

BLANK

BLANK

BLANK

BLANK



2

Mr Ray Carter
2 December 2004

100mm	\$7682.00	= $307 \times 100^2 / 400$ = $(AC_{20} \times D^2 / 400)$
150mm	\$17284.00	= $307 \times 150^2 / 400$ = $(AC_{20} \times D^2 / 400)$

Please find **enclosed** a full copy of the guidelines of Best-Practice Management of Water Supply and Sewerage from DEUS and a full copy of guidelines published by DLWC.

Yours faithfully

R Roach
CHIEF FINANCIAL OFFICER



Reference: TD:AL:26.00010-02/002
Enquiries: Mr Bob Roach (02) 6333 6257

203

BLANK

BLANK

BLANK

BLANK



FACSIMILE

TO [REDACTED]
COMPANY [REDACTED]
FROM [REDACTED]

FAX No. 02 6332 2107
DATE 7/12/04
TOTAL PAGES 2
(including cover)

MESSAGE

Can you please do assessments on the following properties? (12)

Please disregard the "residential" & "no sewer" properties and the property with no meter.

The contact is:

Ray Carter

Telephone - 6331 6811

Address - 3 Toro

Any questions give me a call.

FAXED

Thanks [REDACTED]

BLANK

BLANK

BLANK

BLANK

Owner	Ass #	Address	Current SDF	Current Meters
Carter RW WE & IR	1811-03000-4	44 Hill Street, WEST BATHURST	Residential	
Carter RW WE & IR	2662-43000-4	10 Littlebourne Street KELSO	95%	1 X 40MM
Carter RW WE & IR	5361-93000-4	15 Adrienne Street RAGLAN	95%	2 X 40MM
Carter RW WE & IR	5631-94020-1	11 Adrienne Street RAGLAN	95%	1 X 40MM
Carter RW WE & IR	2662-44000-3	6 Littlebourne Street KELSO	95%	1 x 50MM
Carter RW WE & IR	2662-45000-2	2 Littlebourne Street KELSO	95%	1 X 32 & 1 X 40MM
Carter RW WE & IR	5631-94210-8	9 Adrienne Street RAGLAN	95%	1 x 50MM
Carter Bros Engineering	4663-0000-0	163 Sydney Road KELSO	Residential	
Carter Bros Engineering	1508-01998-9	Hampden Park Road KELSO	95%	1 X 40MM
Carter Bros Engineering	4727-25000-5	3 Toronto Street KELSO	95%	1 X 32MM
Carter Bros Engineering	5631-94010-2	13 Adrienne Street KELSO	95%	1 X 40MM
Pre-Fabricated Buildings Pty Ltd	4383-10000-7	Stewart St MITCHELL		No meter
Pre-Fabricated Buildings Pty Ltd	52444-00000-5	369 Stewart Street MITCHELL	95%	1 X 100MM
Pre-Fabricated Buildings Pty Ltd	6005-61000-8	5475 Great Western Hwy RAGLAN	No sewer	
Coveport Pty Ltd	50340-00000-4	5 Zagreb Street KELSO	95%	1 X 80 MM
Coveport Pty Ltd	50338-00000-8	1 Adrienne Street RAGLAN	95%	1 X 50MM

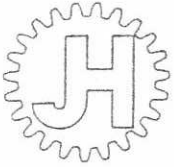
BLANK

BLANK

BLANK



BLANK



JOHN HUMPHREYS and ASSOCIATES PTY. LTD.
Consulting Mechanical and Electrical Engineers
and Project Managers

(INCORPORATED IN N.S.W.)

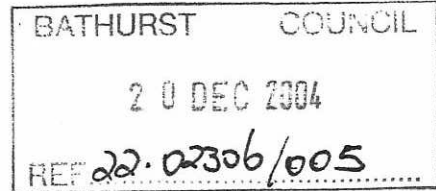
13 KABBERA BOULEVARDE,
KELSO N.S.W. 2795

A.B.N. 36 002 931 295
A.C.N. 002 931 295

TELEPHONE: (02) 6331 5717
FAX: (02) 6332 2107

17 December, 2004

The General Manager,
Bathurst Regional Council,
Civic Centre,
BATHURST. NSW. 2795.



Dear Sir,

**RE: PREFABRICATED BUILDINGS P/L, 369 STEWART ST., BATHURST
WATER METER SIZING**

The site was visited on 15th December, 2004 and points of water usage surveyed in relation to the size of the installed water meter.

The mains water pressure was checked at 420 kPa and the following recommendation is made in relation to continuity of the existing standard of water service to the site.

The existing 100 diameter metered service serves 11 fire hydrants, as well as 7 hose reels and all the domestic requirements on the site, which is composed of multiple buildings and the Boral Treated Pine Plant, all under Community Title.

