



14 November 2011

Our Ref: 092761

The General Manager Pittwater Council PO Box 882 Mona Vale NSW 1660

Dear Sir,

Re: 42 Sunrise Road, Palm Beach Occupation Certificate

Pursuant to the requirements of the Environmental Planning and Assessment Act please find attached a copy of our Occupation Certificate and other relevant documents.

Should you have any questions, please do not hesitate to contact the undersigned.

**Anthony Protas** 

Yours faithfully

**Anthony Protas Consulting Pty Ltd** 

\$36 REC1312927 16/11/11.





## **Occupation Certificate**

1. Details of the applicant

	Mr 🔲 Ms 🔲 Mrs 🔲 Dr 🗍	Other Susan Rot	hwell Archit	CUIS
	First name	Family name		
			<u> </u>	<u> </u>
	Flat/street no.	Street name		
	38	Serpentine Road		
	Suburb or town		State	Postcode
	Greenwich		NSW	
	Daytime telephone	Fax	Mobile	
	2065		<u> </u>	
	Email			
		<u> </u>	]	
2.	Details of the building			
	Flat/Street no.	Street name		
	42	Sunrise Road		
	Suburb or town		-	Postcode
	Palm Beach			2108
	Description of the building or part of			
	New multi level dwelling	and swimming noo	d	
		g and swimming poo	<u>'-</u>	
	Lot no.	Section	<u> </u>	
	Lot no. 152 DP/MPS no.			
	Lot no. 152 DP/MPS no. 6973	Section  Volume/folio		
	Lot no.  152  DP/MPS no.  6973  Development application or complyi	Section  Volume/folio		
	Lot no. 152 DP/MPS no. 6973	Section  Volume/folio		
3.	Lot no.  152  DP/MPS no.  6973  Development application or complyi	Section  Volume/folio  ng development certificate no.		
3.	Lot no.  152  DP/MPS no.  6973  Development application or complyi 528/07	Section  Volume/folio  ng development certificate no.		
3.	Lot no.  152  DP/MPS no.  6973  Development application or complyi 528/07  Decision of the certifying  Type of certificate issued:  an interim occupation certifying	Section  Volume/folio  ng development certificate no.  authority  ertificate		
3.	DP/MPS no.  6973  Development application or complyi 528/07  Decision of the certifying  Type of certificate issued:  an interim occupation certificate issued:  a final occupation certificate issued:	Volume/folio  ng development certificate no.  authority  ertificate cate		
3.	DP/MPS no.  6973  Development application or complyi 528/07  Decision of the certifying  Type of certificate issued:  an interim occupation certificate issued:  a final occupation certificate issued:	Section  Volume/folio  ng development certificate no.  authority  ertificate		
3.	DP/MPS no.  6973  Development application or complyi 528/07  Decision of the certifying  Type of certificate issued:  an interim occupation certificate issued:  a final occupation certificate issued:	Section  Volume/folio  ng development certificate no.  authority  ertificate cate  ovember 2011		
	DP/MPS no.  6973  Development application or complyi 528/07  Decision of the certifying  Type of certificate issued:  an interim occupation certificate of this decision  and the certifying of the certifying occupation certificate of this decision occupation certificate of this decision occupation certificate of this decision occupation occupation certificate of this decision occupation occupat	Section  Volume/folio  ng development certificate no.  authority  ertificate cate  ovember 2011		ant)

## Final occupation certificate

Anthony Protas	certifies that:
a current development consent has been granted for the	e development
a current complying development certificate has been is:	sued for the development
a current construction certificate has been issued with rethe building	espect to the plans and specifications for
the building is suitable for occupation or use in accordance	ce with its classification under
the Building Code of Australia as a class	10b building
<ul><li>a final fire safety certificate has been issued for the build</li><li>a final report from the Commissioner of Fire Brigades ha</li></ul>	
Occupation certificate no. OC 2761/09	
Date of the certificate	
14 November 2011	
Signature	
For this certificate to be valid, it must be signed by the certifying	ng authority.
Signature	_
-	
Name	_
Anthony Protas	
Flat/Street no. Street name	-
Locked Bag 1001	
Suburb or town	State Postcode
Wareemba	NSW 2046
Telephone	Fax
9715 5333	9715 5666
If the certifier is an accredited certifier:	
Accreditation body of the certifier	Accreditation no. of the certifier
Building Professionals Board	BPB0332

## **Anthony Protas** Consulting Pty Ltd

A.B.N 37 079 830 756 **BUILDING REGULATIONS CONSULTANTS** 

Suite 1, 104 William Street, Five Dock NSW 2046 Locked Bag 1001, Wareemba NSW 2046 Telephone: (02) 9715 5333 Fax: (02) 9715 5666

e-mail: mail@protas.net.au web: www.protas.net.au

**Construction Certificates Occupation Certificates Compliance Certificates Building Audits Design Assessment** Regulations Advice

### **INSPECTION REGISTER**

**Anthony Protas** 

Accreditation Number BPB0332 (Building Professionals Board)

DANO. 578/07 cc No. 2761/09 Address: 42 Sunrise Rd, Palm Beach

Inspection	Date	Result	Inspected By
Commencement   Excavallon		0:10.	3
Pool Weel	13/1/24	Enfree to ONG.	Q
Foolings	2/1/24	Engreento and B	)/(
Bareners sel		Expreed to GIAB	90
La Stal		Engine to Card Co.	0
CF5las	29/4/10	Expreed to Cartific.	8
FF Slos	11	Erfree hodly	2
Roof Slas	(9/10	Egner to lade	9
hod finee	, , ,	ok.	6
WIF	14/10/10	OK. Ensfala lating	8
She Connection	19/0/0	0-6	

Thin DK- Street to paremork.

Duncan Bray MA (Eng) OXON AMICE MIE (Aust) BPEQ 80 Great Buckingham Street Redfern N.S.W 2016

Tel: (02) 9319 1067, Mbl: 0427 808880

Fax: (02) 9319 0750

email: duncanbray@tpg.com.au

Ref: 3758

October 12, 2011

Mrs.Susan Rothwell Susan Rothwell & Associates 38 Serpentine Road **GREENWICH** NSW, 2065

Dear Sir,

#### **Completion Certificate**

#### Alterations to 42 Sunrise Road, Palm Beach

All structural elements of this building were inspected during construction and reinforcement was checked prior to pouring of concrete slabs and footings.

We consider the structure to be structurally adequate to carry the expected dead and live loads in accordance with:

Australian Standard 1170 Part 1

SAA Loading Code Dead & Live loads

Australian Standard 1170 Part 2

SAA Loading Code Wind Loads

We certify items have been built in accordance with Structural drawings itemised on the attached list..

Site inspections are listed on a separate list, together with the original Construction Certificate.

Yours faithfully

**Duncan Bray** 

Structural Engineer

Duncan Bray MA (Eng) OXON AMICE MIE (Aust) BPEQ 80 Great Buckingham Street Redfern N.S.W 2016

Tel: (02) 9319 1067, Mbl: 0427 808880

Fax: (02) 9699 4849

email: dunenbray@bigpond.com

Ref: 3758

October 19, 2011

Mrs.Susan Rothwell Susan Rothwell & Associates 38 Serpentine Road GREENWICH NSW, 2065

Dear Sir,

#### **Completion Certificate**

#### Alterations to 42 Sunrise Road, Palm Beach

All structural elements of this building were inspected during construction and reinforcement was checked prior to pouring of concrete slabs and footings.

Works in the public road reserve, as detailed on Structural Drawings S2-01 C2 and S2-02 C2, were also inspected and considered satisfactory.

Yours faithfully

Duncan Bray

Structural Engineer



Our Reference: SY070315

20 October 2011

Susan Rothwell and Associates 38 Serpentine Road (Lower) GREENWICH NSW 2065

Attn: Mr Will Rothwell

Dear Mr Rothwell

Re: Sunrise Parade 42 Palm Beach
Stormwater Completion Certification

Further to Condition E3 of the Development Consent for the above project, we have reviewed photos and an as-built drawing provided by you and the Builder, Mr Nathan Lovett of Lovett Building, related to the site stormwater system.

Based on this information, we confirm that the stormwater on-site detention system has been completed generally in accordance with the engineering drawings for the site and will operate in accordance with the design intent. In turn, the engineering drawings were based on Council requirements, as certified in ACOR's previous letter dated 24 October 2008.

Stormwater Works: Drawing No SY070315 C1.01

ACOR Consultants possesses indemnity insurance to the satisfaction of the building owner or our principal.

