3855	WOLLERT	103976	3385510009		8365	55	325981.2	5835869.19	16.12.1976	16.3	174.44	BOR	STOCK & DOMESTIC	ST DM	DHH	N	Y	9	16.3	TSS
y	3855	WOLLERT	103979	3385510012		8554	55	326760.2	5836858.19	07.02.1977	10.05	179.6	BOR	STOCK & DOMESTIC	ST DM	CBT	N	Y	4	10	TSS
y	3855	WOLLERT	103983	3385510016		11905	55	326573.2	5835864.19	16.09.1979	20	164.43	BOR	STOCK & DOMESTIC	DM ST	DHH	N	Y	6	17	TSS
y	3855	WOLLERT	103986	3385510019		13377	55	323432.19	5836294.19	14.11.1980	59.5	191.21	BOR	STOCK & DOMESTIC	DM ST	DHH	N	Y	12	32	TSS
y	3855	WOLLERT	103994	3385510027		15570	55	326893.2	5836064.19	26.11.1981	23	166.96	BOR	STOCK & DOMESTIC	DM ST	DHH	N	Y	21	23	TSS
y	3855	WOLLERT	104002	3385510035		25400	55	326053.2	5836224.19	17.06.1984	29	172.62	BOR	STOCK & DOMESTIC	DM ST	DHH	N	Y	21	29	TDS
y	3855	WOLLERT	104010	3385510043		26556	55	326232.2	5836773.19	06.02.1985	26	175.74	BOR	STOCK & DOMESTIC	DM ST	DHH	N	Y	20	26	TDS
y	3855	WOLLERT	104015	3385510048		28047	55	326413.2	5837014.19	12.11.1985	35	181.52	BOR	STOCK & DOMESTIC	DM ST	DHH	N	Y	10	35	TDS
y	3855	WOLLERT	115843			40963	55	322903.19	5836164.19	22.05.1993	22.5	189.99	BOR	STOCK & DOMESTIC	ST DM	DHH	N	Y	0	0	TSS
y	2819	KALKALLO	133100			49690	55	325369.2	5839113.19	05.02.1998	28	207.39	BOR	STOCK & DOMESTIC	ST DM	DHH	N	Y			N/A
y	2819	KALKALLO	139962			51699	55	325463.2	5837894.19	19.10.1998	52	188.88	BOR	STOCK & DOMESTIC	ST DM	ROA	N	Y			N/A
y	3855	WOLLERT	141732			50652	55	325563.2	5837384.19	24.04.1998	52	186.13	BOR	STOCK & DOMESTIC	ST DM	ROA	N	Y			N/A
y	3855	WOLLERT	142248			55476	55	326413.2	5837484.19	31.03.2000	45	187.06	BOR	STOCK & DOMESTIC	ST DM	DHH	N	Y			N/A
	2819	KALKALLO	68789	3281910003		350	55	327333.2	5838284.19	12.03.1971	22.1	175.79	BOR		NKN	ROT	N	Y			N/A
	2819	KALKALLO	68807	3281910022		6353	55	326224.2	5840127.19	23.03.1975	33.5	207.45	BOR		DM ST	ROT	N	Y	0	33.5	TSC
	2819	KALKALLO	68817	3281910032		7653	55	320348.19	5838303.19	08.06.1976	33.05	193.5	BOR		NKN	ROT	N	Y			N/A
	2819	KALKALLO	68818	3281910033		7653	55	320710.19	5838078.19	28.05.1976	52	197.66	BOR		NKN	ROT	N	Y	4	38	TSS
	2819	KALKALLO	68822	3281910037		8233	55	320710.19	5838078.19	19.01.1977	26.5	197.66	BOR		NKN	DHH	N	Y	9	20	TSS
	2819	KALKALLO	68823	3281910038		8234	55	321161.19	5838004.19	24.01.1977	36	191.72	BOR		NKN	DHH	N	Y	5	26	TSS
	2819	KALKALLO	68824	3281910039		8451	55	325829.2	5839699.19	18.01.1977	30	208.65	BOR		DM ST	DHH	N	Y	9	27	TSS
