## **FINAL REPORT**



## ALLIED FLOUR MILLS 2-32 Smith Street and 16-32 Edward Street, Summer Hill

**Infrastructure Issues Report** 

Prepared for:

EG Funds Management Level 14, 345 George Street Sydney NSW 2000

Meinhardt Infrastructure & Environment Pty Ltd A.C.N. 100 868 979	Project No:	3473-00
Level 2, 400 Kent Street, Sydney 2000	Revision:	05
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#### **Document status**

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#### 1 INTRODUCTION

Meinhardt was engaged to undertake a desktop study to review the existing infrastructure and determine potential constraints and opportunities for the future redevelopment of the Allied Flour Mills.

The preliminary investigations focused on:

- General topography and water runoff
- Stormwater quality and flooding
- Sewer and water
- Electricity
- Telecommunications
- Gas services

A services search was undertaken using "Dial Before You Dig" and utility services diagrams were obtained and are shown in Appendix C.

Subsequently further correspondence and discussions were held with the relevant authorities to determine their particular requirements for redevelopment of the site.



#### 2 PROPOSED DEVELOPMENT

#### 2.1 Background

The future development of the Allied Flour Mills site is expected to comprise a mix of retail, commercial and residential uses including townhouses, apartments and adaptive reuse of existing buildings and some of the silos. Additional areas will also be provided for open space and community facilities.

#### 2.2 Existing Site Characteristics



Figure 1 – Locality Plan

The site is located at 2-32 Smith Street and 2-32 Edward Street Summer Hill and comprises an area of 2.5ha. The site is bounded by Edward Street, Smith Street, Old Canterbury Road and a freight rail line to the east as shown in Figure 2.

The existing site development comprises several silos, processing buildings, administration offices, car parks, loadings docks, miscellaneous paved areas, landscaping, electricity substation as well as numerous other miscellaneous buildings.

A Sydney Water channel also traverses the site. It is noted that the east corner of the stormwater channel is in the Marrickville Council LGA and the remainder of the site is on the Ashfield Council LGA. As such the site will require separate approvals from each council.

A low point is located in Smith Street containing a large Sydney Water stormwater pipe, which traverses the north boundary of the site.



Figure 2 - Allied Mills Site Plan

#### **3 PRELIMINARY ENGINEERING STUDIES**

#### 3.1 General Topography

A review of survey drawings for the proposed development indicated that the Allied Mills site is bounded by Edward Street, which falls about 2m vertically south to north, and Smith Street, which falls 0.7m vertically to a low point near the substation, which is about 67m east of Edward Street (RL 9.70m AHD).

The site generally falls at about 1% south to north and about 3% west to east with a low point located on the northeast corner (RL 8.7m AHD) and a high point on the southwest corner (RL14.93 AHD).

#### 3.2 Stormwater and flooding

The existing site consists of limited stormwater drainage. It is likely that the stormwater pipes running through the site are undersized and is expected that the proposed development will replace all existing stormwater pits and pipes currently on site.

It is envisaged that Onsite Stormwater Detention (OSD) may be required for the proposed development as the Ashfield Council Stormwater Management Code; April 1995, states that the site runoff from the proposed development cannot exceed runoff prior to development.

It has been assumed that the existing stormwater drains to the Sydney Water channel located on the northeast corner of the site. If the proposed stormwater were to drain to this channel, Sydney Water OSD code may apply.

The existing Sydney Water Corporation (SWC) channel runs under the existing building located on the northeast corner of the site. Furthermore this channel is an unattractive structure as it contains several graffiti marks and also very steep slopes. The channel slopes are 1 in 5 and is approximately 3m wide by 2.3m deep. Refer to Photo 1, 2 and 3 in Appendix B for visual representations of this channel.

SWC has undertaken a stormwater study of the Hawthorne Canal SWC 62 in order to assess the current quantitative performance for the study area. The study also gives an estimate of the impact of simulated urban consolidation on that performance.

Based on the study, SWC have determined the capacity of the channel at various locations. In summary the capacity of the channel varies from 1 in 2 year to 1 in 20 year ARI. The various capacities of these channels can be seen on the plan in Appendix A.

A more extensive flood study would need to be prepared to determine the flood impact on the site and the effect on the development.

#### 3.3 Sewer

The existing sewer system consists of a 525mm vitreous clay trunk sewer main located on the west side of the site adjacent to the western boundary. Two other small sewer drains are located in isolated areas of the site.

As a result of increased development on the site it will be necessary to upgrade the sewerage system, as it is unlikely that the existing system will have sufficient capacity and be located in an appropriate location for reuse.

#### 3.4 Potable Water

The existing potable water system consists of a 500mm water main located on the east and west sides of Edward Street and also north and southern sides of Smith Street.

A 300mm water main is located on the north side of Smith Street and also a 150mm water main on the west side of Edward Street.

The potable water availability on the site seems to be adequate however the capacities of the water mains are unknown at this stage. Further investigations will be required by SWC in order to assess the capacity of the existing system and will be the subject of future applications and negotiations with SWC.

#### 3.5 Electricity

The existing Allied Mills site consists of an electricity substation located on the north end of the site. This substation has multiple high and low voltage cables, which seem to service the west side of Edward Street as well as both north and south sides of Smith Street.

The substation appears to be old and services both the Allied Mills property and surrounding area.

It is unknown at this point in time whether this substation can be used to supply power to the proposed development. Further investigations will be required with Integral Energy once a site masterplan has been prepared.

#### 3.6 Telecommunications

A review of telecommunications in the study area indicates:

- A telecommunications lead-in cable entering the Allied Mills site from Smith Street to an above ground pillar/cabinet located at the Administration building.
- An under ground telecommunications conduit is reticulated on the eastern side of Edward Street.
- The conduit runs from Smith Street towards Old Canterbury Road ending at the last property (No. 46.)
- Starting from Smith Street the conduit is 50mm in diameter for approx 33% of Edward Street length, then 30mm for 60%, then 10mm for the remaining.
- There is an under ground telecommunications conduit reticulated in Smith Street (from west to east), on the southern side of the street.
- The conduit infrastructure running from the corner of Edwards Street and Smith Street is a 2x50mm & 2x100mm, where the 2x100mm conduit continues into the site through to the administration building.
- Some of the conduits in the area are made from asbestos.

