### SEISMIC RISK BUILDINGS - SURVEY

GENERAL 25/1	1/01			0.31	101-2125 22
Date inspected:			Car	File No: 60/	40/79/255-271
Address of Building: 255-	LTILLION CHESTED	OI C		rbach 2	(dream).
Legal Description of Site:					Glow Wister
Name of Owner:					
Address of Owner:  Principal Tenants:	= el Cooles / Ho	· Rall	16.0% xx xx xx xx	HEW	
		7-13-11		Comes la	cohear
Occupancy: (please tick)	8 hours		24 hours L	5 days	7 days
Use (eg. Office, Workroom, Fact	tory Commercial, Store	age, Other	):	*********************	
STRUCTURE  Date of Construction: 1907  Building Dimensions: Width:		Length;		leight:	
Number of Storeys:	Foundation Type:		Structural Co. 1	_	
Number of Storeys: 2			Structural System:		ding:
Mezzanine	Strip Footing: Raft	Ħ	Frame Shear Wall		nal Form
Basement	Piles	Ħ.	LBM/B&C		r Alterations
		(			tantial Alterations
Floor:	Roof Coverings:		Number of Stairs:	Z Grou	and Conditions:
R H	Concrete	片	Type: 1000	Rock	
Wood M	Asphalt	H	Wood	Grav	,
Eff Diaph	Galv Iron	片	Steel	Sand	1/5/11
Non Eff	Corr Asbestos		PC	Clay	
	Tiles (rew)	4		Fil	
Roof:	Chimneys:	~	Roof Diaphragm:	Num	iber of Lifts:
Pitched	Brick		Effective	******	
Flat	Other		Non Effective	Oper Enck	— — — — — — — — — — — — — — — — — — —
Street Walls: DELCK Parapets: Constant	776 5 51313 -	Sire	e/s brek	۔ کا موں	
NON STRUCTURAL Partitions: 1					
DAMAGE		_	NUME	RICAL RATING	1
Cracked Walls Lateral Dis		ement 🔲	Mainte	nance	V
			Storey	s	Т.
STRUCTURAL Poor Fair Good C	٦		Appen	dages	
Poor L.J. Fair L.Y. Good L. Hazards:			Public	Access	2
			Wall C	ontinuity	
Shengthering of forepet revoved	De 12 199	7.	Time C	Occupied	
foregot respond	B.P. # 74/50	33 -	Interna	al Walls	
to offer to some	V		Person	ns Occupied	
				aunns	t a l
					7
			Date E		2 13 B

### TABLE 1 BUILDING ASSESSMENT

	T	Numerical Ratin	ξ
	2	1	0
General Standard of Maintenance	Poor	Fair	Good
Appendages on Street Frontage	Significant amounts of masonry	Minor	Nil
Continuity of External Walls	No continuity	Reasonable contin- uity	Full Structural Continuity
Effectiveness of Internal Frames	Non-existent	Some Moment Resist- ance	
Foundation Conditions	Bearing Capacity less than ½ T/ft2	Gravels etc. Bear- ing>½ T/ft2	Rock
Number of Storeys	More than 4	2 to 4	1
Public Assessibility	Central City	Suburban Commercial	Residential
Time Building Occupied	More than 50 hours/ week	More than 8 less than 50 hours/week	Less than 8 hours/ week
Persons in Building When Occupied	More than 4 persons per 1,000 sq. ft.	More than 2 less than 4 persons per 1,000 sq. ft.	Less than 2 persons per 1,000 sq. ft.
Date of Construction	Before 1920	Between 1920 and 1935	After 1935

TABLE 2 BUILDING CLASSIFICATION & REQUIRED ACTION

Total Numerical Rating	Building Classification	Recommended Action
15 and over	A	Immediate Action under Section 301A of Municipal Corporations Act.
12, 13, 14, 15	В	Remedial action within tw
9, 10, 11, 12	C	Remedial action within te
9 and under	D	Probably adequate if buil ing is well maintained.

### HAZARDOUS APPENDAGE SURVEY.

Address: Legal Desc.:	.255-271	lanchesler St	( also	173	blowest	er 5t).
Owner: Date: BU/40/	14/4/92	Date Buil	ding Built	: 1907	****	•••••••••
Parapet: Chimney: Cornice:	No Snall (	Z bonds ~	<b>2</b> 50 ~~	~ 0/1	1)	
Loose Masonr Mortar Deterio Cracking:	oration:	Significant / Noti Significant / Noti Significant / Noti	ceable / M	linor.		
Photo Referen						
0	car Build	ais, o.k	. (to-	H-A	<b>S</b> ,	