	2819	KALKALLO	68825	3281910040		8629	55	326073.2	5839661.19	25.02.1977	32	208.11	BOR		DM ST	DHH	N	Y	16	31	TSS
	2819	KALKALLO	68836	3281910051		11363	55	321393.19	5839841.2	05.02.1979	26	219.12	BOR		ST	ROT	N	Y	6.09	24.38	TSS
	2819	KALKALLO	68837	3281910052		11795	55	322794.2	5838821.19	13.07.1979	29	206.51	BOR		IN	DHH	N	Y	8	29	TSS

2819	KALKALLO	68844	3281910059		14546	55	326173.2	5840304.19	13.02.1981	51.6	205.54	BOR	DM ST	ROT	N	Y	43	51	TSS
2819	KALKALLO	68849	3281910064		16263	55	324913.2	5839524.19	30.03.1982	32	208.05	BOR	DM ST	DHH	N	Y	21	32	TSS
2819	KALKALLO	68856	3281910071		14494	55	326163.2	5839264.19	01.01.1982	10	208.25	W/S	DM ST		N	N	9	10	TSS
2819	KALKALLO	68865	3281910080		24964	55	326603.2	5838214.19	07.03.1984	41	174.88	BOR	ST	DHH	N	Y			N/A
2819	KALKALLO	68895	3281910110		19022	55	327663.2	5838704.19	09.12.1982	43	194.38	BOR	DM ST	DHH	N	Y			N/A
2819	KALKALLO	68897	3281910112		30247	55	321403.2	5840844.2	20.02.1987	41	226.11	BOR	DM ST	DHH	N	Y			N/A
2819	KALKALLO	68898	3281910113		30260	55	321383.19	5839854.2	20.02.1987	42	218.81	BOR	DM ST	DHH	N	Y			N/A
2819	KALKALLO	68904	3281915002		33535	55	322633.2	5840554.2	05.09.1989	59.7	222.84	BOR	NKN	DHH	N	Y			N/A
2819	KALKALLO	68905	3281915003		33536	55	323003.2	5840654.2	06.09.1989	62.5	224.58	BOR	NKN	DHH	N	Y			N/A
2819	KALKALLO	68906	3281915004		33537	55	323063.2	5840074.19	07.09.1989	62.5	216.98	BOR	NKN	DHH	N	Y			N/A
2819	KALKALLO	68907	3281915005		33538	55	322513.2	5840074.2	08.09.1989	59.7	221.08	BOR	NKN	DHH	N	Y			N/A
2819	KALKALLO	68917	3281915015		32676	55	326913.2	5837434.19	27.05.1988	96	185.26	BOR	DM	DHH	N	Y	0	0	TDS
2819	KALKALLO	68923	3281915021		33856	55	325023.2	5839564.19	10.02.1989	65	208.79	BOR	DM	DHH	N	Y	53	59	TSS
2819	KALKALLO	68931	3281915029	NONE		55	320622.19	5838358.19	01.01.1988	12.1	193.7	BOR	DM ST	NKN	N	N			N/A
2819	KALKALLO	68932	3281915030	NONE		55	321638.19	5838959.19	01.01.1988	21.3	204.57	BOR	ST	NKN	N	N			N/A
2819	KALKALLO	68933	3281915031	NONE		55	327535.2	5839387.19	01.01.1988	41.2	199.13	BOR	ST	NKN	N	N			N/A
2819	KALKALLO	68934	3281915032	NONE		55	327417.2	5838773.19	01.01.1988	29.3	194.95	BOR	DM	NKN	N	N			N/A
2819	KALKALLO	68935	3281915033	NONE		55	323527.2	5838733.19	01.01.1988	19.8	208.51	BOR	ST DM	NKN	N	N			N/A
2819	KALKALLO	68936	3281915034	NONE		55	323613.2	5839236.19	01.01.1988	36.5	210.52	BOR	ST DM	NKN	N	N			N/A
2819	KALKALLO	68937	3281915035	NONE		55	322614.2	5840055.2	01.01.1988	0	223.48	BOR	DM ST	NKN	N	N			N/A