Please note that this certification does not relieve the Builder, the property owner or other interested parties from their responsibilities in relation to this project.

Yours sincerely,

**ACOR Consultants Pty Ltd** 

Bjorn Jensen Associate Senior Civil Engineer ACOR CONSULTANTS PTY LTD

ENGINEERS

MANAGERS

INFRASTRUCTURE PLANNERS

SYDNEY-BRISBANE-NEWCASTLE

ACN 079 306 246

ABN 26 522 454 721

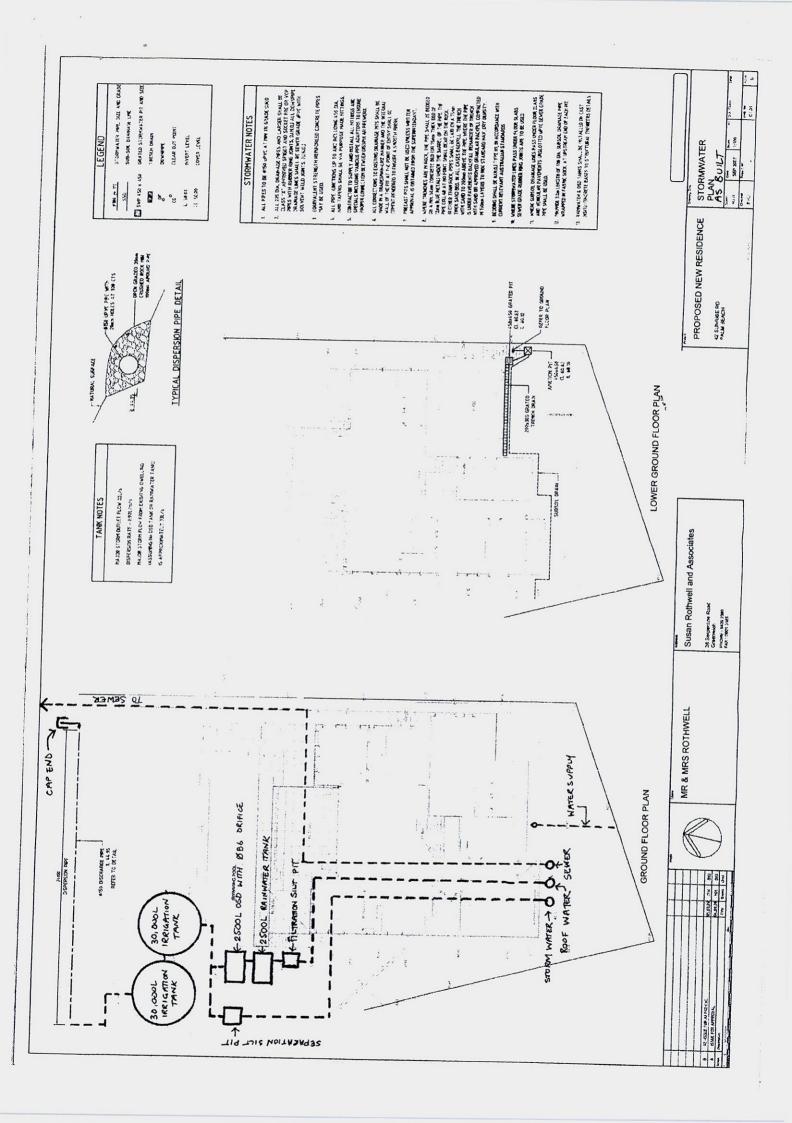
Level 1, 24 Falcon Street

PO Box 822

Crows Nest NSW 2065

TEL 02 9438 5098

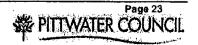
FAX 02 9438 5398





# GEOTECHNICAL RISK MANAGEMENT POLICY FOR PITTWATER FORM NO. 3 – Post Construction Geotechnical Certificate to be submitted with Occupation Certificate or Subdivision Certificate