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		A Mary		0	
Chri	stchurch Eq.	RAPID Ass	essment F	orm - LEV	EL 1
2				_	
Inspector Initials	JM	Date of Inspection	05-09-10		
Territorial Authority	Christchurch City	Time	14-25	Exterior and in	.enor
Building Name	Map World	, City F8	C MA	Milann	on Parry
Short Name			onstruction	Bet	00-60- / 1
Address ⊋%≤	enr. Man & GI	CCC-C	ber frame		shear wall
	367-269 Mand		el frame	AND	ced masonry d masonry
GPS Co-ordinates  Contact Name	Sº <b>E</b> ⁰		up concrete crete frame	Confined	·
Contact Phone			frame with masonry infi		musomy
	Palaus maura		ocupancy		
Storeys at and above ground level	Below ground 9 level		elling		ial/ Offices
Total gross floor area	Year	Othe D Othe	er residential	Sherial Industrial	3
(m²) 42×20		<u> </u>	lic assembly	Governme	ont.
No of residential Units	NA	☐ Sch	·	Heritage L	
Photo Taken	Yes) No		gious	Olher	J
	r the conditions listed below:		91000		
Overall Hazards / Damag			vere	Comme	nts
Collapse, partial collapse, of					
Building or storey leaning					
Wall or other structural dam	age 🖺				
Overhead falling hazard	[TY]			***************************************	
Ground movement, settleme			_	×	
Neighbouring building hazard			- No noho	alice oface	wage to
Other			-CUA	urm blo	4
Change a posting	based on the evaluation and	taam ludgament Sever	re conditions affection	the whole building at	e grounds for an
UNSAFE posting.	Localised Severe and overall	Moderate conditions m	nay require a RESTRIC	CTED USE. Place INSP	ECTED placard at
main entrance. Po	st all other placards at every	significant entrance.			
	INSPECTED	RESTRIC	TED USE	UNSAFE <i>RED</i>	
Bassad and seed of	GREEN L		YELLOW	NLD	
Record any restr	iction on use or entry:				
Further Action Re	ecommended:				
	elow <u>only</u> if further actions are re	ecommended			
•	e needed (state location): tailed engineering evaluation re	commended			
	· · ·	Geotechnical	Other:		
☐ Other recomm	nendations:				/
Estimated Overall Buildi	ing Damage (Exclude Conte	ents)	Γ	Sign here on co	mpletion
None	/)	-		Gight field off oc	mpotion
0-1 % <b>L</b>	31-60 %		-		
2-10 %	61-99 %	Pr Sec	: 608 Date 8	& Time	
11-30 %	100 %	Pt Sec   810731	ID ID	×	
1		×10731			<del> </del>
Inspection ID <u>IM</u> 5	) 分 (Office Use Only)	3 1			

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# Christchurch Eq RAPID Assessment Form - LEVEL 2

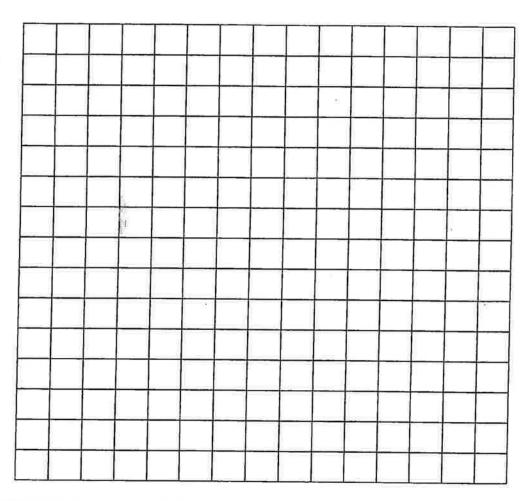
Inspector Initials Territorial Authority	Christchurg	h City	Date Time	1	14.09		Final I		ing g. UNSAFE)	ř
Building Name Short Name	Mapy	voxld/	FISH&		P SVIO		oe Ref	أاحد	rshop.	
00	inr. Glos	12 1-01	(8)	I JP	Timber fran				Concrete shear wall	1
Audioss	Man ch				Steel frame			H		
GPS Co-ordinates	So So	E0 E0		岩				H	Unreinforced masonry	
Contact Name	2,			岩	Tilt-up cond				Reinforced masonry	
Contact Phone			-	岩	RC frame v		, i=eiii		Confined masonry Other:	
		Below		=	ary Occupa		A 11 17111	Ц	Other:	
Storeys at and above ground level	02	ground level			Dwelling	icy			Commercial/ Offices	
Total gross floor area (m²)		Year built —			Other reside				Industrial	
No of residential Units					Public asse	mbly			Government	- 1
\	~				School				Heritage Listed	
Photo Taken	Yes')	No			Religious				Other	/
Investigate the building fo	r the conditions	isted on page	e 1 and 2, a	and ch	eck the app	ropriate co	olumn. A sl	ketch	may be added on page 3	
Overall Hazards / Damag	ge M	inor/None	Moderate	e	Severe				Comments	
Collapse, partial collapse, off	foundation	Ø				****				
Building or storey leaning		团								
Wall or other structural dama	ge	Ø				Min	or cre	ick	s in brickwall	(South
Overhead falling hazard		$\square$				side	), cra	901	e in arch wind	low
Ground movement, settlemen	nt, slips	_ _	П						side)	
Neighbouring building hazard	•	<u> </u>	$\bar{n}$				21 ( 30.		/ B (C(E )	
Electrical, gas, sewerage, wa		14	П					_		
Electrical, gas, concrage, na										
	xisting placard				Pla (e.	isting Icard Typo g. UNSAF	E)		PECTED.	
grounds for an UN	SAFE posting. L	ocalised Seve	re and over	all Mo	derate cond	itions may	require a R	REST.	e whole building are RICTED USE. Place chosen posting to the top	
	REEN G1 (	G2	RESTRI		USE LOW Y	1 Y2	ZANU [	AFE R <i>ED</i>	R1 R2 R3	
Record any restric		entry:								
Further Action Re										
Tick the boxes belong the Barricades are ☐ Detailed engine	needed (state loc	ation):	mmended						28	
∠ □ Stru	ıctural	☐ Ge	otechnical			ther:	appr	sþr	iale crack repair	defau
Other recomme	endations: Get	-a stru	ctuel	Eng	Ineer's	05	Stem	ce	to check & prov	ride,
Estimated Overall Buildin					•			_	nere on completion	7
None	·						00	ا انواد ا الح	C S	
0-1 %	31-6	60 <b>%</b>					T.x	10)	and the	
2-10 %		99 %				Date	e & Time		14.09.2010.	
11-30 %	100	%				ID			07-US.	
Inspection ID:	(Office	Use Only)					PR	U F	7:	