Notwithstanding the above, the area surrounding the site has a significant telecommunications network however the capacity is not known. Subject to obtaining a concept development plan for the site, it will be possible to progress discussion with Telstra and advise on what further works my be required.

#### 3.7 Gas Services

A review of Agility plans indicated that there is a small 32mm main on the north side of Smith Street and also one on the east side of Edward Street.

A large 550mm high-pressure primary main is located under Edward Street. It will be proposed that the gas service from the proposed property be connected to this line however a regulator may be required to control pressure from this main if this connection is allowable by Agility. Further correspondence will be required with Agility in order to determine this.

#### 4 **REFERENCES**

1. "Hawthorne Canal SWC 62, Capacity Assessment", May 1998, Sydney Water.



#### APPENDIX A – HAWTHORNE CANAL SWC 62 CAPACITY ASSESSMENT PLAN



Approximate location of Allied Mills



#### **APPENDIX B – SYDNEY WATER CHANNEL PHOTOS**



Photo 1 – Hawthorne Canal looking north toward Smith Street from ???building



Photo 2 – Hawthorne Canal north of building



Photo 3 – Hawthorne Canal looking south toward building. Note rail line on the left.



#### **APPENDIX C – SERVICE DIAGRAMS**

PO Box 7710 Melbourne VIC 8004 Phone: 1100 Fax: 1300 652 077 www.dialbeforeyoudig.com.au

#### **DIAL BEFORE YOU DIG Caller Confirmation**



To: Mr Erhan Eroksuz Enquiry Date: Priority Type:

09/01/2008 5:03:19 PM Normal - Web

Job No: 2715980 Start Date: 09/01/2008

Dig Safely - ensure all information has been received prior to excavating and hand expose pipes and cables before using heavy machinery.

The asset owners listed below have been advised of your enquiry. We have requested that they contact you with information of their asset locations, within 2 working days. Additional time should be allowed for information issued by post.

\*\* Asset owners highlighted by asterisks \*\* require that you visit their offices to collect plans.

# Asset owners highlighted with a hash require that you call them to discuss your enquiry or to obtain plans.

It is your responsibility to check that the location of the dig site on the map below is correct and to contact any other asset owners not listed herein.

Seq No.	Asset Owner	Contact No	Notification Status
13050237	Marrickville	0293352000	Notified
13050238	Roads & Traffic Authority #	0288370896	Notified
13050243	RailCorp Metro South **	0297528204	Notified
13050235	Energyaustralia, Eastern	0249510899	Notified
13050236	Energyaustralia Southern	0249510899	Notified
13050239	Teistra, Burwood	1800653935	Notified
13050240	Telstra, Newtown	1800653935	Notified
13050244	Optus Networks, Nsw	1800505777	Notified
13050241	Agility, South	1300880906	Notified
13050242	Sydney Water	0293506744	Notified

Customer Id:	612850
Contact:	Mr Erhan Eroksuz
Company:	Meinhardt
Address:	Level 2 400 Kent ST
	Sydney NSW 2000

Phone: 0296993088 Mobile: 0405816925 Fax No: 0293197508 Email: erhan@nsw.meinhardt.com.au

LOCALITY INDICATION ONLY	Location Details	
254,14 254,14 10 10 10 10 10 10 10 10 10 10	<u>WARNING</u>	The adjacent map displays the location of the dig site only and does not display any asset owner's pipes or cables. Asset owners' will send you plans directly.
	Address:	Edward St And Smith St Summer Hill NSW 2130
254,15	Intersection:	Smith ST
Tubson St Cost	Side of Street:	В
Statistical and a statistical	Distance:	10m B
	Activity:	Planning & Design
	Location Type:	Both Private Property & Road
as as Did Canterburge RO 86. 4		Reserve
	For Planning:	Yes
	Traffic Affected:	No
	Parcel ID:	
	Property Ph No:	

Map Ref: UbdSyd 254K4;254L4;254K5;254L5;254K6;254L6 Additional work site information: ^~\*\*\* Non conformance Start Date \*\*\* Marrickville Council 2 - 14 Fisher St Petersham NSW 2049 Phone:(02) 9335 2222 Fax: (02) 9335 2029



# Dial Before You Dig Enquiry Response

#### Date: 11/01/2008

Re : DBYD Sequence No. 13050237			
То :	Mr Erhan Eroksuz	Phone :	0296993088
Customer ID :	612850	Mobile :	0405816925
Company :	Meinhardt	Fax :	0293197508
Address :	Level 2 400 Kent ST	E-Mail :	erhan@nsw.meinhardt.com.au

We refer to the above Dial Before You Dig notification at: -

Edward St And Smith St Summer Hill 2130 NSW		Ph	
Side of Street :	В	Distance from Street :	10m B
Intersection :	Smith ST	Private/Road/Both :	В
GP X Coordinate :		GP Y Coordinate :	
Мар Туре :	UbdSyd	Map Reference :	254K4, 254L4, 254K5, 254L5, 254K6, 254L6

### Attached to this response are the following documents:

Affected Assets : Drainage

**DISCLAIMER:** This map has been prepared from various sources and the publisher and/or contributors accept no responsibility for any injury, loss or damage arising from its use or errors or omissions therein.

**WARNING:** This plan has been prepared for Council's Purposes only. Council does not guarantee the accuracy of the information shown in this plan. Persons are advised to make their own investigations and site checks to confirm the actual situation on site.

