Any decrease in meter size (which would be possible given the requirements of the hose reel and domestic load alone) would seriously compromise fire fighting activities on the site.

On the foregoing basis, the 100 diameter meter must remain.

Yours faithfully,

J.K. HUMPHREYS. B.E. M.I.E.A. C.P.Eng.

DES ✓
CPD ✓

BLANK

BLANK

BLANK

BLANK

MWWA

3

Carter Bros Engineering Pty Ltd
5 April 2005

BATHURST REGIONAL COUNCIL

22 SEP 2006

REF. 26.00010-02/071

WORKS REQUEST/ADVICE

The General Manager
Bathurst Regional Council
Private Mail Bag 17
BATHURST NSW 2795

File Reference 26.00010

I, Ray Carter of Carter Bros Engineering Pty Ltd, acknowledge that I have received a copy of the Hydraulic Engineers Report prepared by John Humphreys and Associates Pty Ltd for the properties listed in Council's letter dated 5 April 2005.

I WISH TO PROCEED with the recommendations of this report and authorise the following work on my properties:

1. Replace the existing water service connections listed below with the recommended downsized new water service connection.

ADDRESS	EXISTING METER SIZE	DOWNSIZE TO NEW METER SIZE
9 Adrienne Street	50mm	32mm
11 Adrienne Street	40mm	32mm
13 Adrienne Street	40mm	32mm
15 Adrienne Street	40mm	32mm
2 Littlebourne Street	40mm	25mm
6 Littlebourne Street	50mm	32mm 40mm
10 Littlebourne Street	40mm	32mm
5 Zagreb Street	80mm	40mm

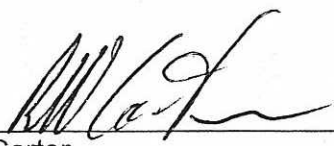
06D011059
 05D010062
 MK68778
 MK63195
 06C05527
 06E017564
 56150
 06E019494

OR

I DO NOT wish to proceed with the recommendation of these reports.

Done - 3/11/06
 RD.