Structural Hazards/ Di	amage	Minor/None	Moderate	Severe	Comments
Roofs, floors (vertical load	)	囡			
Columns, pilasters, corbel	s	团			
Dlaphragms, horizontal bra	acing	Ø			(17/7)
Pre-cast connections					
Beam		Ø			
Non-structural Hazard	s / Damage		_	_	
Parapets, ornamentation		冱			Minor cracks in joint
Cladding, glazing		Ø			between the brickwall &
Cellings, light fixtures		团			Large Windows on east side
Interior walls, partitions		囡			minor cosmetic cracks
Elevators					in gib wall living and
Stairs/ Exits		Ø			ceiling in stairs area.
Utilities (eg. gas, electricity	, water)	囡			Minor vertical crack in joint
Other					between brick & block walls
Geotechnical Hazards	/ Damage				In rubbishroom.
Stope failure, debris		回			
Ground movement, fissures	3				Fish & chip shop - minor
Soil bulging, liquefaction					cracks in Gibceiling .
General Comment		are min			brickwall, mainly on the
	ceili			_	shoe Repair Shop and in
-	Dairy.	11			alceaning shop.
-	J				0
Usability Category  Damage Intensity	Posting	Usabil	ity Category	_	Remarks
Light damage	Inspected		no immediate furt	her	
Low risk	(Green)	G2. Occupiable,	repairs required		
Medium damage	Restricted Use	Y1. Short term er	ntry		
Medium risk	(Yellow)	Y2. No entry to p demolished	arts until repaired	or	
Heavy damage		R1. Significant da strengthenin			
High risk	Unsafe (Red)	R2. Severe dama	ge: demolition like	ely	
i agu non		R3. At risk from a from ground		or	

2 Inspection ID: \_\_\_\_\_ (Office Use Only)

Sketch (optional)
Provide a sketch of the entire
building or damage points. Indicate
damage points.

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Recommendations for Repair and Reconstruction or Demolition (Optional)

	southside ASAP. Also repair all other cracks in the walls & ceiling.
₩	Check the arch linter above Dairy would for any
	loose bricks. Remove / secure if found to be loose.
+	Support arrangement (eg. steel bands) to extern
	arch lintels shall be provided to prevent sudden
	failure of lintel blocks (consult a structural Engineel