Address of site 12. SUNDING Declaration made by geotechnical engineer on completion of the Development  1. ACLI TENDIN on behalf of Selfery & Kotouskos Dry Ltd (neert Name)  On this the 21 JUY 2011  Certify that I am a Geotechnical Engineering Geologist and/or Coastal Engineer as defined by the Geotechnical Risk Management Policy for Pithvater - 2009. I am authorised by the above organisation/company to issue this document and to certify the organisation promptly has a current professional indemnity policy of all least \$2 million. I prepared and/or verified the Geotechnical Report Details:  Report Title: Centauth ASSass manut , Praposal Naw Hanse Report Details:  Report Title: Centauth ASSass manut , Praposal Naw Hanse Report Details:  Report Title: Centauth ASSass manut , Praposal Naw Hanse Report Ref. No: Author A Jenora Author's Company/Organisation: Juffury Lenauths.  Servicewed the original structural design, and where applicable the echacequently emanded circultural design and the control of the development have been erected, comply with the requirements specified in the Geotechnical Report and the Constitution Centificate opproved Structural Titles and Constitution Centificate approved Structural Titles and Constitution Centificate approved Structural Titles and Constitution Centificate approved Structural Titles and Center and Constitution Centificate approved Structural Titles and Center and Cen		Development A	Application	for files	CO. THING			-	
Declaration made by geotechnical engineer on completion of the Development  I. ACI ZENGN on behalf of JENERY & Kolouskas Ply Ltd ((Insert Name) (Trading or Company Name)  on this the ZI JULY ZOII (Trading or Company Name)  on this the ZI JULY ZOII (Trading or Company Name)  on this the Jam a Geotechnical Engineer, Engineering Geologist and/or Coastal Engineer as defined by the Geotechnical Risk Management Policy for Pittwater - 2009. I am authorised by the above organisation/company to issue this document and to certify the organisation/company has a current professional indemnity policy of at least \$2 million. I prepared and/or verified the Geotechnical Report Datalis:  Report Title: Createux ASe as mount , Propositi Naw Hence Report Datalis:  Report Date: U togeth ASe as mount , Propositi Naw Hence Report Nat. No.:  Author's Company/Organisation: July Ltd Author's Company/Organisation and the foundation materials, upon which the structural elements (as detailed in the confidence of prevented Structural Plans.  Thave inspected analessin satisfied that the development referred to the development development consent D.A. (Data comeant July Ltd Author's Company Author's Consent and the Construction Confidence opproved Structural Plans.  Thave inspected the site during construction and to the best of marknowledge, List requirements of the conditions of previous and will rely on this cer				_			_		
I. ACI TENON on behalf of Crading or Company Name)  On this the 21 JULY 2011  certify that I am a Geotechnical Engineer, Engineering Geologist and/or Coastal Engineer as defined by the Geotechnical Risk Management Policy for Pithwater - 2009. I am authorised by the above organisation/company to issue this document and to certify the organisation/company has a current professional indemnity policy of at least \$2million. I prepared and/or verified the Geotechnic Report aper Form 1 dated 21 OCT 0'8 referred to below.  Geotechnical Report Details:  Report Title: Createth Assessment , Preparate New Testing of Author: A. Zenon 2012 Report Ref. No. Author: A. Zenon 2012 Author's Company/Organisation: Testing the Control of Section of Section 1 and Author's Company/Organisation: Testing the Control of Section 1 and Section 1		Address of site	42	SUNRISE	RD,	larm	BEACH		
on this the 21 July 2011 certify that I am a Gootechnical Engineer, Engineering Geologist and/or Coastal Engineer as defined by the Geotechnical Risk Management Policy for Pitwater - 2009. I am authorised by the above organisation/company to issue this document and to certify the organisation/company has a current professional indemnity policy of at least \$2million. I prepared and/or verified the Geotechnica Report as per Form 1 dated 21 OCT 0's referred to below.  Geotechnical Report Details:  Report Title: Gestall ASSessional Types of the Report Ref. No: Author: A Tenron Author's Company/forganisation: July 1 Author's Company/forganisation: July 2 Author's Company 4 Author's Compa	Declara	tion made by ge	otechnica	engineer on com	pletion of ti	ne Developme	nt	· .	
on this the 21 July 2011 certify that I am a Gootechnical Engineer, Engineering Geologist and/or Coastal Engineer as defined by the Geotechnical Risk Management Policy for Pitwater - 2009. I am authorised by the above organisation/company to issue this document and to certify the organisation/company has a current professional indemnity policy of at least \$2million. I prepared and/or verified the Geotechnica Report as per Form 1 dated 21 OCT 0's referred to below.  Geotechnical Report Details:  Report Title: Gestall ASSessional Types of the Report Ref. No: Author: A Tenron Author's Company/forganisation: July 1 Author's Company/forganisation: July 2 Author's Company 4 Author's Compa	t <u>&amp;</u>	OI ZEN	01/20	n behalf of	Gery & K	atauskas	Pty Ltd		
certify that I am a Gootechnical Engineer. Engineering Geologist and/or Coastal Engineer as defined by the Gootechnical Risk Management Policy for Pitwater - 2009. I am authorised by the above organisation/company has a current professional indemnity policy of at least \$2million. I prepared and/or verified the Geotechnic Report as per Form 1 dated 21 OCT 0'S referred to below.  Geotechnical Report Details:  Report Title: Createun Abbers mount, Papasa New Henry Report Ref. No: Author: A Tenron Author's Company/Organisation: Telegraph Com				•	aing or Com	pany Name)			
Report Title: Creatern Assessment, Proposal New Herse Report Ref. No: Author: A Terror 21120 w2 cyt2  Author: A Terror 21120 w2 cyt2  Author: A Terror 21120 w2 cyt2  Author's Company/Organisation: Taffary + Kell austra.  Author's Company/Organisation: Taffary + Kell austra.  Are reviewed the original structural design, and where applicable the exbeoquently emended ciructural design, and where excellent and the foundation materials, upon which the structural elements (as detailed in the development property of the development and the Construction Cartificate approved Structural Plans.  And the Construction Cartificate approved Structural Plans requirements of the construction constructed in accordance with the intent of the Geotechnical Report, the requirements of the construction Construction Construction Construction Construction Construction Construction approved Structural Plans relevant plans that may be required to remove the Meter reaches and practical for the development in an authorized property in the construction Constr	certify th Manager the organ	at I am a Geotech ment Policy for Pi nisation/company	nnical Engli ttwater - 20 has a curr	neer, Engineering C 09. I am authorise ent professional ind	d by the abo lemnity polic	ve organisatio y of at least \$2	n/company to issue	e this document a	nd to certify
Report Date: 4 South 07 Author: A Zenon Author's Company/Organisation: Toffacy + Kadouston: Author's Company/Organisation: Toffacy + Kadouston: Areviewed the original structural design, and where applicable the eubeoquently amended structural details (below listed) which have been incorporated into the completed project. A have inspected and seems satisfied that the foundation materials, upon which the structural elements (as detailed in the original and amended structural documents) of the development have been erected, comply with the requirements specified in the Geotechnical Report and the Construction Certificate approved Structural Plans.  Thave inspected the site during construction and to the best of macknowledge, the satisfied that the development referred to in the development concent DA.  (DANO)  (Date consent given)  The selection of critificate approved Structural Plans relating to the geotechnical feares (including any treatment and maintenance plan that may be required to remove risk where reacceptable and practical for the development identified above and will rely on this certificate in regard to the development having achieved the "Acceptable Risk Management" criterion defined in the Policy and that reasonable and practical measures have been taken to remove foreseeable risk. as indicated in the Report Intention of the prosession of the prosession of the service of the servic	Geotech	nical Report Del	talis:	·					
Author's Company/Organisation: Toffacy + Kadousts:  Author's Company/Organisation: Toffacy + Kadousts:  Author's Company/Organisation: Toffacy + Kadousts:  Areviewed the original structural design, and where applicable the exbeoquently amended ctructural detaile (below licted) which have been incorporated into the completed project.  A have inspected and/exam satisfied that the foundation materials, upon which the structural elements (as detailed in the Geotechnical Report and the Construction Cartificate approved Structural Plans.  A have inspected the site during construction and to the best of maknowledge, san satisfied that the development referred to in the development concent D.A.  (DANO)  (Date consent given)  has been constructed in accordance with the intent of the Geotechnical Report, the requirements of the construction Cartificate approved Structural Plans relating to the geotechnical industry from maintenance plan that may be required to remove fish where reaconable and practical.  Lam aware that Pittwater Council require this certificate prior to issuing an occupancy certificate for the development Identified above and will rely on this certificate in regard to the development having achieved the "Acceptable Risk Management" criterion defined in the Policy and that reasonable and practical measures have been taken to remove foreseeable risk. **As indicated in the Report of the Report of the Structural Plans Council Acceptable Risk Management.  Dry Cr42-1325 1035 1045 4 1055 1045 4 1056 M During Activitient Activitient  Name	ſ	Report Title: C	iester	2 Assessm	out,	Propose	e New F	louse	1
Author's Company/Organisation: Toffacy + Kadousts:  Author's Company/Organisation: Toffacy + Kadousts:  Author's Company/Organisation: Toffacy + Kadousts:  Areviewed the original structural design, and where applicable the exbeoquently amended ctructural detaile (below licted) which have been incorporated into the completed project.  A have inspected and/exam satisfied that the foundation materials, upon which the structural elements (as detailed in the Geotechnical Report and the Construction Cartificate approved Structural Plans.  A have inspected the site during construction and to the best of maknowledge, san satisfied that the development referred to in the development concent D.A.  (DANO)  (Date consent given)  has been constructed in accordance with the intent of the Geotechnical Report, the requirements of the construction Cartificate approved Structural Plans relating to the geotechnical industry from maintenance plan that may be required to remove fish where reaconable and practical.  Lam aware that Pittwater Council require this certificate prior to issuing an occupancy certificate for the development Identified above and will rely on this certificate in regard to the development having achieved the "Acceptable Risk Management" criterion defined in the Policy and that reasonable and practical measures have been taken to remove foreseeable risk. **As indicated in the Report of the Report of the Structural Plans Council Acceptable Risk Management.  Dry Cr42-1325 1035 1045 4 1055 1045 4 1056 M During Activitient Activitient  Name	1	Report Date: 4	· Son	70			Report Re	f. No :	
Authors companylytrganisation:  Serviewed the original structural design, and where applicable the exbeoquently emended ctructural detaile (below listed) which have been incorporated into the completed project.  A have inspected and the site during construction and to the best of maknowledge, the salisfied that the development have been erected, comply with the requirements specified in the Geotechnical Report and the Construction Cartificate approved Structural Plans.  Thave inspected the site during construction and to the best of maknowledge, then salisfied that the development referred to in the development concent D.A.  (DANO)  (Date consent given)  has been constructed in accordance with the linent of the Geotechnical Report, the requirements of the construction Cartificate approved Structural Plans relating to the geotechnical industry from making and the Construction Cartificate approved Structural Plans relating to the geotechnical industry from making any treatment and making and the Construction Cartificate approved Structural Plans relating to the geotechnical for the development Identified above making and the Construction Cartificate in the development lidentified above and will rely on this cartificate in regard to the development having an occupancy certificate for the development identified above and will rely on this cartificate in regard to the development having achieved the "Acceptable Risk Management" criterion defined in the Policy and that reasonable and practical measures have been taken to remove foreseeable risk. As indicated in the Report of th		Author: A.Z	enon		.,		7.1120	we rote	
A have inspected into the completed project.  A have inspected and the management of the development have been erected, comply with the requirements (as detailed in the original and emended structural documents) of the development have been erected, comply with the requirements specified in the Geotechnical Report and the Construction Certificate approved Structural Plans.  A have inspected the site during construction and to the best of makinowledge, when satisfied that the development referred to in the development consent D.A.  (D.A.No) (Date consent given)  has been constructed in accordance with the intent of the Geotechnical Report, the requirements of the conditions of Development Consent and the Construction Certificate approved Structural Plans relating to the geotechnical issues (including any treatment and maintenance plan that may be required to remove disk where reaconable and practical.  Lam aware that Pittwater Council require this certificate prior to issuing an occupancy certificate for the development identified above and will rely on this certificate in regard to the development having achieved the "Acceptable Risk Management" criterion defined in the Policy and that reasonable and practical measures have been taken to remove foreseeable risk. **Os indicated in the Report List of all work as executed drawings and Ongoing Maintenance plans relevant to geotechnical risk management.  Drg \$1.42 - 1925, 1935, 1945, 1945, 1945, 1945, 1995,	L	Author's Compa	iny/Organi	sation: ) a \_	rey + K	Marsta	> '		
A have inspected and lease as a stissed that the foundation materials, upon which the structural elements (as detailed in the original and emended structural blocuments) of the development have been erected, comply with the requirements specified in the Geotechnical Report and the Construction Continues oppowed Structural Plans.  A have inspected the site during construction and to the best of mark nowledge, and satisfied that the development referred to in the development concent D.A.  (D.A.No)  (Date consent given)  has been constructed in accordance with the intent of the Geotechnical Report, the requirements of the conditions of Development Consent and the Construction Cortificate approved Structural Plans relating to the geotechnical leaves (including any treatment and maintenance plans that may be required to remove disk where reacconable and practical in the development dentified above and will rely on this certificate in regard to the development having achieved the "Acceptable Risk Management" criterion defined in the Policy and that reasonable and practical measures have been taken to remove foreseeable risk. As indicated in the Report List of all work as executed drawings and Ongoing Maintenance plans relevant to geotechnical risk management.  Drg 6442-1325, 1035, 1045,	reviewed been inco	d the original stru- orporated into the	ctural desig	n, <del>and where appli</del> project.	eable the eu	<del>booquently-am</del>	ended structural d	<del>etalla (belew licto</del>	d) which hat
has been constructed in accordance with the intent of the Geotechnical Report, the requirements of the conditions of Development Consent and the Construction Cortificate approved Structural Piene relating to the geotechnical losses (including any treatment and/maintenance planshat may be required to remove Structural Piene relating to the geotechnical losses (including any treatment and/maintenance planshat may be required to remove six whore reaconable and practical).  List measure that Pittwater Council require this certificate prior to issuing an occupancy certificate for the development identified above and will rely on this certificate in regard to the development having achieved the "Acceptable Risk Management" criterion defined in the Policy and that reasonable and practical measures have been taken to remove foreseeable risk. **as indicated in the Report List of all work as executed drawings and Ongoing Maintenance plans relevant to geotechnical risk management.  Dry 142-1325, 1035, 1045, 1045, 1065, you allow the Survey Ratherly Acceptable.  Signature AGL 251000  Name AGL 251000  Chartered Professional Status. C.J. ENG. F.J. EAU.T.  Membership No. 213 297.1	<b>≜</b> have ins <del>developm</del>	pected the site du	iring constr	ruction and to the b		owledge, Lawn	ore salisfied that the d	ievelopment r <del>efer</del>	<del>red to in the</del>
Consent and the Construction Cortificate approved Structural Piene relating to the geotechnical leaves (including any treatment and maintenance plan that may be required to remove risk where reasonable and practical).  Lem aware that Pittwater Council require this certificate prior to issuing an occupancy certificate for the development identified above and will rely on this certificate in regard to the development having achieved the "Acceptable Risk Management" criterion defined in the Policy and that reasonable and practical measures have been taken to remove foreseeable risk. as indicated in the Report List of all work as executed drawings and Ongoing Maintenance plans relevant to geotechnical risk management.  Dry cr42-1325, 1035, 1045 y 1065 by 3 uses between Actuateds Actuateds  As but buried press Copy at a chair.  Chartered Professional Status. Crean Fields  Membership No. 213 3971.		(D.A.No)	(Date	consent given)					
and will rely on this certificate in regard to the development having achieved the "Acceptable Risk Management" criterion defined in the Policy and that reasonable and practical measures have been taken to remove foreseeable risk. As indicated in the Report List of all work as executed drawings and Ongoing Maintenance plans relevant to geotechnical risk management.  Dry 6142-1325, 1035, 1045 of 1005 of	Consent a	nd the Constructi	on Certifica	ato approved Struct	ural Plens r	siatina to the a	<del>ooteahnical lesues</del>	ns conditions of D -{including any tr	<del>evelopm</del> ent <del>calment and</del>
Drgs et 42-1925, 1035, 1045 of 106 by Susan Rothwell Adulteds  As but buried propos (copy atlanted).  Signature Name AQL ZENON  Chartered Professional Status CFENO FIENST  Membership No. 213 297 1	and will rel	ly on this certifica	te in regard	i to the developme	nt having ac	hieved the "Ac	ceptable Risk Man	agement" criterio	n defined in :
Signature ACL ZENO  Chartered Professional Status C/ENG FIEAUT  Membership No. 213 297 1	List of all	work as execute	d drawing	s and Ongoing Ma	aintenance	plans relevan	t to geotechnical	risk manageme	nt.
Signature	Didi	542-13	Se 10	35, 104E 4	1100	by 51	war kathw	all Acus	4 oct
Name AQL ZENO  Chartered Professional Status CFENQ FIEAUST  Membership No. 213 297 1	かし	hult burn	ed prop	es (cold).	atlach	n);			
Chartered Professional Status CFEN9 FIEAUST  Membership No 213 297 1			Signatur	• //\/\	1		******	· · · · · · · · · · · · · · · · · · ·	
Membership No. 213 297 1			-	, , ,	_	•••••			
			Chartere	d Professional Sta	tusC	EN9 '	FIEAUST		
Company Jeffery & Kolouskos Pty Ltd.	,		Members	ship No213	297 1				
			Company	Jeffery o	e Kalou	skos Pty .	ltd.		