Yours faithfully



Ray Carter
For Carter Bros Engineering P/L

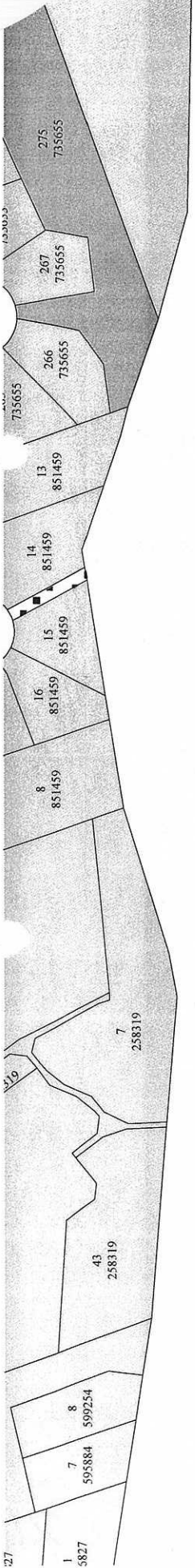
Date: 16 Aug 2006

DES
 COPY ONLY
 DO NOT PLACE ON FILE
 DO NOT RETURN TO
 RECORDS

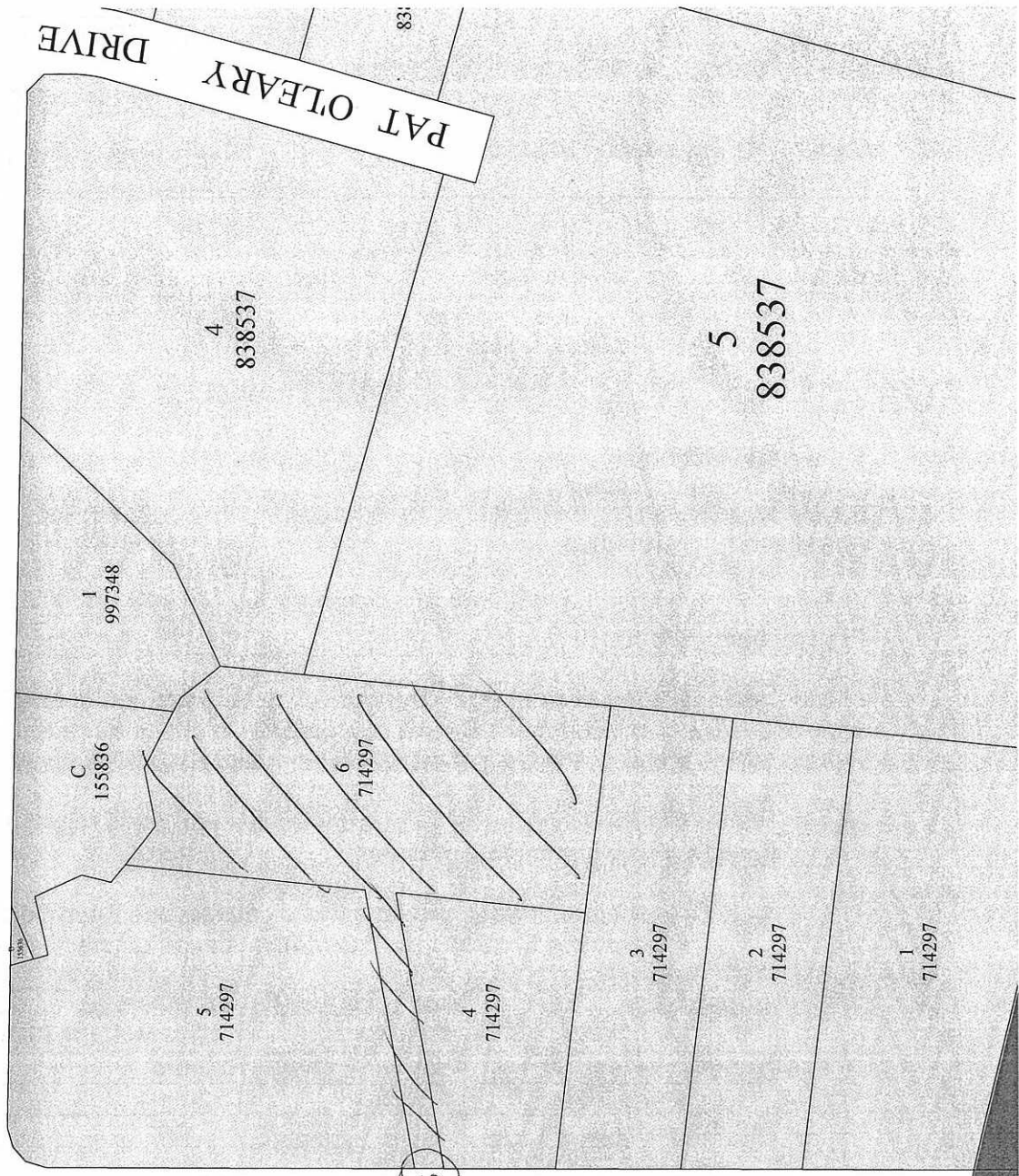
Demo
 Please arrange downsize.
 Job no. 25306-202.