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PH/LT CCC	Date of Inspection	n 20/9/2010	Inspected		Page 1
CCC					Use
	AMPM	10 am	Unsafe		
			FINAL POSTIN	G from Pg. 2	
ling Name MAP Work	-0	Address Munc	hester S	met &	6-LOUGESTER
known as		Type of Constructio			
ription Lot DP		Timber frame		Concrete shea	ar wall
rID	a. L	Steel frame	X	Unreinforced (	nasonry
act Name Monty Clark	on Thus	Tilt-up concre	te	Reinforced ma	asonry
act Phone		Concrete fram	ne	Other:	
ys above Below		Primary Occupancy	112		
		Dwelling	$\times$	Commercial/ (	Offices
area (m²)				Industrial	
residential					
				Heritage Liste	d
Taken (Yes) No	No	Other:			/
estigate the building for the co	onditions listed ar	nd check the appropriat	te column. A sk	etch may be a	dded on pg. 2
all Hazards			The second secon		
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ors		$\hookrightarrow$	Certing	1-0 10 8	Popped
Exits			rugel	C) to C	111125
s (e.g. gas, electricity)		_     _	<del></del>		
cant fire safety concerns					
,	Y		H-9		
echnical Hazards		°			
failure, debris	X				
d movement, fissures					
				***************************************	
ral Comments	ا لندا		( <del>=</del>		
	act Name Monty Clark act Name Monty Clark act Name Monty Clark act Phone  ys above Ground area (m²)  residential  Taken (es) No  estigate the building for the color all Hazards ase or partial collapse ag or storey leaning  tural Hazards ations floors (vertical load) ans, pilasters, corbels argms, horizontal bracing ast connections  structural Hazards ats, ornamentation ang, glazing ast, ight fixtures ats, ornamentation ang, glazing ast, ight fixtures ats, ornamentation ang, glazing ast, ight fixtures ats, ornamentation and, glazing ast, ight fixtures atsian attributed attribute	act Name Monty Clarton Trust act Phone  ys above Below ground  area (m²)  residential  Taken So No No.  estigate the building for the conditions listed are all Hazards ase or partial collapse agor storey leaning  tural Hazards ations floors (vertical load) ans, pilasters, corbels argms, horizontal bracing ast connections  structural Hazards ets, ornamentation ang, glazing as, light fixtures awalls, partitions are walls, partitions are served as a	Timber frame Steel frame Steel frame Tilt-up concret Concrete fram Tilt-up concret Concrete frame Tilt-up concrete Tilt-up concr	ription Lot DP  ID  act Name Monty Claston Thust Steel frame Tilt-up concrete Concrete frame  ys above Below ground Dwelling Other residential Public assembly School Other:  estigate the building for the conditions listed and check the appropriate column. A sk all Hazards se or partial collapse agor storey leaning tural Hazards ations floors (vertical load) ns. pilasters, corbels argms, horizontal bracing st connections  structural Hazards atts, ornamentation ng. glazing ys. light fixtures walls, partitions ors Exits se (e.g. gas, electricity) cant fire safety concerns of movement, fissures	ription Lot DP  Timber frame Steel frame Tilt-up concrete Concrete sheet Unreinforced may other Steel frame Tilt-up concrete Concrete frame Other:  Primary Occupancy Dwelling Other residential Public assembly School Other:  Potaken (es) No No. Other:  Sestigate the building for the conditions listed and check the appropriate column. A sketch may be at all Hazards see or partial collapse gg or storey leaning  tural Hazards ations floors (vertical load) ms, pilasters, corbels sagms, horizontal bracing st connections  structural Hazards ets, ornamentation mg, glazing s, light fixtures walls, partitions ors Exits See, g. g.s, electricity) and fire safety concerns  choical Hazards atimer, debris d movement, fissures



# Rapid Assessment Form – Level 2

Inspector ID: 1214 =						
Address:  iMAP WORL  Sketch (optional)  Provide a sketch of the el  building or damage points  Indicate damage points.	ntire					
Estimated building damage (exclude contents)  None  0-1%  2-10%  11-30%  31-60%  61-99%	je					
100%						
building are groun RESTRICTED US		(e.g aluation and team judg. Localised <b>Severe</b> acard at main entranc	and overall Mode	erate conditions	cting the whole	
INSPECTED GREEN	RESTRICTED USE YELLOW		NSAFE RED			
Tick the boxes to Barric Details	elion on use or entry:  nelow only if further action ades are needed (state lo ed Engineering Evaluation recommendations:	cation):	structural	geoted	chnical oth	ner:
bricks Once S De Fix	racks in Par Wilh Expanded Erre Windows to	papet + oxy resignated when the wo	n E	Sign here on ool GR Hamilton BE(Civil) MHREN	mpletion  LUC Z, CPEng, Int P	