## LOVETT BUILDING COMPANY PIYLED

29/14 Polo Avenue Mona Vale NSW 2103

Telephone: (02) 9999 2117

Mobile: 0414 255 173 Fax: (02) 9997 8170

19<sup>th</sup> October 2011

#### **CERTIFICATE OF COMPLIANCE**

#### WATERPROOFING

Re: 42 Sunrise Road Palm Beach

This is to certify that Lovett Building Company Pty Ltd completed internal Waterproofing at the above address in accordance with the Australian Standard.

Graeme Lovett
Graeme Lovett

# Vision Glass Pty Ltd

Frameless Glass Installations

October 19, 2011

#### CERTIFICATE OF CONFORMANCE

The toughened & laminated glass products supplied by Vision Glass to

42 Sunrise Road, Palm Beach for showerscreens, balustrades and roofing

were purchased from Bevelite Glass Pty Ltd of 140 Gliba Road, Girraween NSW

and Sydney Glass Pty Ltd of 30 Short Street, Bankstown NSW respectively

and comply with Australian Standards AS 2208 - 1978, with reference to thickness limits

and fragmentation, safety glazing materials for use in buildings (Human impact considerations)

Further, the installation of glass complies with AS 1288

Yours sincerely.

David Bevern

ABN 64 118 791 861 P.O. Box 1334, Dee Why 2099

Phone: 9970 6034 - Fax: 9913 8399 - Mobile: 0411 846 334

email: visionglass@optusnet.com.au



Makers of QUALITY TIMBER WINDOWS AND DOORS

18th October 2011

Lovett Building Company Pty Ltd 29/14 Polo Avenue Mona Vale NSW 2103

By Email

Dear Graeme,

This letter is to certify that glazing in windows and doors supplied by Windoor Pty Ltd to the property at 42 Sunrise Road, Palm Beach have been glazed in accordance with Building Code of Australia (BCA) Volume 2 clause 3.6 Glazing.

As required by the BCA, the glazing in these windows and doors meet Australian Standard AS 1288:2006 for application in Climate Classification N2.

Should you have any queries please do not hesitate to contact us on (02) 9833-6900.

Yours faithfully
WINDOOR PTY LIMITED
Per:

IAN DOLAN
Managing Director

WINDOOR PTY LTD ACN 003 495 118 ABN 50 003 495 118

18 Anne Street St Marys NSW 2760

PO Box 794
- St Marys
- NSW 1790

T> 9623 2911 F> 9623 0170 E> sales@windoor.com.au

## Bayer Environmental Science





Warranty No:

2011-10-1672

This Warranty covers damage by Subterranean Termites ("Termites") only.
Bayer warrants that Kordon shall restrict the entry of Termites into the Building through the Kordon barrier for a period of ten (10) years from the date of installation ("Warranty Period"). This Warranty covers damage by Termites to structural timbers and internal timbers BUT DOES NOT INCLUDE damage by Termites to:

(a) chattels of any nature whatsoever including (but without limiting the foregoing) antiques, heirlooms, paintings, artwork and paintings; and (b) any pergolas, wiring, extensions to the Building and outhouses.

outhouses. formite infestation of the Building occurs as a result of the failure of the Kordon and damage by Termites is caused to structural timbers and/or internal timbers fixtures and fittings during the Warranty Period, Bayer will without charge to the Owner:

(a) repair the Kordon barrier where practicable; and/or

(b) cause the regair or replacement of structural timbers and/or internal timbers so damaged.

To the extent permitted by the Law of the State or Territory in which the premitted are located:

(a) the liability of Bayer under this Warranty is limited to a maximum of \$100,000.00 in respect of any one (1)

warrarity claim.