DCSF
DES

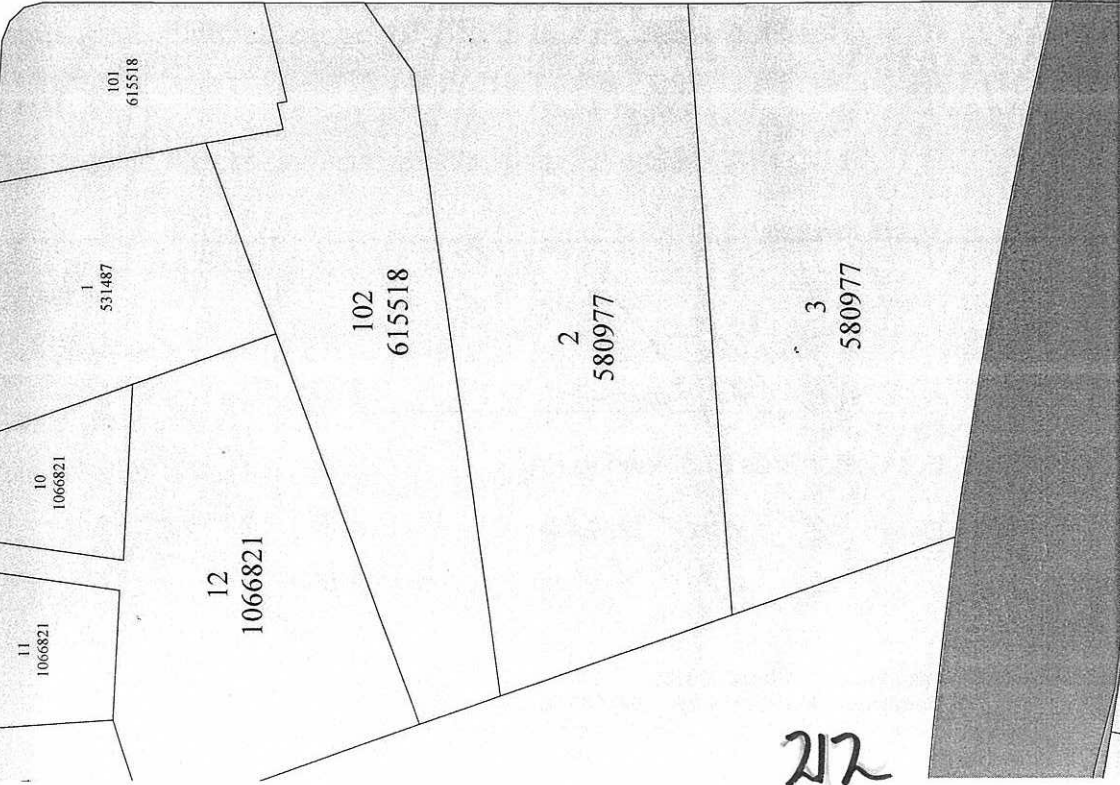
Thanks,
 Russell
 25/9/06



SYDNEY ROAD



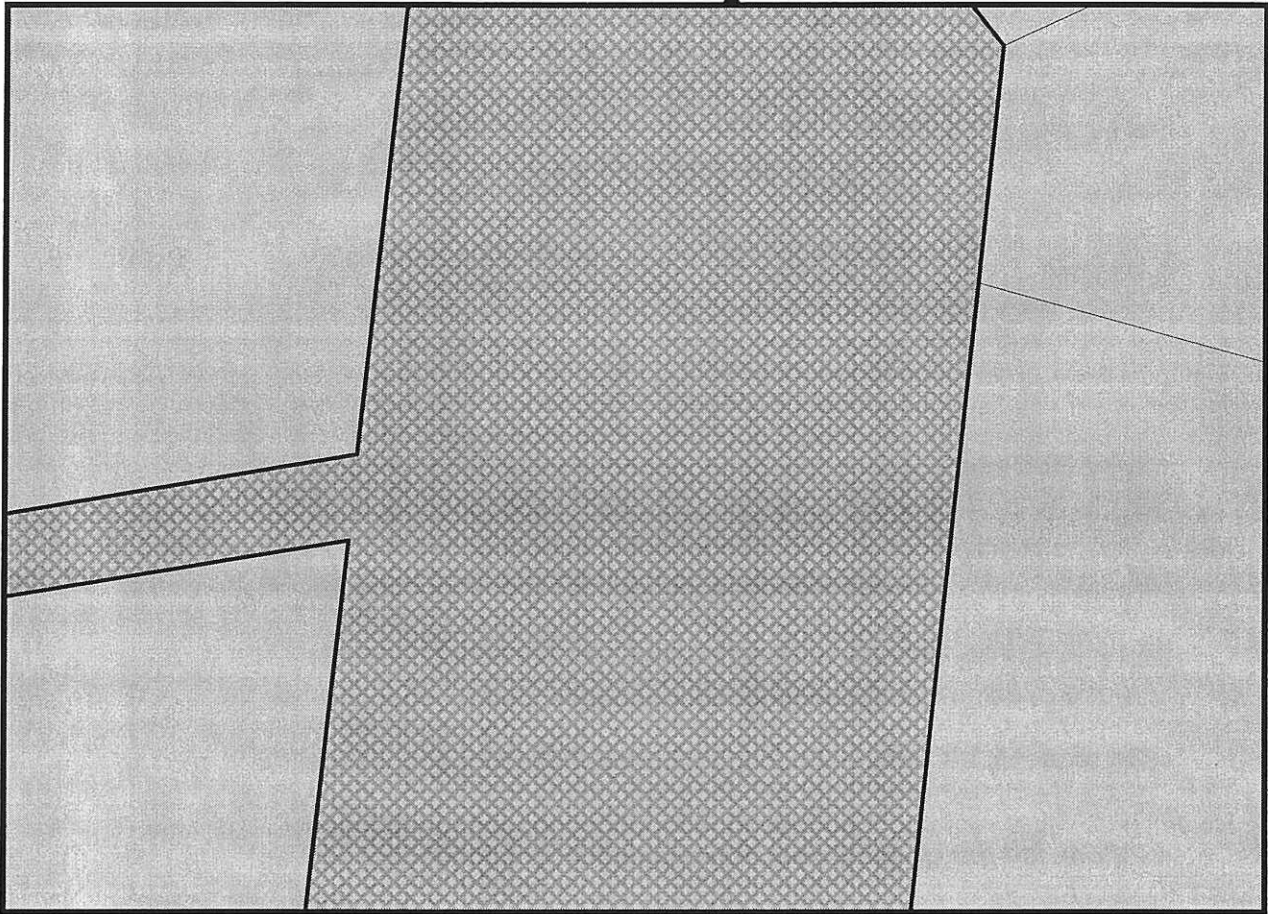
LITTLEBOURNE STREET



212



Feature Report



Gis key 7459
Parcel no 5785
Assess no 2662-44000-3
Owner MR RW, WE & IR Carter
House add 6 LITTLEBOURNE STREET KELSO NSW 279...
Post name 1 MR RW Carter
Post name 2 WE & IR Carter
Post add 1 3 TORONTO ST
Post add 2 KELSO
Post add 3
Post pcode
Pt lot N
Lot 6
Section
Plan no DP 714297
Area 8411
Area measure M
Lease type
Lease no
Street number 6
Land status
Zone 4(a) Industrial Zone
Lot add 6/714297
House add id 7195