Drainage Map 8 of 20	
SEQUENCE NUMBER : 13050237	DATE : 11/01/2008
LOCATION : Edward St And Smith St	
	· · · · · · · · · · · · · · · · · · ·
8	
<b>SCALE:</b> 1 : 525	
900 PIT DIAMETER - KERB	PIT
60 HOUSE NUMBERS - PIPE	ROADS
WEST ST STREET NAME O PIT JUNCTION	PROPERTY
SUBURBS	



Drainage Map 10 of 20	
SEQUENCE NUMBER : 13050237	DATE : 11/01/2008
LOCATION : Edward St And Smith St	
10	
SCALE: 1 : 525	
LEGEND	
	PIT ROADS
	PROPERTY



Drainage Map 12 of 20	
SEQUENCE NUMBER : 13050237	DATE : 11/01/2008
LOCATION : Edward St And Smith St	
12	
SCALE: 1 : 525	
	PIT
60 HOUSE NUMBERS - PIPE WEST ST STREET NAME OPIT	ROADS
SUBURBS	PROPERTY
















e 1
- 1

From: To:	<dbydgis@sydneywater.com.au> <erhan@nsw.meinhardt.com.au></erhan@nsw.meinhardt.com.au></dbydgis@sydneywater.com.au>
Date:	9/01/2008 7:53 pm
	DBYD: JobSequence#: 13050242
	MAP_000000000000000001358.pdf; AutoDBYD_Cover_Sheet.pdf;
DBYD_Legend.pdf	

Attention: Mr Erhan Eroksuz To: erhan@nsw.meinhardt.com.au Sequence number: 13050242 The attached plans of Sydney Water assets are in response to your Dial Before You Dig enquiry. To view them you need Adobe Acrobat Reader. PLEASE DO NOT RESPOND TO THIS EMAIL ADDRESS. Pages: 6 Documents: 3

By recycling we save our drinking water for drinking.

Want to keep up-to-date with the latest news from Sydney Water? Subscribe to Sydney Water online, our electronic newsletter at www.sydneywater.com.au

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### PIPELINE LOCATION INFORMATION

Accuracy of plans not to be assumed – see Clause 4. Plans not for conveyancing purposes.



### ATTENTION

The accompanying plan(s) in relation to Sydney Water's pipelines are forwarded in response to your recent Dial Before You Dig inquiry. Please note the following important information and bases upon which the plan(s) are issued:

 The accompanying plans have been generated by an automated system. The plans should cover the area highlighted in the "Locality Indication Only" window on your Caller Confirmation. It is that defined area which is used to automatically generate the plans and not UBD or address information or any free text information provided to Dial Before You Dig. It is important, therefore, that you be accurate in defining your dig site when you lodge your enquiry with Dial Before You Dig. It is the enquirer's responsibility to resubmit the enquiry to Dial Before You Dig if the information supplied does not match the proposed dig site.

Sydney

VATER

- 2. Plans indicate the general position of Sydney Water's pipelines and associated structures and fittings ("pipelines") at the time of their construction. Sydney Water does NOT guarantee that all its existing pipelines are shown on the plans (Particular care should be exercised in newer developments as pipeline details may not yet have been supplied to Sydney Water). Plans have NOT necessarily been adjusted to reflect any subsequent changes to surface levels, road alignments, fences, buildings and the like. Pipeline locations are approximate and, accordingly, the plans are NOT suitable for scaling purposes.
- Plans do NOT show locations of property services (often called house service lines) belonging to and/or serving individual customers, and which are usually connected to Sydney Water's pipelines.
- 4. The plans have been prepared and are only intended for Sydney Water's own use. Sydney Water does not supply the plans on a commercial basis because it cannot and will not warrant their accuracy or completeness. It supplies them free of charge only with a view to reducing the very real risk of inadvertent damage being caused to its pipelines. Accordingly, Sydney Water accepts no liability for any inaccuracies in the information or lack of information on the plans.
- To determine their precise location, Sydney Water's pipelines MUST first be exposed by pot-holing using hand-held tools or vacuum techniques i.e. **before** any mechanical means of excavation are employed.

- Asbestos cement pipelines may form part of Sydney Water's water and sewerage reticulation systems and, if damaged, can pose a risk to health.
- Persons excavating in the vicinity of Sydney Water's pipelines MUST exercise care and suitably protect Sydney Water's pipelines. Protection may include timbering, sheet piling, support and/or bracing or tomming to prevent movement.
- Any movement in a pipeline could result in joint failure, flooding and death or injury to persons (in addition to damaged assets). The protection of Sydney Water's pipelines benefits the safety of workers.
- Constructors are legally responsible for any damage and financial loss resulting from their interfering with Sydney Water's pipelines. In an emergency, call 13 20 90 (24 hours, 7 days).
- Minimum clearances MUST be maintained between Sydney Water's pipelines and underground services belonging to other parties.
- Plans MUST be approved by Sydney Water (usually signified by stamping) prior to landscaping and/or building over or adjacent to any Sydney Water asset.
- Backfilling of excavation work in the immediate vicinity of Sydney Water's pipelines MUST comply with Sydney Water's standards.

Further information and guidance is available on Sydney Water's website at **www.sydneywater.com.au** / Building Developing and Plumbing where the following documents can be found under Dial Before You Dig:

- Avoid Damaging Water and Sewer Pipelines
- Water Main Symbols
- Sewer Symbols
- Depths of Mains
- Guidelines for Building Over/Adjacent to Sydney Water Assets
- Clearances Between Underground Services

or call 13 20 92 for Customer Enquiries.

#### NOTE:

If you lodged your enquiry via telephone or facsimile, be aware that on-line enquiries 24 hours per day 7 days per week to **www.dialbeforeyoudig.com.au** will enable you to receive colour plans in .pdf format 24/7 via email.

If you have any questions concerning DBYD requests, call (02) 9350 6744 Monday to Friday, between 8 am and 4 pm.

NOTICE: This communication is confidential. If you are not the nominated recipient, please destroy all copies immediately. Sydney Water Corporation prohibits unauthorised copying and/or distribution of this communication.