### **Photographs of the Site and Buildings**



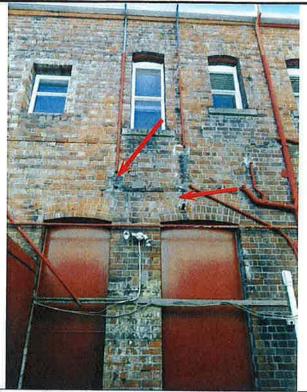


Photo 1. General view of the building

Photo 2. South wall brick parapet cracking

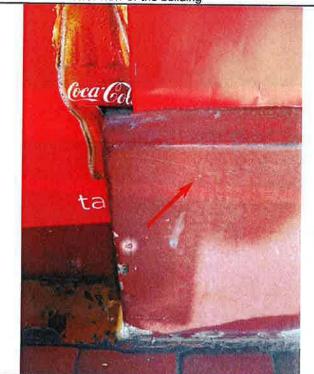
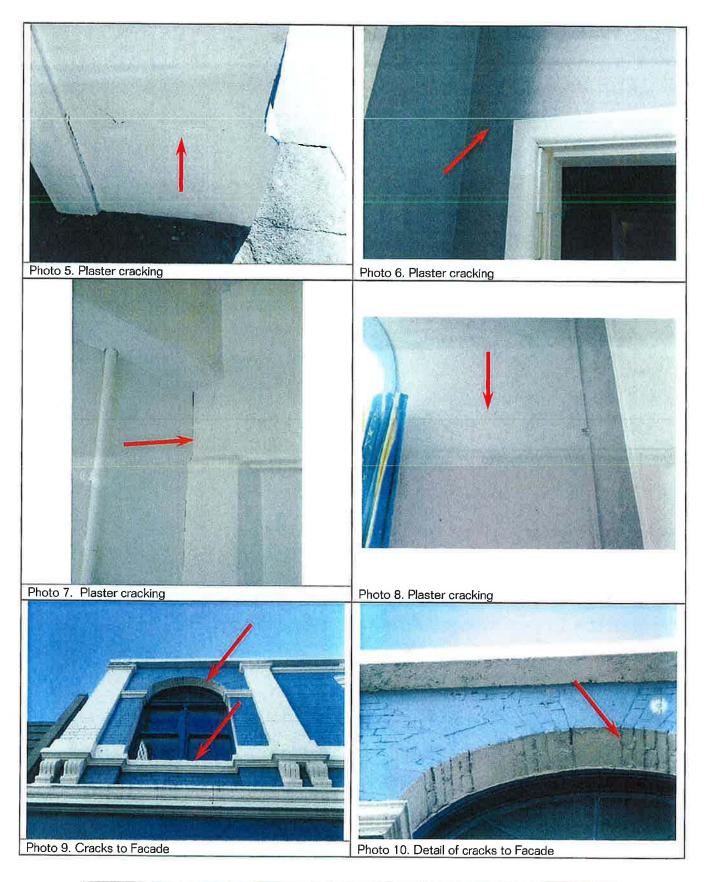
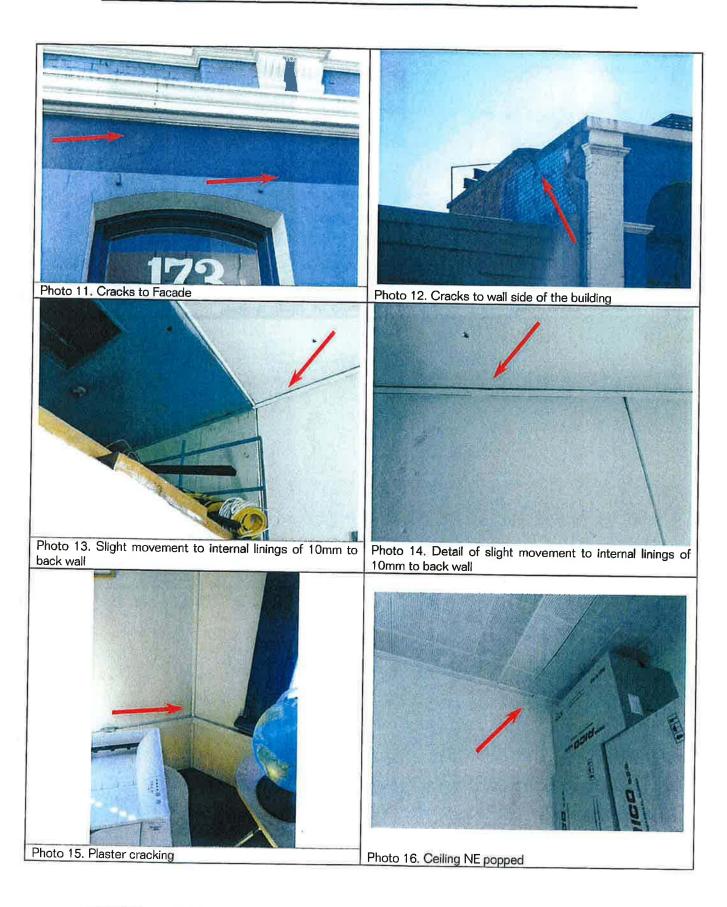


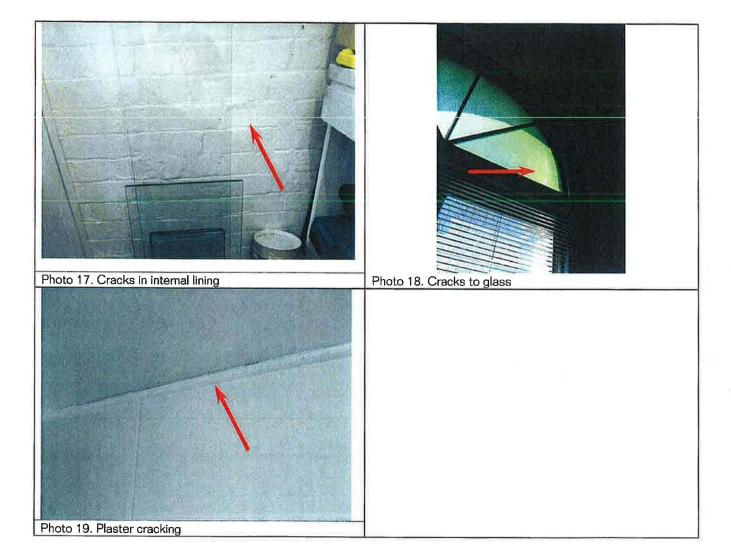
Photo 3. Cracking to foundation



Photo 4. Cracking to foundation







#### 1 April 2011

Wendy Blackwell Claims Officer Anthony Runacres and Associates Limited PO Box 4020 Christchurch 8015



6QUPVT.00

Dear Wendy

173 Gloucester Street (corner of Gloucester and Manchester Street) Building Inspection and Recommendations
Prepared for Anthony Runacres and Associates Limited

#### Introduction

Opus International Consultants Ltd has been engaged by Anthony Runacres and Associates Limited to carry out a structural inspection of the building at Corner of Gloucester and Manchester Street (173 Gloucester Street), due to damage resulting from the 22 February 2011 M6.3 Christchurch earthquake and ensuing aftershocks.