26.00010-02/018



**BATHURST
REGIONAL COUNCIL**

ADMINISTRATOR'S OFFICE

Civic Centre Telephone 02 6333 6111
 Cnr Russell & William Sts Facsimile 02 6331 7211
 Private Mail Bag 17 council@bathurst.nsw.gov.au
 Bathurst NSW 2795 www.bathurst.nsw.gov.au

5 April 2005

Mr Ray Carter
 Director
 Carter Bros Engineering Pty Ltd
 3 Toronto Street
 KELSO NSW 2795

Dear Mr Carter

Implementation of Best Practice Sewer Charges

Council has now completed the requested assessment of your properties.

During this assessment the Sewerage Discharge Factors (SDFs) estimated for each of your properties was reviewed and the changes are listed below.

As requested, Council also engaged John Humphreys and Associates Pty Ltd in the capacity of Hydraulic Engineer to assess your requests for downsizing or rationalizing your water meters. The reports suggest the following changes to your meters. The reports are **attached** for your information.

ADDRESS	ORIGINAL SDF	REVISED SDF	METER	DOWNSIZE (Y/N)
1 Adrienne Street	95%	50%	50mm	N
9 Adrienne Street	95%	50%	50mm	Y (32mm)
11 Adrienne Street	95%	75%	40mm	Y (32mm)
13 Adrienne Street	95%	75%	40mm	Y (32mm)
15 Adrienne Street	95%	50%	40mm	Y (32mm)
2 Littlebourne Street	95%	75%	40mm 32mm	Y (25mm) N
6 Littlebourne Street	95%	75%	50mm	Y (32mm)
10 Littlebourne Street	95%	95%	40mm	Y (32mm)
22 Hampden Park Rd	95%	95%	40mm	N
3 Toronto Street	95%	50%	32mm	N
5 Zagreb Street	95%	50%	80mm	Y (40mm)
369 Stewart Street	95%	95%	100mm	N

Please complete and return the **attached** Works Request form indicating your preference on how you wish to proceed with the recommendations in the report. When this form is received by Council, the requested work will be scheduled. The cost of downsizing or removing meters will be met by Council. When the work is completed your sewer charges will be adjusted to reflect the changes from 1 July 2004.

Further technical questions should be directed to Russell Deans on 6333 6225. Other enquiries can be directed to Toni Dwyer on 6333 6291.

Reference: TD:AL:26.00010
 Enquiries: Mrs Toni Dwyer (02) 6333 6291

214

2

Carter Bros Engineering Pty Ltd
5 April 2005

Thank you for your input, patience and co-operation in this matter.

Yours faithfully



R Roach
DIRECTOR
CORPORATE SERVICES & FINANCE

Reference: TD:AL:26.00010
Enquiries: Mrs Toni Dwyer (02) 6333 6291

215

Carter Bros Engineering Pty Ltd
5 April 2005

WORKS REQUEST/ADVICE

The General Manager
Bathurst Regional Council
Private Mail Bag 17
BATHURST NSW 2795

File Reference 26.00010

I, Ray Carter of Carter Bros Engineering Pty Ltd, acknowledge that I have received a copy of the Hydraulic Engineers Report prepared by John Humphreys and Associates Pty Ltd for the properties listed in Council's letter dated 5 April 2005.

I WISH TO PROCEED with the recommendations of this report and authorise the following work on my properties:

1. Replace the existing water service connections listed below with the recommended downsized new water service connection.

ADDRESS	EXISTING METER SIZE	DOWNSIZE TO NEW METER SIZE
9 Adrienne Street	50mm	32mm
11 Adrienne Street	40mm	32mm
13 Adrienne Street	40mm	32mm
15 Adrienne Street	40mm	32mm
2 Littlebourne Street	40mm	25mm
6 Littlebourne Street	50mm	32mm
10 Littlebourne Street	40mm	32mm
5 Zagreb Street	80mm	40mm

OR

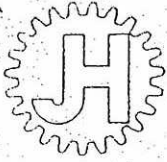
I DO NOT wish to proceed with the recommendation of these reports.

Yours faithfully

Ray Carter
For Carter Bros Engineering P/L

Date: ____ / ____ / 2005

Reference: TD:AL:26.00010
Enquiries: Mrs Toni Dwyer (02) 6333 6291



JOHN HUMPHREYS and ASSOCIATES PTY. LTD.
Consulting Mechanical and Electrical Engineers
and Project Managers

(INCORPORATED IN N.S.W.)

