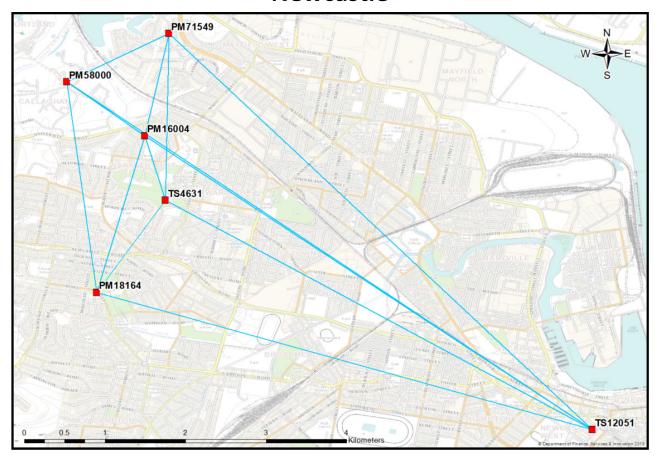
NSW GNSS TEST NETWORK:

Newcastle



Station	MGA94 - Zone 56		Height			
Station	Easting (m)	Northing (m)	Ellipsoid (m)	Geoid (m)	Derived AHD (m)	
PM16004	379846.127	6359441.682	47.669	25.923	21.746	
PM18164	379365.585	6357488.186	42.477	25.871	16.606	
PM58000	379021.332	6360100.236	52.385	25.948	26.437	
PM71549	380082.676	6360716.425	50.270	25.958	24.312	
TS12051 (Newcastle CORS)	384557.522	6355842.787	52.953	25.774	27.179	
TS4631	380068.829	6358641.072	103.492	25.898	77.594	

Warning!

- $\hbox{- These coordinates are to be used for GNSS validation only, the values differ from those published in SCIMS.}\\$
- Please report any mark disturbance or significant differences in results.



NSW GNSS TEST NETWORK:

Newcastle

Network Information

The Newcastle GNSS Test Network has been derived through a Minimally Constrained adjustment. The only constrained (fixed) station is TS12051 Newcastle CORS.

Coordinates (Northing, Easting and Ellipsoid Height) have been sourced from GDA2020 Regulation 13 Certificate and transformed to GDA94 using conformal transformation.

GDA94

SCIMS ID & (Name)	Lattitude	Longitude	Ellipsoid Height (m)
TS12051 (Newcastle CORS)	S 32° 55' 46.51116"	E 151° 45' 54.82069"	52.953

MGA94

SCIMS ID & (Name)	Easting (m)	Northing (m)	Ellipsoid Height (m)
TS12051 (Newcastle CORS)	384557.522	6355842.787	52.953

Adjustment Observation Weightings

Horizontal 5mm +0.7ppm 0.0015/0.0015 Centring Vertical 15mm +2.0ppm 0.002/0.002 Up

Geoid / Ellipsoid Separation (N)

Source: AUSGEOID09

MGA94 (2010) Coordinates

Refer to front cover.

Notes

For an accurate comparison, observe the network shown and run the same minimally constrained as above holding fixed TS12051 Newcastle CORS coordinates (provided above).

Applicable adjustment constraints and observational weightings have also been provided.

AHD has been derived using the AUSGEOID09 model.

Contact a representative from Spatial Services if further information/clarification is required.



Photos:





Sketch:

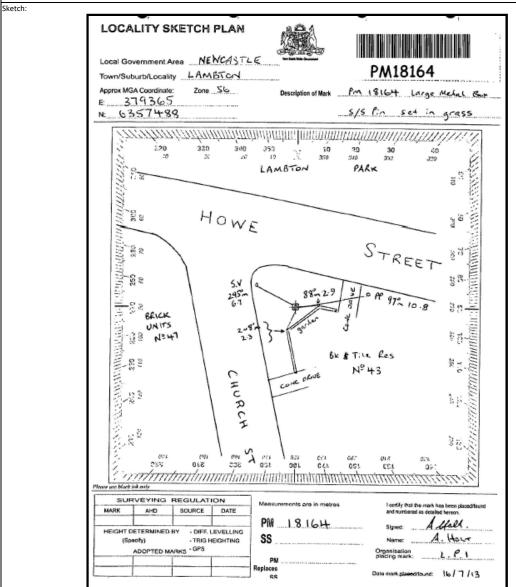
Survey Constituentian Act, 1949.		PM No
Loc	ALITY SKETCH	PLAN
(To be drawn in bl	ack waterproof ink, or HB pencil, not	necessarily to scale.)
Parish Newcastle Coun	ty North son berland City o	Town Waratch
		REDIT ABORAGANG IS UK357
Zone Map Sheet MEV		WIII
		rvey marks, buildings, fence posts, kerbs, etc.,
Measure	ements are infeet_	
	Sy. St. 26.2	La Sepeline 25 (76) 3 Ellort 1200 1
Placed in connection with (type of survey		
Co-ordinate values of mark	Drigin	
Reduced level of mark	leet (prov.) to Datum +	Stondard.
lespection Book No. Site selected by A.R. Graham	Fol73	
Mark placed by	0" Day 22/	PROVISIONAL SKETCH ONLY
Locality sketch put into use by	2-5-74 Dois	4 cellalth
1	PM No. 16004	Officer-in-Charge Survey Co-ordination Branch
S	S M No	- 8, MAY 1972