Doc. Name: AutoDBYD\_Cover\_Sheet\_03 Doc Controller: Policy, Standards & Materials Manager

# Hydra Legend



Sewer		Property Details
Sewer Main (with flow arrow & size type annotation)	225 PVC	Boundary Line
Disused Main		SIII
Pressure Main (Rising Main)		Lot Number
Maintenance Hole with upstream depth to inve	1.7	House Number
Terminal Maintenance Shaft	TMS	Development Application Reference
Maintenance Shaft	Q	8
Maintenance Hole with Overflow Weir	×	Location of SWC Heritage item - Please call <b>13 20 92</b> during office hours and ask for the <b>Heritage Unit</b> .
Rodding Point		
Ventshaft INDUCT	<b>1</b> 5	Water           Water Main - Potable         200 PVC           (with size type annotation)         200 PVC
Ventshaft EDUCT		Disconnected Main - Potable
Vertical		Proposed Main - Potable
Lamphole		Water Main - Recycled
Property Connection Point (with chainage to downstream MH)		Special Supply Conditions - Potable
Concrete Encased Section		Special Supply Conditions - Recycled
Sewer Rehabilitation		Restrained Joints - Potable
Pumping Station		Restrained Joints - Recycled
	SP0882	Hydrant
Sewer Mining	SM	Maintenance Hole
Sewer - Low Pressure Sewer	r	Stop Valve
Low Pressure Sewer Main		Stop Valve with By-pass
Pump Unit (Alarm, Electrical Cable, Pump Unit)	A0	Stop Valve with Tapers
Property Valve Boundary Assembly		Closed Stop Valve
Stop Valve		Air Valve
Reducer / Taper		Valve
Flushing Point	R	Scour 👳
		Reducer / Taper
Sewer - Vacuum		Vertical Bends
Vacuum Sewer Main		Reservoir
Divisional Valve		Symbols for Recycled Water as per Potable above.
Vacuum Chamber	—ф	Main and Symbol colour as indicated.
Clean Out Point	@	Private Mains
Stormwater		Potable Water Main
Stormwater Pipe		Recycled Water Main
Stormwater Channel		Sewer Main
Stormwater Gully	Ħ	Symbols for Private Mains shown grey.
Stormwater Maintenance Hole		Main colour as indicated. Sydney Water - 15 August 2007

## **PIPELINE MATERIAL ABBREVIATIONS**

ABBREVIATION	INTERPRETATION
ABS	acrylonitrile butadiene styrene
AC	asbestos cement
BRICK	brick
CI	cast iron
CICL	cast iron cement lined
CONC	concrete
COPPER	copper
DI	ductile iron
DICL	ductile iron cement (mortar) lined
EPDM	ethylene propylene diene monomer
EW	earthenware
FIBG	fibreglass
FL BAR	forged locking bar
GI	galvanised iron
GRP	glass reinforced polyester
HDPE	high density polyethylene
MS	mild steel
MSCL	mild steel cement lined
PE	polyethylene
PP	polypropylene
PVC	polyvinylchloride
PVC-M	polyvinylchloride modified
PVC-O	polyvinylchloride oriented
PVC PW	polyvinylchloride profile wall
PVC SW	polyvinylchloride smooth wall
PVC-U	polyvinylchloride unplasticised
RC	reinforced concrete
S	steel
SCL	steel cement (mortar) lined
SGW	salt glazed ware
SS	stainless steel
STONE	stone
VC	vitrified clay
WI <sup>+</sup>	wrought iron
WS	woodstave









GAS

In reply to your enquiry, there are gas mains at the location of your intended work as per the attached map. For an explanation of the map, please see the key below. The following excavation guidelines apply:

### **Excavation Guidelines:**

If you are going to excavate/bore within 0.4m of the gas main location as indicated on the map you must excavate carefully by hand. If you can't locate the gas main, contact the local depot.

### Sydney South (02) 9397 9289 Wollongong (02) 9397 9289

		KEY	
MAXIMUM ALLOWABLE OPERATI	NG PRESSURE 7000 kPa 3500 kPa 1050 kPa 210 kPa 7 kPa 400 kPa 100 kPa 30 kPa 2 kPa	S 6NB 150MM 100MM PE/NY (S) NB 50MM NY 1.2MBL 123	VALVE SYSTEM PRESSURE REGULATOR SIPHON 6 INCH CAST IRON MAIN ISOMM STEEL MAIN IIOMM POLYETHYLENE / NYLON MAIN 50MM NYLON INSERTED INTO 6 INCH CAST IRON MAIN DISTANCE IN METRES OF MAIN FROM BUILDING LINE (TOLERANCE OF 0.4M HOUSE NUMBERS NETWORK BOUNDARY NETWORK NODES

Warning: This company's plans show the position of it's underground gas mains and installations in public gazetted roads only, <u>individual customers services are not</u> <u>included</u> on these plans. These plans have been prepared solely for the Companies own use and may show the position of such underground mains and installations relative to fences, buildings etc., as at the time the mains etc were installed and not necessarily corrected to take account of any subsequent change in particular. Agility will accept no liability for inaccuracies in the information or lack of information on such plans for any cause whatsoever arising. Persons excavating or carrying out other earthworks will be held responsible for any damage caused to the Companies underground mains and equipment.

### In case of Emergency Phone 131 909 (24 hours)

Dianita 9397 9407 1300 725 905

Agility Management Pty Ltd ABN 53 086 013 461



In reply to your enquiry, there is **High Pressure Gas Mains** at the location of your intended work as per the attached map. For an explanation of the map, please see the key below. The following excavations guidelines apply:

#### **Excavation Guidelines:**

You must contact a Pipeline Patrol Officer *before* commencing any work in this area. If you have not already been contacted, you can arrange a survey, which is free, by contacting the High Pressure Response Coordinator on 1300 665 380. (*Please note that two working days notice is required to arrange a survey*).