The purpose of our inspection is to carry out an independent structural assessment of the building, and report our findings and recommendations.

We understand the building is currently for commercial purposes and that is insured with Anthony Runacres and Associates Limited.

#### Scope of Work

The scope of work includes:

- An external visual inspection of the building to determine damage resulting from the earthquake;
- Reporting on our findings and recommendations.

#### Limitations

Our inspection was limited to an external visual inspection of the building. No linings or finishes were removed to expose structural elements, however many were visible due to damage. We assessed the building to be in a highly unstable condition from our external inspection and consequently did not carry out an internal inspection.

No structural analysis was undertaken for this report and no structural drawings were available or reviewed.

This report is based on an inspection of the structure of the building and focuses on the structural damage resulting from the 22 February 2011 earthquake and aftershocks only.

This report is prepared for Anthony Runacres and Associates Limited to assist them with insurance claim purposes associated with the building. It is not intended for any other party or purpose.

#### **Building Description**

The building is a two storey structure of "L" shape in plan, with the longer wing along the Manchester Street (North – South direction). The year of construction is unknown but we assume it would be in the early 1900's. The first and second storey external walls and columns and some of the internal partition walls are constructed of Un-Reinforced Masonry (URM) (i.e., brick). We observed during our site visits that the upper level walls are internally clad with timber sarking. There is a reinforced concrete bond beam/parapet wall at the roof level. The roof framing is constructed of timber and roof cladding of heavy tiles. We do not know what kind of foundation is provided for the walls and the ground floor of the building. We assume that the upper level floor is a timber construction.

We understand that the building is not classified as a heritage item in the City Plan, and appears to have no classification with the Historic Places Trust.

From our site visit we consider that the building is likely to be defined as Earthquake Prone, in accordance with the Building Act 2004.

#### **Building Condition**

The building has sustained significant damage from the earthquake and aftershocks as follows: (Refer to photographs in Appendix 1).

- 1. The unreinforced masonry on the upper floor along the Manchester Street (East) façade has almost completely collapsed from out of plane failure, (refer to photograph 1). The walls along the South façade (along Gloucester Street) have much less damage (photographs 3 and 4). This can probably be explained by the larger component of seismic shaking during the 22 February event being in the East West direction.
- 2. There is a large section of the reinforced concrete bond beam/parapet on the upper level of the east facade that is hanging precariously in place, held only by a few reinforcing bars to the remaining parapet (which could also easily collapse pulling with it other parts of the wall). This presents a falling hazard (refer to photograph 2).
- 3. A large portion of the south-west corner of the upper floor walls has collapsed (south façade). This is probably result of pounding with the neighbouring building to the west (refer to photograph 5).
- 4. Significant damage to the walls and columns occurred on the ground floor of the building. One of the columns on the Manchester Street façade was damaged to the extent that this caused misalignment of the upper level floor (refer to photograph 1).

We agree with the current red placard that has been previously assigned, outlining that the building is unsafe to approach or enter.

#### Conclusions

The building has suffered significant structural damage from the 22 February earthquake, and its gravity and lateral load resisting capacity is reduced significantly. We consider that due to the unstable condition of the building and damage sustained from the earthquake, repairs are not practically or economically feasible to undertake. Any work on the building could not stop only at repairing the damage i.e., reinstating its condition prior to the earthquakes, but would also have to include seismic improvements to bring the building above the Earthquake Prone threshold limit. It would be also very difficult to construct any retrofit work safely. We therefore recommend that this building be demolished.

With respect to the recovery of any property from the building in its current state, we consider that the risk and potential consequences of collapse is too high to recommend short term access.

Please don't hesitate to call me to discuss any aspect of this letter or the report (03 363 5520).

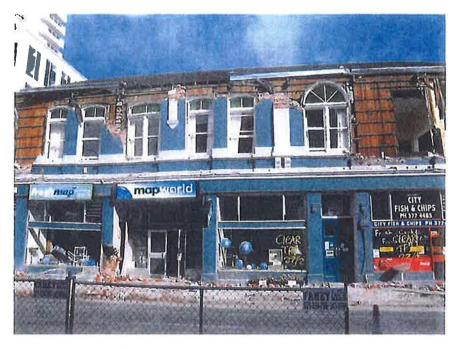
Yours sincerely

Senior Structural Engineer, CPEng 165725 (dejan.novakov@opus.co.nz) 04 4717 820

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Reviewed and approved for release by

Alistair Boyce Senior Structural Engineer, CPEng 209860



Photograph 1: Manchester Street elevation, showing damage to unreinforced masonry wall and columns and misalignment of the floor.