2819	KALKALLO	68938	3281915036	NONE		55	322036.2	5840532.2	01.01.1988	8	224.96	BOR	DM ST	NKN	N	N			N/A
2819	KALKALLO	68939	3281915037	NONE		55	321782.2	5840149.2	01.01.1988	26	222.6	BOR	DM ST	NKN	N	N			N/A
2819	KALKALLO	68940	3281915038	NONE		55	322162.2	5839734.2	01.01.1988	55	218.54	BOR	DM ST	NKN	N	N			N/A
2819	KALKALLO	68944	3281915042		33966	55	319533.19	5840824.2	22.02.1989	83.8	216.08	BOR	DM ST	DHH	N	Y	67	78	TSS
3183	MORANG	81384	3318310003		11810	55	327313.2	5834104.18	13.06.1979	32	154.73	BOR	ST	DHH	N	Y	15	32	TSS
3855	WOLLERT	103955	3385508018	NONE		55	323522.19	5834134.19	31.03.1963	0	155.92	BOR	NKN	NKN	N	N			N/A
3855	WOLLERT	103968	3385510001		486	55	325193.2	5834124.18	02.05.1971	28	161.77	BOR	ST DM	CBT	N	Y	6.1	25.91	TSS
3855	WOLLERT	103974	3385510007		7645	55	321692.19	5837451.19	20.05.1976	21.05	184.95	BOR	ST DM	DHH	N	Y			N/A
3855	WOLLERT	103977	3385510010		8563	55	326439.2	5834278.18	25.02.1977	42.7	158.96	BOR	ST	DHH	N	Y	21	39	TSS
3855	WOLLERT	103981	3385510014		11666	55	326253.2	5835404.19	01.04.1979	26	169.54	BOR	IR	NKN	N	Y			N/A
3855	WOLLERT	103982	3385510015		8064	55	328353.2	5834364.18	26.09.1978	14	209.27	BOR	DM ST	DHH	N	Y	9	14	TSS
3855	WOLLERT	103985	3385510018		13490	55	326453.2	5837204.19	30.08.1980	32	184.97	BOR	DM	DHH	N	Y	28	32	TSS
3855	WOLLERT	103989	3385510022		14646	55	322213.19	5835804.19	25.02.1981	41	184.88	BOR	DM ST	DHH	N	Y	6	38	TSS
3855	WOLLERT	103990	3385510023		14534	55	322033.19	5835314.19	05.03.1981	35	173.76	BOR	ST	ROT	N	Y			N/A
3855	WOLLERT	103991	3385510024		14726	55	321872.19	5835057.19	06.03.1981	38	174.02	BOR	ST	ROT	N	Y	7	32	TSS
3855	WOLLERT	103993	3385510026		14570	55	321813.19	5835484.19	24.02.1981	26	179.19	BOR	DM ST	DHH	N	Y			N/A
3855	WOLLERT	103995	3385510028		14693	55	326445.2	5834214.18	04.03.1981	41	158.14	BOR	DM ST	DHH	N	Y	30	36	TSS
3855	WOLLERT	103996	3385510029		18204	55	326643.2	5835204.19	11.12.1982	35	161.66	BOR	DM ST	DHH	N	Y			N/A
3855	WOLLERT	103997	3385510030		23757	55	326083.2	5834304.18	28.09.1983	59	163.1	BOR	DM ST	DHH	N	Y	24	59	TDS
3855	WOLLERT	104003	3385510036		24779	55	324733.2	5834384.19	10.02.1984	90	161.75	BOR	ST DM	DHH	N	Y			N/A
3855	WOLLERT	104004	3385510037		24779	55	324733.2	5834384.19	11.02.1984	38	161.75	BOR	DM ST	DHH	N	Y			N/A
3855	WOLLERT	104006	3385510039		26555	55	326213.2	5833924.18	07.02.1985	54	156.57	BOR	ST DM	DHH	N	Y			N/A