Photos:







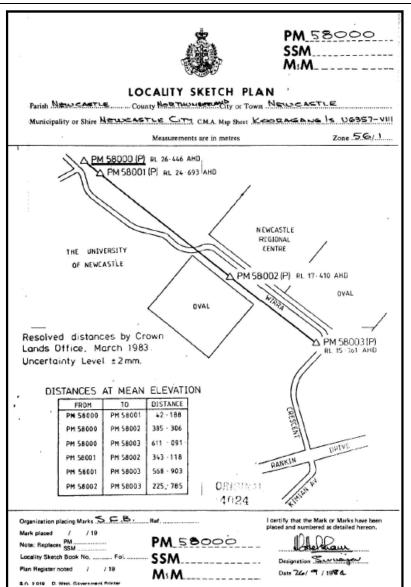


Photos:





Sketch:

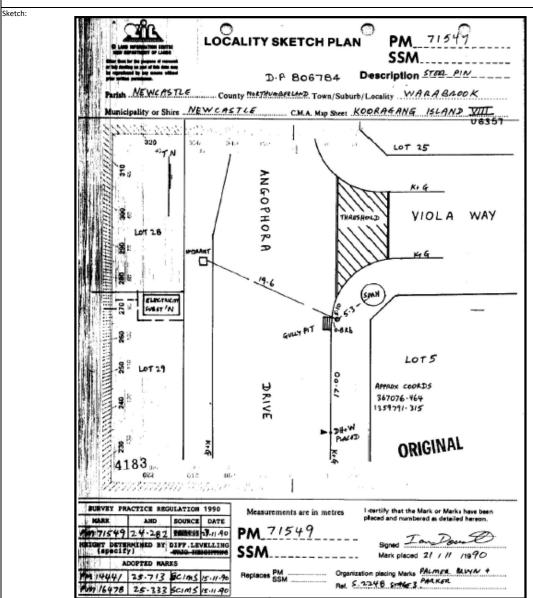




Photos:









TS4631

Photos:





Sketch:

This T	Frig. Station has been:- Note: Cross out word or words which do not apply	Co Abrhunbarland	Ph: N	encossla
		Man Sheet: Koorsagang Jeland. No: 6357		
	Completely cleared to permit 360° vision to surrounding Trigs.	Inspected by: ARGraham	-	Date: 23.0.25
2.	Gloared by lanes boaring from Trig. Most	Authority J. S. D.		Field Book: P.DP
3.	Trig. Most & Yones have been painted white & black respectively.	Bescen Diagram		Not to Scal
4.	The Trig. was unpiled/n et unpiled , dimensions now being:	000 1		<u></u>
	Description of mark Concrete Allar			1
	Height of mark	0.60	(1.
	Height of Top Vanes to Top Mark Top piller plate	1 7	\	13
	Height of Bar 1:32 n. Disselve of Blar 18 4 55 m.	*		
	Length of Most	200 C 84		1
5.	A PM 9662 set in conclused has been street/ld .4.43 m. bearing 121,141 M. from Irig. Mass/pillar	*	فمغ	4 *
6.	A. 4.7. set in conc/seed has been placed # ASSS.m. bearing 210 M. M. from Trig. Most/pillar	1	P-33	1
7.	A	1	1	1
8.	Aset in conc/rock has been placed/fdm, bearing		1	1
9.	Connection 2462	/-32	1	
10.	Connection	J.	0.55	1
11.	Connectionto	Date	Record of St	7//
12.	Connection	1778 Como. R.Br Ab		
13.	Dill. Hi. Top of Pote 151.733 a manifestal Schools 006 m			
14.	Diff. Ht. 700 of 1/01/20 is 1.782 m. store 14 1182		-	
15	DIH. H. Top of Peter 15/66 - an B.T.			