		KEY	
MAXIMUM ALLOWABLE OPERATI	NG PRESSURE 7000 kPa 3500 kPa 1050 kPa 300 kPa 210 kPa 7 kPa 400 kPa 100 kPa 30 kPa 2 kPa	S 6NB 150MM 100MM PE/NY 6 NB 50MM NY 1.2MBL 1.2MBL	VALVE SYSTEM PRESSURE REGULATOR SIPHON 6 INCH CAST IRON MAIN ISOMM STEEL MAIN IIOMM POLYETHYLENE / NYLON MAIN SOMM NYLON INSERTED INTO 6 INCH CAST IRON MAIN DISTANCE IN METRES OF MAIN FROM BUILDING LINE (TOLERANCE OF 0.4M) HOUSE NUMBERS NETWORK BOUNDARY NETWORK NODES

**Warning:** This company's plans show the position of it's underground gas mains and installations in public gazetted roads only, <u>individual customers services are not</u> <u>included</u> on these plans. These plans have been prepared solely for the Companies own use and may show the position of such underground mains and installations relative to fences, buildings etc., as at the time the mains etc were installed and not necessarily corrected to take account of any subsequent change in particular. Agility will accept no liability for inaccuracies in the information or lack of information on such plans for any cause whatsoever arising. Persons excavating or carrying out other earthworks will be held responsible for any damage caused to the Companies underground mains and equipment.

#### In case of Emergency Phone 131 909 (24 hours)

Dianita 9397 9407 1300 725 905

Agility Management Pty Ltd ABN 53 086 013 461







From:EAOCAS Admin <eadmin@energy.com.au>To:<erhan@nsw.meinhardt.com.au>Date:9/01/2008 7:28 pmSubject:EnergyAustralia DBYD Sequence No: 13050236Attachments:COMN0119 How To Read EA Plans.zip

Underground Cable Location Search Advice

EnergyAustralia ASSETS AFFECTED

To: Mr Erhan Eroksuz Meinhardt Level 2 400 Kent ST Sydney NSW 2000

Fax No: 0293197508

Phone No: 0296993088

Issue Date: 9/01/2008

In response to your enquiry, Sequence No: 13050236 the records of EnergyAustralia disclose that there are underground cables of EnergyAustralia in the search location based on the graphical position of the digsite as denoted in the Dial Before You Dig caller confirmation sheet.

Address . . . : Edward St And Smith St Summer Hill NSW

Intersecting Streets: Smith ST

Side of Street: B

Map Ref . . . : UbdSyd 254K4,254L4,254K5,254L5,254K6,254L6

YOUR PLANS HAVE BEEN POSTED. (Please contact the G.I.S office on 02-49510899 if the plans are not received within 3 working days.) A reference document "How To Read Energy Australia Plans" is attached to this email.

In the interest of conserving natural resources, Energy Australia encourages customers of the Dial Before You Dig service to consider requesting the relevant information as an email attachment. When such a request is made, the information is supplied by Energy Australia as a .pdf (Portable Document Format) attachment. These are easily viewed with the popular and free Adobe Acrobat Reader software. IF YOU WISH TO RECEIVE YOUR PLANS VIA EMAIL IN FUTURE - please contact (02)49510899 or email eaocas@energy.com.au

Provide your customer ID number, email address and indicate if you are connected via dial-up or broadband.

### 1. Property Lines

- "property line" (PL), sometimes referred to as "building line" (BL), is the standard dimensioning reference point on all EA plans and represents property boundaries.
- Typically the PL is the boundary between private property & local council's footpath area or nature reserve. Most residential fences and office blocks are erected along the PL.
- "kerb line" (KL) is less frequently referred to on EA plans, and where used will be identified clearly as KL.
- Numbers listed within property boundaries should correspond to recognised "street numbers".



### 2. Datum References

• "datum references" identify distances (in metres) from significant features (such as corners of property boundaries) to reference points such as EA assets (eg: "conduits", "cables", "joints").



### 3. Cross Sections

- "cross sections" displayed on EA plans detail information relating to the relative position (ie: distance from the "property line", and the depth of "cover") of EA assets.
- "cover" is a term used to refer to the depth of cables underground.
- A "cross section" leader line will be drawn indicating the location of the displayed "cable" or "conduit" information on EA plans.
- The distance from "property line" (in metres) and depth of "cover" (in metres) references are displayed as;

   <sup>0.6</sup>/<sub>0.5</sub>
   (ie: 0.6 metres from PL and 0.5 metres underground).
- Where distance and cover are not recorded, they will be clearly marked as "NR".
- Note: distance and cover where indicated may be different to the actual position of the cables (eg: fill may have been placed at site that has changed the ground level).



• On some A3 plans the "cross sections" may also be shown with a specific number (eg: FC1). This number will have an arrow pointing in the direction you will need to look for the cross-section detail. (as shown in picture below)



### 4. Cable Joints and Joint Reports

• "cable joints" (numbered individually) and "joint reports" (attached to EA plans) can provide information relating to the relative position of EA assets, distance from the "property line" (in metres), and the depth of "cover" (in metres).



### 5. Cross Section Detail Boxes

- "cross section" <u>detail boxes</u> on the sides of an EA plot are used when there is insufficent room to display "cable" and / or "conduit" information on the EA plot.
- EA plans are bordered by numeric identifiers along the <u>top and bottom borders</u> and alpha identifiers along the <u>side borders</u>.





A "cross section" <u>leader line</u> and annotation is drawn on the EA plot for a reference to "cable" and/or "conduit" information in the "cross section" <u>detail boxes</u>.

#### 6. Pits

• Underground "pits" are numbered on EA plans, positioned relative to the "property line" (PL), and can be found on either the footpath (nature strip) or the road.



### 7. Proposal Areas

- There are areas where underground work may have been issued for construction by EA, but details are not yet completely displayed on EA plans. In such cases <u>a shaded</u> "**proposal area**" is displayed on the EA plan, indicating underground work may have commenced in the vicinity but is not yet complete.
- In some instances cables and other assets within the shaded "**proposal area**" will be shown in a **bright magenta** colour, indicating that the <u>proposed</u> new work displayed within the shaded area is based on initial planning documentation.