(b) All representations and other warranties express or implied and whether arising by virtue of Statute or otherwise are excluded or limited as stated in this Warranty

This Warranty shall only have effect if the Kordon is installed by an Accredited Bayer Installer.

OWNERS RESPONSIBILITIES
The Owner of the Building during the Warranty Period
("Owner"), at the Owner's expense, arrange for thorough
and regular inspection of the Building for the presence of
Termites at intervals not exceeding 12 months by an
accredited/licenced Timber Pest Inspector.
Where the Termite risk is high or the Building type is
susceptible to Termite attack (e.g. North of the 26th parallel)
more frequent inspections (3-6 months) should be

undertaken.
These inspection recommendations comply with those outlined in AS 3660 Termite Management Series and AS 4349.1-1995, Inspection of buildings.
If Termites are detected or are found to have breached the Kordon barrier, the Owner must, within 7 days of such detection notify Bayer

EXCLUSIONS
This Warranty shall be vold and have no effect in any of the following circumstances:

The Kordon barrier is damaged, modified, bridged or otherwise interfered with by any person or any act, fact, matter or thing beyond the reasonable control of Bayer. The Building is structurally modified, altered or otherwise changed in any way which would or may diminish the effectiveness of the Kordon as a Termite barrier. If at any time during the Warranty Period, the Owner

(a) allows or fails to prevent accumulation of:

(i) wood, rubbish or timber against the Building; AND

(ii) finished ground level around the Building to a height which does not comply with the terms of the installation Manual.

(b) allows the barrier dividing the soil surface and the structure of the Building formed by the Kordon to be bridged or broken by any other material or matter

bridged or broken by any other material or matter through which Termites may by-pass the Kordon and

infest the Building.
Termites shall enter the Building through any manner other than by a breach of the Kordon barrier.
If the Kordon is installed other than by an Accredited Bayer installer.

# TERMITE BARRIER

Date of Installation: Installation Address	14/08/2010 42 Sunrise Road Palm Beach NSW, 2108
Company Contact: Company Name:	John Parkins Alliance First
Address:	14 Hogan Street Balgowlah Heights NSW, 2093
Phone Number:	0418 427 192

may ward also because the rold in the warden has been every a board accuration and the rold of the party be Bayer will grant additional specific warranty conditions where required to accommodate high density, commercial constructions, government buildings, etc on documented request.

Bayer Environmental Science, 391-393 Tdoronga Rd, Hawthom East, VIC, 3123

## Bayer Environmental Science



, .			5	33.		143		7.							· (				1. 24. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	
		Ţ,	7	7	0	E)		D	0		V	O .	 200							
	-	·- ti,	الم	1	ارك	_\	V			بار	<u> </u>			<u></u>	₹ <u>`</u>					
			V					R	R											
		 			Q		%(). 3 3		ij		y						:₩- <sup>5</sup> ```.	i ida Mari		
														. (*)		7			in the	
			·						al in			- •			( <del>1</del>					

NOTE: This docume	nt is to be attached to	Warranty Document	Number:	2011-10-1672	
1 1		]			
Date of installation:	14/08/2010		Job Type:	arge Job - Miscellaneo	ous
Installation Address:	42 Sunrise Road	<u> </u>			
	Palm Beach NSW, 2108		Product used:		
	11011111100		Linear Metres (m)	Product Width (mm)	Total SQM
			113.9	300	34.17
Builder:	Lovett Building Com	<u>þany</u>	1.02	450	0.46
Phone number: Owner:	0414 255183				***************************************
Phone number:	Susan Rothwell 0414 255183	<del></del>	Camples Bassala	<u> </u>	
Local Council:	Pittwater Council		Service Penetratio Kordon Koliars	14	1.40
Phone number:	02 99701111		Manual Collars	Ö	0.00
Company Contact:	John Parkins			Total Kordon Installed	36.03
Installer's Name: Company Name:	John Parkins Alliance First				
Sompany Italio.	Children I list	<del></del>			
Address:	14 Hogan Street				
	Balgowlah Heights NSW, 2093	<u></u>			
	HOTHANDS				
Phone Number:	0418 427 192			İ	
Fax Number:	02 9907 8557				
Accreditation Number	:n144				
	1	r			
Authorised Signature:			Base		
Commenter The hulld	er has been obtanced	a maintain a 75mm	Date:	19/10/2011 ction zone around the bu	
Detitietel i	, ,		or naro sunace inspe	ction zone around the bi	lliaing
Kordon will only prote	ct areas where the pr	oduct is installed.			
Kordon is installed to	ctions as per the Aust	ralian Standard are i	recommended.	s specifications. Refer to	
installation drawing to	r detalis.	us aud beimeiet 83	per ine manufacture	s specifications. Refer to	o the site
Installation drawing fo No pre installation site	inspection report as	recommended by AS	3660.1 was carried	ut.	
	ľ				
	}				
	ł				
	İ				
Davis P		_			
Bayer Environmental S	icience, 391-393 Toqi	ronga Rd, Hawthorn	East, VIC, 3123		

## synergy

Wednesday, October 19, 2011

Mr. Graham Lovett Lovett Building Company 29/14 Polo Avenue Mona Vale NSW 2103

RE: AS3786 and AS3000.

Dear Graham

Confirming that the recent electrical work at number 42 Sunrise Rd, Palm Beach NSW 2108 complies with AS3000 and all local electrical service rules and that 240V hardwired smoke detectors have been wired and installed to AS3786.

Kind Regards

Clayton Brown

## S U S A N R O T H W E L L A R C H I T E C T S 38 SERPENTINE ROAD, GREENWICH N.S.W. 2065 TEL. (02) 9439 2380 FAX: (02) 9901 3185

Anthony Protas Consulting Locked Bag 1001 Wareemba NSW 2046

29.07.11

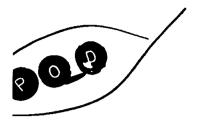
RE: DA 528/07 42 Sunrise Rd Palm Beach condition E12.

We write to confirm that all of the BASIX requirements at the above address have been satisfied, including:

- 300m2 of low water use species
- · Min. 3 star showerheads
- · Min. 4 star toilet systems connected to rainwater tank
- · Min 5 star kitchen taps
- Min 5 star basin taps
- On demand gas hot water system 26-30 RECs
- Minimum 5,000l rainwater & 4000l stormwater tanks
- · Tap located within 10m of swimming pool connected to rainwater tank
- 6 star air conditioning for heating / cooling
- · Ventilation requirements
- LED lighting throughout
- 1.5 peak kilowatt photovoltaic system
- Swimming pool max 110kl
- Outdoor clothesline

Westrell

Regards, Will Rothwell



#### Landscape Practical Completion Report- 42 Sunrise Road Palm Beach

17.06.2011

To Whom it may concern.

This is a letter to certify that Pod Landscaping has both undertaken & completed all landscape works at 42 Sunrise road Palm Beach.

All landscape works have been executed in accordance with all relevant working drawings & specifications as illustrated on Susan Rothwell Architects Landscape Plan sr42-106. approved by Pittwater Council.

Pod Landscaping also verifies that there has been no damage to existing street trees (all listed Melaleuca quinquenervia) during building & landscape works at 42 Sunrise road.

The road reserve has been remediated with new 'soft leaf' buffalo turf laid to road edge.

This letter also certifies that all Bushland Management requirements have been met.

All noxious & environmental weeds as listed on the Pittwater Council noxious weed list have been removed from site by hand & chemical eradication methods.

All adjoining bushland is in the same condition as it was deemed prior to commencement of development.

Benjamin Kaye

Director

## PITTWATER COUNCIL

PFN-1
Component Certificate
For
Pool Filter Noise

Propert	ty 42 SUNRISE ROAD,	PALM BE	EACH, NSW 2108
D/A No	N0528/07	C	CC No
1	Richard Haydon (Name)	of	Acoustic Dynamics P/L (Business)
at	PO BOX 270 NEUTRAL	BAY NS	
BE(Me	qualified acoustic engine ech)(Usyd), MIEAust, M rate Member AAAC	IAAS	ualifications being:
determi does i	ned that the maximum	noise le above an	eadings at the site and it has been vel associated with the pool filter mbient background level, when
certifica	tion for this component of	of the proje	
Signatuı	re		Date 29 July 2011





SOUND AND VIBRATION - MEASUREMENT, EFFECTS AND ASSESSMENT MEMBER - ASSOCIATION OF AUSTRALIAN ACOUSTICAL CONSULTANTS SUITE 12 / 38-46 ALBANY STREET ST LEONARDS NSW 2065 (PO BOX 270 NEUTRAL BAY NSW 2089)

ABN 36 105 797 715 ACN 105 797 715 FAX +61 2 9908 1271 PHONE +61 2 9908 1270 www.acousticdynamics.com.au acoustics@acousticdynamics.com.au

Project 2953 29 July 2011

Mr Will Rothwell
Susan Rothwell Architects Pty Ltd
38 Serpentine Road
GREENWICH NSW 2065

Dear Mr Rothwell

Email: willrothwell@email.com.