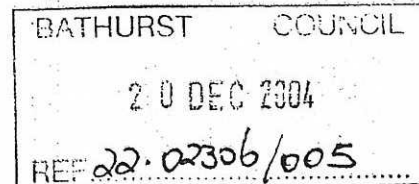
13 KABBERA BOULEVARDE,
KELSO N.S.W. 2795

A.B.N. 36 002 931 295
A.C.N. 002 931 295

TELEPHONE: (02) 6331 5717
FAX: (02) 6332 2107

17 December, 2004

The General Manager,
Bathurst Regional Council,
Civic Centre,
BATHURST. NSW. 2795.



Dear Sir,

**RE: PREFABRICATED BUILDINGS P/L, 369 STEWART ST., BATHURST
WATER METER SIZING**

The site was visited on 15th December, 2004 and points of water usage surveyed in relation to the size of the installed water meter.

The mains water pressure was checked at 420 kPa and the following recommendation is made in relation to continuity of the existing standard of water service to the site.

The existing 100 diameter metered service serves 11 fire hydrants, as well as 7 hose reels and all the domestic requirements on the site, which is composed of multiple buildings and the Boral Treated Pine Plant, all under Community Title.

Any decrease in meter size (which would be possible given the requirements of the hose reel and domestic load alone) would seriously compromise fire fighting activities on the site.

On the foregoing basis, the 100 diameter meter must remain.

Yours faithfully,

J.K. HUMPHREYS. B.E. M.I.E.A. C.P.Eng.

CFO

DES
CFO

217



JOHN HUMPHREYS and ASSOCIATES PTY. LTD. 3

Consulting Mechanical and Electrical Engineers
and Project Managers

(INCORPORATED IN N.S.W.)

13 KABBERA BOULEVARDE,
KELSO N.S.W. 2795

A.B.N. 36 002 931 295
A.C.N. 002 931 295

TELEPHONE: (02) 6331 5717
FAX: (02) 6332 2107

17 December, 2004

The General Manager,
Bathurst Regional Council,
Civic Centre,
BATHURST. NSW. 2795.

BATHURST COUNCIL
20 DEC 2004
REF. 22.02006/003

Dear Sir,

**RE: CARTER R.W., W.E. & I.R., 11 ADRIENNE ST., RAGLAN
WATER METER SIZING**

The site was visited on 15th December, 2004 and points of water usage surveyed in relation to the size of the installed water meter.

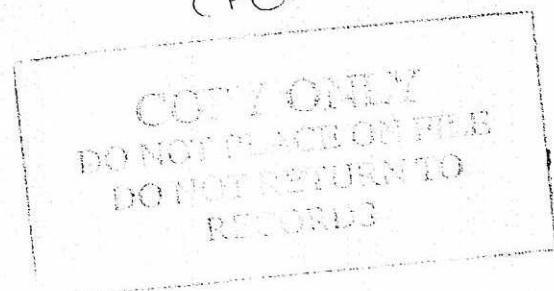
The mains water pressure was checked at 600 kPa and the following recommendation is made in relation to continuity of the existing standard of water service to the site, serving the following major points of discharge.

- 1 shower
- 2 basins
- 2 WC's
- 1 sink
- 4 hose reels
- 4 yard taps

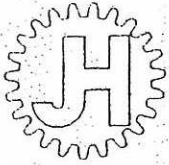
On the basis of the foregoing, with the diversity arising from there being three small commercial premises on the site, and allowing for 2 hose reels to operate simultaneously, the existing 40 diameter meter serving the premises can be reduced to 32 diameter.

Yours faithfully,

J.K. HUMPHREYS. B.E. M.I.E.A. C.P.Eng.



DES
CFO



JOHN HUMPHREYS and ASSOCIATES PTY. LTD.
Consulting Mechanical and Electrical Engineers
and Project Managers

(INCORPORATED IN N.S.W.)

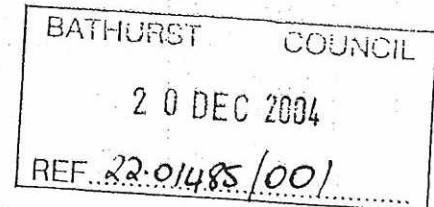
13 KABBERA BOULEVARDE,
KELSO N.S.W. 2795

A.B.N. 36 002 931 295
A.C.N. 002 931 295

TELEPHONE: (02) 6331 5717
FAX: (02) 6332 2107

17 December, 2004

The General Manager,
Bathurst Regional Council,
Civic Centre,
BATHURST, NSW. 2795.



Dear Sir,

RE: COVEPORT PTY. LTD., 1 ADRIENNE ST., RAGLAN
WATER METER SIZING

The site was visited on 15th December, 2004 and points of water usage surveyed in relation to the size of the installed water meter.