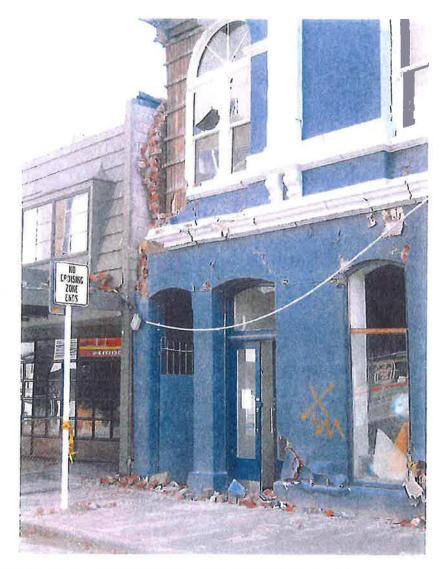
Photograph 2: Corner of the building, showing collapse of the reinforced concrete parapet.



Photograph 3: Corner of the building – detail: Observe less severe damage to unreinforced masonry along the Gloucester Street facade



Photograph 4: Gloucester Street Elevation



Photograph 5: Gloucester Street Elevation – west end: Damage to the first floor corner – likely due to the pounding with the West neighbour's building.

### M7 1086



Rapid Assessment Form - I	Level 1	Page 1 of 5
Inspector ID RH - CCC	Date of Inspection 75/4/11 Time 3.30	Areas Exterior Only Inspected Exterior and Interior
Also known as Description Lot DP Other ID Contact Name Contact Phone Storeys above ground Avg. area (m²) No of residential units Photo Taken  No No.	Type of Construction  Timber frame Steel frame Tilt-up concrete Concrete frame  Primary Occupancy	Concrete shear wall Un-reinforced masonry Reinforced masonry Other:  Commercial/ Offices Industrial Government Heritage Listed
Investigate the building for the conditions listed  Observed Conditions Minor/None  Collapse, partial collapse, off foundation Building or storey leaning Racking damage to walls, other structural damage Chimney, parapet or other falling hazard Ground slope movement or cracking  Other* (specify)  Comments:	and check the appropriate column	Estimated building damage  (exclude contents)  None  0-1%  2-10%  11-30%  31-60%  61-99%  100%  * investigate site hazards such as gas, electricity, sanitary sewer, stormwater or hazardous materials/processes
Choose a posting based on the evaluation and te Severe conditions affecting the whole building and Localised Severe and overall Moderate condition Place INSPECTED placard at main entrance. Post INSPECTED USE YELLOW  Record any restriction on use or entry  Tick the boxes below only if further actions are recommed Barricades are needed (state location):  Level 2 or Detailed Engineering Evaluation  Other recommendations, comments	e grounds for an UNSAFE posting.  Ins may require a RESTRICTED USI st all other placards at every signific UNSAFE RED  Anded:	geotechnical other:

M7 1086



Also known as  Description  Other ID  Contact Name  Contact Phone  Storeys above ground  Avg. area (m²)  No of residential  Description  Lot  DP  Timber fram  Steel frame  Tilt-up concr  Concrete fra  Primary Occupanc  ground  Dwelling  Other reside  Public asser	Concrete shear wall Unreinforced masonry Reinforced masonry Other:  Commercial/ Offices Industrial embly Government Heritage Listed
Authority  CCC  Time AMPW 3.30  Address A C Type of Constructi  Timber fram  Steel frame Tilt-up concr Contact Name Contact Phone Storeys above ground Avg. area (m²) No of residential  Public asser	FINAL POSTING from Pg. 2  Claused and Marchasta  etion  me  Concrete shear wall  Unreinforced masonry  Reinforced masonry  Other:  Commercial/ Offices  Industrial  Government  Heritage Listed  priate column. A sketch may be added on pg. 2
Building Name Mapuorld Also known as  Description Other ID Contact Name Contact Phone  Storeys above ground Avg. area (m²) No of residential  Address Ar G  Type of Constructi  Type of Constructi  Timber fram Steel frame Tilt-up concr Concrete fra  Primary Occupanc Ground Other reside Public asser	Concrete shear wall Unreinforced masonry Reinforced masonry Other: Commercial/ Offices Industrial Government Heritage Listed  Oriate column. A sketch may be added on pg. 2
Also known as  Description  Other ID  Contact Name  Contact Phone  Storeys above ground  Avg. area (m²)  No of residential  Type of Constructing  Timber fram  Steel frame  Tilt-up concr  Concrete fra  Primary Occupanc  ground  Other reside  Public asser	crition  me Concrete shear wall  e Unreinforced masonry Reinforced masonry Other:  Commercial/ Offices Industrial Embly Government Heritage Listed  criate column. A sketch may be added on pg. 2
	oriate column. A sketch may be added on pg. 2
units School Photo Taken Yes (No Other:	
Investigate the building for the conditions listed and check the approprious of the conditions listed and check the approprious collapse or partial collapse Building or storey leaning Other:  Structural Hazards Foundations Roofs, floors (vertical load) Columns, pilasters, corbels Diaphragms, horizontal bracing Pre-cast connections Other:  Non-structural Hazards Parapets, ornamentation Cladding, glazing Ceilings, light fixtures Interior walls, partitions Elevators Stairs/ Exits Utilities (e.g. gas, electricity) Significant fire safety concerns Other:  Geotechnical Hazards Slope failure, debris Ground movement, fissures	Top floor exterior vails and facally have suffered Significant damage (I Collapse) (I amage (I Collapse) (I amage (I Collapse) (I amage (I Collapse)
Other: General Comments	1 / /
	Adapted from ATC-20