• In other instances the shaded "**proposal area**" itself may be shown as a **blue** colour, indicating that the new work displayed within the shaded area on the EA plan is yet to include details regarding final depths and dimensioning.



• Please note: in cases where these shaded "proposal areas" are displayed on EA plans; "EnergyAustralia's design plans showing the proposed position of its underground cables, overhead lines and structures have been prepared solely for EnergyAustralia's own planning use. They show the proposed position of such underground cables, overhead lines and structures as proposed at the time of planning and have not necessarily been corrected to take into account any changes to road widths, road levels, fences and buildings subsequent to proposed installation. Actual installations may vary from proposed installations as it may be necessary to take account of unforeseen above ground or subterranean constructions. Therefore, EnergyAustralia does not hold out that the design plans show more than the proposed presence or absence of its underground cables, overhead lines and structures in the street and will accept no liability for inaccuracies in the information shown on such design plans from any cause whatsoever."

- Any further information regarding information displayed for "**proposal areas**" can be obtained by contacting the EnergyAustralia One Call Automation (EAOCAS) office at the number indicated on the response to your DBYD enquiry for further information.
- If you notice an orange shaded area on your plan, DO NOT PROCEED with excavation.
- You will need to contact the EnergyAustralia One Call Automation (EAOCAS) office at the number indicated on the response to your DBYD enquiry and arrange for assistance. (see sample below)



### 8. EA (ISG) Map Grid

- The pale grey line indicates the 1:1000 EA (ISG) map grid border.
- The <u>pale grey annotation</u> located in the corners of the EA plot window, indicates the **1:1000 EA (ISG) map grid** <u>reference</u>.



- The 1:1000 EA (ISG) map grid <u>border and reference</u> on EA plans should be used when reading the "joint report" (see part 4 of this document for more detail) to accurately locate underground cables.
- The buffer area shown on the plan should relate to the area requested on the original Dial Before you Dig request.
- The grid index box can be used for reference where necessary (located in the bottom right corner of the EA plans), and will also indicate the buffer area shown on the plan.

EA (ISG) GRID			GRID		
FF53122	FF53211	FF53212	176N6	176P6	176Q6
FF5312	FF <b>F</b> 3213	FF53214	176N7	176P7	176Q7
FF53142	FF53231	FF53232	176N8	176P8	176Q8

### 9. EA "Distribution" and "Transmission" Plots

- The EA plans supplied may identify both "distribution" and "transmission" voltage assets for the area defined in the DBYD request.
- In the <u>Sydney region</u>, the **EA plans** are separately labelled as "**Distribution nnnnnnn**" & "**Transmission nnnnnnn**", where "nnnnnnn" refers to the DBYD sequence number quoted.



• In the <u>Hunter region</u>, the **EA plans** show <u>combined</u> "distribution" and "transmission" voltage assets, and are clearly labelled as "Distr + Trans – nnnnnn" where "nnnnnn" refers to the DBYD sequence number.



- In the <u>Hunter region</u>, some DBYD requests are covered by PENGUIN grid references.
- In such cases, the EA Plans show the grid quoted with a cross-reference to a corresponding EA (ISG) map grid (eg: PENGUIN 136B3 DP711, where DP711 is the EA (ISG) grid) to optimise the legibility of plans due to PENGUIN grid scale.



Some Hunter plans may have transmission cables in the area, when these cables are present there will be a warning printed at the top of the plan supplied:

WARNING: If there is work in the vicinity of transmission cables, EnergyAustralia must be contacted at least two weeks before the work is due to commence (See Clause 2.3)



### 10. "Shifting Land Base" On EA Distribution and Transmission Plots

 In some instances, the plans supplied may indicate road or property outlines that appear to have shifted in relation to the EA assets displayed.



In such instances, <u>always refer</u> to the "**property line**" (in metres) and depth of "**cover**" (in metres) references displayed on the nearest relevant "**cross sections**" to obtain EA asset location information (see Appendix C *Reading EnergyAustralia Plans*, section 3, Cross Sections for more detail).

HEDDAGEMANAKEI

If further information is required, please contact:

EnergyAustralia GIS Operations Phone: (02) 4951 0899 Fax: (02) 4951 0729

Page Oİ. 3

Emergency Phone Number 131388

	Job No.			
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y Phone Number 131388	Distribulio			

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### **Underground Cable Location** Search Advice

### - EnergyAustralia Assets Affected -

This search is based on the graphical position of the cigsite

as denoted in the Dial Before You Dig caller confirmation sheet.

To:	Mr Erhan Eroksuz		Fax No:	0293197508
	Meinhardt		Phone No:	0296993088
	Level 2 400 Kent ST		Issue Date:	9/01/2008
	Sydney NSW 2000	a. 4	No. of Pages:	3

In response to your enquiry, Sequence No: 13050283 the records of EnergyAustralia disclose that there are underground cables of EnergyAustralia in the search location (described by the map reference below):

Address:	Lyons Rd And Great North Rd Five Dock NSW 2046			
Intersecting Streets:	Great North RD			
Side of Street:	В			
Ref:	UbdSyd	234E7,234F7,234G7,234E8,234F8,234G8		

Details of EnergyAustralia's plans supplied : Distr GML

These plans are (mark "X" in appropriate box):-

Attached.	98 - K
Following immediately by Fax.	
Held atG.I.S office for collection b courier/agent as per your instructions.	y your

Posted. (Please contact the G.I.S office number indicated above if the X plans are not received within 3 working days.)

### ALL INFORMATION PROVIDED TO YOU IS ONLY VALID FOR 28 DAYS FROM THE DATE OF ISSUE.

YOU MUST READ AND UNDERSTAND THE IMPORTANT INFORMATION ON PAGE 2 OF THIS ADVICE.