The mains water pressure was checked at 460 kPa and the following recommendation is made in relation to continuity of the existing standard of water service to the site, serving the following major points of discharge.

- 2 basins
- 2 WC's
- 1 urinal
- 1 sink
- 2 hose reels
- 4 yard taps
- 1 truck wash (2 X 25 Ø outlets)

On the basis of the foregoing, allowing for both hose reels to operate simultaneously, the existing 50 diameter meter should be retained.

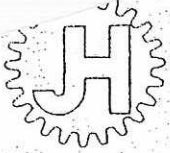
Yours faithfully,

J.K. HUMPHREYS. B.E. M.I.E.A. C.P.Eng.

CFO



DES
CFO



JOHN HUMPHREYS and ASSOCIATES PTY. LTD.

Consulting Mechanical and Electrical Engineers
and Project Managers

(INCORPORATED IN N.S.W.)

2

13 KABBERA BOULEVARDE,
KELSO N.S.W. 2795

A.B.N. 36 002 931 295
A.C.N. 002 931 295

TELEPHONE: (02) 6331 5717
FAX: (02) 6332 2107

17 December, 2004

The General Manager,
Bathurst Regional Council,
Civic Centre,
BATHURST. NSW. 2795.

BATHURST	COUNCIL
20 DEC 2004	
REF 22.01464 / 002	

Dear Sir,

**RE: CARTER R.W., W.E. & I.R., 9 ADRIENNE ST., RAGLAN
WATER METER SIZING**

The site was visited on 15th December, 2004 and points of water usage surveyed in relation to the size of the installed water meter.

The mains water pressure was checked at 600 kPa and the following recommendation is made in relation to continuity of the existing standard of water service to the site, serving the following major points of discharge.

- 1 shower
- 6 basins
- 6 WC's
- 2 sinks
- 4 hose reels

On the basis of the foregoing, with the diversity arising from there being a number of small commercial premises on the site and allowing for the simultaneous operation of 2 hose reels, the existing 50 diameter meter can be reduced to 32 diameter.

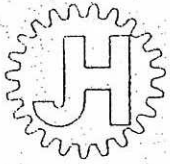
Yours faithfully,

J.K. HUMPHREYS. B.E. M.I.E.A. C.P.Eng.

DES
CFO

CFO
COPY ONLY
DO NOT REPRODUCE
WITHOUT PERMISSION

220



JOHN HUMPHREYS and ASSOCIATES PTY. LTD.

Consulting Mechanical and Electrical Engineers
and Project Managers

(INCORPORATED IN N.S.W.)

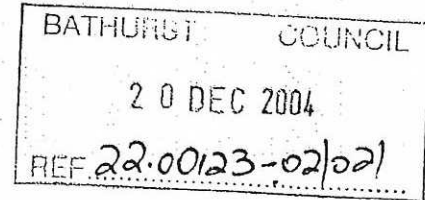
13 KABBERA BOULEVARDE,
KELSO N.S.W. 2795

A.B.N. 36 002 931 295
A.C.N. 002 931 295

TELEPHONE: (02) 6331 5717
FAX: (02) 6332 2107

17 December, 2004

The General Manager,
Bathurst Regional Council,
Civic Centre,
BATHURST. NSW. 2795.



Dear Sir,

RE: COVEPORT PTY. LTD., 5 ZAGREB ST., KELSO WATER METER SIZING

The site was visited on 15th December, 2004 and points of water usage surveyed in relation to the size of the installed water meter.

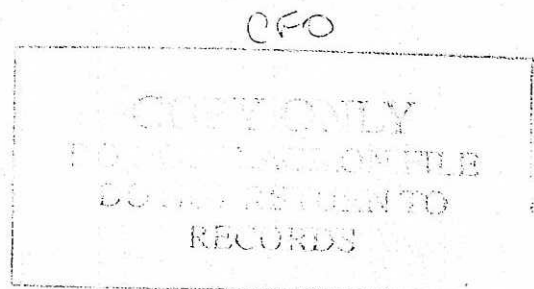
The mains water pressure was checked at 760 kPa and the following recommendation is made in relation to continuity of the existing standard of water service to the site, serving the following major points of discharge.

- 2 showers
- 2 basins
- 3 WC's
- 1 sink
- 8 hose reels
- 8 yard taps

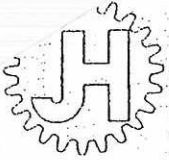
On the basis of the foregoing, allowing for 2 hose reels to operate simultaneously, the existing 80 diameter meter can be reduced to 40 diameter.

Yours faithfully,

J.K. HUMPHREYS. B.E. M.I.E.A. C.P.Eng.