3855	WOLLERT	104008	3385510041		26105	55	325253.2	5835304.19	28.11.1984	45	176.78	BOR	ST DM	DHH	N	Y	36	45	TDS
3855	WOLLERT	104016	3385510049		29343	55	326273.2	5835302.19	26.08.1986	26	166.51	BOR	DM ST	DHH	N	Y	0	0	TDS
3855	WOLLERT	104021	3385510054		30116	55	326173.2	5834524.18	13.02.1987	50	165.09	BOR	DM	DHH	N	Y	0	0	TDS
3855	WOLLERT	104032	3385515007		33983	55	326093.2	5833984.18	27.02.1989	50	159.54	BOR	DM	DHH	N	Y	35	47	TSS
3855	WOLLERT	104048	3385515023		30199	55	326573.2	5837244.19	14.02.1987	19	185.77	BOR	DM MI	DHH	N	Y	0	0	TDS
3955	YAN YEAN	107748	3395510013		17997	55	328123.2	5839224.19	26.10.1982	35	192.53	BOR	DM	DHH	N	Y			N/A
3955	YAN YEAN	107751	3395510016		19520	55	328873.2	5839324.19	10.12.1982	40	192.34	BOR	DM ST	DHH	N	Y			N/A
3955	YAN YEAN	107753	3395510018		17149	55	328833.2	5839714.19	14.12.1982	54.5	191.05	BOR	ST DM	DHH	N	Y			N/A
3955	YAN YEAN	107755	3395510020		24966	55	327953.2	5838684.19	09.03.1984	50	192.73	BOR	ST	DHH	N	Y			N/A
3955	YAN YEAN	107756	3395510021		27265	55	327953.2	5838684.19	11.05.1985	74.5	192.73	BOR	DM ST	DHH	N	Y	10	50	TDS
3955	YAN YEAN	107758	3395510024		30245	55	320803.19	5840614.2	19.02.1987	108	226.62	BOR	DM ST	DHH	N	Y			N/A
3955	YAN YEAN	107759	3395510025		30246	55	321143.19	5839484.2	18.02.1987	50	208.51	BOR	DM ST	DHH	N	Y	0	0	TDS
2819	KALKALLO	113567			39518	55	323603.2	5839404.19	03.03.1992	49	210.96	BOR	ST DM	DHH	N	Y			N/A
2819	KALKALLO	115271			40310	55	327470.2	5838752.19	12.11.1992	22.5	195.56	BOR	IV	DHH	N	Y			N/A
2819	KALKALLO	115272			40310	55	327913.2	5838011.19	18.11.1992	22.5	190.85	BOR	IV	DHH	N	Y			N/A
2819	KALKALLO	115273			40310	55	327322.2	5837372.19	11.11.1992	25.5	183.38	BOR	IV	DHH	N	Y			N/A
2819	KALKALLO	115275			40310	55	328546.2	5837732.19	18.11.1992	22	185.17	BOR	IV	DHH	N	Y			N/A
2819	KALKALLO	115276			40310	55	328092.2	5837704.19	17.11.1992	55.5	185.29	BOR	IV	DHH	N	Y			N/A
3855	WOLLERT	121302			40603	55	327333.2	5838024.19	10.02.1993	5.5	187.87	BOR	IV	DHH	N	Y			N/A
3855	WOLLERT	121329			40603	55	327443.2	5838354.19	10.02.1993	5.5	187.39	BOR	IV	DHH	N	Y			N/A
3855	WOLLERT	121330			40603	55	327263.2	5838214.19	10.02.1993	5.9	178.8	BOR	IV	DHH	N	Y			N/A
3855	WOLLERT	121331			40603	55	327193.2	5838384.19	10.02.1993	5.5	174.94	BOR	IV	DHH	N	Y			N/A
3855	WOLLERT	132509			49826	55	323493.2	5840244.19	07.02.1998	25.5	217.62	BOR	DM	ROA	N	Y			N/A
2819	KALKALLO	133033			49311	55	327493.2	5838944.19	21.01.1998	43.5	196.91	BOR	ST DM	DHH	N	Y			N/A