### IMPORTANT INFORMATION

### YOU MUST BE AWARE THAT:

- 1. There may be underground cables owned by other utilities, in the vicinity of your work, about which EnergyAustralia has no information.
- 2. EnergyAustralia does not usually keep plans of privately owned underground cables or its underground service cables on private property. (Refer NS 0156 Clause 2.1 for further information.)

### YOU MUST MAKE YOUR OWN ENQUIRIES IN RESPECT OF THESE CABLES.

### YOU MUST UNDERSTAND THAT:

- EnergyAustralia takes all reasonable care in providing details of its underground cables. However, owing to changes in road and footway alignments and levels, and the age and incompleteness of some records, it is not possible to conclusively specify the location of all of EnergyAustralia's underground cables. The accuracy and completeness of the information provided to you cannot be guaranteed. It is intended to be indicative only. It must not be solely relied upon when undertaking underground works.
- 2. Except to the extent that liability may not be capable of lawful exclusion, EnergyAustralia, its servants and agents will be under no liability whatsoever to any person for loss or damage (including indirect or consequential loss or damage) however caused (including without limitation, for breach of contract, negligence and breach of statute) which may be suffered or incurred from or in connection with the advice provided.
- 3. Due to the inherent dangers associated with excavation in the vicinity of underground cables, precautions must always be taken when undertaking any underground works. EnergyAustralia's Network Standard NS 0156 specifies standards for working in the vicinity of underground cables. It is deemed to be part of this Advice, and it <u>must</u> be read by you.

### YOU <u>MUST</u> READ NETWORK STANDARD NS 0156 (AS AMENDED BY LATEST NSA 1289 MAY 2007), WORKING NEAR OR AROUND UNDERGROUND CABLES. IT IS PART OF THIS ADVICE.

### ENERGYAUSTRALIA CHECKLIST FOR WORK NEAR OR AROUND UNDERGROUND CABLES

It is the responsibility of the Constructor to ensure that underground pits, ducts and cables are not damaged as a result of construction work. It is also your duty to protect your workers from harm or injury. This Checklist is intended to be used as a guide to what Constructors should do to make sure they have satisfied the minimum requirements to minimise damage to underground networks.

### PLANS, LOCATION and NOTIFICATIONS

Done Have you obtained all relevant utilities plans by calling "1100" - Dial Before You Dig service? (Allow at least 5 working days for plans).

Have you examined the plans and assessed all possible impacts on EnergyAustralia's network?

Do you have both Underground Distribution & Transmission Plans (if applicable), on site at all times?

Have all cables and conduits shown on the EnergyAustralia plans been located and marked on the ground?

If you are planning to use a BORE, have you ensured that the equipment is calibrated?

Have you obtained a current copy and understood the requirements of EnergyAustralia's Network Standard NS 0156 Working Near or Around Underground Cables, as amended by NSA 1289 on 28/02/03? For a copy of NS0156 phone EA on (02) 4951 0899 or visit EA's Web Site at http://www.energy.com.au/energy/ea.nsf/Content/Safety+Dial+before+you+dig

Where specified by NS 0156, have you notified EnergyAustralia, and complied with requirements? Contact numbers are (02) 9962 4558 for sub-transmission cables in Sydney and Central Coast areas, and the G.I.S. office number (02) 4951 0899 for all other cases.

### SUPERVISION OF WORK

Where the proposed work is near or around\* any sub-transmission cable, is the EnergyAustralia representative on site to supervise the work before you start? (\*Refer NS 0156, as amended.) Where the proposed work is near or around\* cables other than sub-transmission and/or conduits, are any requirements specified by EnergyAustralia's representative clearly understood and ready to be applied before you start the work? (\*Refer NS 0156, as amended.)

### PROTECTION

Have you checked that all people on-site have been made aware of the presence & location of ALL EnergyAustralia underground cables and/or conduits; especially boring, drilling and trenching machine operators?

Have you checked for the presence of any asbestos or asbestos containing material in EnergyAustralia's underground network assets?

Have you checked for the presence of any Organo-Chloride Pesticides (OCP) in sub-transmission trenches?

Is the site supervisor monitoring all machine operators working near or around EnergyAustralia's underground cables and/or conduits?

Are the requirements specified by EnergyAustralia's representative being followed?

Are EnergyAustralia's requirements in place for any exposed cables and/or conduits to be supported and protected?

Have you marked all exposed underground cables and/or conduits with flags that are clearly visible from within all machinery used on-site?

Have safety barriers, fencing or para-webbing been erected to protect staff and the public as well underground cables and/or conduits in areas that are at risk?

In the event of DAMAGE to EnergyAustralia's cables or conduits, call 131388 immediately.

### **PROCEED** - with CAUTION

It is your responsibility to protect EnergyAustralia's cables and conduits from damage and your Duty of Care to protect your workers from harm or injury.

Signed

Date \_\_\_ / \_\_\_ /

1.6




















r-91,40.6deep -Steel Clamps on Cables -- 61.0 1.1BL 0.7COV 4 Earth Plug + Î ..... B. TPL 3.1PL K BROWN 0.9Cov 0.0 3.4 2.6PL 279 WILLIA 1 280 0.0 S 7 2.865 -2.895 -0.900.8-2.7PL 0.8Cov BROWN <sup>1</sup> NR Standord Drum No 6017 -0.8-0.8-SPEC 862 SPEC 862 SPEC 862 SPEC 867

0.80,









TELECOMMUNICATIONS - OPTUS



Network Operations Centre - Asset Analysis Zenith Tower B, Level 15, 821 Pacific Highway Chatswood NSW 2067 Ph: 1800 505 777 Fax: 1300 307 035

0293197508

To: Mr Erhan Eroksuz Meinhardt Level 2 400 Kent ST Company: Sydney 2000 NSW Date: 10/01/2008

Asset Location Reply

Fax:

Dear Sir/Madam,

With reference to your enquiry of

- Address of location Edward St And Smith St Summer Hill 2130 NSW
- Optus and/or Uecomm Asset location No. 97783
- Dial Before You Dig Job No. 13050244
- Dial Before You Dig Customer No. 612850

After referring to the Optus and/or Uecomm asset database, OPTUS find that within the vicinity of your proposed works there are:

 EXISTING OPTUS and/or UECOMM UNDERGROUND ASSETS Please refer to the attached map for further details as you are responsible for any damage you may cause to Optus and/or Uecomm assets due to negligence on your part.