Ph: 0411 745 051 Fx: 02 9012 0250

## 42 SUNRISE ROAD PALM BEACH - POOL EQUIPMENT NOISE EMISSION ASSESSMENT FOR OC

#### 1 INTRODUCTION

Acoustic Dynamics is engaged by Susan Rothwell Architects to measure and assess noise emission resulting from the operation of the pool and spa equipment located at 42 Sunrise Road, Palm Beach, NSW, in accordance with the various planning requirements for the subject development.

Acoustic Dynamics has carried out relevant noise measurements and testing to determine the noise contribution from the pool and spa equipment, when measured at adjacent receiver locations.

#### 2 DESCRIPTION OF DEVELOPMENT AND LOCATION

Acoustic Dynamics advises that the approved residential development at 42 Sunrise Road, Palm Beach, included the development of a swimming pool, and installation of associated pool filtration, cleaning, spa and heating equipment.

We advise that the following pool and spa equipment has been located within a mechanical plant room located below the pool. Acoustic Dynamics is advised that the following items of pool and spa equipment are installed:

4x Pool pumps for various pool equipment (located within the plant room);
Various filtration equipment (located within the plant room); and
1x Gas heater (located outside the plant room).

Acoustic Dynamics understands the subject pool equipment is operated on electronic timing devices and is not used during the night-time hours (between 8pm and 7am (8am on weekends)).



The subject site has a single road frontage to Sunrise Road, to the south. All other boundaries are shared with adjacent residential lots, at 42A Sunrise Road, 44 Sunrise Road, 1174A Barrenjoey Road, and 40 Sunrise Road. The subject pool is located near the northern boundary of the site.

The subject site is shown in the Location Map and Aerial Photograph presented within **Appendix A**.

#### 3 RELEVANT NOISE CRITERIA

Acoustic Dynamics is not in receipt of the Conditions of Consent for this matter, however we understand that Pittwater Council consent conditions such DA's typically require:

"Matters to be incorporated into the development and maintained over the life of the development:

Noise from the operation of any plant or equipment at the premises shall not exceed 5dB(A) above the background noise level.

#### Matters to be satisfied prior to the issue of Occupation Certificate:

A qualified acoustic engineer is to certify that the maximum noise level associated with the pool filter does not exceed 5dB(A) above ambient background level, when measured from any adjoining premises."

Acoustic Dynamics has conducted a review of Pittwater Council's various planning and control instruments, including the Pittwater Local Environmental Plan (PLEP) 1993 and various Development Control Plans (DCPs). The relevant acoustic criteria, relating to noise emission associated with the operation of pool and spa equipment, are reproduced below.

Acoustic Dynamics review of the Pittwater LEP (1993) did not yield any specific criteria relating to noise emission associated with the operation of pool and spa equipment at a residential development.

Acoustic Dynamics review of the Pittwater 21 DCP (as amended) yielded the following acoustic criteria, relating to noise emission associated with the operation of pool and spa equipment, were identified:

"PART C

C1 DESIGN CRITERIA FOR RESIDENTIAL DEVELOPMENT

C1.6 Acoustic Privacy

Outcomes



Noise is substantially contained within each dwelling and noise from any communal or recreation areas are limited. (S)

Noise is not to be offensive as defined by the Protection of the Environment Operations Act 1997, including noise from plant, equipment and communal recreation areas (S)

#### **Controls**

Noise generating plants including pool/spa motors, air conditioning units and the like shall not produce noise levels that exceed 5dBA above the background noise when measured from the nearest property boundary.

#### **C1.13 Pollution Control**

#### **Controls**

Residential premises must not be designed, constructed, maintained and used in a proper and efficient manner to prevent air, water, noise and/or land pollution.

Developments must comply in all respects with the Protection of the Environment Operations Act, 1997, and other relevant legislation.

In addition to the above, the NSW Protection of the Environment Operations (Noise Control) Regulation 2008 requires compliance with the following legislative criteria:

"Division 2 Use of articles

Subdivision 1 Time limits on the use of certain articles

#### 52 Air conditioners and heat pump water heaters

- (1) A person must not cause or permit an air conditioner or heat pump water heater to be used on residential premises in such a manner that it emits noise that can be heard within a habitable room in any other residential premises (regardless of whether any door or window to that room is open):
  - (a) before 8 am or after 10 pm on any Saturday, Sunday or public holiday, or
  - (b) before 7 am or after 10 pm on any other day.
- (2) A person is not guilty of an offence under subclause (1) in relation to a heat pump water heater if the conduct alleged to give rise to the offence occurs within 6 months after the commencement of this Regulation.
- (3) A person is not guilty of an offence under subclause (1) unless:
  (a) the person has, within 7 days after causing or permitting an air conditioner or heat pump water heater to be used in such a manner, been warned by an authorised officer or enforcement officer not to cause or permit the air conditioner or heat pump water heater to be used in that manner, and



(b) the person causes or permits an air conditioner or heat pump water heater to be used in that manner within 28 days after the warning has been given.

#### (4) In this clause:

heat pump water heater means a device that heats water using the energy generated from the compression of a gas."

#### 52 Air conditioners and heat pump water heaters

- (1) A person must not cause or permit an air conditioner or heat pump water heater to be used on residential premises in such a manner that it emits noise that can be heard within a habitable room in any other residential premises (regardless of whether any door or window to that room is open):
  - (a) before 8 am or after 10 pm on any Saturday, Sunday or public holiday, or
  - (b) before 7 am or after 10 pm on any other day.
- (2) A person is not guilty of an offence under subclause (1) in relation to a heat pump water heater if the conduct alleged to give rise to the offence occurs within 6 months after the commencement of this Regulation.
- (3) A person is not guilty of an offence under subclause (1) unless:
  (a) the person has, within 7 days after causing or permitting an air conditioner or heat pump water heater to be used in such a manner, been warned by an authorised officer or enforcement officer not to cause or permit the air conditioner or heat pump water heater to be used in that manner, and
  (b) the person causes or permits an air conditioner or heat pump water heater to be used in that manner within 28 days after the warning has been given.
- (4) In this clause:

heat pump water heater means a device that heats water using the energy generated from the compression of a gas."

#### 4 MEASUREMENT STANDARDS AND EQUIPMENT

All measurements were conducted in general accordance with Australian Standard 1055.1-1997, "Acoustics - Description and Measurement of Environmental Noise Part 1: General Procedures". Acoustic Dynamics' sound measurements were carried out using precision sound level meters conforming to the requirements of AS 1259-1990 "Sound Level Meters".

The survey instrumentation used during the survey is set out in Table 4.1.



Table 4.1 Noise Survey Instrumentation

Туре	Serial Number	Instrument Description
2260	2413547	Brüel & Kjaer Modular Precision Sound Level Meter
4189	2607949	Brüel & Kjaer 12.5 mm Prepolarised Condenser Microphone
4231	1730737	Brüel & Kjaer Acoustic Calibrator

The reference sound pressure levels were checked prior to and after all measurements using the relevant acoustic calibrator and remained within acceptable limits.

#### 5 EQUIPMENT NOISE MEASUREMENTS AND ASSESSMENT

Acoustic Dynamics' conducted a site visit and inspection of the installed items of pool and spa equipment on Tuesday 7 June 2011. Noise emission measurements were conducted to determine the noise contribution of the installed pool and spa equipment, including the cleaning pumps and heating pumps, at adjacent receiver locations. Ambient background noise measurements were also conducted, during the late evening hours, to determine the background noise environment in the absence of noise emission from the subject installed equipment.

Acoustic Dynamics advises that the background noise measurements undertaken are representative of the quietest background noise levels during the period in which the subject equipment operates. The measurements were conducted on a calm, clear evening, with little or no insect and fauna noise.