2796	JIKA JIKA	133441		49939	55	326827.2	5840887.19	28.01.1998	6	205.67	BOR	IV	CBT	N	Y				N/A
2796	JIKA JIKA	139360		49939	55	326813.2	5840884.19	22.01.1998	60	205.74	BOR	IV	DHH	N	Y				N/A
3855	WOLLERT	142905		54715	55	326319.2	5837163.19	25.10.1999	6.2	184.15	BOR	IV	DHH	N	Y				N/A
3855	WOLLERT	142906		54715	55	326319.2	5837163.19	25.10.1999	7.5	184.15	BOR	IV	DHH	N	Y				N/A
2819	KALKALLO	310873	3281900004	NONE	55	320031.19	5840914.2	31.12.1965	26.82	215.27	BOR	NG		N	N				N/A
2819	KALKALLO	310874	3281900006	NONE	55	319970.19	5839716.2	03.06.1970	55.47	209.74	BOR	NG		N	N	0	0	TSS	
2819	KALKALLO	310875	3281900007	NONE	55	323232.2	5839605.19	12.06.1970	55.77	210.09	BOR	NG		N	N				N/A
2819	KALKALLO	310881	3281900013	NONE	55	320774.19	5840182.2	14.02.1975	85.7	212.26	BOR	NG		N	N				N/A
2819	KALKALLO	310882	3281900014	NONE	55	320031.19	5840914.2	04.04.1979	11.25	215.27	BOR	NG		N	N				N/A
3855	WOLLERT	331666	3385500006	NONE	55	321476.19	5836241.19	12.05.1971	56.39	178.9	BOR	NG		N	N				N/A
3855	WOLLERT	331669	3385500009	NONE	55	324313.19	5834384.19	16.08.1971	40.69	161.23	BOR	NG		N	N				N/A
3955	YAN YEAN	333833	3395500004	NONE	55	328843.2	5838804.19	07.04.1971	48.77	190.87	BOR	NG		N	N				N/A
		GMS-4535		NONE	55	319908	5839738	11.11.2004	53.35	209.73	BOR	OB DPI		N	N				N/A
2819	KALKALLO	S60772/1		S60772	55	324399.2	5839923.19	13.06.2003	51	218.99	BOR	DS	DHH	N	Y				N/A
2819	KALKALLO	S61232/1		S61232	55	325720.2	5839226.19	01.04.2003	39	203.36	BOR	DS	DHH	N	Y				N/A
3855	WOLLERT	S9019183/1		S9019183	55	322622.19	5834744.19		100	169.96	BOR			N	N				N/A
3855	WOLLERT	S9019746/1		S9019746	55	320639.19	5836885.19	14.07.2004	40	188.43	BOR	CO	ROA	N	Y				N/A
2819	KALKALLO	S9021999/1		S9021999	55	323742.2	5841047.2		60	229.78	BOR			N	N				N/A
2819	KALKALLO	S9035627/1		S9035627	55	326635	5840515	11.09.2008	70	206.56	BOR	DS	DHH	N	Y				N/A
3955	YAN YEAN	S9035738/1		S9035738	55	328813	5838906		150	191.65	BOR			N	N				N/A
3855	WOLLERT	S9035933/1		S9035933	55	324284	5834142		150	161.65	BOR			N	N				N/A
3855	WOLLERT	S9036190/1		S9036190	55	321920	5836345		150	184.42	BOR			N	N				N/A
2819	KALKALLO	S9037774/1		S9037774	55	327205	5837690		25	187.57	BOR			N	N				N/A
		WRK059358		WLE048032	55	327157	5836951	10.10.2010	20	177.87	BOR	DW		N	N				N/A
		WRK060126		WLE048546	55	319600	5837475	05.01.2011	18		BOR	OB	AGM	N	Y				N/A
		WRK060128		WLE048546	55	319600	5837475	12.01.2011	14.5		BOR	OB	DHH	N	Y				N/A