DES
CFO



JOHN HUMPHREYS and ASSOCIATES PTY. LTD. ³

Consulting Mechanical and Electrical Engineers
and Project Managers

(INCORPORATED IN N.S.W.)

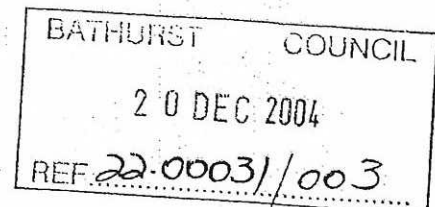
13 KABBERA BOULEVARDE,
KELSO N.S.W. 2795

A.B.N. 36 002 931 295
A.C.N. 002 931 295

TELEPHONE: (02) 6331 5717
FAX: (02) 6332 2107

17 December, 2004

The General Manager,
Bathurst Regional Council,
Civic Centre,
BATHURST. NSW. 2795.



Dear Sir,

**RE: CARTER R.W., W.E. & I.R., 2 LITTLEBOURNE ST., KELSO
WATER METER SIZING**

The site was visited on 15th December, 2004 and points of water usage surveyed in relation to the size of the installed water meter.

The mains water pressure was checked at 600 kPa and the following recommendation is made in relation to continuity of the existing standard of water service to the site, serving the following major points of discharge.

1. NORTH PORTION

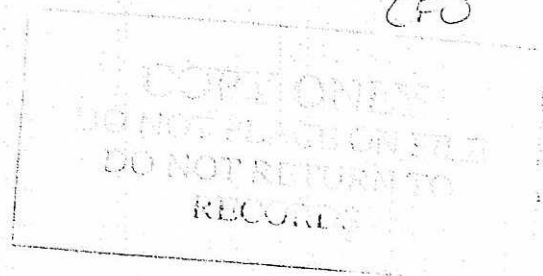
- 1 shower
- 2 basins
- 2 WC's
- 2 sinks
- 1 hose reel
- 1 yard tap

On the basis of the foregoing, the existing 40 diameter meter can be reduced to 25 diameter.

2. SOUTH PORTION

- 3 showers
- 6 basins
- 6 WC's
- 4 hose reels
- 4 yard taps

On the basis of the foregoing, allowing for 2 hose reels to operate simultaneously, the existing 32 diameter meter should be retained.



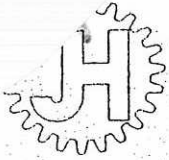
DES
CFD

222

Yours faithfully,

A handwritten signature in black ink, appearing to read 'J.K. Humphreys'. The signature is fluid and cursive, with a large, sweeping flourish at the end.

J.K. HUMPHREYS. B.E. M.I.E.A. C.P.Eng.



JOHN HUMPHREYS and ASSOCIATES PTY. LTD. /
**Consulting Mechanical and Electrical Engineers
and Project Managers**

(INCORPORATED IN N.S.W.)

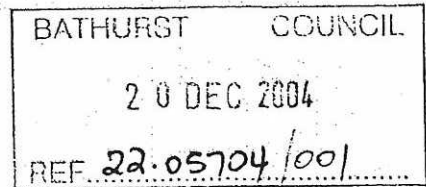
13 KABBERA BOULEVARDE,
KELSO N.S.W. 2795

A.B.N. 36 002 931 295
A.C.N. 002 931 295

TELEPHONE: (02) 6331 5717
FAX: (02) 6332 2107

17 December, 2004

The General Manager,
Bathurst Regional Council,
Civic Centre,
BATHURST. NSW. 2795.



Dear Sir,

**RE: CARTER BROS. ENGINEERING, 13 ADRIENNE ST., RAGLAN
WATER METER SIZING**

The site was visited on 15th December, 2004 and points of water usage surveyed in relation to the size of the installed water meter.

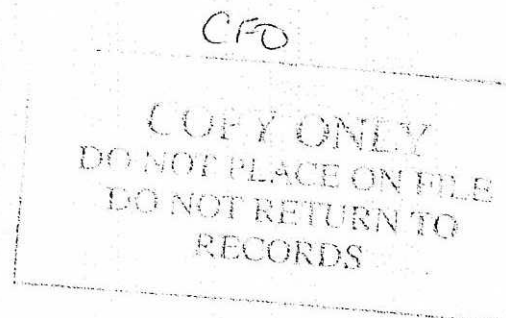
The mains water pressure was checked at 610 kPa and the following recommendation is made in relation to continuity of the existing standard of water service to the site, serving the following major points of discharge.

- 1 shower
- 2 basins
- 2 WC's
- 1 sink
- 3 hose reels
- 4 yard taps

On the basis of the foregoing, allowing for 2 hose reels to operate simultaneously, the existing 40 diameter meter can be reduced to 32 diameter.

Yours faithfully,

J.K. HUMPHREYS. B.E. M.I.E.A. C.P.Eng.



DES
CFD

234