# M7/086



# Rapid Assessment Form – Level 2

Address: Cnr Glaus Sketch (optional) Provide a sketch of the er building or damage points.	ntire				
Estimated building damage (exclude contents)  None 0-1% 2-10% 11-30% 31-60% 61-99% 100%	e				
building are ground RESTRICTED USI entrance. Transfe INSPECTED GREEN		calised <b>Severe</b> and over at main entrance. Post	t. Severe conditerall Moderate coall other placards	nditions may require	
Tick the boxes by Barrice Details Other Comm	elow only if further actions are addes are needed (state location and Engineering Evaluation recommendations:  The recommendations:  The recommendation and the state of the s	mmended:	100	geotechnical geographical geographical geotechnical geote	other:

### M7 1086

	7/	
	14	

apid Assessme	nt Form – Lev	vel 2	Page 4 of 5
Replace			
Levels			
Width	m	0	0
Length	m	0	0
Knee	m		
Apex	m		
Buildingard	Fitout.	Area Cost per m2	\$ \$30 m2 3000 - /m2 9000x
Estimated Replacement	Cost		\$ . //
Demolition Cost			\$ 250
Services	5%		\$ (¥
			\$ 096
Fees	5%		\$ 1/51
Contingency	5%		\$ - A
		Rebuild	\$ 2,490,000 ·00 Plus GST

Reinstate		From Rawlinso	ns Residential					
				Estin	Estimated Reinstatement			
	Rectify	Expected %	Expected \$	Min		Max		
d)	Site Preparation	0.50%	\$ -					
Structure	Foundations		\$	\$	oe: (	\$		
덛	Frame		\$	\$ \$ \$ \$ \$	5.5c	\$ \$ \$		
£.	Structural Walls		\$	\$	180 E	\$	16	
	Upper Floors		\$	\$	(%)	\$		
္	Roof		\$	\$	Æ	\$		
Ext	External Walls	10.00%	\$	\$	140	\$		
- 15	Windows and Doors	10.00%	\$ -/					
	Stairs		\$	\$		\$		
	Internal Walls		\$ /-	\$ \$ \$ \$ \$	(a)	\$		
Ē	Internal Doors		\$ / -	\$	iec .	\$		
Int Finishing	Floor finishes	4.00%	8 -	s /		\$		
虛	Wall Finishes	11.80%	\$	\$	160	\$		
Ĕ	Ceiling Finishes		\$ -/	\$		\$		
	Fittings and Fixtures		\$	S		\$		
	Sanitary Plumbing	5.00%	è	\$ \$		\$		
	Samilary ( lumbing	3.00%	Ų /	Ÿ	-	Ÿ	2555	
	Mechanical Services	(0000%		Ċ	. 1 1	\$		
Services	Fire Services		\$	\$ \$ \$ \$ \$ \$ \$		\$	2	
Š	Fire Services	100.000		\$				
Æ	Electrical Services	3,50%	\$ =	Ş	*	\$	10.	
0,	Lifts and Escalators	0.00%	\$	Ş		\$		
	Special Services	2.30%	\$ =	Ş	*	Ş	*	
	Drainage \	0.60%	\$ -	\$		\$		
	External Works	0.00%	\$		1 1			
	Sundries /		\$	\$ \$	-	\$	*	
	P&G		\$ 5	\$	5	\$	- 5	
		100.00%			1 1			
			\$ ⊚	\$	*	\$	*	
	Demolition	2.00%	\$ =	S	-	\$		
	Services		\$ =	Ś		S	-	
	Fees		\$ .	Ś	.	\$	*	
	Contingency		\$ -	\$ \$ \$ \$		\$	8	
	Contingency	7.0070						
		=	\$ -	\$		\$	- 2	
					0%		0	
			Reinstate	\$	- to	\$		

If reinstate cost is greater than 80% of total rebuild please indicate here

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## max7m Page 5 of 5

### Rapid Assessment Form – Limitations

#### Limitations

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- (iii). Our inspection was limited to sensory examinations of what we assessed to be typical parts of the building only where safe ready access existed at the time. Our inspection of the relevant aspects of the building as outlined above cannot guarantee that all possible facilities, defects, conditions and qualities are identified in this report.
- (iv). Our review for the inspection has not extended to design calculations. No subsurface investigations were undertaken. No survey of property boundaries or building location has been undertaken by us.
- (V). Conditions may exist which were undetectable given the limited nature of the enquiry M7 was retained to undertake with respect to the site. Variations in conditions may occur between investigatory locations, and there may be special conditions pertaining to the site which have not been revealed by the investigation and which have not therefore been taken into account in the Document. Accordingly, additional studies and actions may be required.
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