Note: You must not commence work without first obtaining an on-site location of the Optus and/or Uecomm underground plant and approval of your works plan. Only Optus staff (or Optus approved location contractors) are to provide onsite location services for Optus and/or Uecomm plant. You can arrange Optus and/or Uecomm onsite locations by calling Optus on 1800 505 777 and Optus or its approved representative will attend your site to identify the exact location of Optus and/or Uecomm assets (the "Optus and/or Uecomm Asset Alianment").

Optus requires 2 clear business days notice to conduct an on-site location.

The initial on site location visit will not normally incur a charge, but at the discretion of Optus, subsequent site visits may incur a charge to be applied at an hourly rate.

We thank you for your enquiry and appreciate your continued use of the Dial Before You Dig Service and/or Optus and/or Uecomm Asset Analysis Service. If you require further information please contact Optus on 1800 505 777

This reply relates only to the location indicated above and is valid for 14 days from the sent date. Where additional works are planned that have not been specified within this reply, Optus require that an additional enquiry be submitted. In the case of no additional location request being submitted, Optus will hold the relevant party responsible for any damage to Optus and/or Uecomm plant and all expenses incurred by Optus as a result of asset damage.



Optus Limited ACN 052 833 208 IMPORTANT This fax may be confidential and privileged. Unauthorised use is prohibited. If you have it in error, please notify us and shred this document. Thank you.



### Cable Optus Undergroud OVERVIEW MAP

SEQUENCE NUMBER : 13050244

DATE: 10/01/2008

LOCATION : Edward St And Smith St Summer Hill NSW 2130



Note: You must not commence work without first obtaining an on-site location of the Optus and/or Uecomm underground plant and approval of your works plan. Only Optus staff (or Optus approved location contractors) are to provide onsite location services for Optus and/or Uecomm plant. You can arrange Optus and/or Uecomm onsite locations by calling Optus on 1800 505 777 and Optus or its approved representative will attend your site to identify the exact location of Optus and/or Uecomm assets (the "Optus and/or Uecomm Asset Alignment").

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We thank you for your enquiry and appreciate your continued use of the Dial Before You Dig Service and/or Optus and/or Uecomm Asset Analysis Service. If you require further information please contact Optus **1800 505 777** 





# Cable Optus Undergroud Map 1 of 4

SEQUENCE NUMBER : 13050244

DATE: 10/01/2008

LOCATION : Edward St And Smith St Summer Hill NSW 2130



Note: You must not commence work without first obtaining an on-site location of the Optus and/or Uecomm underground plant and approval of your works plan. Only Optus staff (or Optus approved location contractors) are to provide onsite location services for Optus and/or Uecomm plant. You can arrange Optus and/or Uecomm onsite locations by calling Optus on 1800 505 777 and Optus or its approved representative will attend your site to identify the exact location of Optus and/or Uecomm assets (the "Optus and/or Uecomm assets (the "Optus and/or Uecomm assets (the "Optus and/or Uecomm assets).

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We thank you for your enquiry and appreciate your continued use of the Dial Before You Dig Service and/or Optus and/or Uecomm Asset Analysis Service. If you require further information please contact Optus **1800 505 777** 





# Cable Optus Undergroud Map 2 of 4

SEQUENCE NUMBER : 13050244

DATE: 10/01/2008

LOCATION : Edward St And Smith St Summer Hill NSW 2130



Note: You must not commence work without first obtaining an on-site location of the Optus and/or Uecomm underground plant and approval of your works plan. Only Optus staff (or Optus approved location contractors) are to provide onsite location services for Optus and/or Uecomm plant. You can arrange Optus and/or Uecomm onsite locations by calling Optus on 1800 505 777 and Optus or its approved representative will attend your site to identify the exact location of Optus and/or Uecomm assets (the "Optus and/or Uecomm Asset Alignment").

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### Cable Optus Undergroud Map 3 of 4

SEQUENCE NUMBER : 13050244

DATE: 10/01/2008

LOCATION : Edward St And Smith St Summer Hill NSW 2130



Note: You must not commence work without first obtaining an on-site location of the Optus and/or Uecomm underground plant and approval of your works plan. Only Optus staff (or Optus approved location contractors) are to provide onsite location services for Optus and/or Uecomm plant. You can arrange Optus and/or Uecomm onsite locations by calling Optus on 1800 505 777 and Optus or its approved representative will attend your site to identify the exact location of Optus and/or Uecomm assets (the "Optus and/or Uecomm Asset Alignment").

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# Cable Optus Undergroud Map 4 of 4

SEQUENCE NUMBER : 13050244

DATE: 10/01/2008

LOCATION : Edward St And Smith St Summer Hill NSW 2130



Note: You must not commence work without first obtaining an on-site location of the Optus and/or Uecomm underground plant and approval of your works plan. Only Optus staff (or Optus approved location contractors) are to provide onsite location services for Optus and/or Uecomm plant. You can arrange Optus and/or Uecomm onsite locations by calling Optus on 1800 505 777 and Optus or its approved representative will attend your site to identify the exact location of Optus and/or Uecomm assets (the "Optus and/or Uecomm Asset Alignment").

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TI58 TELSTRA



TELSTRA ALLIED MILLS REDEVELOPMENT Red 4/2/08 west of boundary. dwf



RAILWAY TERR ACE TELSTRA AUJED MILLS REDEVELOPMENT. lec'd 4/2/08. east of boundary. And