Further to Acoustic Dynamics' background noise measurements, the following summary information is provided:

An evening background L<sub>A90</sub> noise level of **39 dB(A)** was measured at around 9pm at the nearest residential receiver locations;

Further to these measurements and Council's consent conditions, the following is derived:

□ The criterion for noise emission from the subject pool and spa equipment for daytime and evening (7:00am to 8:00pm)\* operation is an L<sub>Aeq</sub> of 44 dB(A) at the nearest residential receiver locations and an L<sub>Aeq</sub> of 39 dB(A) for night-time operation. (\*Note: 8:00am to 8:00pm on Sundays and public holidays)

Acoustic Dynamics understands:

☐ The subject pool and spa equipment is operated on an electronic timing device and the heater is not used during the night-time hours (between 8pm and 7am (8am on weekends)).

Noise emission associated with the operation of the relevant equipment was measured and assessed during our survey, between 8:45pm and 9:45pm on Tuesday 7 June 2011.



Noise emission measurements were taken at the boundary of the nearest residential receiver, along the western boundary of the subject development site (44 Sunrise Road, Palm Beach). All equipment was operated at maximum capacity, for the purpose of our measurements.

Acoustic Dynamics' measurement results are provided within **Table 5.1** along with an assessment against the relevant noise emission criteria.

Table 5.1 Equipment Noise Measurement Results

Location	Equipment Operating	Measured L <sub>Aeq</sub> Noise Level [dB(A)]	Calculated Contributed L <sub>Aeq</sub> Noise Level [dB(A)]	Relevant L <sub>Aeq</sub> Criterion [dB(A)]	Complies with Daytime & Evening Criterion?
Boundary of	All Pool Equipment (excl. heater and pump)	40	<35	44	Yes
44 Sunrise Rd	All Pool Equipment (excl. heater and pump)	41	<36	44	Yes

Notes: 1) Noise level is controlled by extraneous noise in the area.

#### 5 DISCUSSION AND CONCLUSION

Acoustic Dynamics has assessed the noise emission associated with the operation of pool and spa equipment located at 42 Sunrise Road, Palm Beach, NSW, in accordance with Pittwater Council's requirements.

Acoustic Dynamics' noise measurements indicate noise emission resulting from the concurrent operation, at maximum capacity, of all items of pool and spa equipment complies with Pittwater Council's relevant noise assessment criteria during daytime and evening hours, when measured at the adjacent residential boundary locations.

Accordingly, we attach the following component certificate:

#### 1. Pittwater Council Component Certificate - Pool Filter Noise (PFN-1); and

We trust that the above information meets with your present requirements and expectations. Please do not hesitate to contact us on 02 9908 1270 should you require further information or clarification.

Yours Faithfully

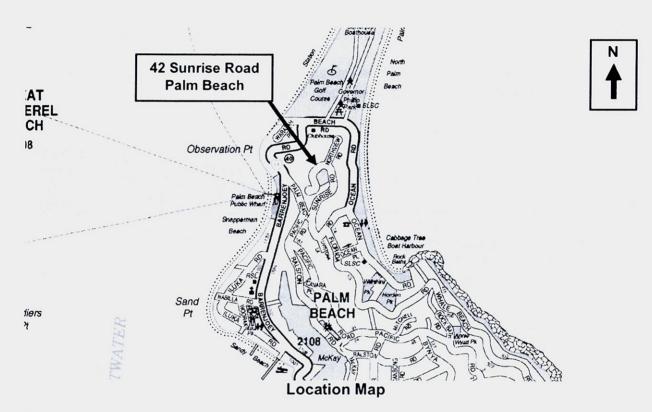
**ACOUSTIC DYNAMICS** 

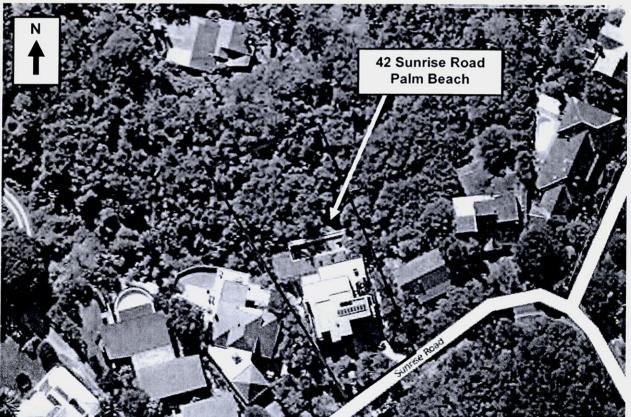
RICHARD HAYDON

Document	Revision	Date	Prepared	Checked	Approved
2953L001.AB.110705	Revision 0	29 July 2011	RH	МН	1.6



# Appendix A Location Map, Aerial Photo & Plan





**Aerial Photo** 

## 38 SERPENTINE ROAD, GREENWICH N.S.W. 2065 TEL. (02) 9439 2380 FAX: (02) 9901 3185

**Anthony Protas Consulting** Locked Bag 1001 Wareemba NSW 2046

29.07.11

RE: DA 528/07 42 Sunrise Rd Palm Beach conditions E6, E7.

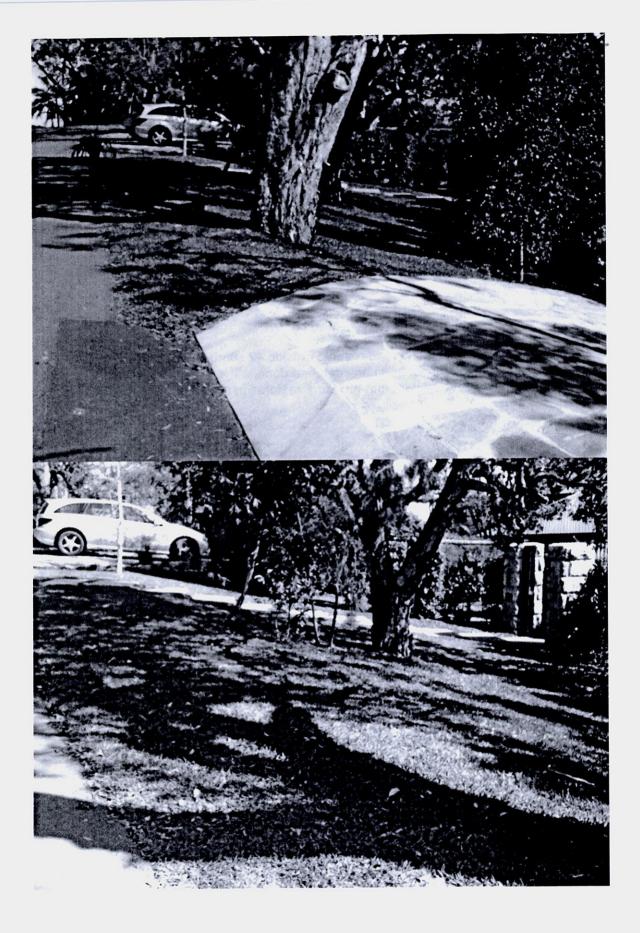
Dear Anthony,

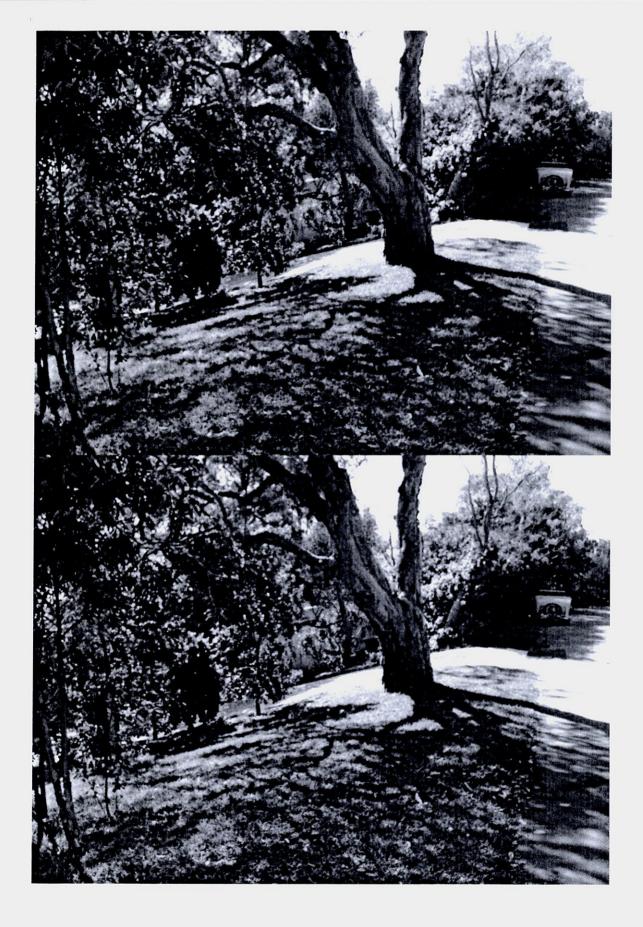
Attached are photos of the street trees and road reserve outside 42 sunrise Rd after the completion of construction. There has not been any damage done to the trees or to public infrastructure as a result of the development and therefore restoration of public infrastructure was not necessary.

Regards,

1ARotall

Will Rothwell





Information Provided Through

Rudov & Associates P/L Ph. 0403 36 39 36 Fax.

## Title Search

**LEAP Searching** An Approved LPI NSW Information Broker

LAND AND PROPERTY INFORMATION NEW SOUTH WALES - TITLE SEARCH \_\_\_\_\_

FOLIO: 152/6937

----

EDITION NO DATE SEARCH DATE TIME \_\_\_\_\_ \_\_\_\_ 4 17/11/2006 26/10/2011 10:46 PM

LAND

LOT 152 IN DEPOSITED PLAN 6937 LOCAL GOVERNMENT AREA PITTWATER PARISH OF NARRABEEN COUNTY OF CUMBERLAND TITLE DIAGRAM DP6937

FIRST SCHEDULE

SUSAN ELIZABETH ROTHWELL

(T AC740110)

SECOND SCHEDULE (3 NOTIFICATIONS)

- RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S) 1
- 2
- AG582060 POSITIVE COVENANT AG582061 POSITIVE COVENANT 3

NOTATIONS

UNREGISTERED DEALINGS: NIL

\*\*\* END OF SEARCH \*\*\*

PRINTED ON 26/10/2011

<sup>1111</sup> 

<sup>\*</sup> Any entries preceded by an asterisk do not appear on the current edition of the Certificate of Title. Warning: the information appearing under notations has not been formally recorded in the Register. Leap Searching an approved NSW Information Broker hereby certifies that the information contained in this document has been provided electronically by the Registrar General in accordance with Section 96B (2) of the Real Property Act 1900.



# POST-CONSTRUCTION CONDITIONS OF APPROVAL ASSESSMENT

## **FOR**

## **OCCUPATION CERTIFICATE**

**42 SUNRISE ROAD, PALM BEACH** 

**Prepared for:** 

Rothwell Architects C/- Naturally Trees

**NOVEMBER 2011** 

## Actinotus Environmental Consultants

Flora and Fauna Surveys, Biodiversity Impact Assessment & Bushfire
Hazard Assessment Services
Australian Business Number (ABN) 71 034 926 744
3/28 Tullimbar Rd, Cronulla NSW. 2230
7 Townsend Avenue, Frenchs Forest NSW. 2086

Tel: 9527 5262; 9453 9397. Mob: 0403 081902; 0412 217896. Fax: 9527 7454

Email: <a href="mailto:aec@actinotus.com">aec@actinotus.com</a>
Web: <a href="mailto:www@actinotus.com">www@actinotus.com</a>

#### **Actinotus Environmental Consultants**

Peter Stricker BSc. (Hons) (Syd) #

Anthony Smith-White BSc. (Syd), CertHEd., MSc., PhD. (UNSW) #+

Margaret Smith-White BSc. (Mcq), PhD. (UNSW) +\* #

- # Member Ecological Consultants Association NSW Inc
- \* Member of Bird Atlassers Association of NSW
- \* Member Birds Australia

#### Consultants experience

The principals of 'Actinotus Environmental Consultants' have collectively worked in the area of floristic impact and bushfire hazard assessment services for a period of greater than 20 years. They also have over 30 years of experience in scientific research (ecological, genetic) and teaching in biological science.

The principals of 'Actinotus Environmental Consultants' have completed the NSW Consulting Planners Bushfire Training Course organised by the Planning Institute of Australia NSW Division for planning consultants and allied professionals relating to the implementation of 'Planning for Bushfire Protection', in June 2003.

#### MATTERS TO BE SATISFIED PRIOR TO ISSUE OF OCCUPATION CERTIFICATE

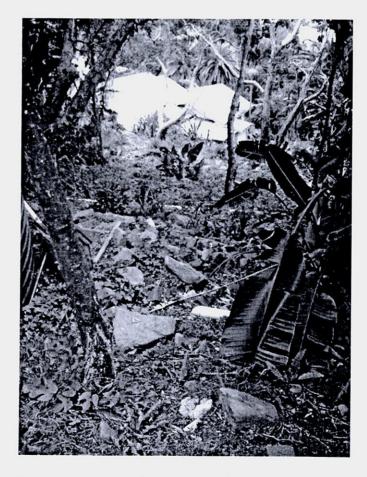
#### Southern section of site

The southern section of the site has been remediated with landscaping being undertaken in accordance with plans illustrated on Susan Rothwell Architects Landscape Plan sr42 – 106 approved by Pittwater Council.

There is no damage to street trees of Broad-leaved Paperbark and the road reserve has been remediated with 'soft leaf' Buffalo Grass turf laid to the road edge.

#### Northern section of site

The vegetation of the northern section of the site has been modified to form an Asset Protection Zone and has been cleared to ground level of any shrubs including shrubs of woody weed species. Regrowth of some shrubs and small trees, including weed species is occurring. Figure 1 indicates the current regrowth structure of the vegetation at a part of this section of the site.



**Figure 1**- Indicates the current regrowth structure of the vegetation at a part of this section of the site.

E15 – 'All work required by the Environmental Sustainability Plan (removal of protective fencing, weeds, site rehabilitation) to be completed'.

#### **Comments:**

- Protective fencing has been removed
- Weed species in the northern section of the site, including some noxious weeds have re-established since a previous assessment by POD Landscaping P/L in June 2011.

The following weed species were observed in the northern section of the site:

Status	Scientific Name	Common Name	Relative frequency of Occurrence
C4	Asparagoides aethiopicus	Asparagus Fern	c
*	Bidens pilosa	Cobblers Pegs	0
*	Conyza albida	Fleabane	с
*	Conyza canadensis	Tall Fleabane	0
*	Ehrhata erecta	African Veldt Grass	С
*	Erechtites valerianifolia	Brazilian Fireweed	0
*	Galinsoga parviflora	Potato Weed	u
C4	Ipomoea indica	Blue Morning Glory	с
C4	Lantana camara	Lantana	0
C4	Ligustrum lucidum	Large-leaved Privet	u
*	Musa paradisica	Banana	с
*	Nephrolepis cordifolia	Fishbone Fern	С
*	Nothoscordum borbonicum	Onion Weed	u
C4	Ochna serrulata	Mickey Mouse Plant	0
*	Senna pendula subsp glabrata	Common Cassia	0
*	Solanum nigrum	Black Nightshade	С
*	Sonchus oleraceous	Common Sowthistle	С

#### KEY

#### Status

\* Exotic species

C4 - Noxious weeds in Pittwater Shire LGA as listed on the NSW Noxious Weeds Act (1993)

#### Relative ranked frequency of occurrence

- c very common common
- moderately common occasional
- u relatively uncommon uncommon

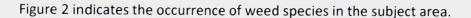




Figure 2 indicates the occurrence of weed species such as Morning Glory, Lantana, Common Cassia, Fishbone Fern, African Veldt Grass, Banana, etc in the subject area.

Most of these weeds are opportunistic and readily invade cleared areas and so must be regularly monitored, removed and controlled. Hand-pulling is sufficient in most cases, though chemical spraying for grasses, and cut and swab for woody weed species such as Lantana and Large-leaf Privet, is sometimes required, as detailed in the Vegetation Management Plan prepared by Conacher Travers P/L (2011).

Site rehabilitation in regard to enrichment planting and landscaping in this section of
the site does not appear to have commenced. Building refuse also occurs in the subject
area. Sediment control fencing across the steep sloping northern section of the
property does not appear to have been installed.

E16 – 'Bushland is in the same (or better condition) post development relative to predevelopment except in the location of the approved zone of influence of the development of the site'.

#### **Comments:**

 The previous composition of the northern section of the site has been described as having the shrub layer (which may have historically been removed) dominated by weeds, with only a limited number of native grasses and ferns occurring. The understorey had been significantly impacted by the dumping of grass refuse (Conacher Travers 2011).

In this respect the current condition of the subject area is in better condition than the pre-development condition.

Certified by: Peter Stricker

Principal

**Actinotus Environmental Consultants** 

Signed

Dated 11.11.2011